

FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

Guoguang Electric Co.,Ltd

Portable Wireless Speaker

Model Number: VIFA110

FCC ID: 2AAP8-VIFANORDIC4

Applicant :	Guoguang Electric Co.,Ltd
Address:	No.8 Jinghu Road, Xinhua Street, Huadu Reg, Guangzhou, China
Prepared By:	EST Technology Co., Ltd.
	Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China
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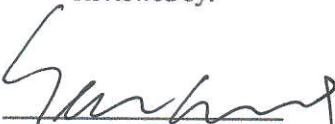

Report Number:	ESTE-R1906003-1
Date of Test:	Nov. 29, 2021
Date of Report:	Mar. 19, 2022

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EST Technology Co., Ltd.

Applicant:	Guoguang Electric Co.,Ltd		
Address:	No.8 Jinghu Road, Xinhua Street, Huadu Reg, Guangzhou, China		
Manufacturer:	Vifa Denmark A/S		
Address:	Smedeland 7, Smedeland, 2600 Glostrup, Denmark		
E.U.T:	Portable Wireless Speaker		
Model Number:	VIFA110		
Power Supply:	DC 5V From Adapter Input AC 100-240V, 50/60Hz DC 3.7V From Battery		
Trade Name:	Vifa	Serial No.:	-----
Date of Receipt:	Nov. 23, 2021	Date of Test:	Nov. 29, 2021
Test Specification:	FCC Part 15 Subpart C (15.225) ANSI C63.10:2013		
Test Result:	<p>The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements.</p> <p style="text-align: center;">This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.</p>		
Prepared by:	Reviewed by:	Date: Mar. 19, 2022	
 _____ Ring Yang / Assistant	 _____ Seven Wang / Engineer	Approved by:  _____ Iceman Hu / Manager	
Other Aspects: This report base on the previous report with report number: ESTE-R1906003, only the PCB Layout has been small changed、 appearance color change,the rf module has not changed, so just re-tested spurious Emissions (30-1000MHz), other test item needn't re-tested.			
Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested			
This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.			

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Product Name	:	Portable Wireless Speaker
Model Number	:	VIFA110
Software Version	:	V3.0
Hardware Version	:	DV2
Operation frequency	:	13.56MHz
Number of channel	:	1
Modulation Type	:	ASK
Sample Type	:	Prototype production

Note:

1. The antenna information for EUT.

Ant No.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	PCB	N/A	0

2. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. SUMMARY OF TEST

2.1. Summary of test result

Report Section	Description of Test Item	FCC Standard Section	Results
3	Conducted Emissions	15.207	PASS
4	Radiated Emission	15.225(a)(b)(c)(d)	PASS
5	Frequency Tolerance	15.225(e)	N/A
6	20dB Bandwidth	15.215	N/A
7	Antenna Requirement	15.203	N/A

Note:

(1) "N/A" denotes test is not applicable in this test report

2.2. Test Facilities

EMC Lab : Certificated by CNAS, CHINA
Registration No.: L5288
This Certificate is valid until: November 12, 2023

Certificated by FCC, USA
Designation Number: CN1215
This Certificate is valid until: January 31, 2024

Certificated by A2LA, USA
Registration No.: 4366.01
This Certificate is valid until: January 31, 2024

Certificated by Industry Canada
CAB identifier No.: CN0035
This Certificate is valid until: January 31, 2024

Certificated by VCCI, Japan
Registration No.:C-14103; T-20073; R-13663;
R-20103; G-20097
Date of registration: Apr. 20, 2020
This Certificate is valid until: Apr. 19, 2023

Certificated by TUV Rheinland, Germany
Registration No.: UA 50413872 0001
Date of registration: July 31, 2018

Certificated by Intertek
Registration No.: 2011-RTL-L2-64
Date of registration: November 08, 2018

Name of Firm : EST Technology Co., Ltd.

Site Location : Chilingxiang, Qishantou, Santun, Houjie, Dongguan,
Guangdong, China

2.3. Measurement uncertainty

Test Item	Uncertainty
Uncertainty for Conduction emission test	±3.48dB
Uncertainty for spurious emissions test (30MHz-1GHz)	±4.60 dB(Polarize: H)
	±4.68 dB(Polarize: V)
Uncertainty for spurious emissions test (1GHz to 18GHz)	±4.96dB
Uncertainty for radio frequency	7×10^{-8}
Uncertainty for conducted RF Power	0.20dB
Uncertainty for Power density test	0.26dB

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

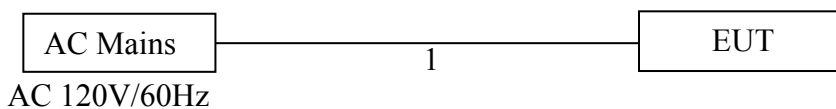
2.4. Assistant equipment used for test

Item	Equipment	Brand	Model Name/Type No.	FCC ID	Series No.
-	Adapter	-	A1443	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.2m	DC Cable

2.5. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 meter high above ground. EUT was beset into NFC test mode by software before test.



(EUT: Portable Wireless Speaker)

2.6. Test mode

Combining all the rates, modulations, and packet types, the Pre-scans had been carried out. The worst case test mode was selected for the final test as listed below.

Test Item	Modulation Type	Operating Mode
Conducted Emission	ASK	TX Mode
Radiated Emission	ASK	TX Mode

Note:

1. In radiated measurement, the EUT had been pre-scan on the positioned of each 3 axis(X,Y, Z), the worst case was found when positioned on **Y-plane**.

2.7. Channel List

Channel No.	Frequency (MHz)
1	13.56

2.8. Test Equipment

2.8.1. For conducted emission test

For conducted emission test						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	EST-E001	LISAI	June 13,21	1 Year
Artificial Mains Network	Rohde & Schwarz	ENV216	EST-E002	LISAI	June 13,21	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	EST-E078	LISAI	June 13,21	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A

2.8.2. For radiated emission test(9 kHz-30MHz)

For radiated emission test(9kHz-30MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 13,21	1 Year
Active Loop Antenna	SCHWABE ECK	FMZB 1519B	EST-E054	LISAI	June 13,21	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
9kHz-30MHz Cable	N/A	EST-001	N/A	N/A	N/A	N/A

2.8.3. For radiated emissions test (30-1000MHz)

For radiated emissions test (30MHz-1000MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 13,21	1 Year
Bilog Antenna	Teseq	CBL 6111D	EST-E034	LISAI	June 13,21	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
30-1000MHz Cable	N/A	EST-002	N/A	N/A	N/A	N/A

3. AC POWER LINE CONDUCTED EMISSIONS

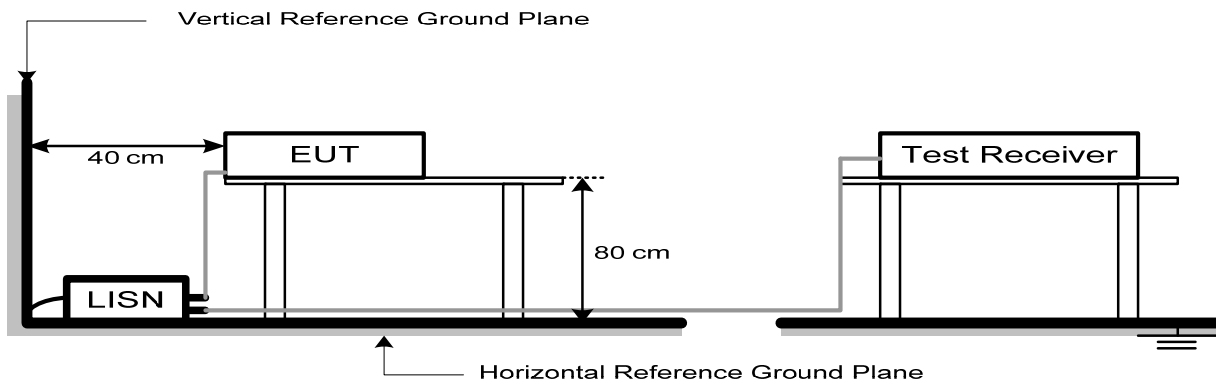
3.1. Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Note:

1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

3.2. Test Setup



3.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP/AVG
Trace Mode	Max Hold

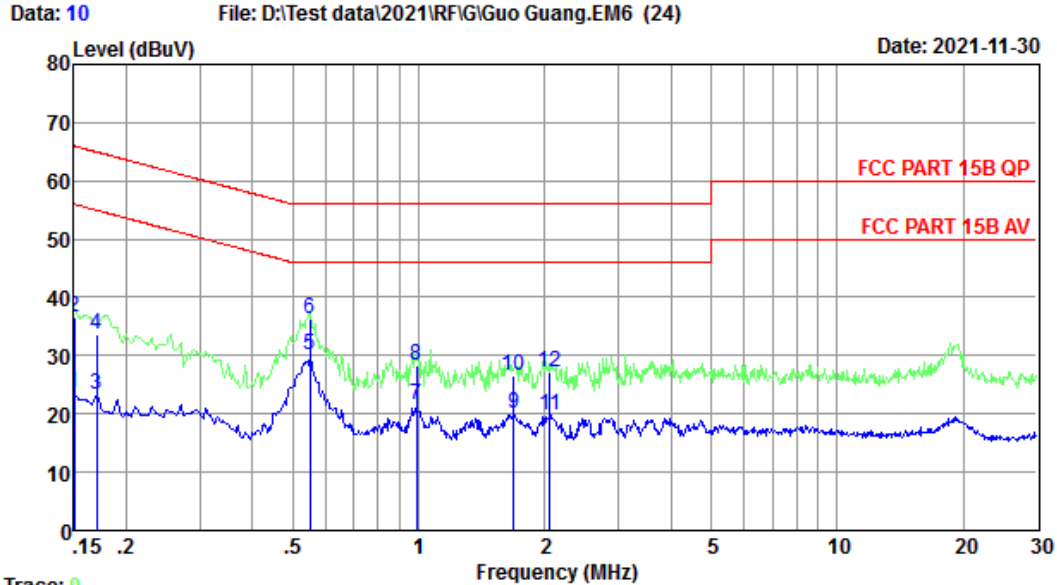
3.4. Test Procedure

- a. The EUT was placed on a non-metallic table, 80cm above the ground plane.
- b. The EUT Power connected to the power mains through a line impedance stabilization network.
- c. Provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs).
- d. Set the EUT transmit continuously with maximum output power.
- e. Spectrum analyzer setting parameters in accordance with section 3.3.
- f. The 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 ANSI C63.10: 2013 on Conducted Emission Test.
- g. Record the results in the test report.

3.5. Test Result

EST Technology

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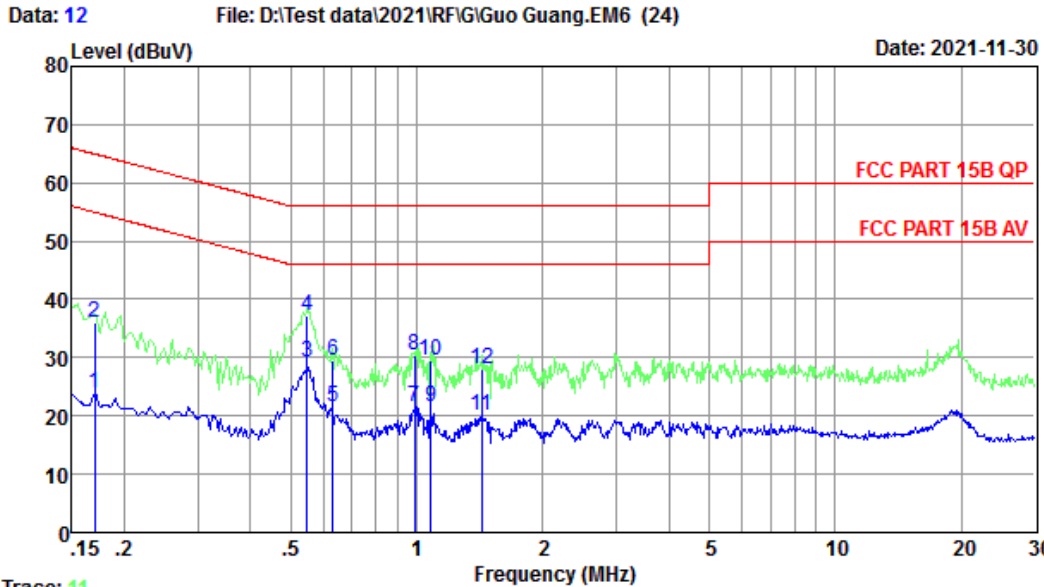


Trace: 9
 Site no : 1#CE Shield Room Data no. : 10
 Env. / Ins. : Temp:23.5'C Humi:50% Press:101.50kPa LINE Phase : LINE
 Limit : FCC PART 15B QP
 Engineer : ZSX
 EUT : Portable Wireless Speaker
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : VIFA110
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	9.98	9.69	3.85	23.52	56.00	32.48	Average
2	0.150	9.98	9.69	16.86	36.53	66.00	29.47	QP
3	0.170	9.98	9.69	3.62	23.29	54.94	31.65	Average
4	0.170	9.98	9.69	14.06	33.73	64.94	31.21	QP
5	0.549	9.90	9.92	10.30	30.12	46.00	15.88	Average
6	0.549	9.90	9.92	16.45	36.27	56.00	19.73	QP
7	0.989	9.84	9.94	1.70	21.48	46.00	24.52	Average
8	0.989	9.84	9.94	8.58	28.36	56.00	27.64	QP
9	1.689	9.77	9.95	0.33	20.05	46.00	25.95	Average
10	1.689	9.77	9.95	6.84	26.56	56.00	29.44	QP
11	2.055	9.80	9.97	0.15	19.92	46.00	26.08	Average
12	2.055	9.80	9.97	7.25	27.02	56.00	28.98	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

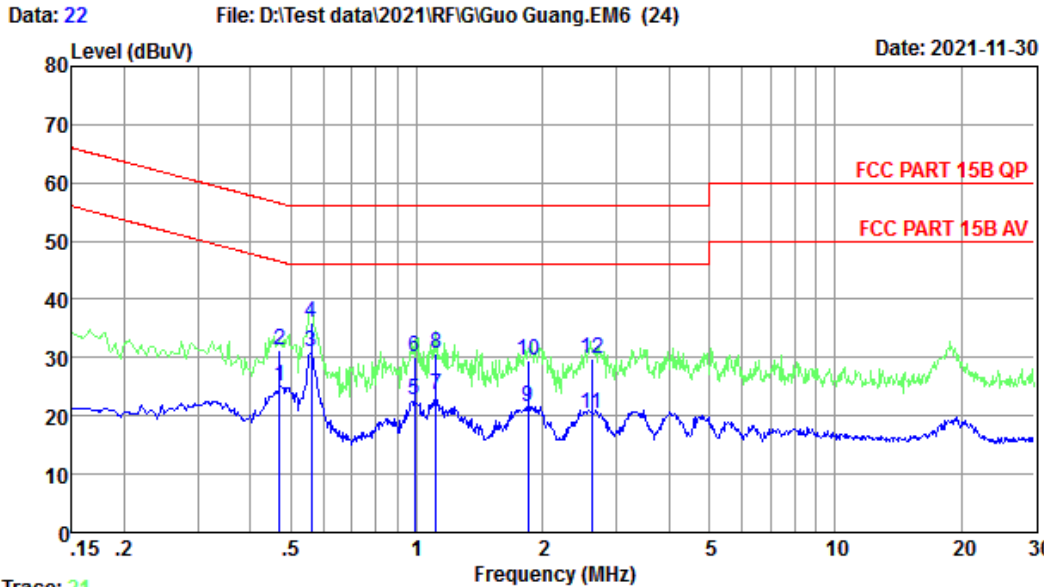




Trace: 11
 Site no : 1#CE Shield Room Data no. : 12
 Env. / Ins. : Temp:23.5'C Humi:50% Press:101.50kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : ZSX
 EUT : Portable Wireless Speaker
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : VIFA110
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.170	10.14	9.69	4.16	23.99	54.94	30.95	Average
2	0.170	10.14	9.69	16.08	35.91	64.94	29.03	QP
3	0.546	9.83	9.92	9.34	29.09	46.00	16.91	Average
4	0.546	9.83	9.92	17.45	37.20	56.00	18.80	QP
5	0.630	9.77	9.92	1.72	21.41	46.00	24.59	Average
6	0.630	9.77	9.92	9.83	29.52	56.00	26.48	QP
7	0.989	9.92	9.94	1.78	21.64	46.00	24.36	Average
8	0.989	9.92	9.94	10.54	30.40	56.00	25.60	QP
9	1.082	9.83	9.94	1.71	21.48	46.00	24.52	Average
10	1.082	9.83	9.94	9.81	29.58	56.00	26.42	QP
11	1.426	9.72	9.95	0.42	20.09	46.00	25.91	Average
12	1.426	9.72	9.95	8.24	27.91	56.00	28.09	QP

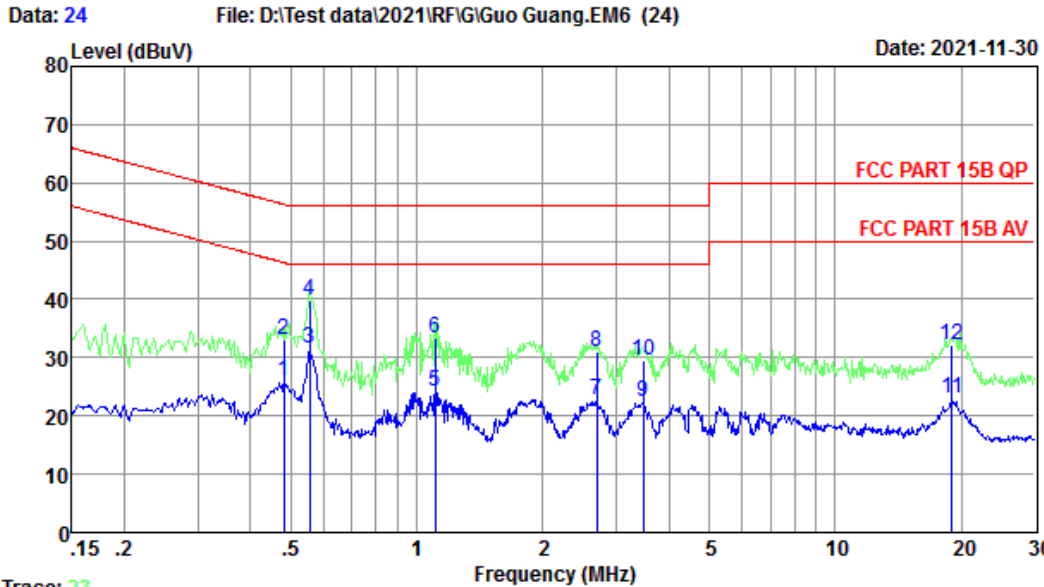
Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.



Trace: 21
 Site no : 1#CE Shield Room Data no. : 22
 Env. / Ins. : Temp:23.5'C Humi:50% Press:101.50kPa LINE Phase : LINE
 Limit : FCC PART 15B QP
 Engineer : ZSX
 EUT : Portable Wireless Speaker
 Power : DC 5V From Adapter Input AC 240V/60Hz
 M/N : VIFA110
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.471	9.75	9.92	5.37	25.04	46.49	21.45	Average
2	0.471	9.75	9.92	11.60	31.27	56.49	25.22	QP
3	0.561	9.90	9.92	11.08	30.90	46.00	15.10	Average
4	0.561	9.90	9.92	16.22	36.04	56.00	19.96	QP
5	0.989	9.84	9.94	2.81	22.59	46.00	23.41	Average
6	0.989	9.84	9.94	10.19	29.97	56.00	26.03	QP
7	1.111	9.75	9.94	3.85	23.54	46.00	22.46	Average
8	1.111	9.75	9.94	11.03	30.72	56.00	25.28	QP
9	1.848	9.79	9.95	1.91	21.65	46.00	24.35	Average
10	1.848	9.79	9.95	9.90	29.64	56.00	26.36	QP
11	2.622	9.74	9.97	0.72	20.43	46.00	25.57	Average
12	2.622	9.74	9.97	10.25	29.96	56.00	26.04	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.



Trace: 23
 Site no : 1#CE Shield Room Data no. : 24
 Env. / Ins. : Temp:23.5'C Humi:50% Press:101.50kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : ZSX
 EUT : Portable Wireless Speaker
 Power : DC 5V From Adapter Input AC 240V/60Hz
 M/N : VIFA110
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.481	9.92	9.92	6.11	25.95	46.32	20.37	Average
2	0.481	9.92	9.92	13.25	33.09	56.32	23.23	QP
3	0.555	9.83	9.92	11.84	31.59	46.00	14.41	Average
4	0.555	9.83	9.92	20.08	39.83	56.00	16.17	QP
5	1.106	9.80	9.94	4.50	24.24	46.00	21.76	Average
6	1.106	9.80	9.94	13.61	33.35	56.00	22.65	QP
7	2.692	9.82	9.97	2.86	22.65	46.00	23.35	Average
8	2.692	9.82	9.97	11.13	30.92	56.00	25.08	QP
9	3.472	9.83	9.98	2.51	22.32	46.00	23.68	Average
10	3.472	9.83	9.98	9.64	29.45	56.00	26.55	QP
11	19.021	9.87	10.15	2.95	22.97	50.00	27.03	Average
12	19.021	9.87	10.15	12.07	32.09	60.00	27.91	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

4. RADIATED EMISSION

4.1. Limit

- (a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.
- (b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- (c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
- (d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in §15.209.

(Radiated Emission <30MHz (9KHz-30MHz, H-field)

According to FCC section 15.225 for <30MHz, Radiated emissions were measured according to ANSIC63.4. The EUT was set to transmit at the highest output power. The EUT was set 30 meter away from the measuring antenna. The loop antenna was positioned 1 meter above the ground from the center of the loop. The measuring bandwidth was set to 10KHz. (Note: During testing the receive antenna was rotated about its axis to maximize the emission from the EUT)

There was no detected Restricted bands and Radiated suprious emission below 30MHz. The 30m limit was converted to 3m Limit using square factor(x) as it was found by measurements as follows;

$$3\text{ m Limit(dBuV/m)} = 20\log(X)+40\log(30/3)= 20\log(15,848)+40\log(30/3) =124\text{dBuV}$$

$$3\text{ m Limit(dBuV/m)} = 20\log(X)+40\log(30/3)= 20\log(334)+40\log(30/3) =90.47\text{dBuV}$$

$$3\text{ m Limit(dBuV/m)} = 20\log(X)+40\log(30/3)= 20\log(106)+40\log(30/3) =80.506\text{dBuV}$$

$$3\text{ m Limit(dBuV/m)} = 20\log(X)+40\log(30/3)= 20\log(30)+40\log(30/3) =69.54\text{dBuV}$$

Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency range (MHz)	Field Strength@30m		Field Strength@3m
	μV/m	dBμV/m	dBμV/m
Below 13.110	30	29.5	69.5
13.110 ~ 13.410	106	40.5	80.5
13.410 ~ 13.553	334	50.5	90.5
13.553 ~13.567	15.848	84	124.0
13.567 ~ 13.710	334	50.5	90.5
13.710 ~14.010	106	40.5	80.5
Above 14.010	30	29.5	59.5

Note:

a) Field Strength (dBμV/m) = 20*log[Field Strength (μV/m)].

b) In the emission tables above, the tighter limit applies at the Band edge.

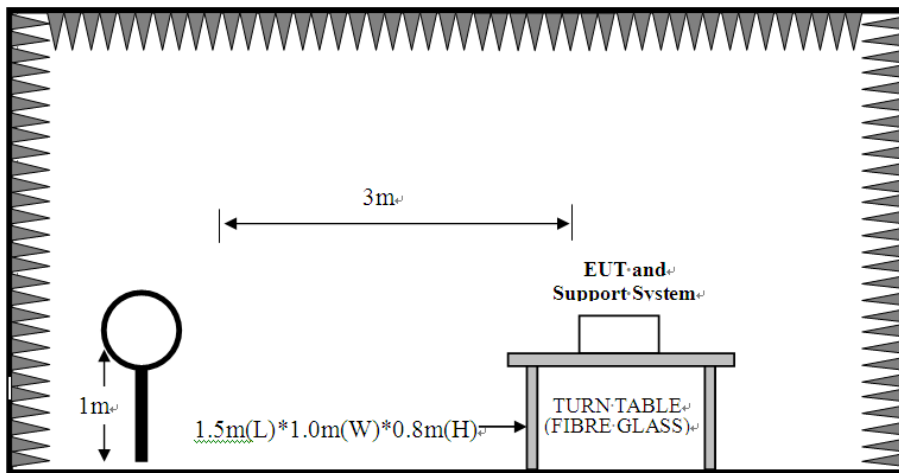
Radiated Emission >30MHz (30MHz-1GHz, E-field)

According to FCC section 15.205, the field strength of radiated emissions rom intentiona radiators at a distance of 3 meters shall not exceed the following values:

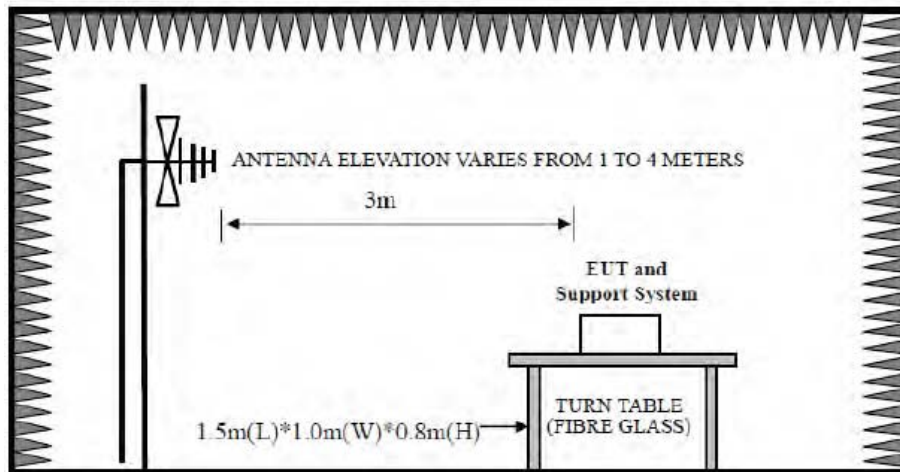
Frequency (MHz)	Field Strength(μV/m)	Distance(m)
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

4.2. Test Setup

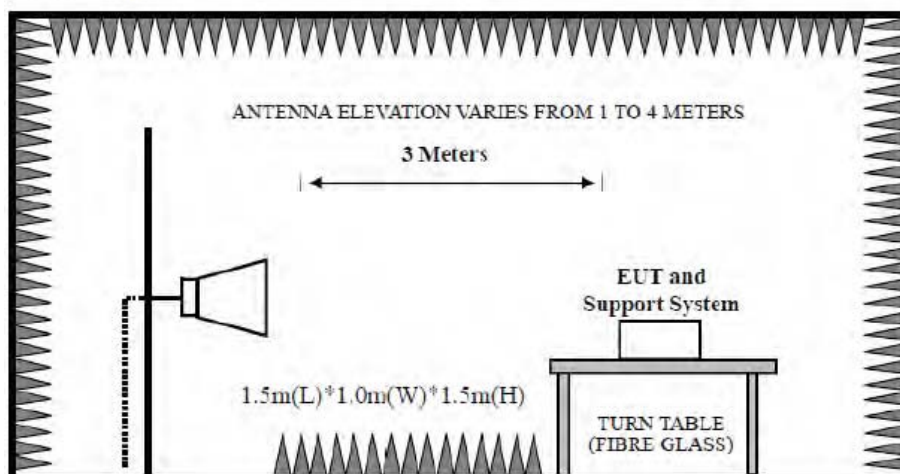
9kHz~30MHz



30~1000MHz



Above 1GHz



4.3. Spectrum Analyzer Setting

For 9KHz-150KHz

Spectrum Parameters	Setting
RBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
VBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
Start frequency	9KHz
Stop frequency	150KHz
Sweep Time	Auto
Detector	PEAK/QP/AVG
Trace Mode	Max Hold

For 150KHz-30MHz

Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

For 30MHz-1GHz

Spectrum Parameters	Setting
RBW	120KHz
VBW	300KHz
Start frequency	30MHz
Stop frequency	1GHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

4.4. Test Procedure

- a. The test is performed in a 3m Semi-Anechoic Chamber; the antenna factor, cable loss and so on of the site (factors) is calculated to correct the reading. The EUT is placed on a 0.8m high insulating Turn Table, and keeps 3m away from the Test Antenna, which is mounted on a variable-height antenna master tower. For the test Antenna.
- b. In the frequency range of 9KHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
- c. In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested.
- d. The initial step in collecting conducted 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.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

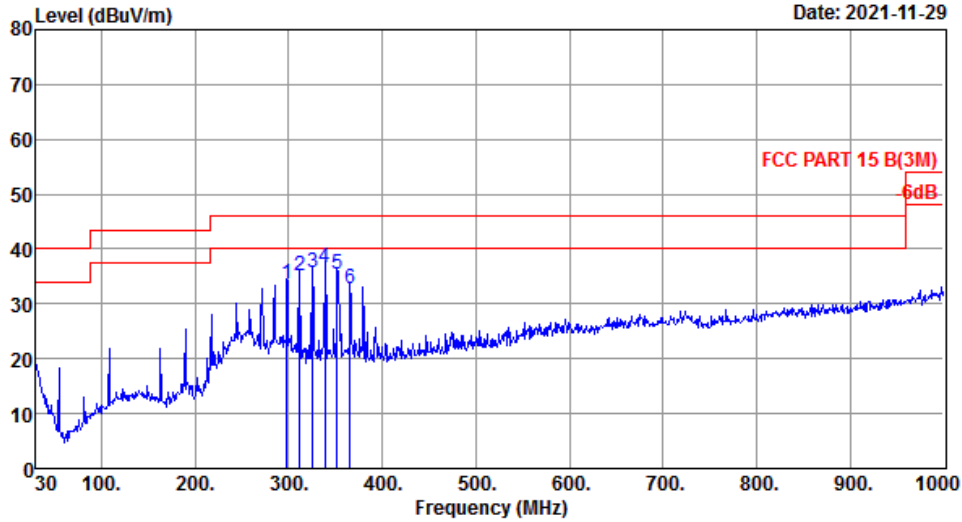
4.5. Test Result

30MHz-1000MHz

EST Technology

Chilingxiang, Qishantou, Santun,
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Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 9 File: \\EMC-966-1\test data\2021\RF\G\GUOQUANG\VIFA110.EM6 (12) Date: 2021-11-29



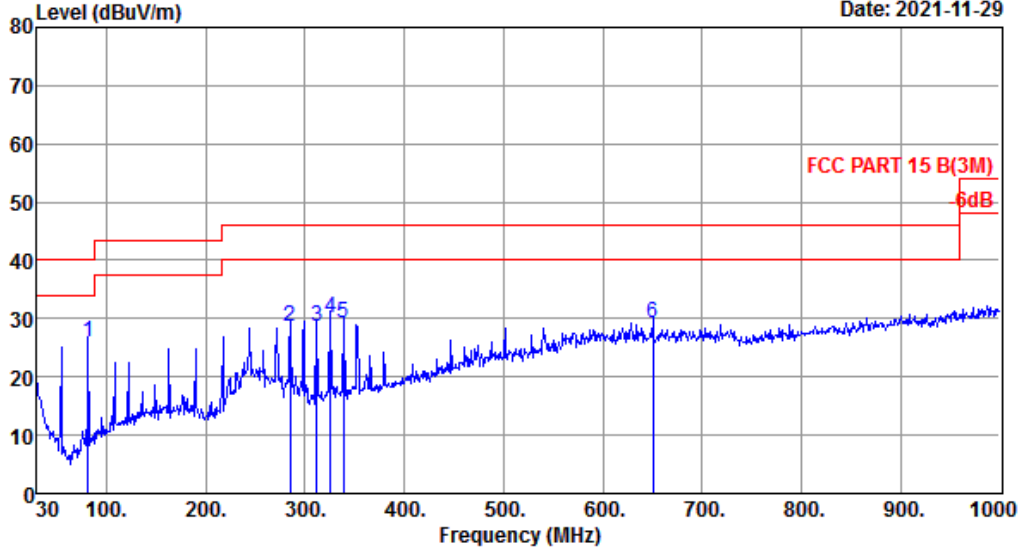
Site no. : 1# 966 Chamber Data no. : 9
 Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:24.6°C;Humi:54%;Press:101.85kPa
 Engineer : JBR
 EUT : Portable Wireless Speaker
 Power : DC 3.7V From Battery
 M/N : VIFA110
 Test Mode : TX Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	297.720	13.86	2.80	16.88	33.54	46.00	12.46	QP
2	312.270	13.96	2.83	18.33	35.12	46.00	10.88	QP
3	325.850	14.50	2.85	18.35	35.70	46.00	10.30	QP
4	338.460	14.86	2.95	18.89	36.70	46.00	9.30	QP
5	352.040	15.60	3.02	16.74	35.36	46.00	10.64	QP
6	365.620	15.65	3.13	14.04	32.82	46.00	13.18	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.



Data: 10 File: \\EMC-966-1\test data\2021\RF\FIGUOGUANG\VIFA110.EM6 (12) Date: 2021-11-29



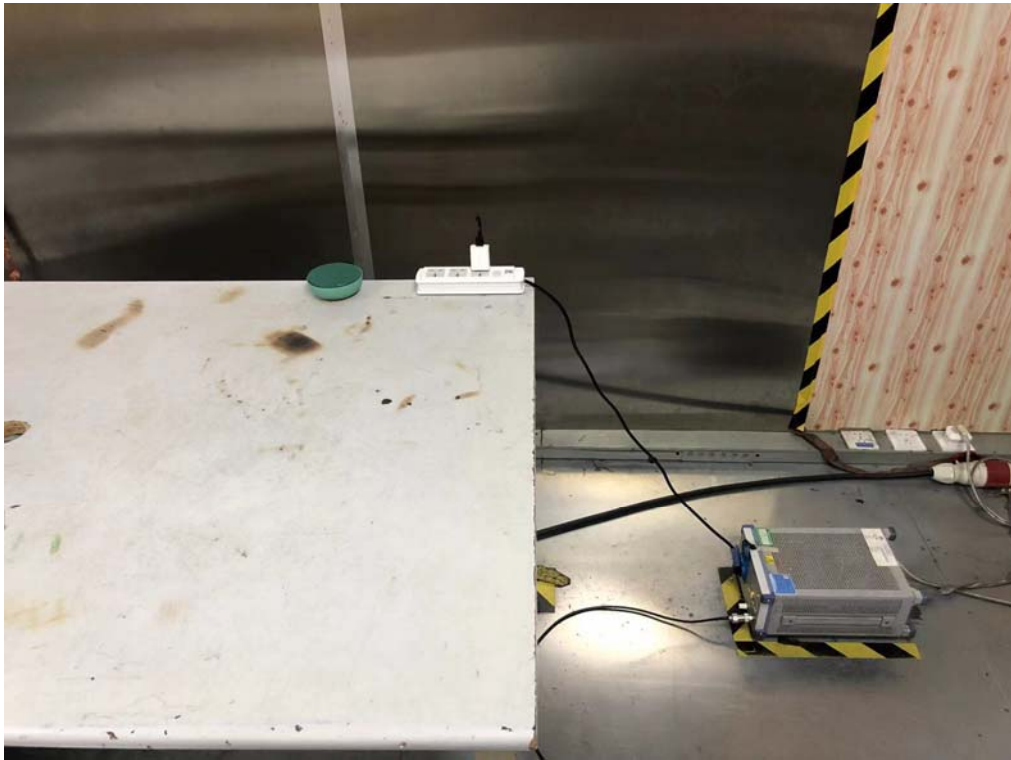
Site no. : 1# 966 Chamber Data no. : 10
 Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:24.6°C;Humi:54%;Press:101.85kPa
 Engineer : JBR
 EUT : Portable Wireless Speaker
 Power : DC 3.7V From Battery
 M/N : VIFA110
 Test Mode : TX Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	81.410	7.96	1.43	16.49	25.88	40.00	14.12	QP
2	285.110	13.50	2.70	12.38	28.58	46.00	17.42	QP
3	312.270	13.96	2.83	11.80	28.59	46.00	17.41	QP
4	325.850	14.50	2.85	12.83	30.18	46.00	15.82	QP
5	338.460	14.86	2.95	11.51	29.32	46.00	16.68	QP
6	650.800	21.71	4.26	3.21	29.18	46.00	16.82	QP

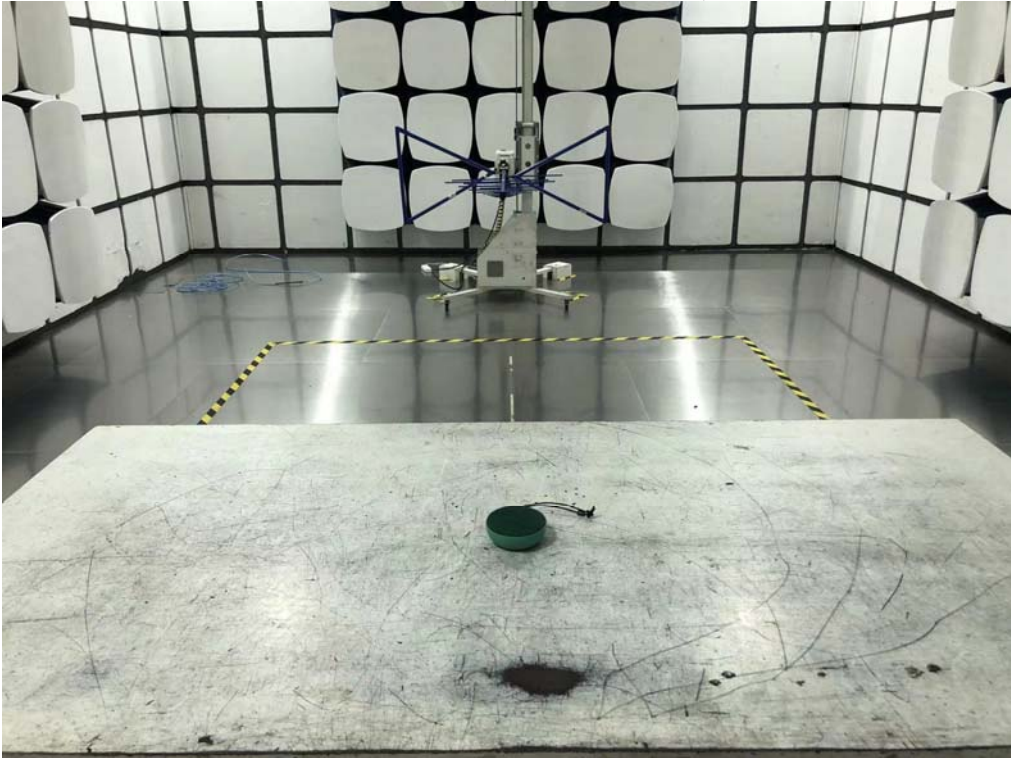
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

5. TEST SETUP PHOTO

Conducted Test

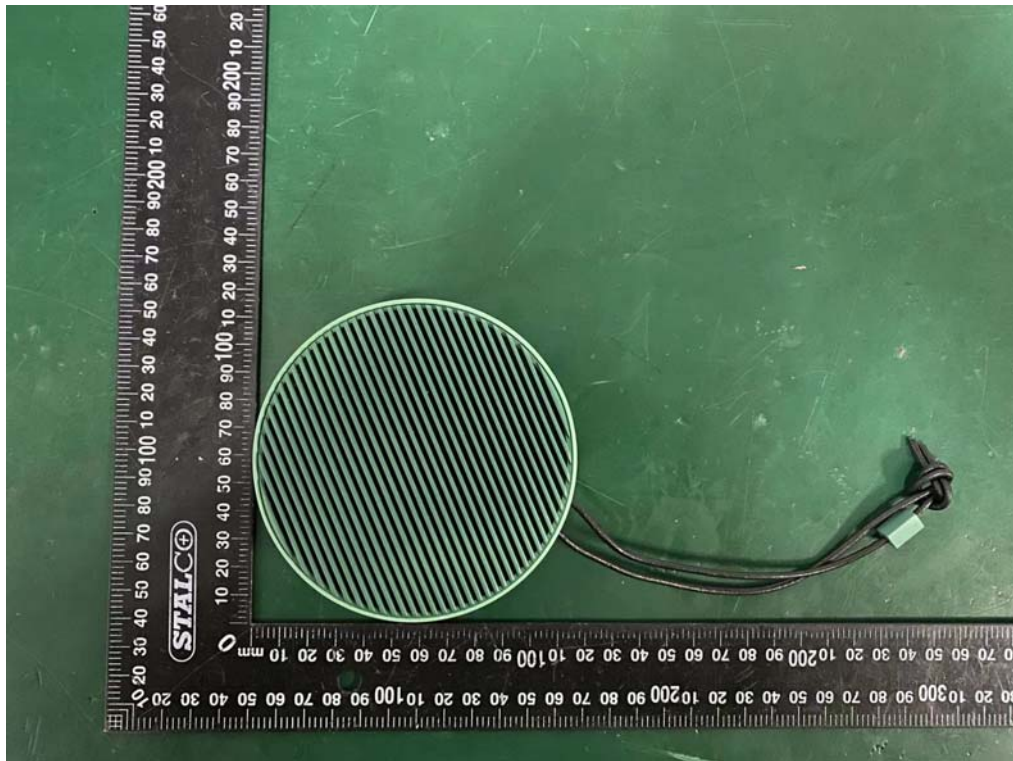
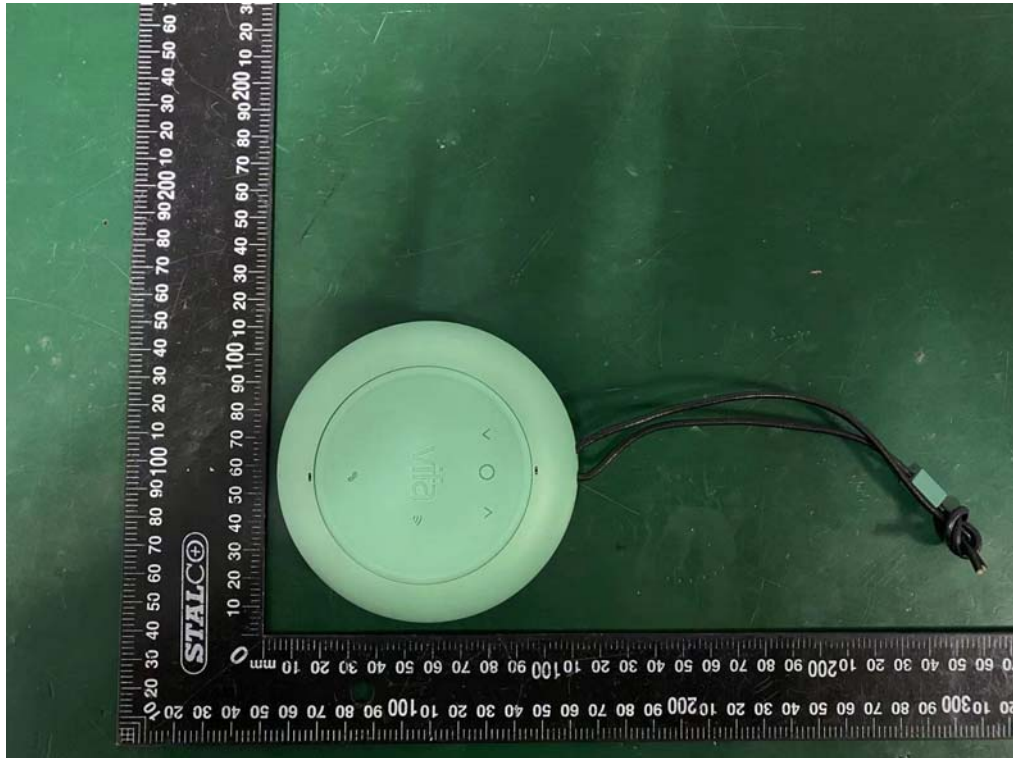


Radiated Test (Above 30MHz)



6. EUT PHOTO

External Photos
M/N: VIFA110



External Photos
M/N: VIFA110



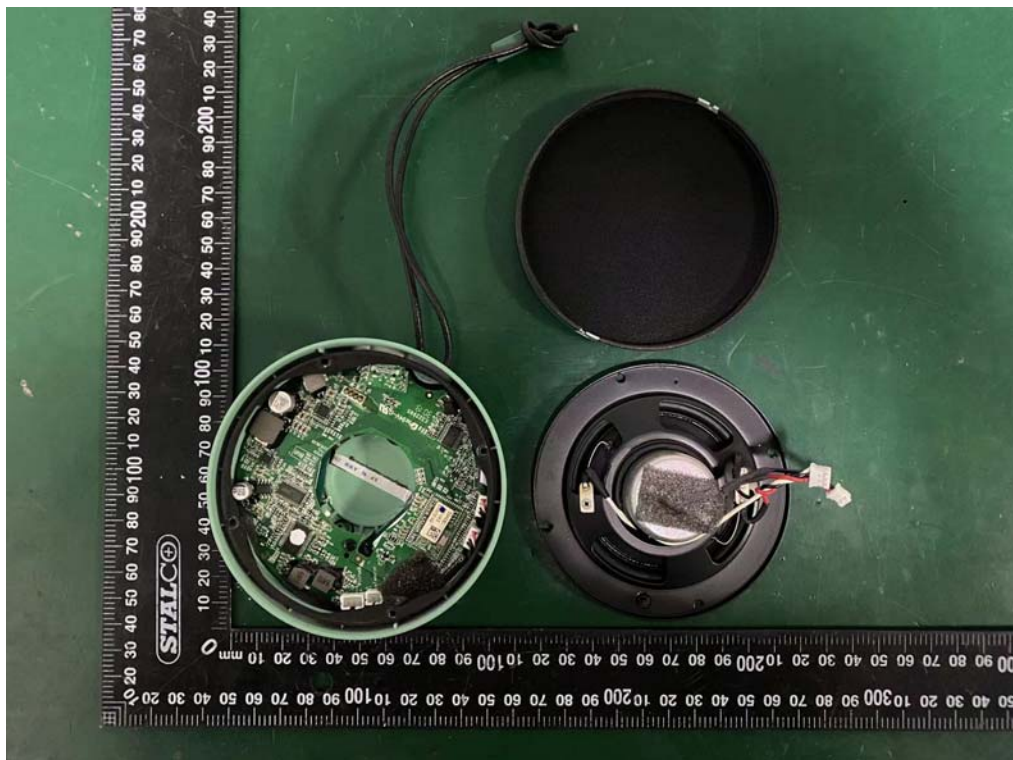
External Photos
M/N: VIFA110



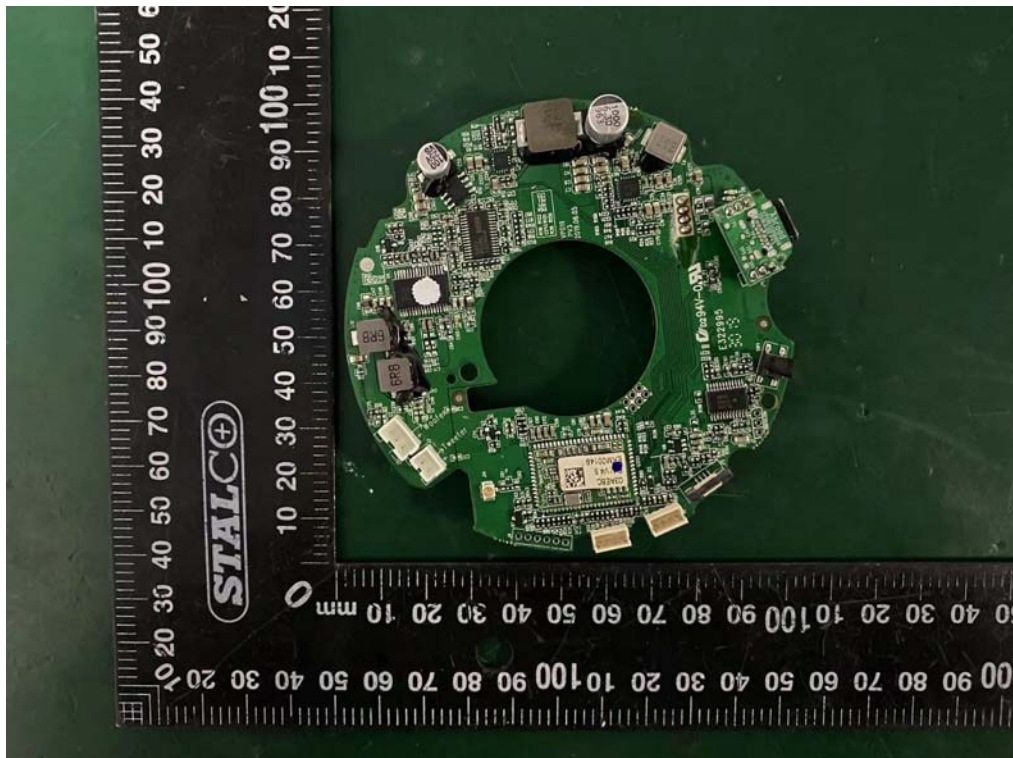
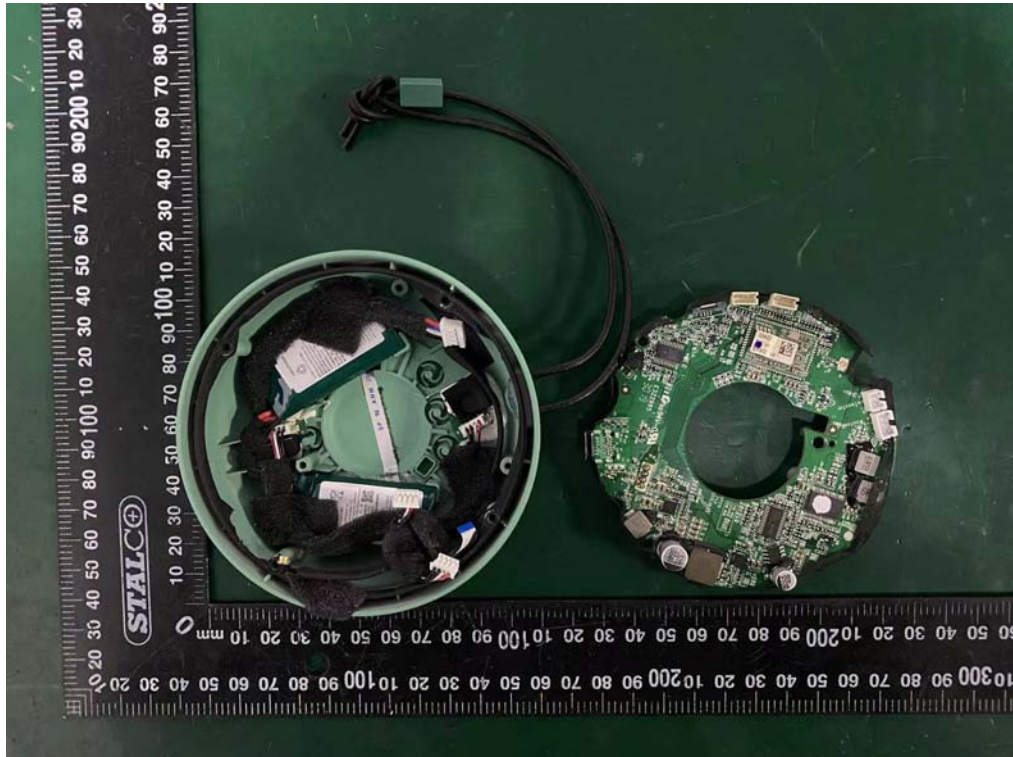
External Photos
M/N: VIFA110



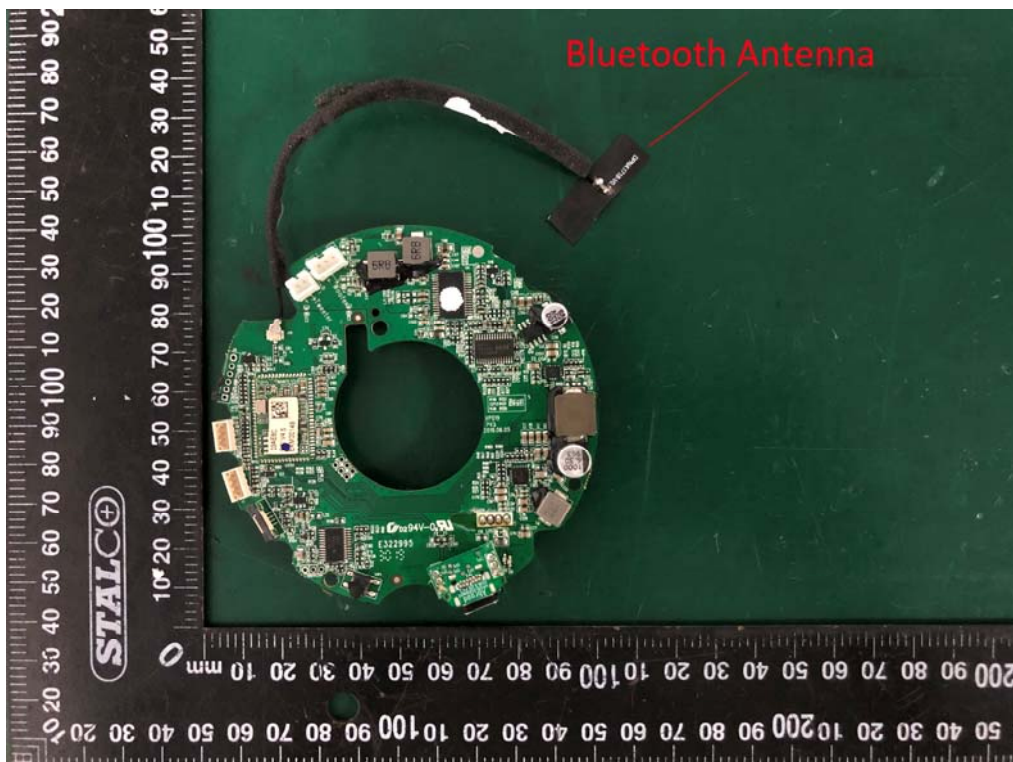
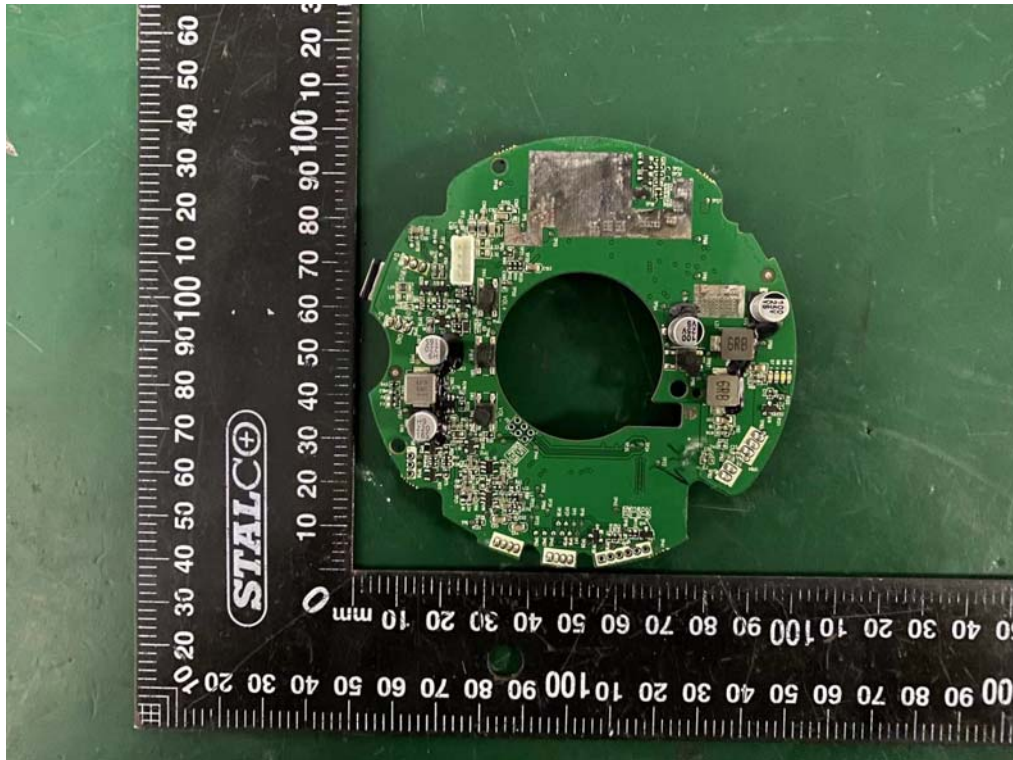
Internal Photos
M/N: VIFA110



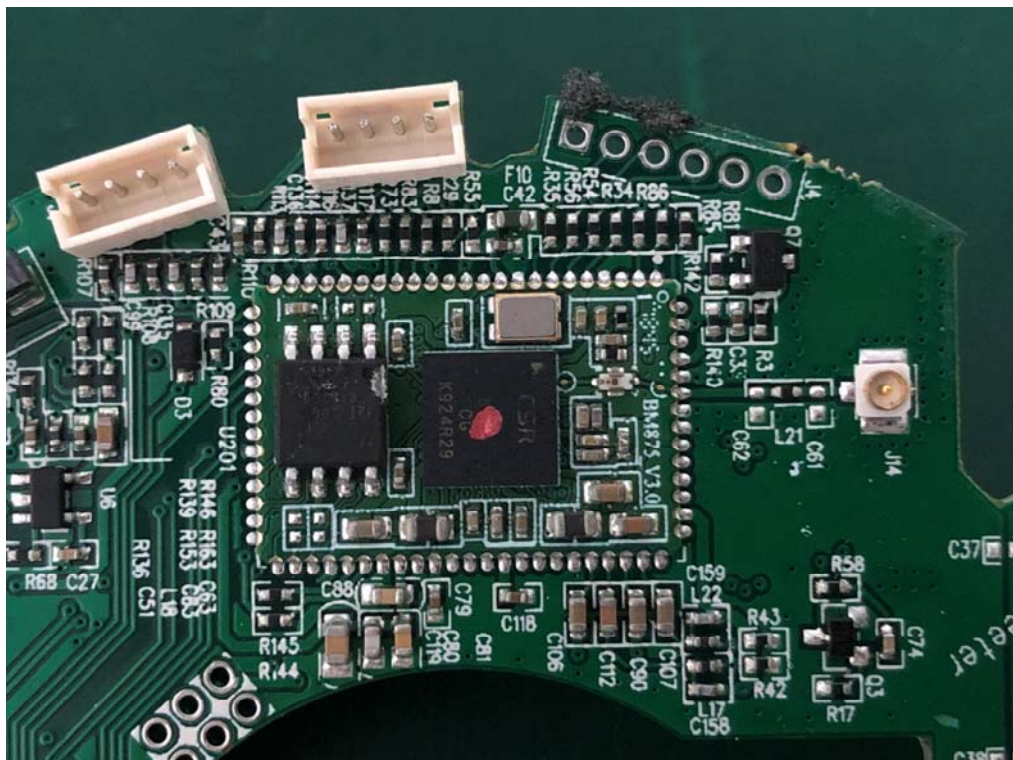
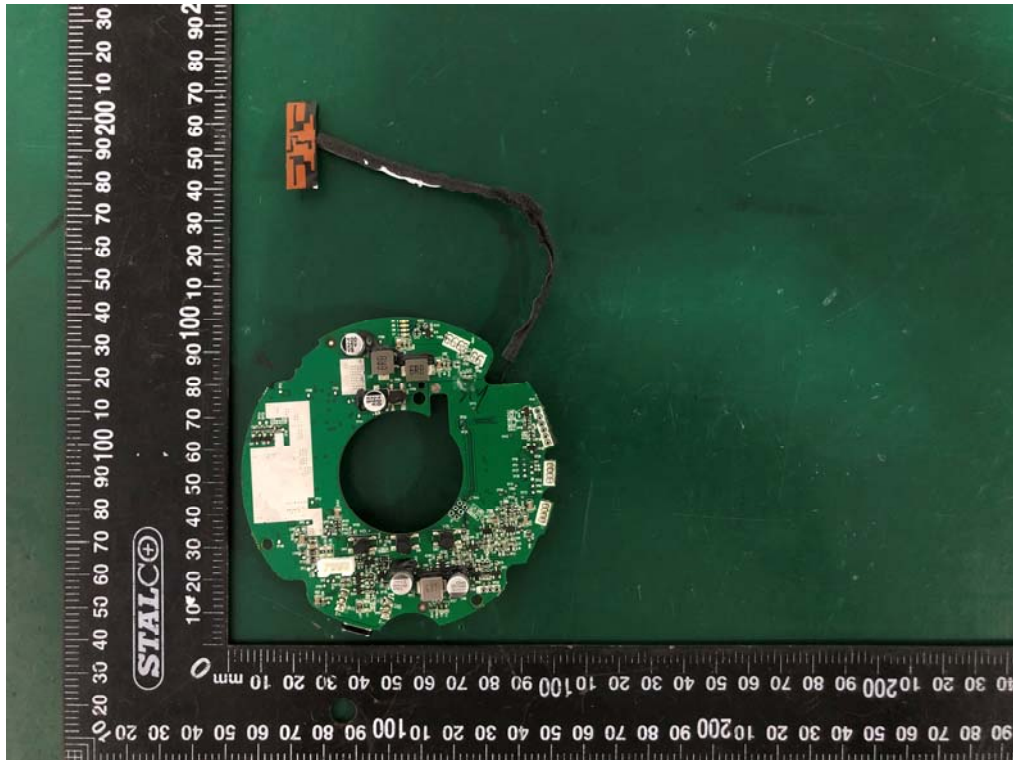
Internal Photos
M/N: VIFA110



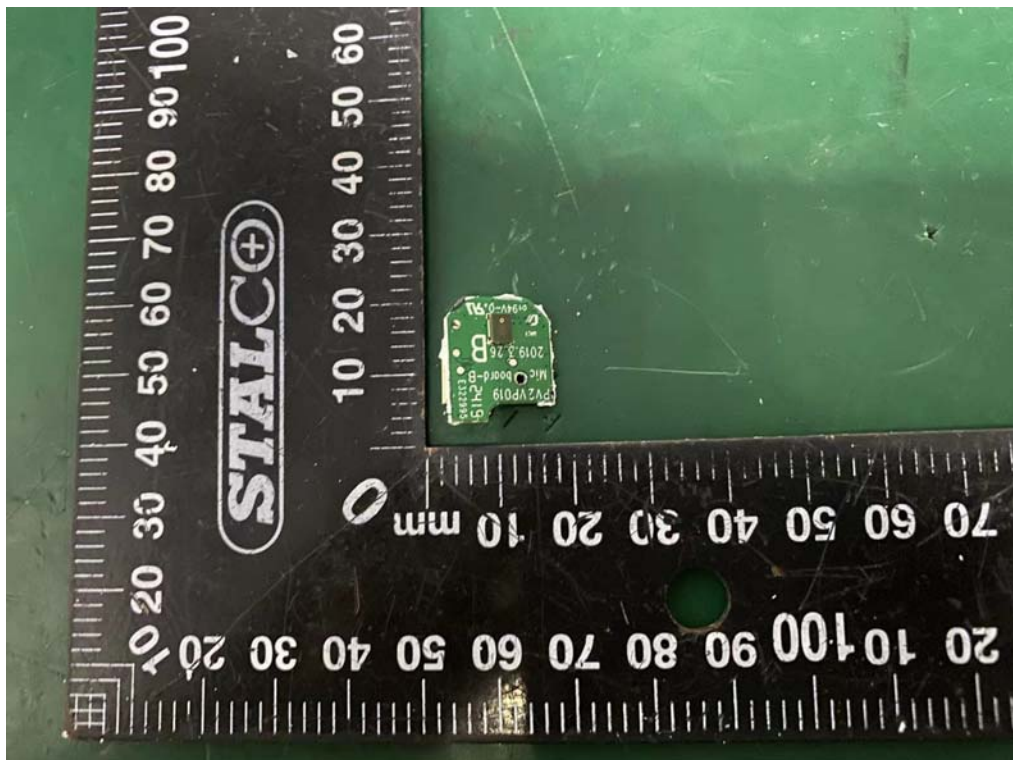
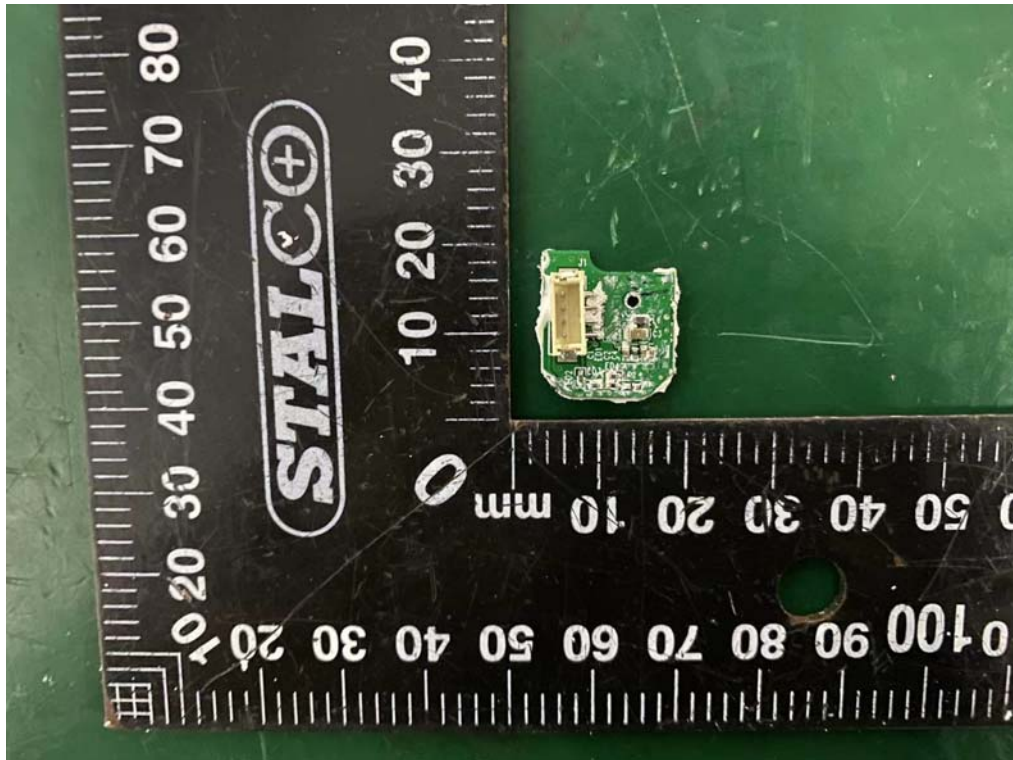
Internal Photos
M/N: VIFA110



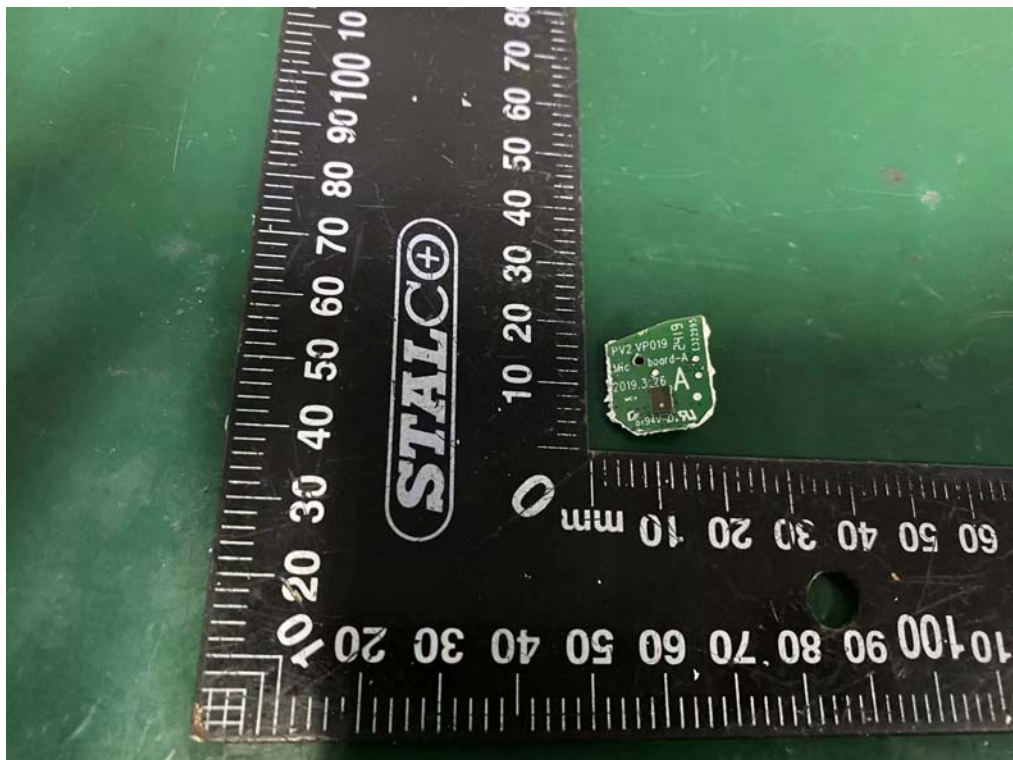
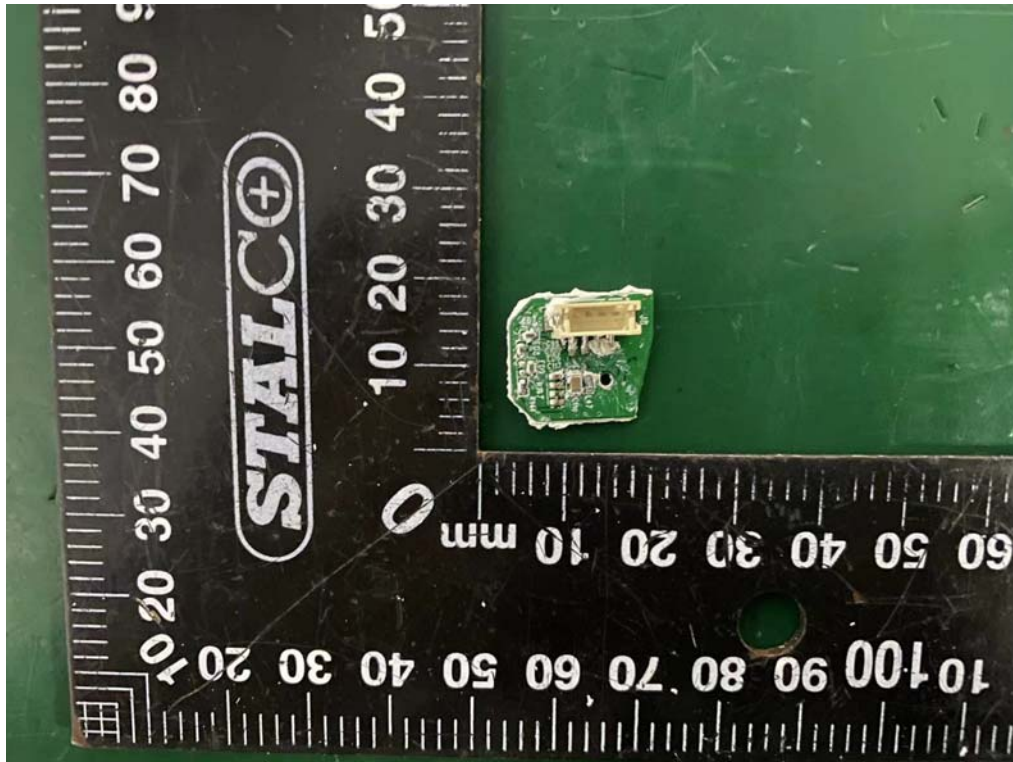
Internal Photos
M/N: VIFA110



Internal Photos
M/N: VIFA110



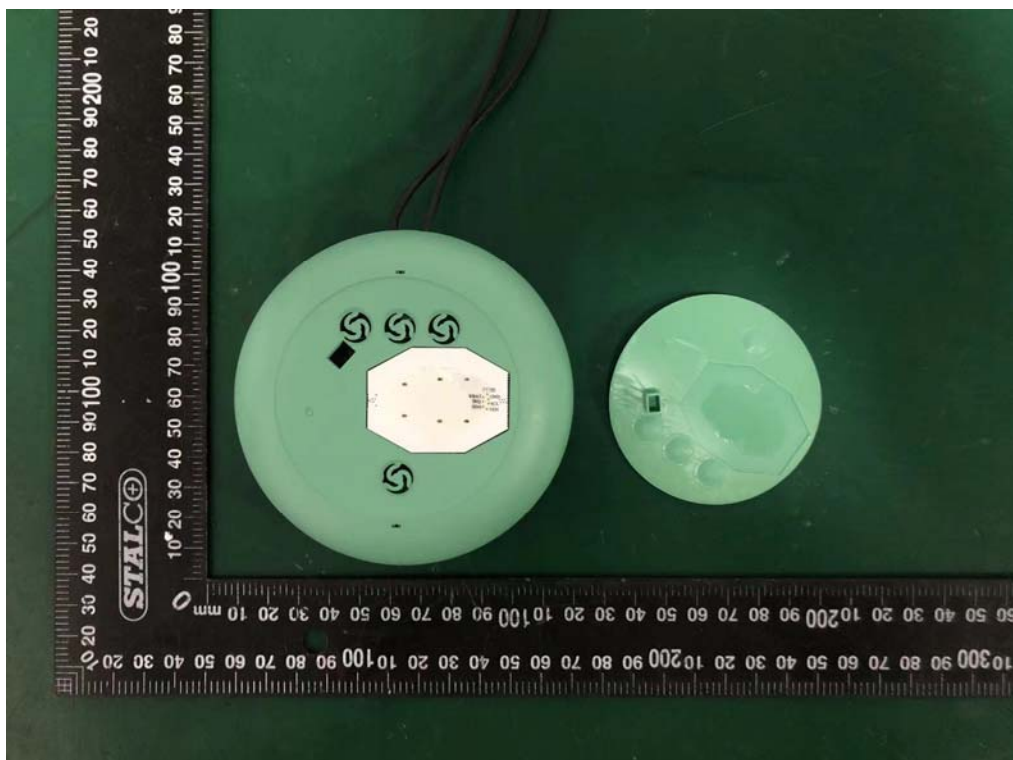
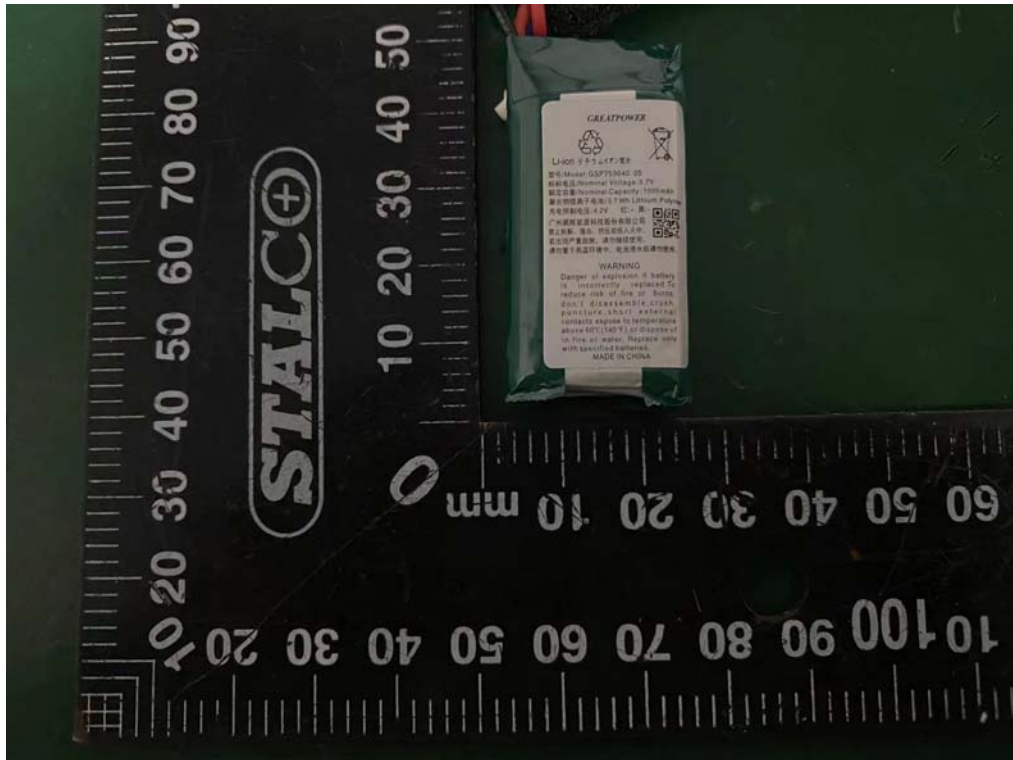
Internal Photos
M/N: VIFA110



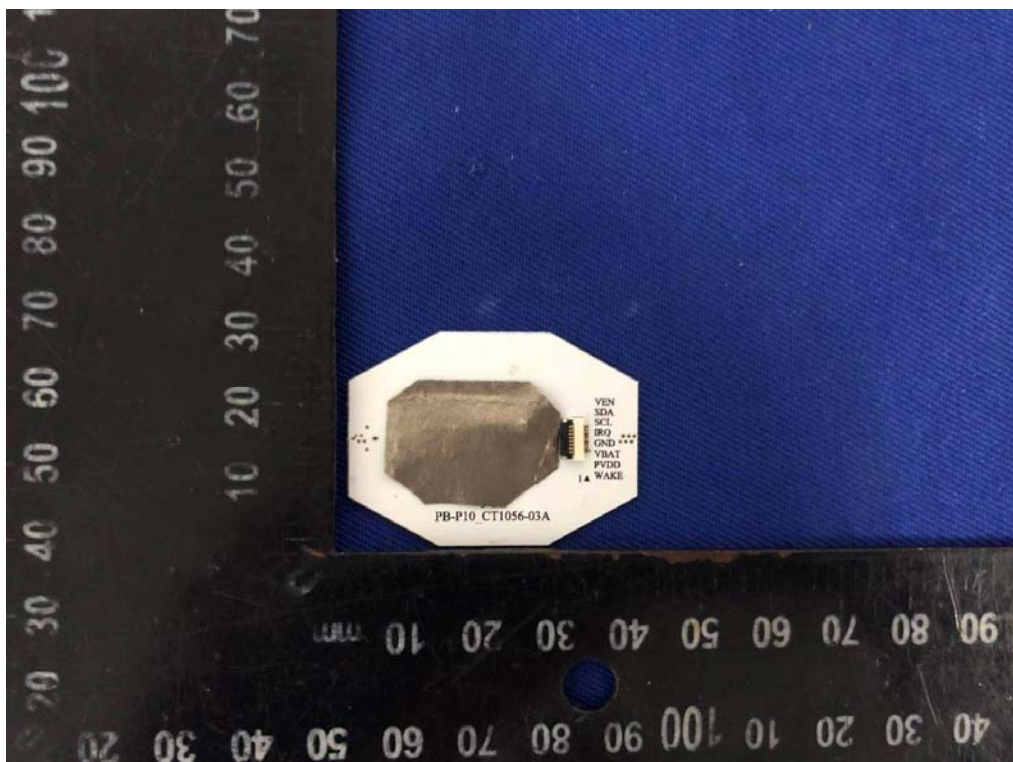
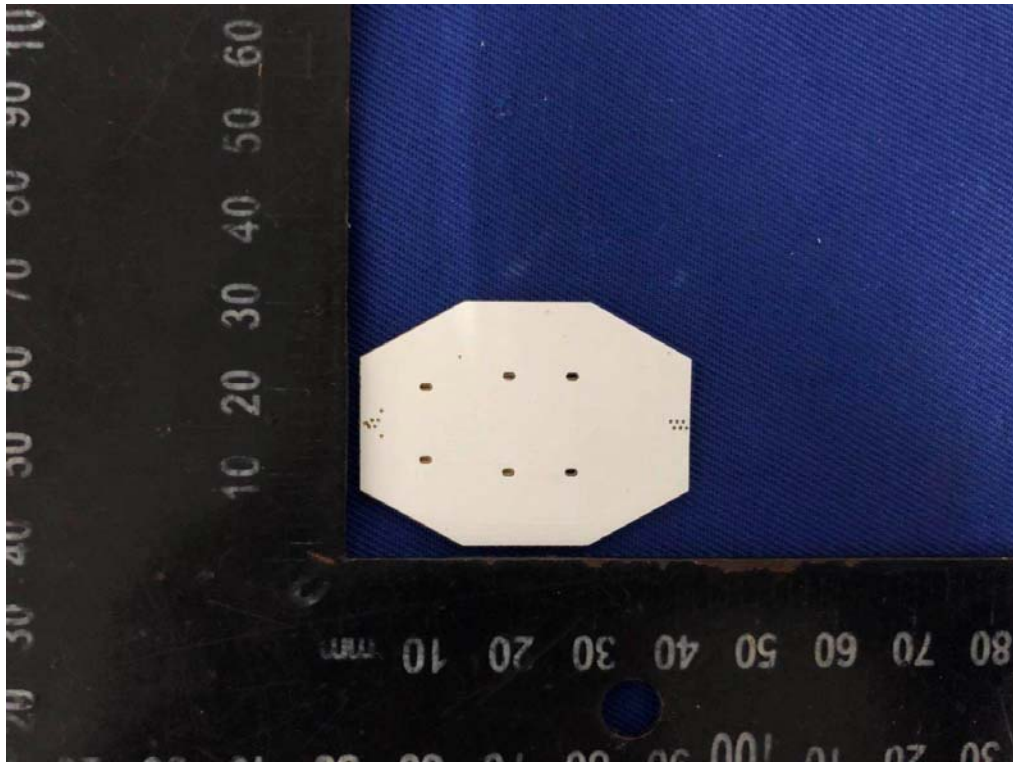
Internal Photos
M/N: VIFA110



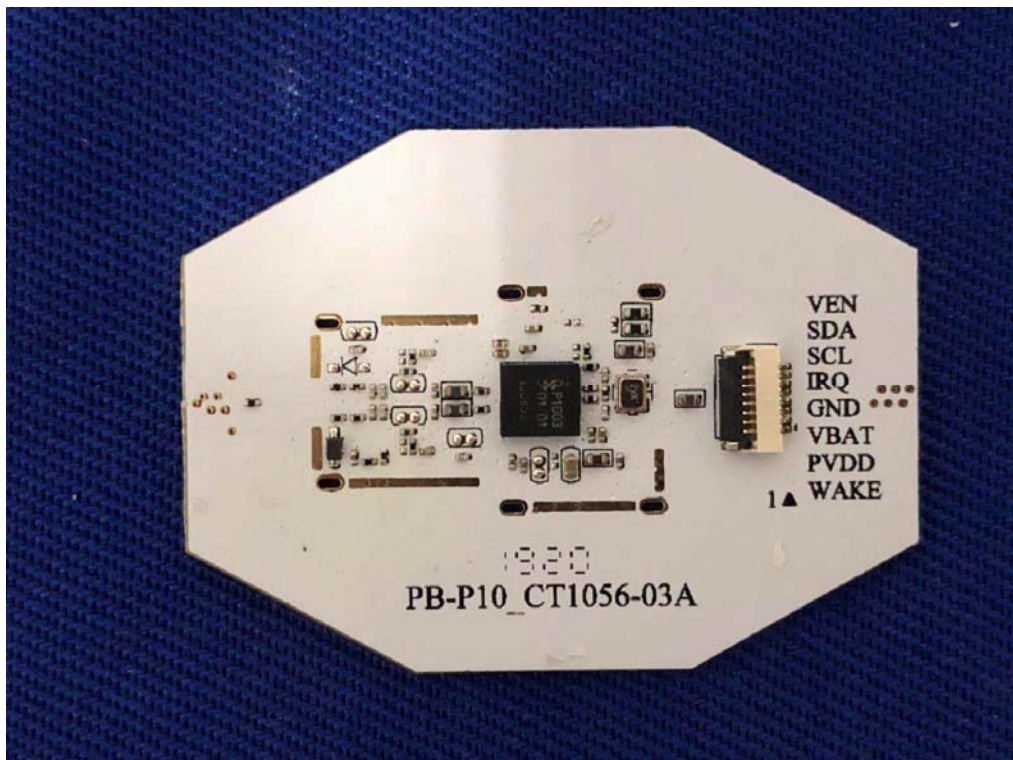
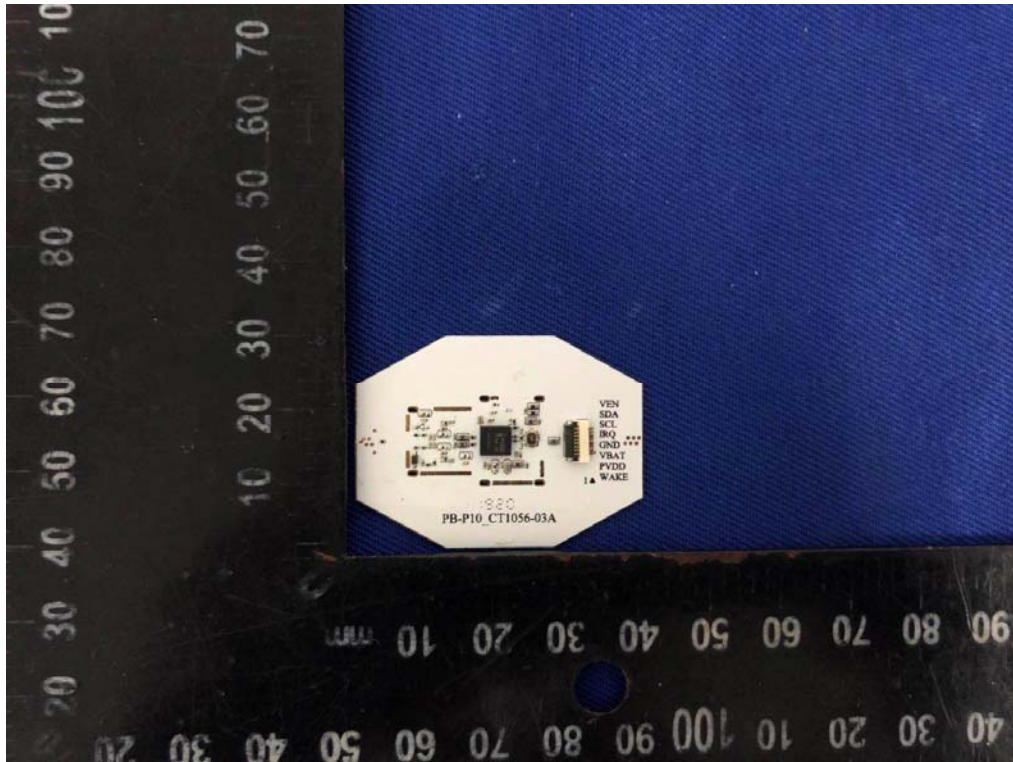
Internal Photos
M/N: VIFA110



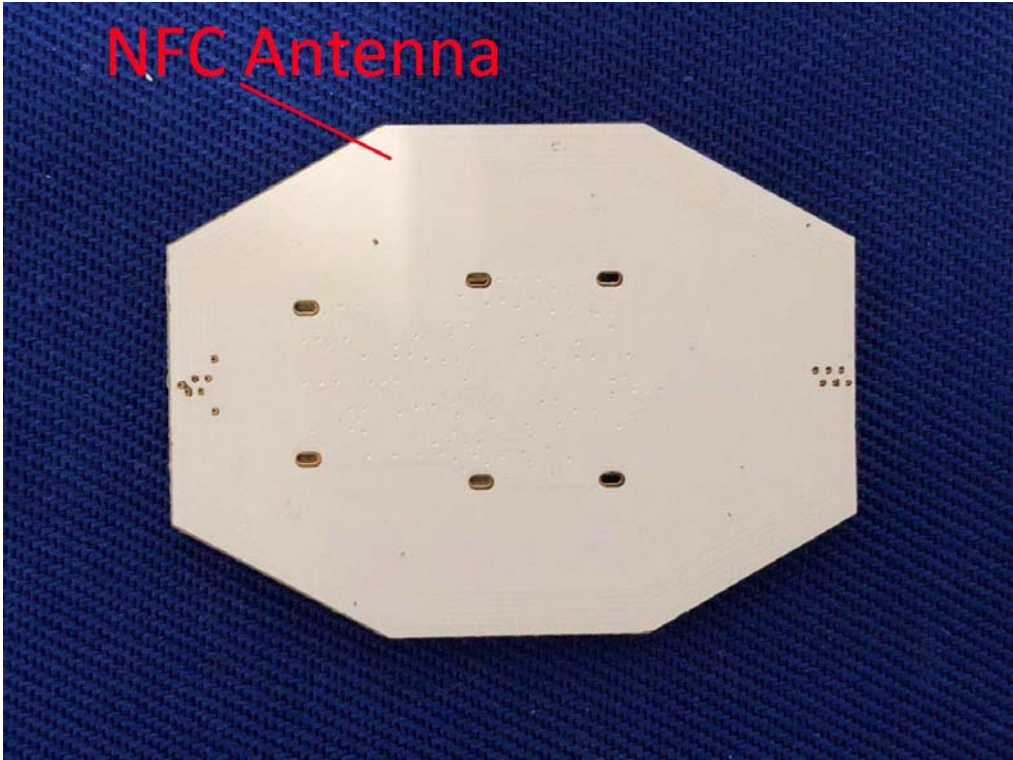
Internal Photos
M/N: VIFA110



Internal Photos
M/N: VIFA110



Internal Photos
M/N: VIFA110



End of Test Report