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# FCC Test Report

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Report No.: AGC06724190502FE02

**FCC ID** : 2APAKBE1221  
**APPLICATION PURPOSE** : Original Equipment  
**PRODUCT DESIGNATION** : Vibio bed shaker  
**BRAND NAME** : Bellman & Symfon  
**MODEL NAME** : BE1221  
**APPLICANT** : Bellman & Symfon AB  
**DATE OF ISSUE** : Jul 12, 2019  
**STANDARD(S)** : FCC Part 15.247  
**REPORT VERSION** : V1.0

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### REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jul. 12, 2019	Valid	Initial Release



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## 1. VERIFICATION OF COMPLIANCE

<b>Applicant</b>	Bellman & Symfon AB
<b>Address</b>	Södra Långebergsgatan 30, 436 32 ASKIM, Sweden
<b>Manufacturer</b>	Bellman & Symfon AB
<b>Address</b>	Södra Långebergsgatan 30, 436 32 ASKIM, Sweden
<b>Factory</b>	Bellman & Symfon AB
<b>Address</b>	Södra Långebergsgatan 30, 436 32 ASKIM, Sweden
<b>Product Designation</b>	Vibio bed shaker
<b>Brand Name</b>	Bellman & Symfon
<b>Test Model</b>	BE1221
<b>Difference description</b>	The EUT would be marketed with motor 1 or motor 2. Both of them had been tested, the motor 2 was the worst case and only the data of the worst case recorded in the report.
<b>Date of test</b>	Jun. 27, 2019 to Jul. 12, 2019
<b>Deviation</b>	None
<b>Condition of Test Sample</b>	Normal
<b>Test Result</b>	Pass
<b>Report Template</b>	AGCRT-US-BLE/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC part 15.247.

Tested By



Sky Dong(Dong Huihui) Jul. 12, 2019

Reviewed By



Max Zhang(Zhang Yi) Jul. 12, 2019

Approved By



Forrest Lei(Lei Yonggang)  
Authorized Officer Jul. 12, 2019



## 2.GENERAL INFORMATION

### 2.1PRODUCT DESCRIPTION

The EUT is designed as a “Vibio bed shaker”. It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

<b>Operation Frequency</b>	2.402 GHz to 2.480GHz
<b>RF Output Power</b>	-0.647dBm(Max)
<b>Bluetooth Version</b>	V 4.2
<b>Modulation</b>	BR <input type="checkbox"/> GFSK, EDR <input type="checkbox"/> π /4-DQPSK, <input type="checkbox"/> 8DPSK BLE <input checked="" type="checkbox"/> GFSK 1Mbps <input type="checkbox"/> GFSK 2Mbps
<b>Number of channels</b>	40 Channel
<b>Antenna Designation</b>	PCB Antenna(Comply with requirements of the FCC part 15.203)
<b>Antenna Gain</b>	1.6dBi
<b>Hardware Version</b>	BE1221_006LAY001
<b>Software Version</b>	BE1221_014FWA1.00
<b>Power Supply</b>	DC 3.7V by battery or DC 5V by adapter

### 2.2. TABLE OF CARRIER FREQUENCIES

Frequency Band	Channel Number	Frequency
2400~2483.5MHZ	0	2402MHZ
	1	2404MHZ
	:	:
	38	2478 MHZ
	39	2480 MHZ



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### 2.3 RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for **FCC ID: 2APAKBE1221** filing to comply with the FCC Part 15.247 requirements.

### 2.4 TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

### 2.5 SPECIAL ACCESSORIES

Refer to section 2.2.

### 2.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.



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### 3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95%.

- Uncertainty of Conducted Emission,  $U_c = \pm 3.2$  dB
- Uncertainty of Radiated Emission below 1GHz,  $U_c = \pm 3.9$  dB
- Uncertainty of Radiated Emission above 1GHz,  $U_c = \pm 4.8$  dB
- Uncertainty of total RF power, conducted,  $U_c = \pm 0.8$  dB
- Uncertainty of RF power density, conducted,  $U_c = \pm 2.6$  dB
- Uncertainty of spurious emissions, conducted,  $U_c = \pm 2.7$  dB
- Uncertainty of Occupied Channel Bandwidth:  $U_c = \pm 2$  %



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#### 4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX
2	Middle channel TX
3	High channel TX

Note:

1. Only the result of the worst case was recorded in the report, if no other cases.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.
4. The test software is the nRFgo Studio\_1.15.1.2691 which can set the EUT into the individual test modes.



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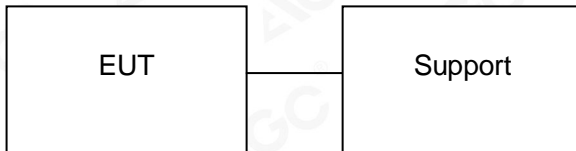
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## 5. SYSTEM TEST CONFIGURATION

### 5.1 CONFIGURATION OF TESTED SYSTEM



### 5.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Vibio bed shaker	BE1221	2APAKBE1221	EUT
3	adapter	I05010EU	DC5V	Support

### 5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(3)	Peak Output Power	Compliant
15.247 (a)(2)	6 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.247 (e)	Maximum Conducted Output Power Density	Compliant
15.209	Radiated Emission	Compliant
15.207	Conducted Emission	Compliant



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## 6. TEST FACILITY

<b>Test Site</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd
<b>Location</b>	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
<b>Designation Number</b>	CN1259
<b>FCC Test Firm Registration Number</b>	975832
<b>A2LA Cert. No.</b>	5054.02
<b>Description</b>	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

### TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun. 12, 2019	Jun. 11, 2020
LISN	R&S	ESH2-Z5	100086	Aug. 28, 2018	Aug. 27, 2019

### TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun. 12, 2019	Jun. 11, 2020
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 20, 2018	Dec. 19, 2019
2.4GHz Fliter	EM Electronics	2400-2500MHz	N/A	Feb. 27, 2019	Feb. 26, 2020
Attenuator	ZHINAN	E-002	N/A	Aug. 28, 2018	Aug. 27, 2019
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 21, 2017	Sep. 20, 2020
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 14, 2018	Jun. 13, 2020
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 26, 2018	May. 25, 2020
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 25, 2018	Oct. 24, 2019
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep. 28, 2017	Sep. 27, 2019



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## 7. PEAK OUTPUT POWER

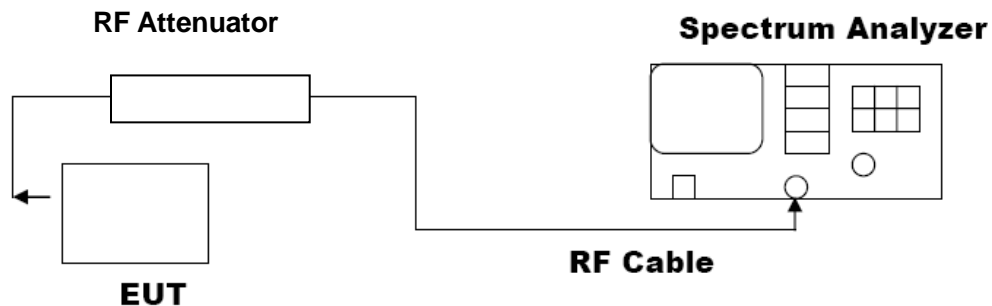
### 7.1. MEASUREMENT PROCEDURE

For peak power test:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2.  $RBW \geq DTS$  bandwidth
3.  $VBW \geq 3 * RBW$ .
4.  $SPAN \geq VBW$ .
5. Sweep: Auto.
6. Detector function: Peak.
7. Trace: Max hold.

Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

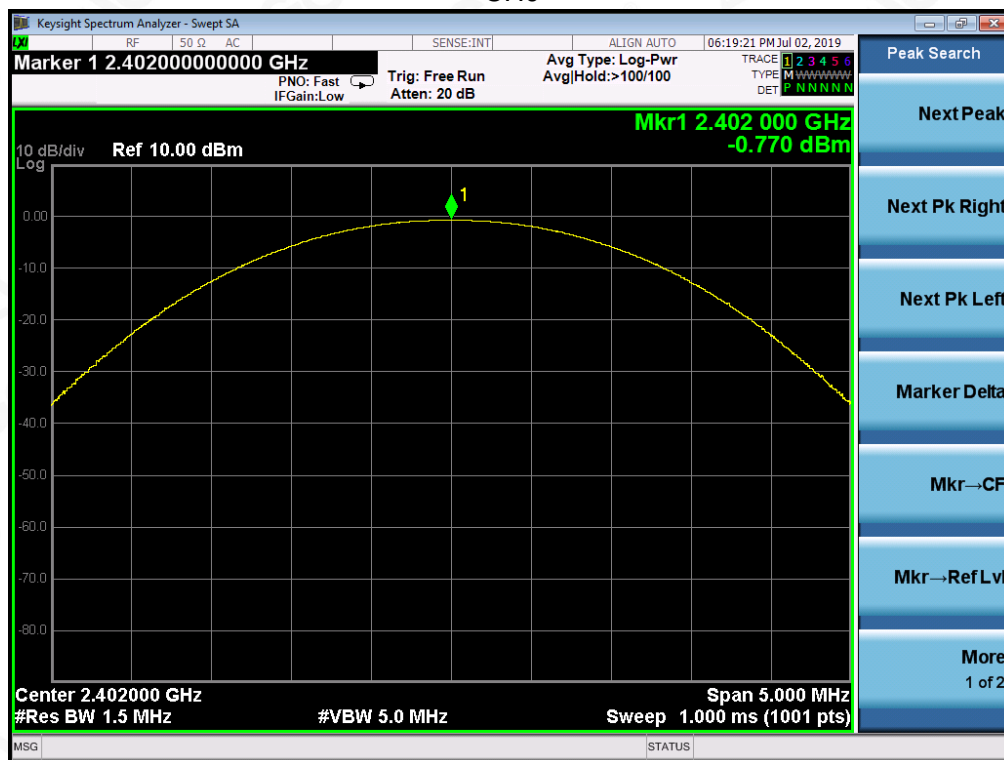
### 7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) PEAK POWER TEST SETUP



### 7.3. LIMITS AND MEASUREMENT RESULT

PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MODULATION			
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	-0.770	30	Pass
2.440	-0.647	30	Pass
2.480	-0.649	30	Pass

CH0



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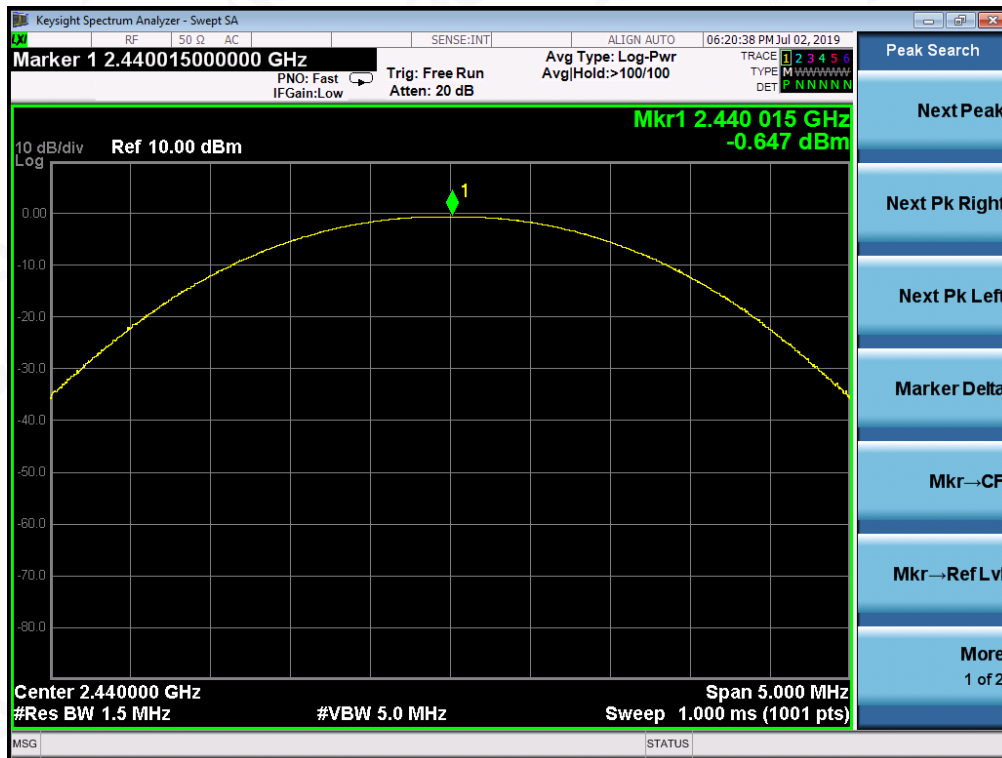
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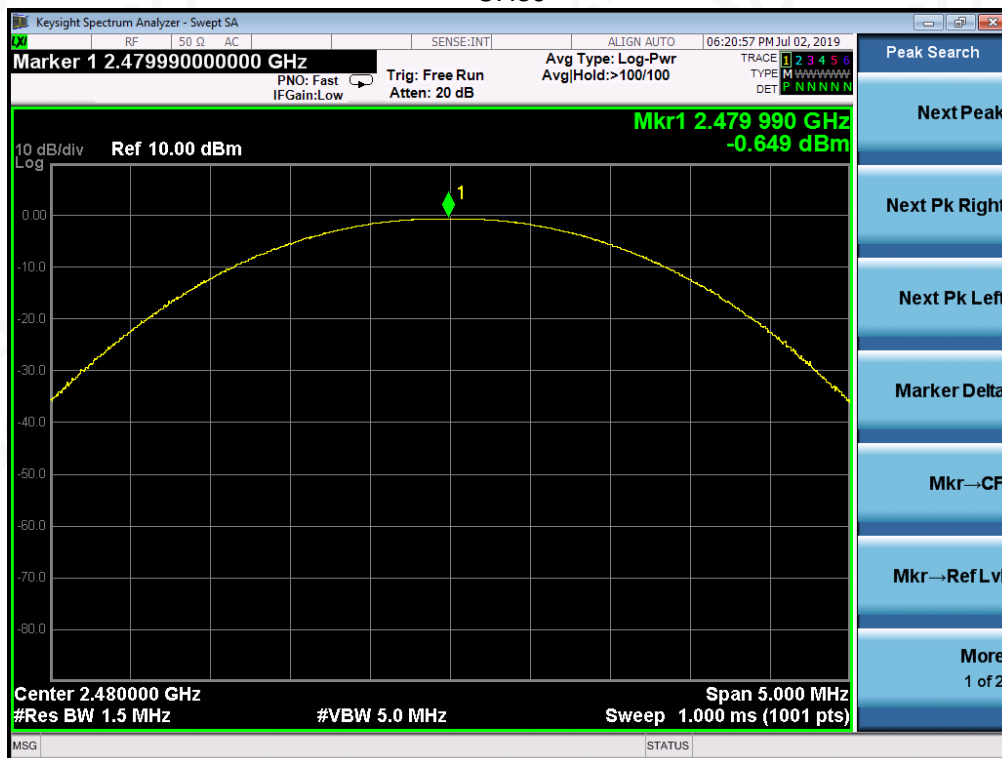
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## 8. 6 DB BANDWIDTH

### 8.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW $\geq$ 3 $\times$ RBW.
4. Set SPA Trace 1 Max hold, then View.

**Note:** The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

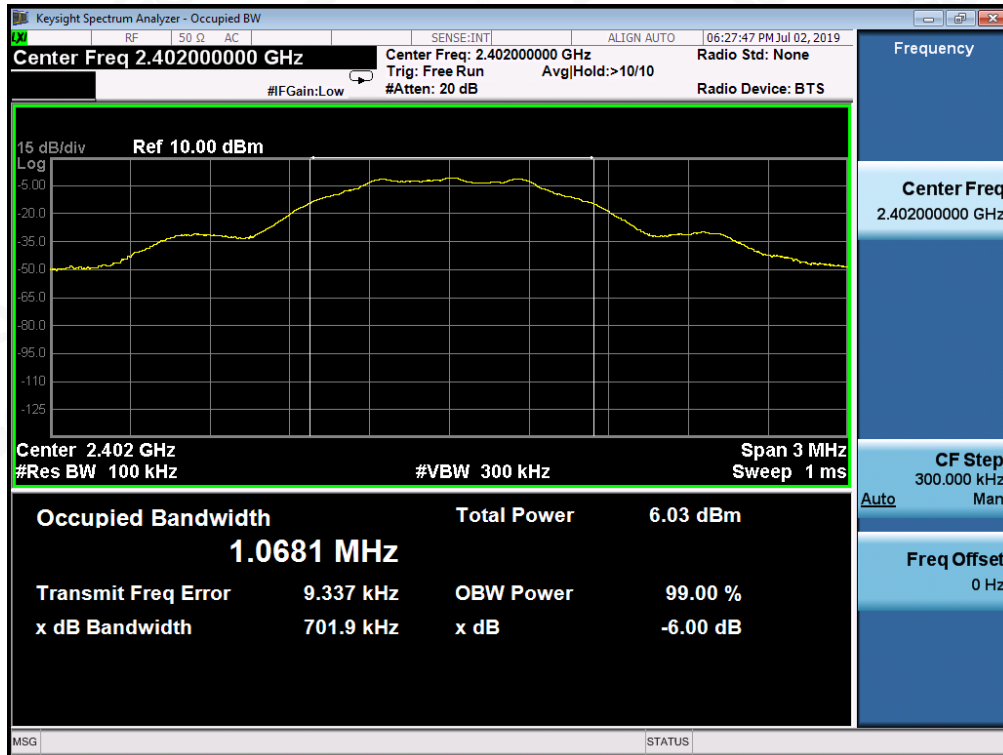
### 8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

### 8.3. LIMITS AND MEASUREMENT RESULTS

LIMITS AND MEASUREMENT RESULT			
Applicable Limits	Applicable Limits		
	Test Data (kHz)		Criteria
>500KHZ	Low Channel	701.9	PASS
	Middle Channel	708.9	PASS
	High Channel	707.6	PASS

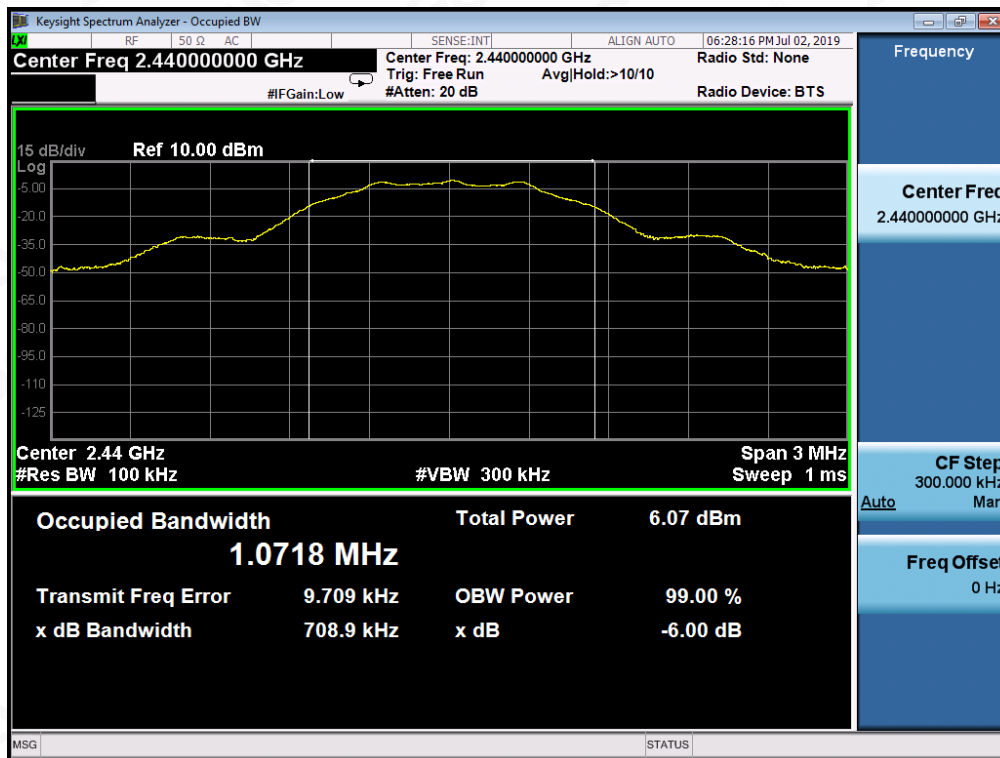
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



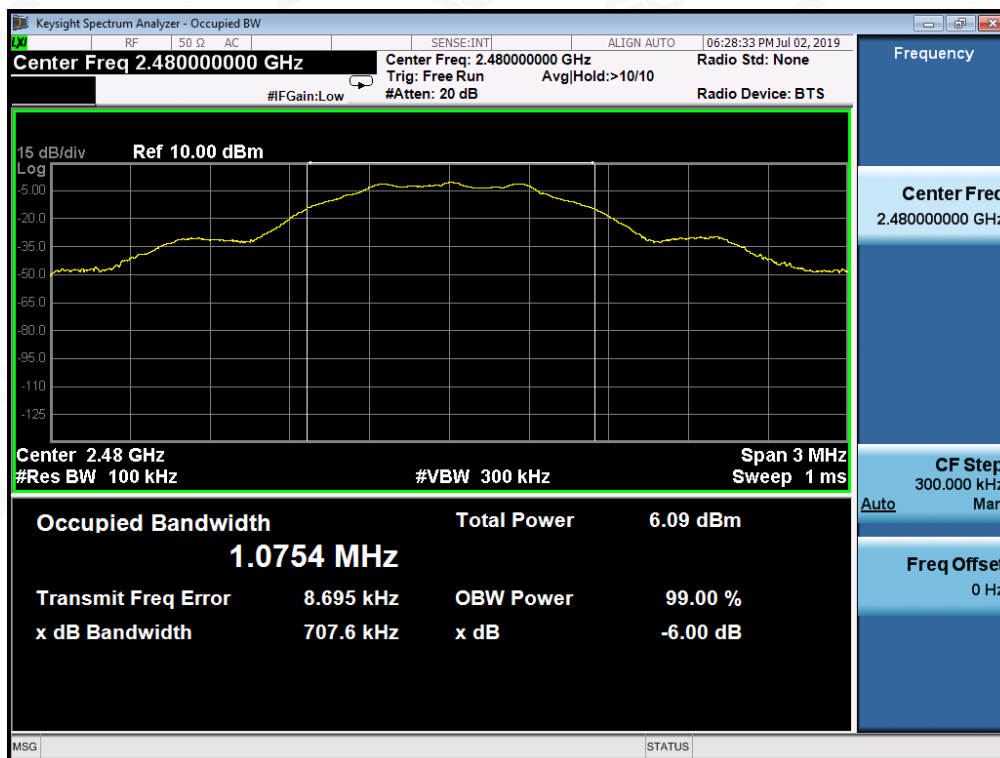
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### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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## 9. CONDUCTED SPURIOUS EMISSION

### 9.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Trace 1 Max hold, then View.

**Note:** The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

### 9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

### 9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

### 9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test Data	Criteria
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power.	At least -20dBc than the reference level	PASS PASS



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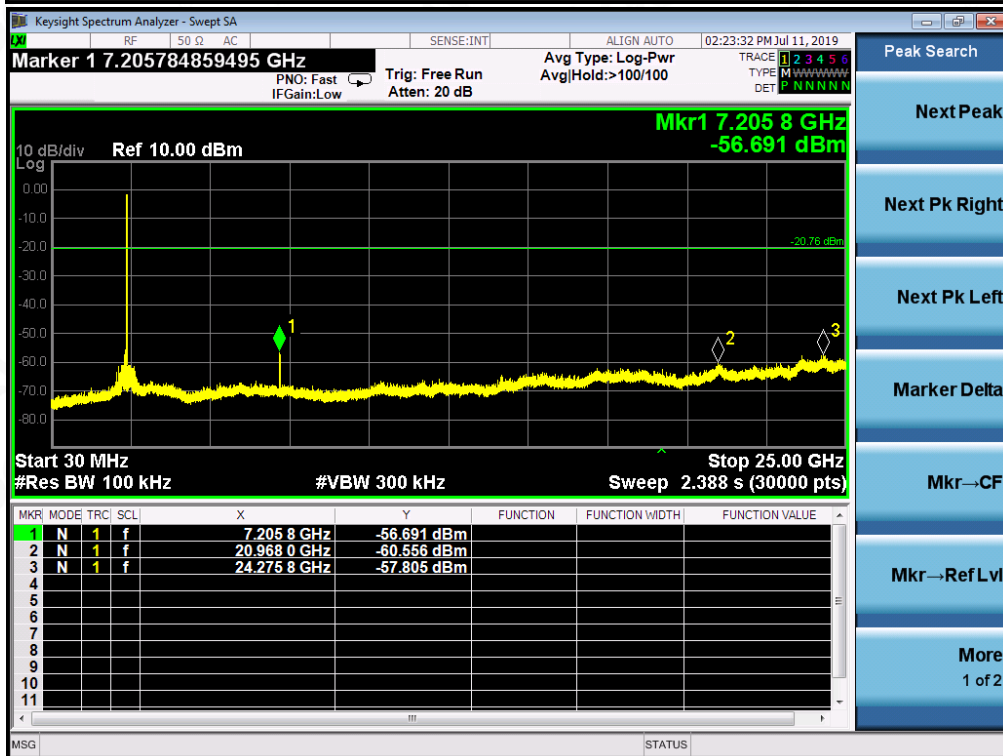
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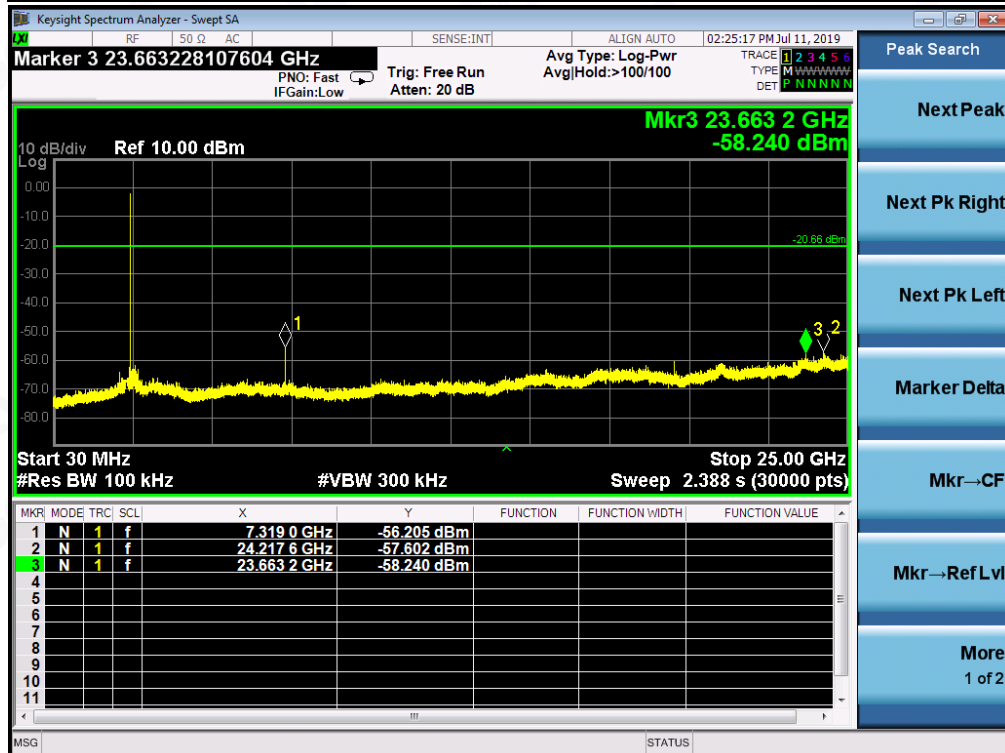
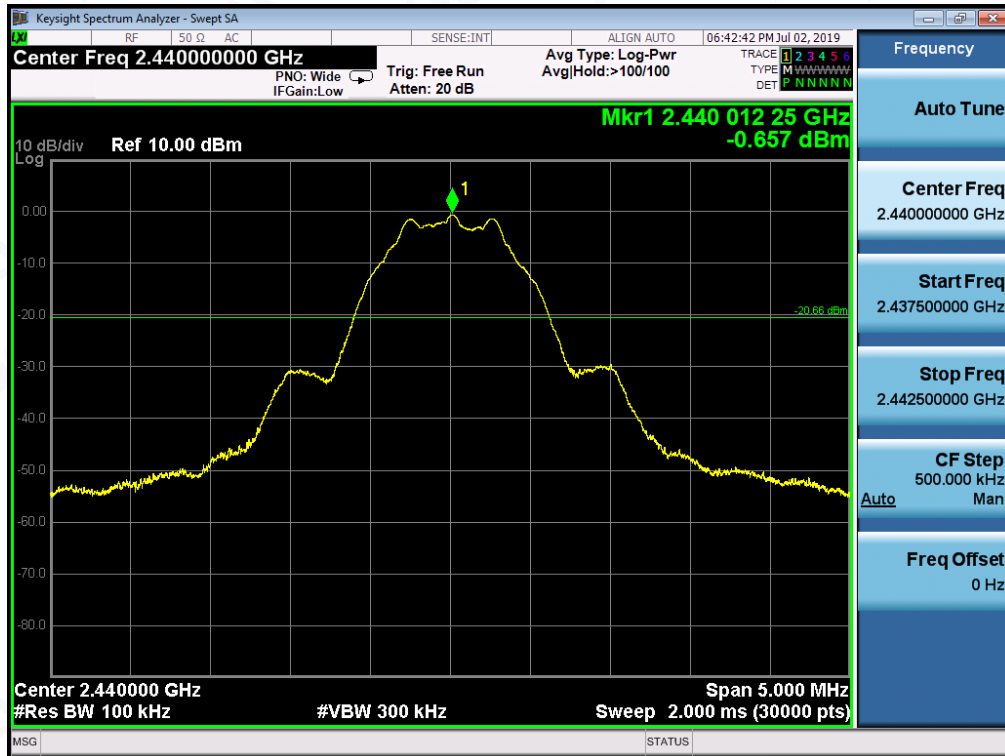
**TEST RESULT FOR ENTIRE FREQUENCY RANGE  
GFSK MODULATION IN LOW CHANNEL**



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### GFSK MODULATION IN MIDDLE CHANNEL



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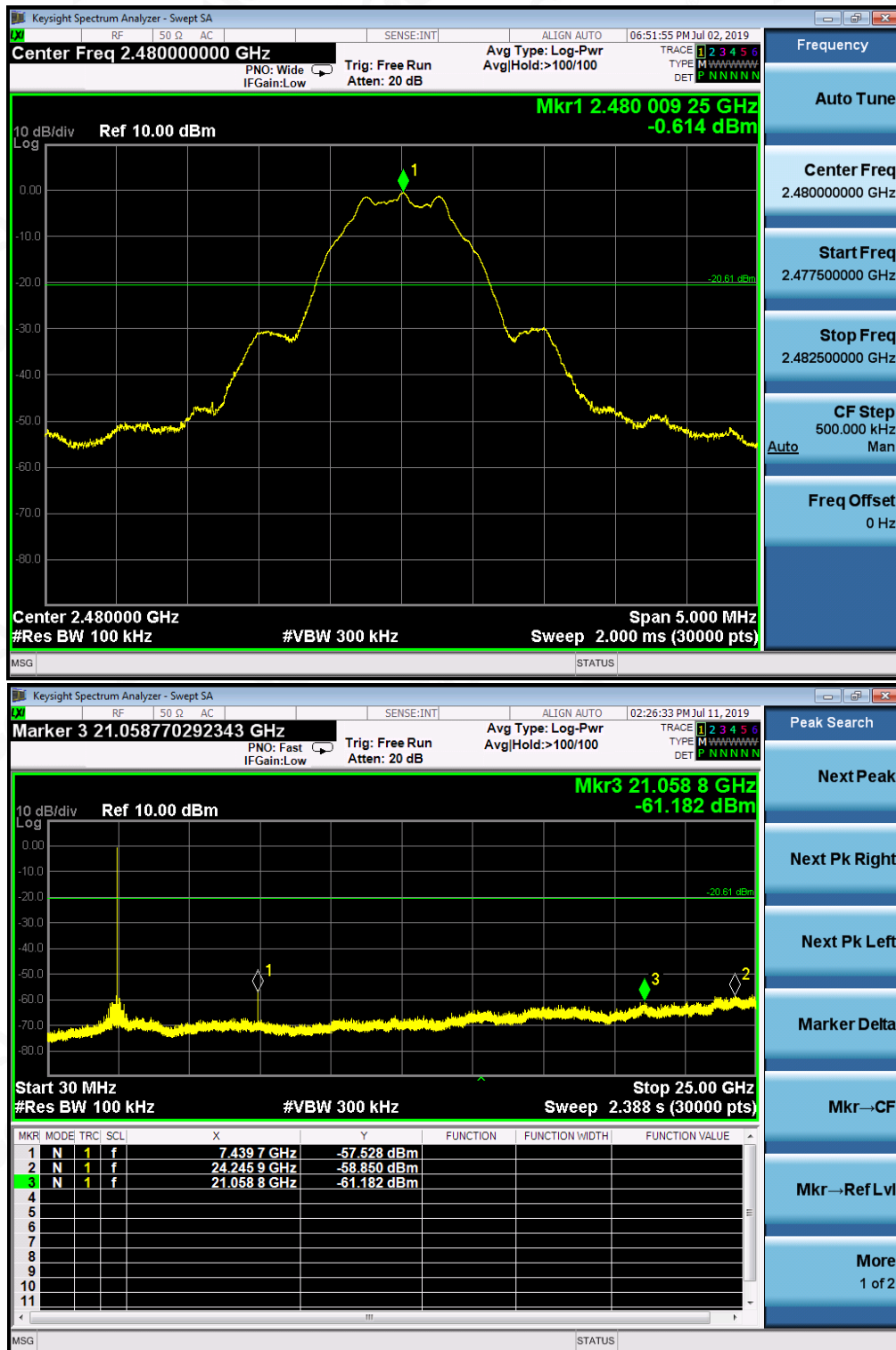
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### GFSK MODULATION IN HIGH CHANNEL



Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit.



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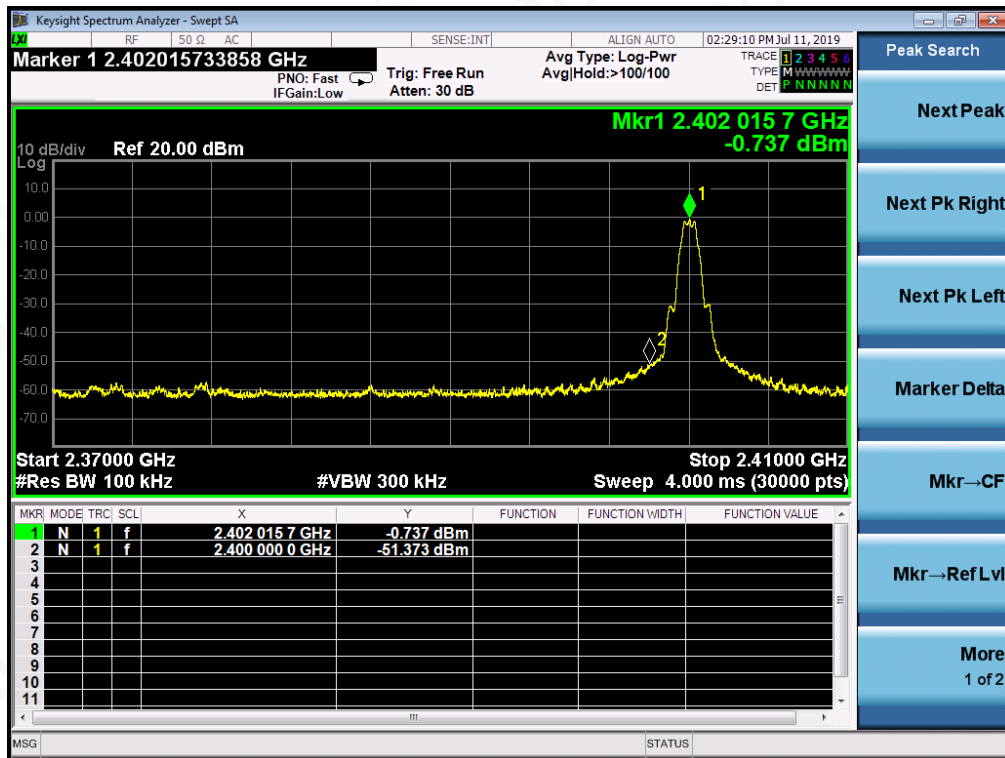
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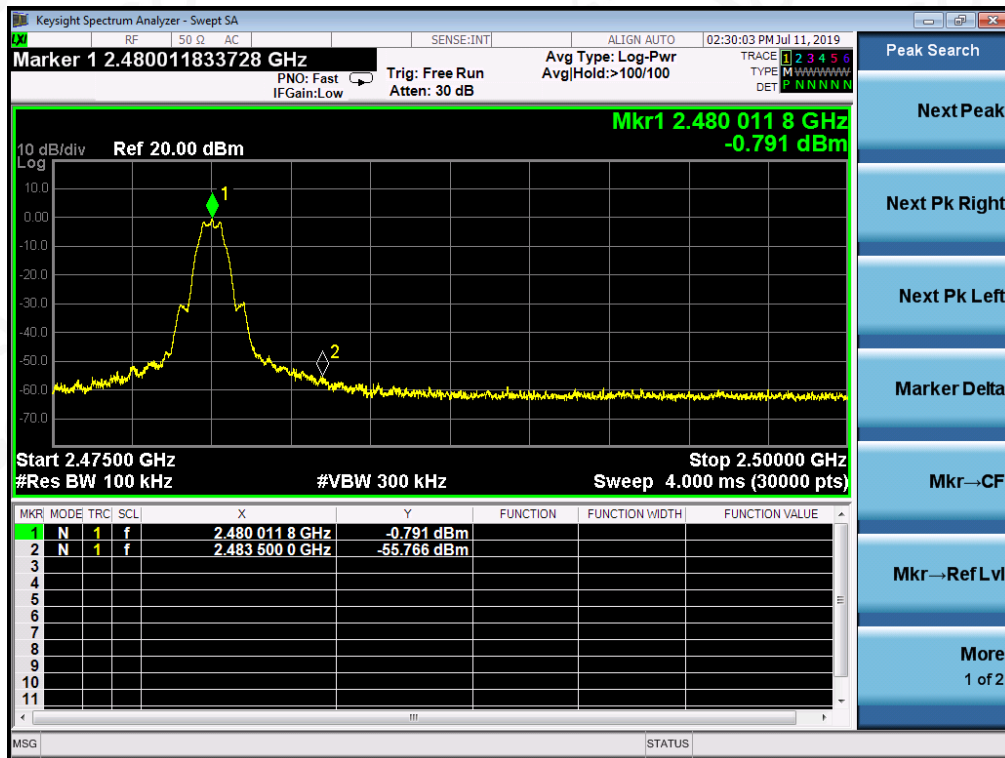
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### TEST RESULT FOR BAND EDGE GFSK MODULATION IN LOW CHANNEL



### GFSK MODULATION IN HIGH CHANNEL



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## 10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

### 10.1 MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 10.2 was used in this testing.

### 10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 7.2.

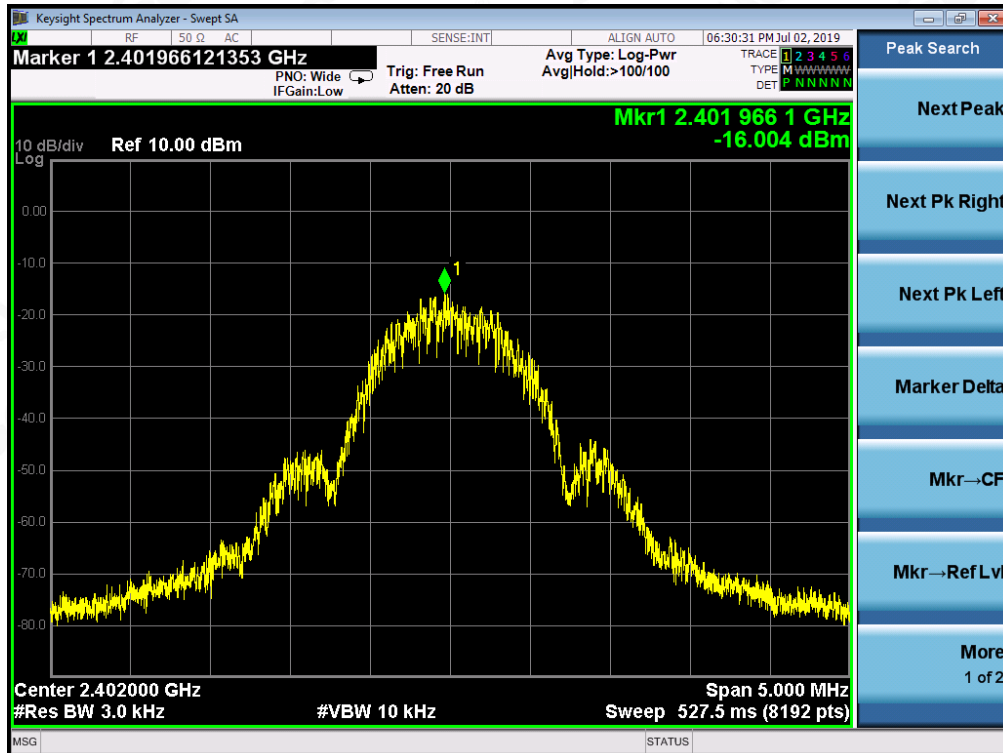
### 10.3 MEASUREMENT EQUIPMENT USED

Refer To Section 6.

### 10.4 LIMITS AND MEASUREMENT RESULT

Channel No.	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	-16.004	8	Pass
Middle Channel	-15.765	8	Pass
High Channel	-15.894	8	Pass

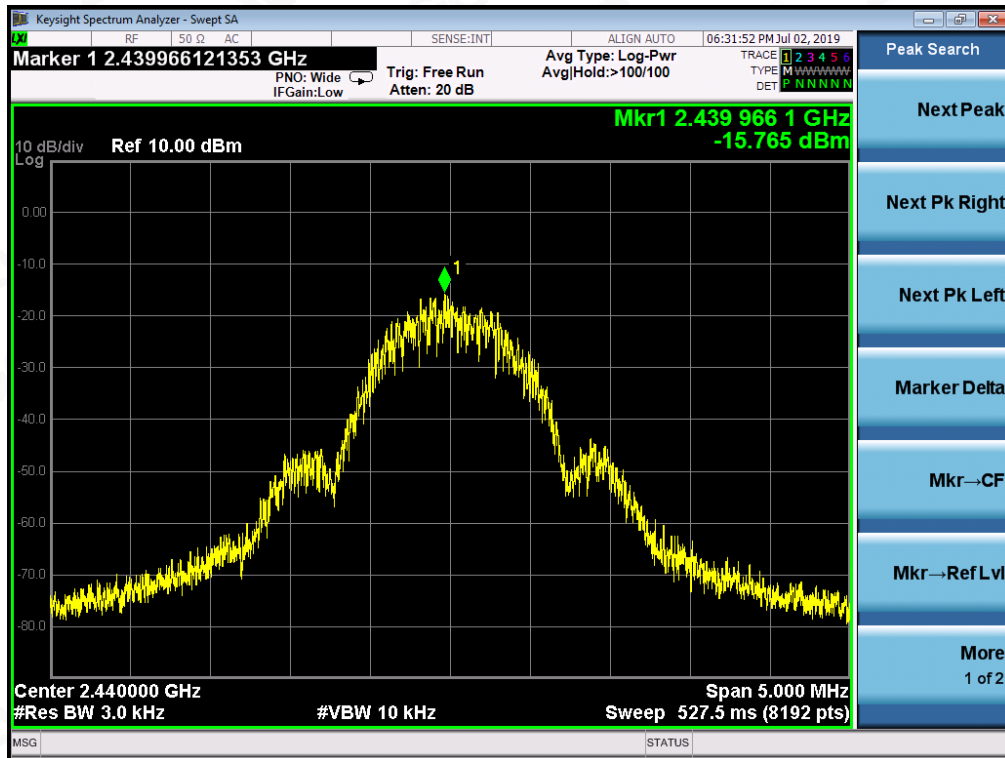
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



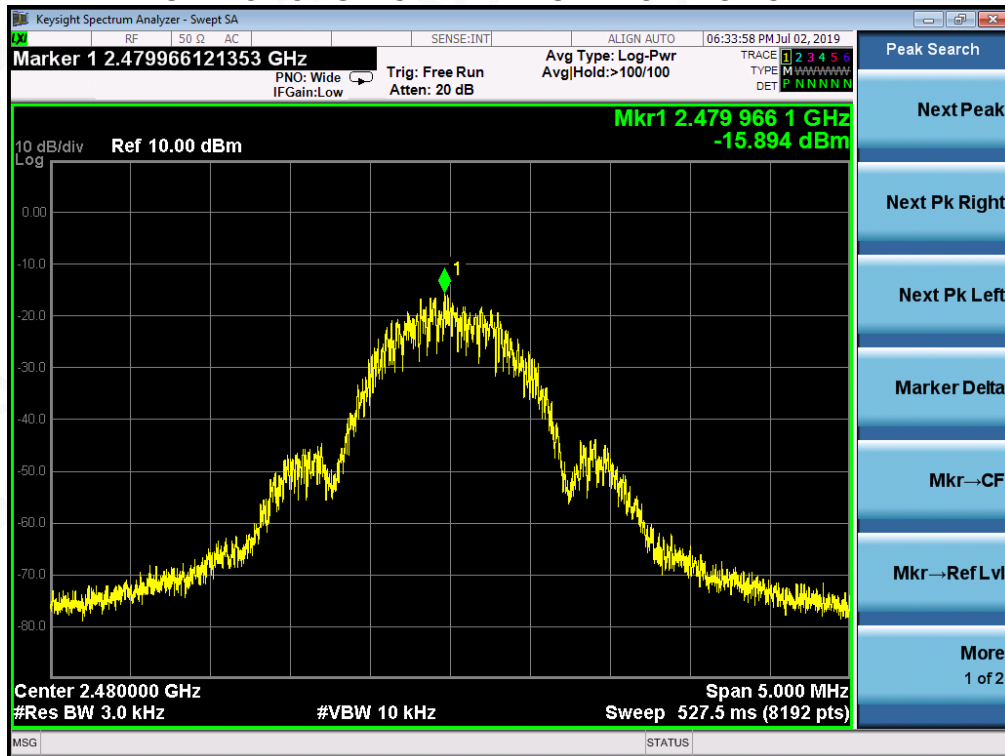
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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



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## 11. RADIATED EMISSION

### 11.1. MEASUREMENT PROCEDURE

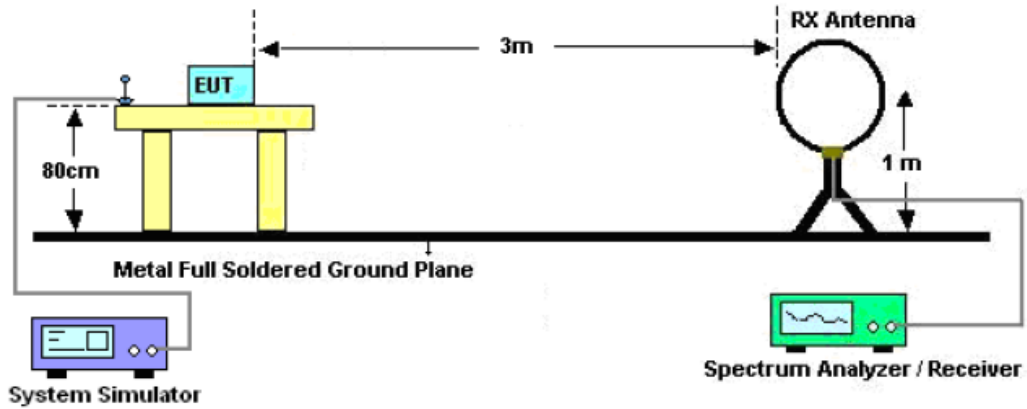
1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.



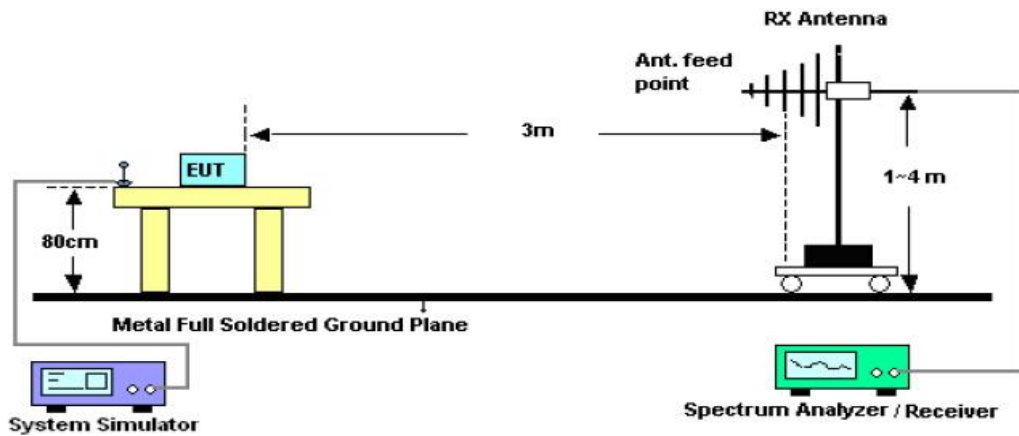


### 11.2. TEST SETUP

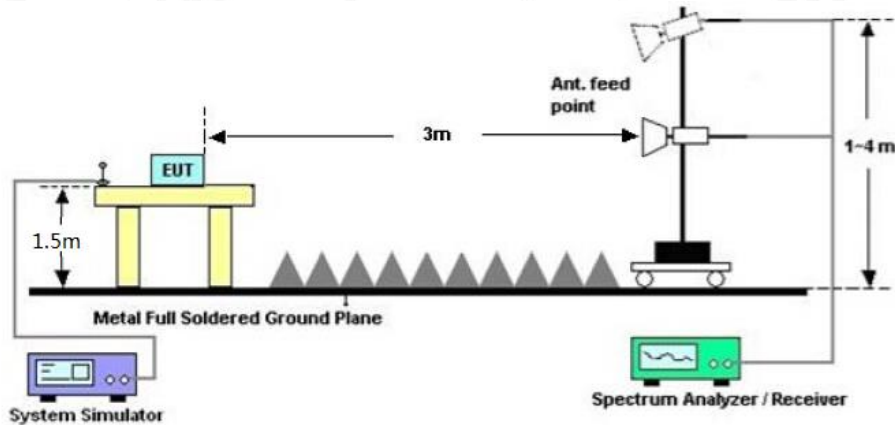
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



### 11.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested For restricted band radiated emission, the test records reported below are the worst result compared to other modes.

### 11.4. TEST RESULT

#### RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.



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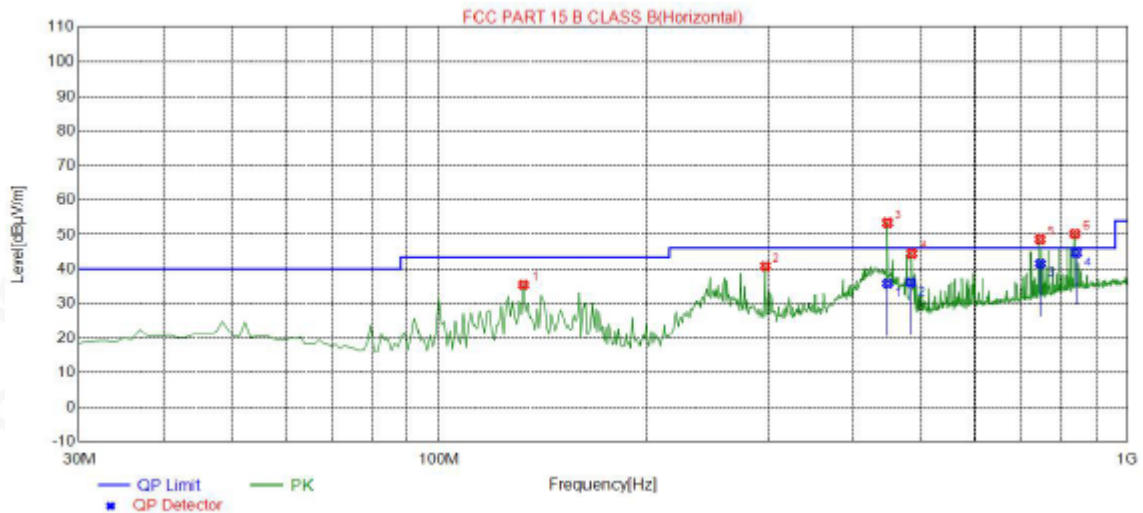
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Service Hotline:400 089 2118

**RADIATED EMISSION BELOW 1GHZ**

<b>EUT</b>	Vibio bed shaker	<b>Model Name</b>	BE1221
<b>Temperature</b>	25° C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 1	<b>Antenna</b>	Horizontal



**Peak data list**

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	132.820	35.52	14.35	43.50	7.98	200	306	Horizontal
2	297.720	40.85	15.94	46.00	5.15	150	338	Horizontal
3	448.070	53.48	20.95	46.00	-7.48	200	203	Horizontal
4	486.870	44.54	21.87	46.00	1.46	200	197	Horizontal
5	745.860	48.67	27.13	46.00	-2.67	200	279	Horizontal
6	839.950	50.28	29.12	46.00	-4.28	100	47	Horizontal

**QP data List**

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	448.231	20.96	35.87	46.00	10.13	191.7	206.6	Horizon
2	485.039	21.84	36.14	46.00	9.86	196	209.3	Horizon
3	746.650	27.15	41.60	46.00	4.40	201.7	334.8	Horizon
4	844.082	29.19	44.78	46.00	1.22	111.5	356.4	Horizon

**RESULT: PASS**



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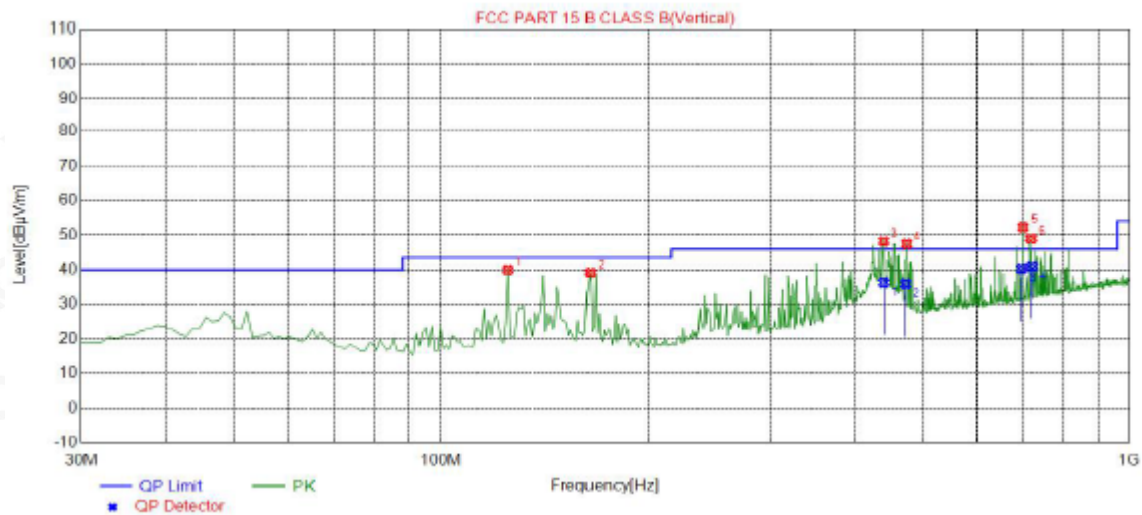
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EUT	Vibio bed shaker	Model Name	BE1221
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical



Peak data list

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	125.060	39.91	13.81	43.50	3.59	100	317	Vertical
2	164.830	39.08	14.45	43.50	4.42	150	66	Vertical
3	439.340	48.23	20.73	46.00	-2.23	150	72	Vertical
4	475.230	47.50	21.55	46.00	-1.50	150	224	Vertical
5	701.240	52.24	25.98	46.00	-6.24	150	224	Vertical
6	719.670	48.98	26.45	46.00	-2.98	150	203	Vertical

QP data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	439.542	20.74	36.27	46.00	9.73	168.2	332.1	Vertical
2	473.557	21.51	35.91	46.00	10.09	171	130.1	Vertical
3	698.028	25.94	40.29	46.00	5.71	108.7	2.7	Vertical
4	721.987	26.50	40.94	46.00	5.06	171.2	207.9	Vertical

**RESULT: PASS**

**Note:**

1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
2. All test modes had been tested. The mode 1 is the worst case and recorded in the report.



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**RADIATED EMISSION ABOVE 1GHZ**

<b>EUT</b>	Vibio bed shaker	<b>Model Name</b>	BE1221
<b>Temperature</b>	25° C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 1	<b>Antenna</b>	Horizontal

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
4804.000	38.06	0.08	38.14	74	-35.86	peak
4804.000	34.37	0.08	34.45	54	-19.55	AVG
7206.000	41.54	2.21	43.75	74	-30.25	peak
7206.000	36.93	2.21	39.14	54	-14.86	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

<b>EUT</b>	Vibio bed shaker	<b>Model Name</b>	BE1221
<b>Temperature</b>	25° C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 1	<b>Antenna</b>	Vertical

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
4804.000	36.53	0.08	36.61	74	-37.39	peak
4804.000	32.79	0.08	32.87	54	-21.13	AVG
7206.000	38.93	2.21	41.14	74	-32.86	peak
7206.000	34.91	2.21	37.12	54	-16.88	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



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<b>EUT</b>	Vibio bed shaker	<b>Model Name</b>	BE1221
<b>Temperature</b>	25° C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 2	<b>Antenna</b>	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4880.000	37.01	0.14	37.15	74	-36.85	peak
4880.000	33.02	0.14	33.16	54	-20.84	AVG
7320.000	40.46	2.36	42.82	74	-31.18	peak
7320.000	36.81	2.36	39.17	54	-14.83	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

<b>EUT</b>	Vibio bed shaker	<b>Model Name</b>	BE1221
<b>Temperature</b>	25° C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 2	<b>Antenna</b>	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4880.000	35.98	0.14	36.12	74	-37.88	peak
4880.000	31.33	0.14	31.47	54	-22.53	AVG
7320.000	39.46	2.36	41.82	74	-32.18	peak
7320.000	34.92	2.36	37.28	54	-16.72	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



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<b>EUT</b>	Vibio bed shaker	<b>Model Name</b>	BE1221
<b>Temperature</b>	25° C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 3	<b>Antenna</b>	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.000	36.08	0.22	36.3	74	-37.7	peak
4960.000	31.61	0.22	31.83	54	-22.17	AVG
7440.000	40.17	2.64	42.81	74	-31.19	peak
7440.000	35.92	2.64	38.56	54	-15.44	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

<b>EUT</b>	Vibio bed shaker	<b>Model Name</b>	BE1221
<b>Temperature</b>	25° C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 3	<b>Antenna</b>	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.000	34.82	0.22	35.04	74	-38.96	peak
4960.000	29.95	0.22	30.17	54	-23.83	AVG
7440.000	38.25	2.64	40.89	74	-33.11	peak
7440.000	33.59	2.64	36.23	54	-17.77	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

**RESULT: PASS**

**Note:**

Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

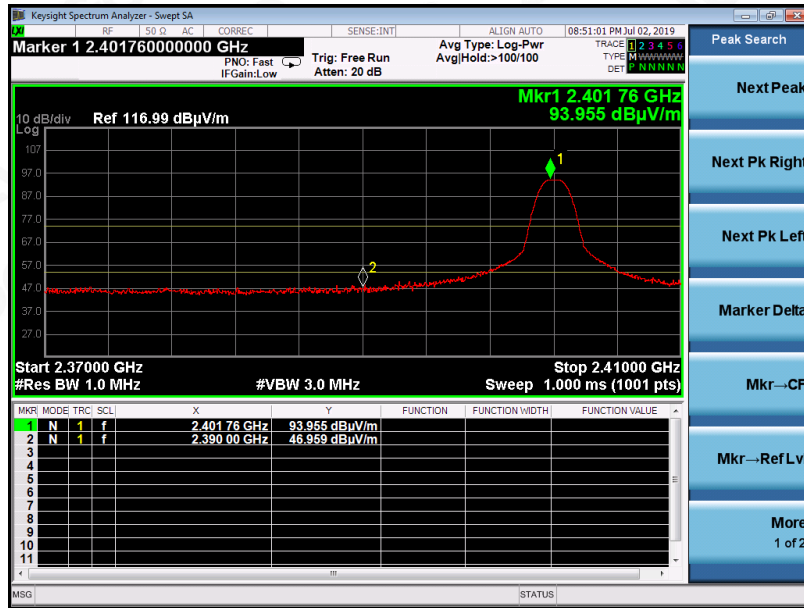
The “Factor” value can be calculated automatically by software of measurement system.



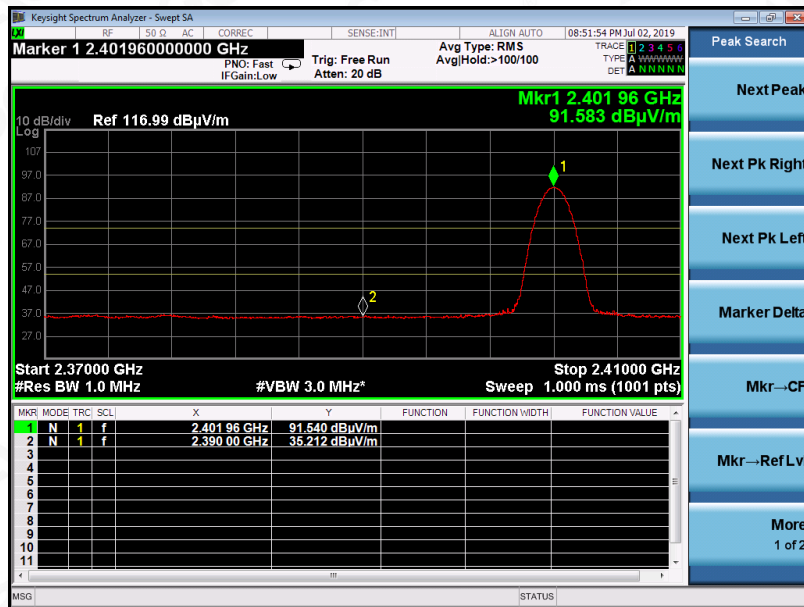
**TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS**

EUT	Vibio bed shaker	Model Name	BE1221
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

PK



AV



**RESULT: PASS**



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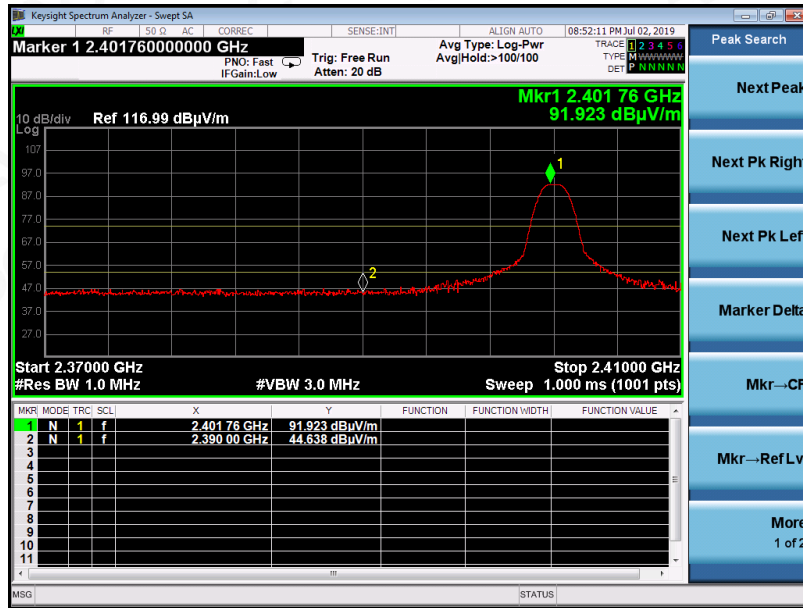
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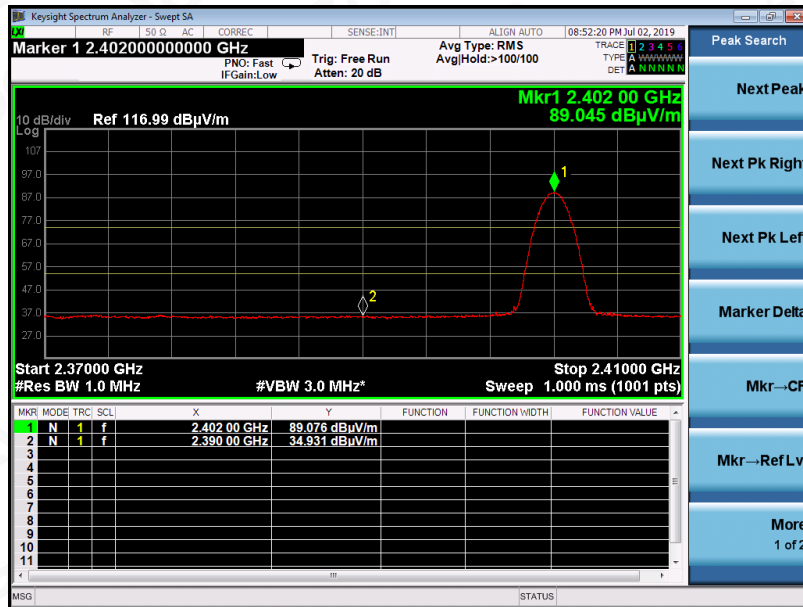


EUT	Vibio bed shaker	Model Name	BE1221
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

PK



AV



RESULT: PASS



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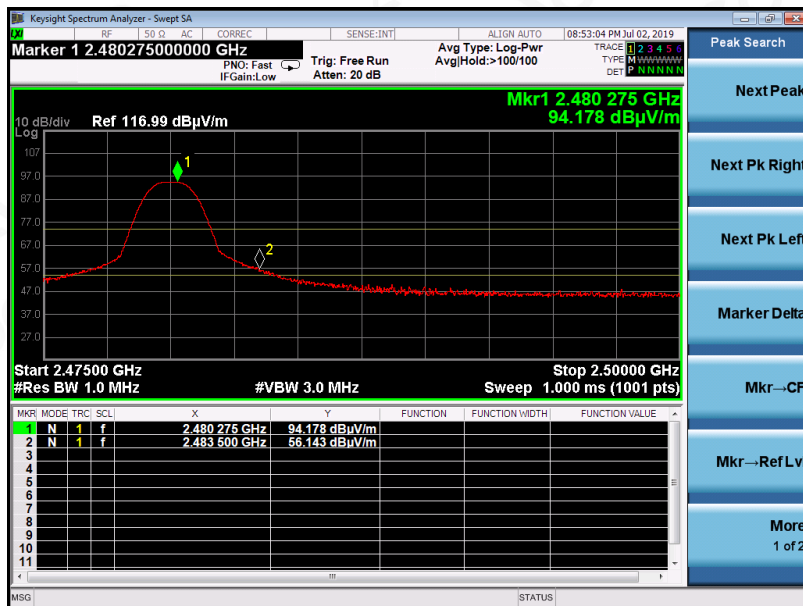
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E-mail: agc@agc-cert.com

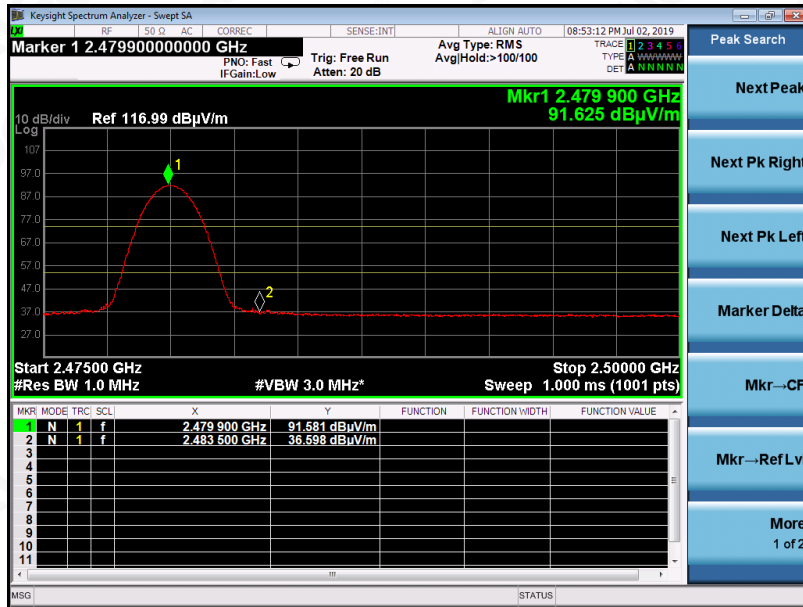
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EUT	Vibio bed shaker	Model Name	BE1221
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

PK



AV



RESULT: PASS



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EUT	Vibio bed shaker	Model Name	BE1221
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

PK



AV



**RESULT: PASS**

**Note:** The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μV) to represent the Amplitude. Use the F dB(μV/m) to represent the Field Strength. So A=F.



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## 12. FCC LINE CONDUCTED EMISSION TEST

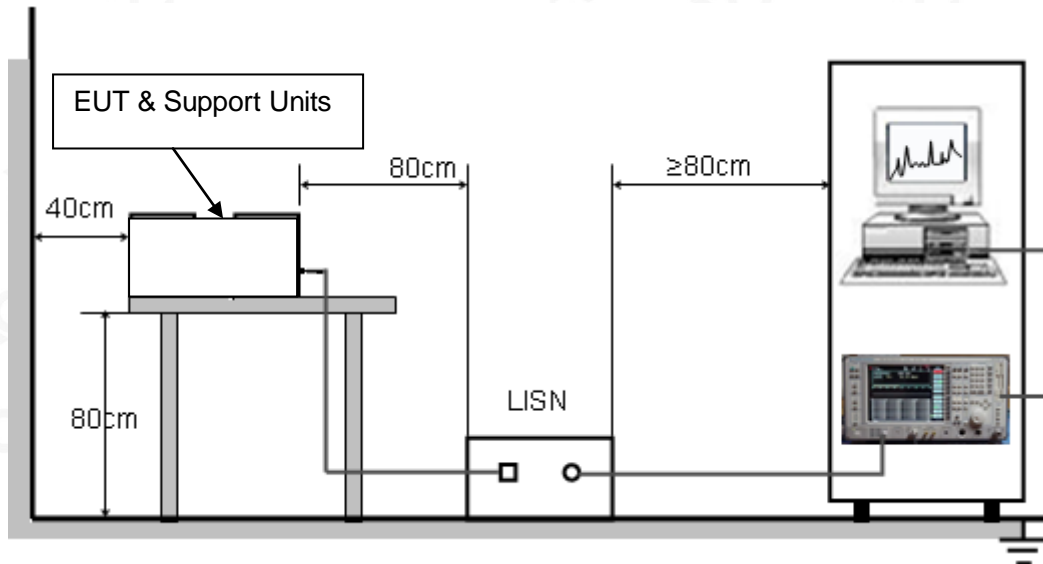
### 12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.( dBuV)	Average( dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

### 12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



### 12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipments received AC120V/60Hz power from a LISN, if any.
5. The EUT received 5V power from adapter which received AC120V/60Hz power from a LISN..
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

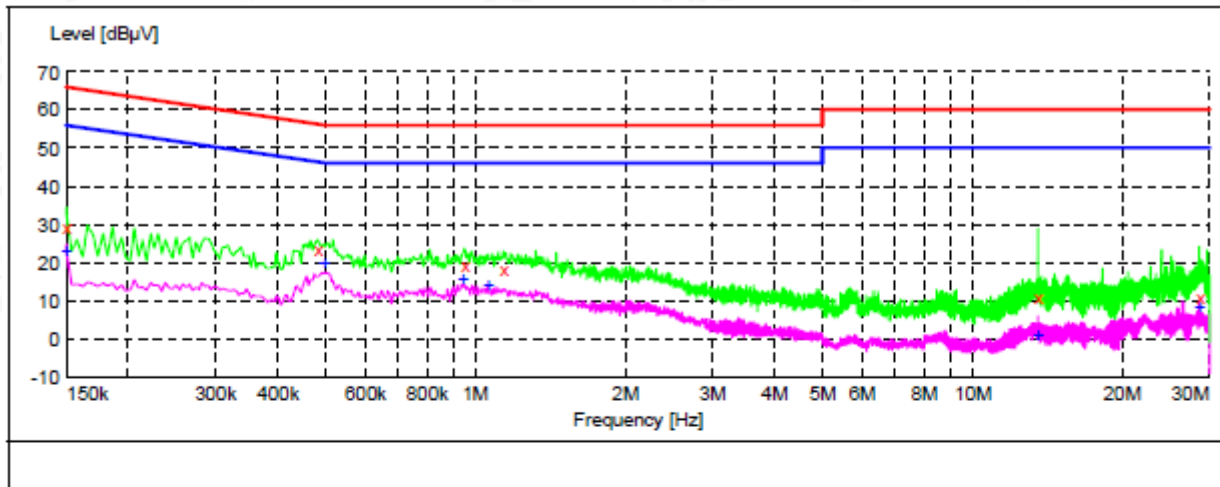
### 12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.



### 12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L



#### MEASUREMENT RESULT: "TEST\_fin"

Frequency MHZ	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	29.40	10.8	66	36.6	QP	L1	FLO
0.482000	23.60	11.1	56	32.7	QP	L1	FLO
0.950000	19.50	11.3	56	36.5	QP	L1	FLO
1.138000	18.10	11.5	56	37.9	QP	L1	FLO
13.558000	10.80	12.1	60	49.2	QP	L1	FLO
28.574000	11.20	12.8	60	48.8	QP	L1	FLO

#### MEASUREMENT RESULT: "TEST\_fin2"

Frequency MHZ	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	23.00	10.8	56	33.0	AV	L1	FLO
0.498000	20.10	11.2	46	25.9	AV	L1	FLO
0.942000	15.50	11.3	46	30.5	AV	L1	FLO
1.062000	14.30	11.4	46	31.7	AV	L1	FLO
13.558000	1.20	12.1	50	48.8	AV	L1	FLO
28.634000	8.60	12.8	50	41.4	AV	L1	FLO



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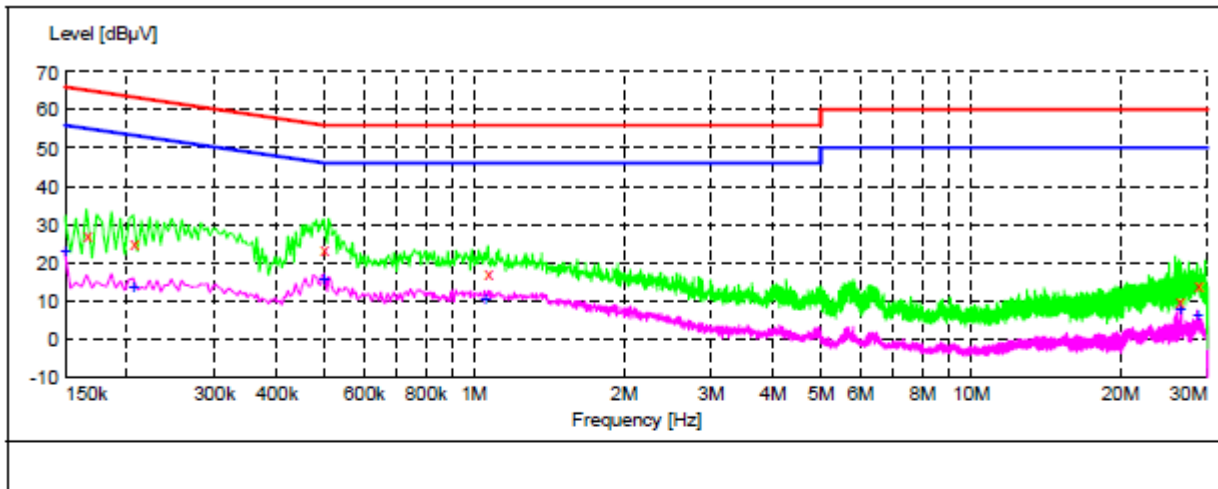
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Line Conducted Emission Test Line 2-N



**MEASUREMENT RESULT: "TEST\_fin"**

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.166000	27.40	10.8	65	37.8	QP	N	FLO
0.206000	25.20	10.9	63	38.2	QP	N	FLO
0.498000	23.40	11.2	56	32.6	QP	N	FLO
1.066000	17.50	11.4	56	38.5	QP	N	FLO
26.354000	10.00	12.7	60	50.0	QP	N	FLO
28.634000	14.10	12.8	60	45.9	QP	N	FLO

**MEASUREMENT RESULT: "TEST\_fin2"**

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	22.90	10.8	56	33.1	AV	N	FLO
0.206000	13.40	10.9	53	40.0	AV	N	FLO
0.498000	15.50	11.2	46	30.5	AV	N	FLO
1.050000	10.70	11.4	46	35.3	AV	N	FLO
26.486000	7.80	12.7	50	42.2	AV	N	FLO
28.634000	6.20	12.8	50	43.8	AV	N	FLO

**RESULT: PASS**

Note: All the test modes had been tested, the mode 1 was the worst case. Only the data of the worst case would be record in this test report.



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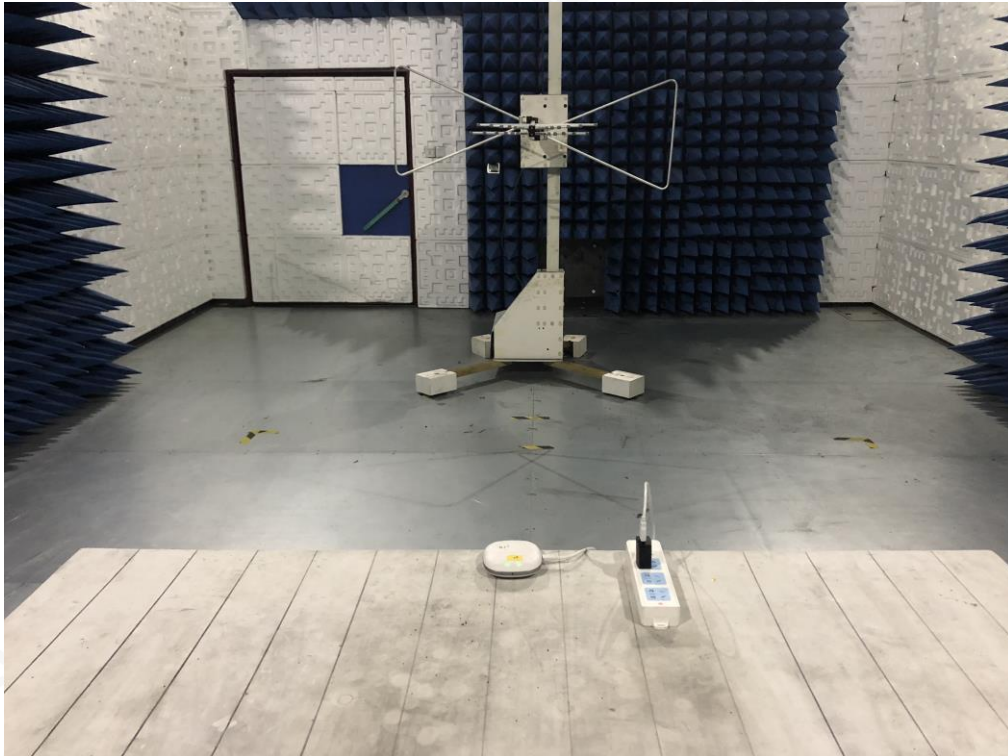
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

## APPENDIX A: PHOTOGRAPHS OF TEST SETUP

### RADIATED EMISSION TEST SETUP BELOW 1GHZ



### RADIATED EMISSION TEST SETUP ABOVE 1GHZ





### CONDUCTED EMISSION TEST SETUP



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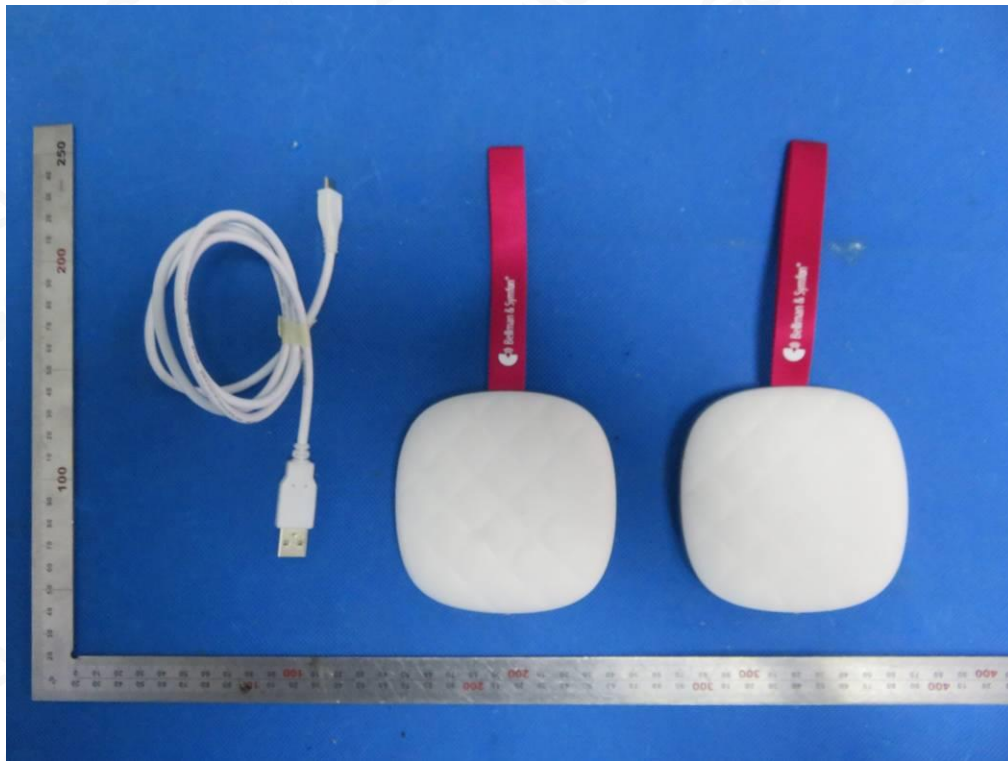
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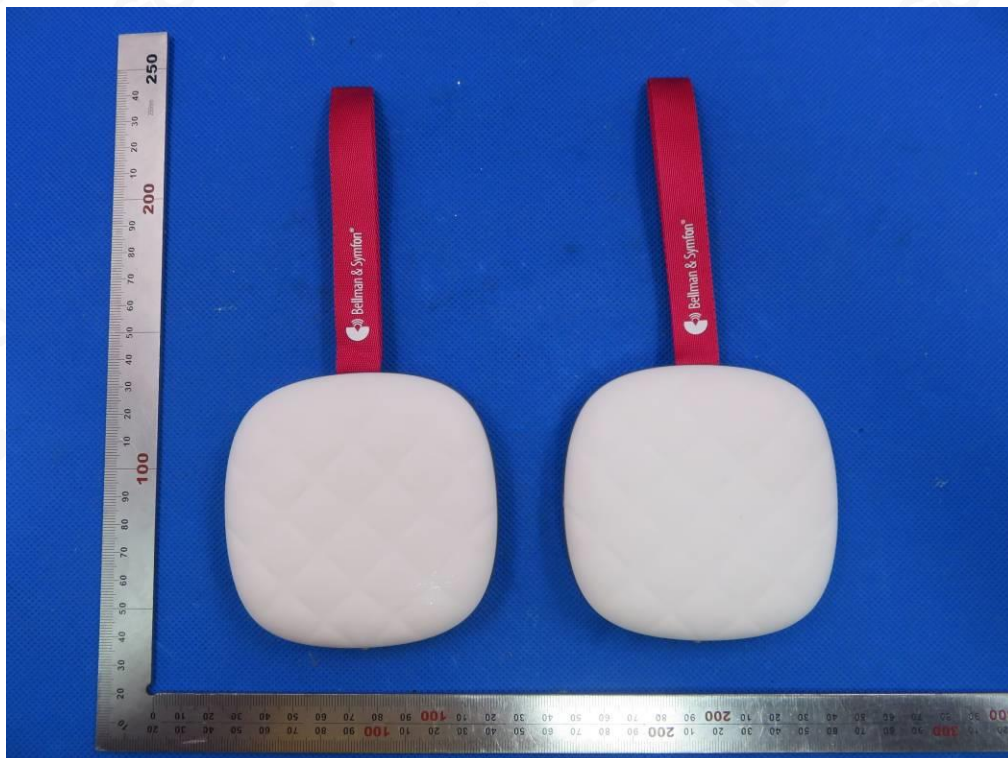
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**APPENDIX B: PHOTOGRAPHS OF EUT**  
ALL VIEW OF EUT



TOP VIEW OF EUT



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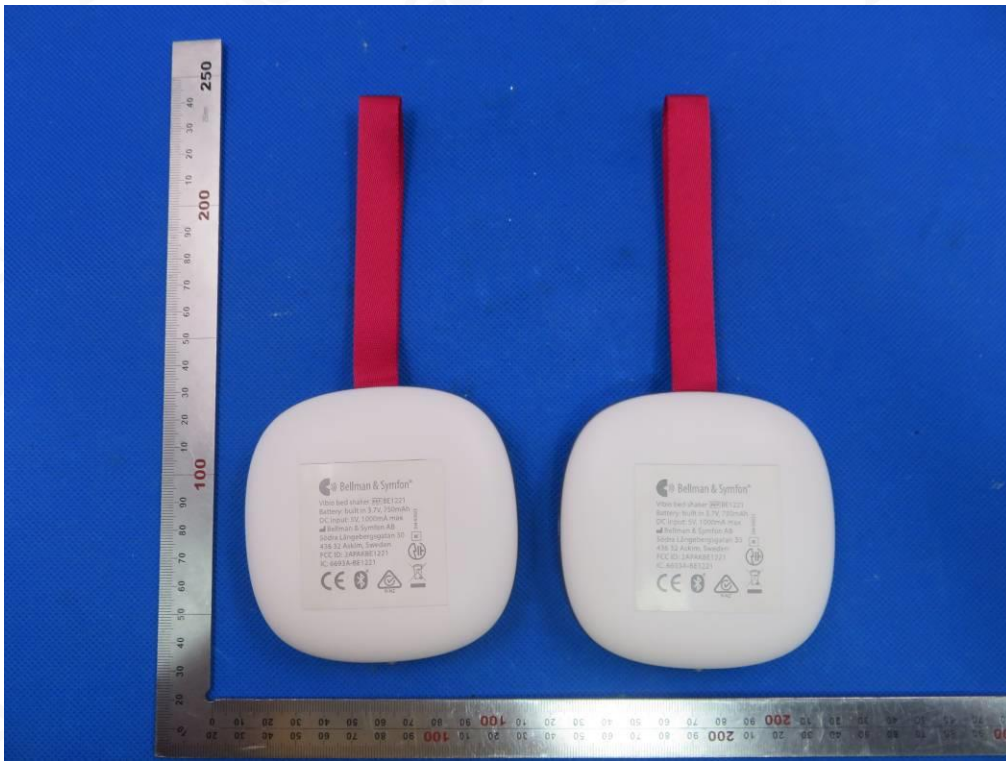
Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,  
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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



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BACK VIEW OF EUT



LEFT VIEW OF EUT



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**RIGHT VIEW OF EUT**



**Motor 1**  
**VIEW OF EUT(PORT)**



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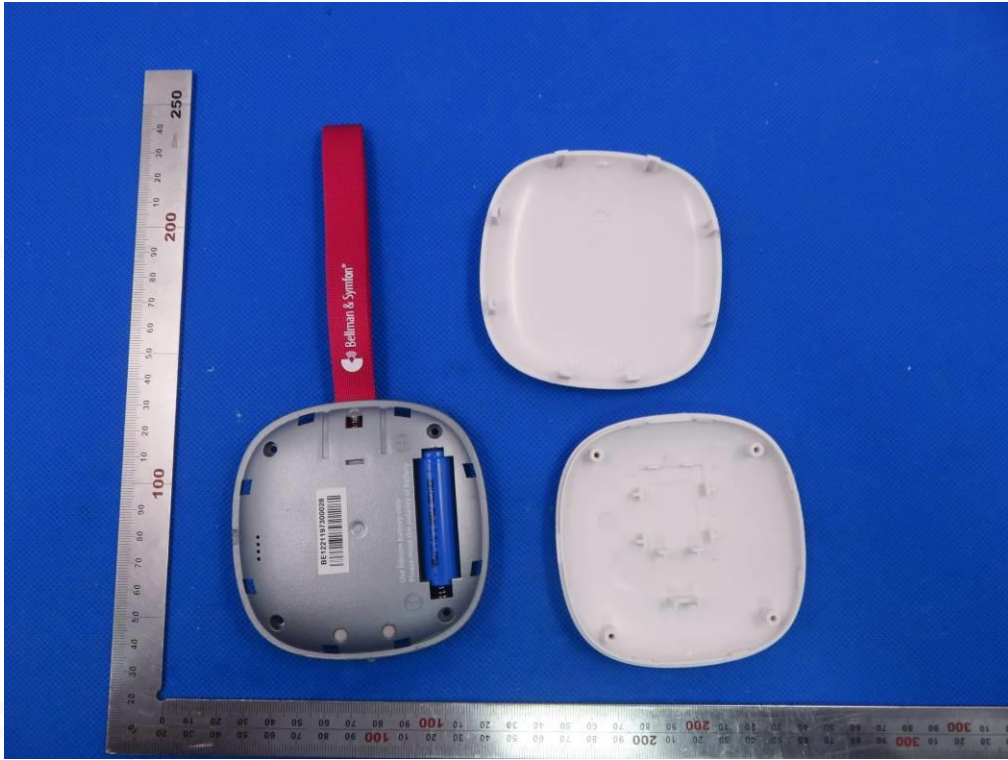
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Tel: +86-755 2523 4088

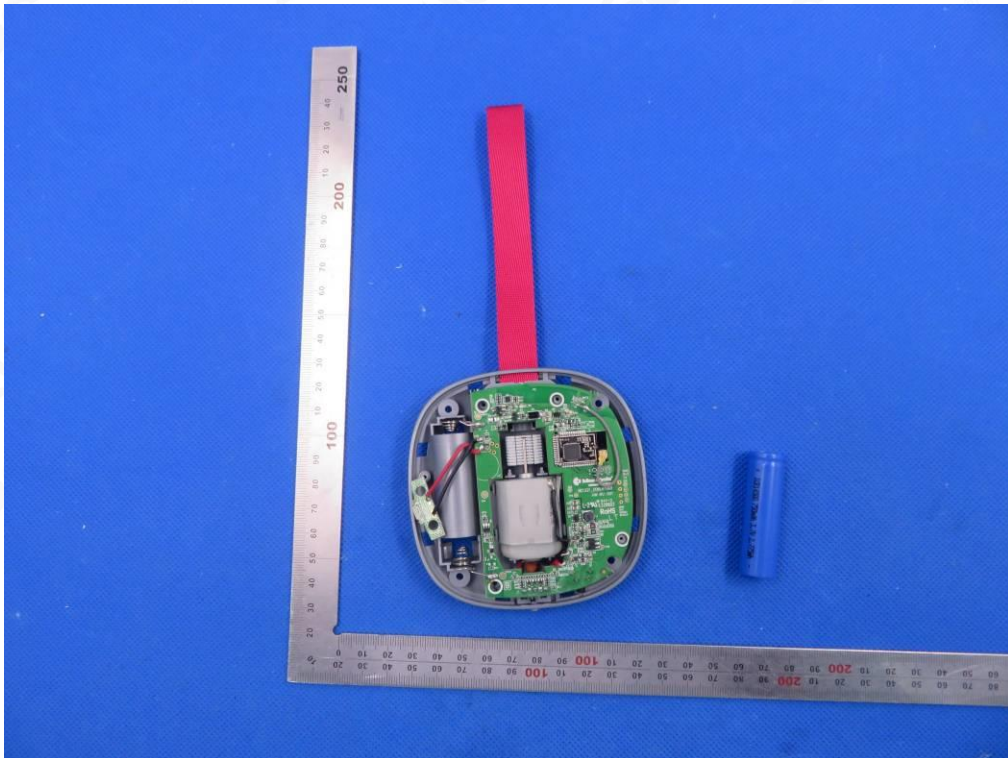
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OPEN VIEW OF EUT-1



OPEN VIEW OF EUT-2



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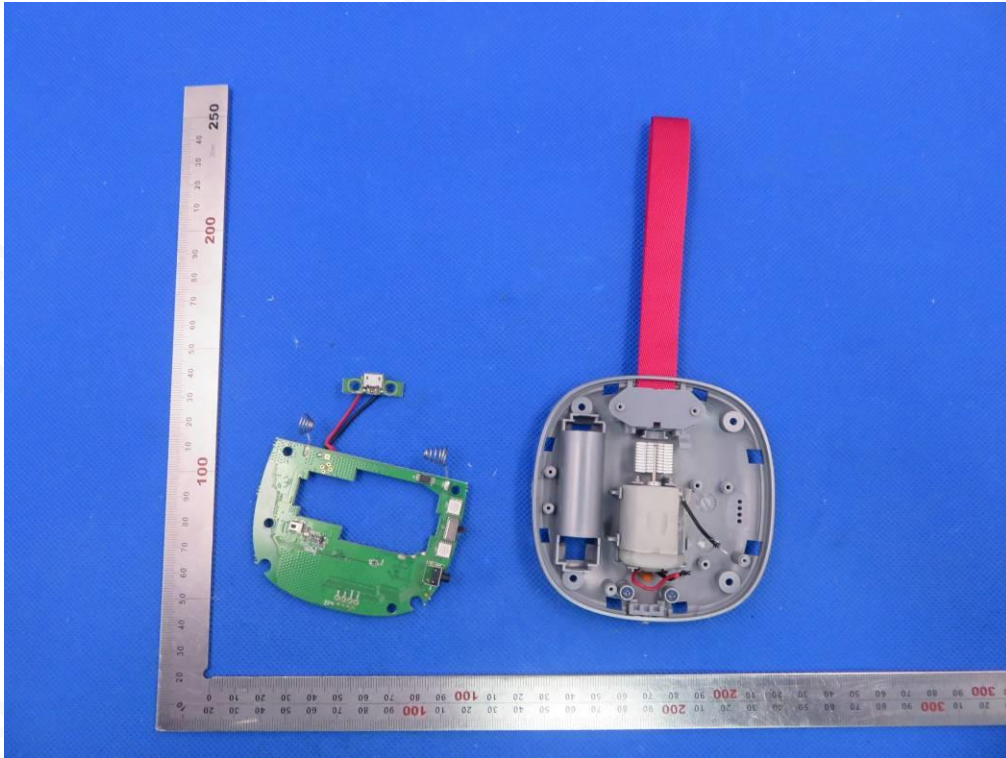
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OPEN VIEW OF EUT-3



VIEW OF BATTERY



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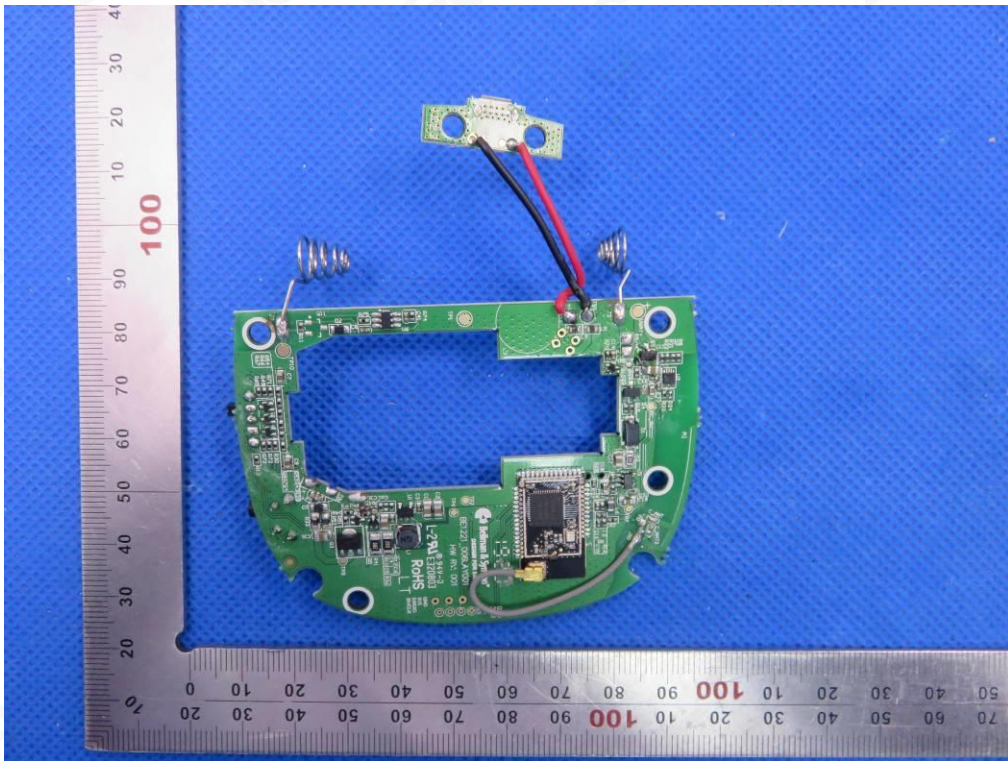
Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,  
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Tel: +86-755 2523 4088

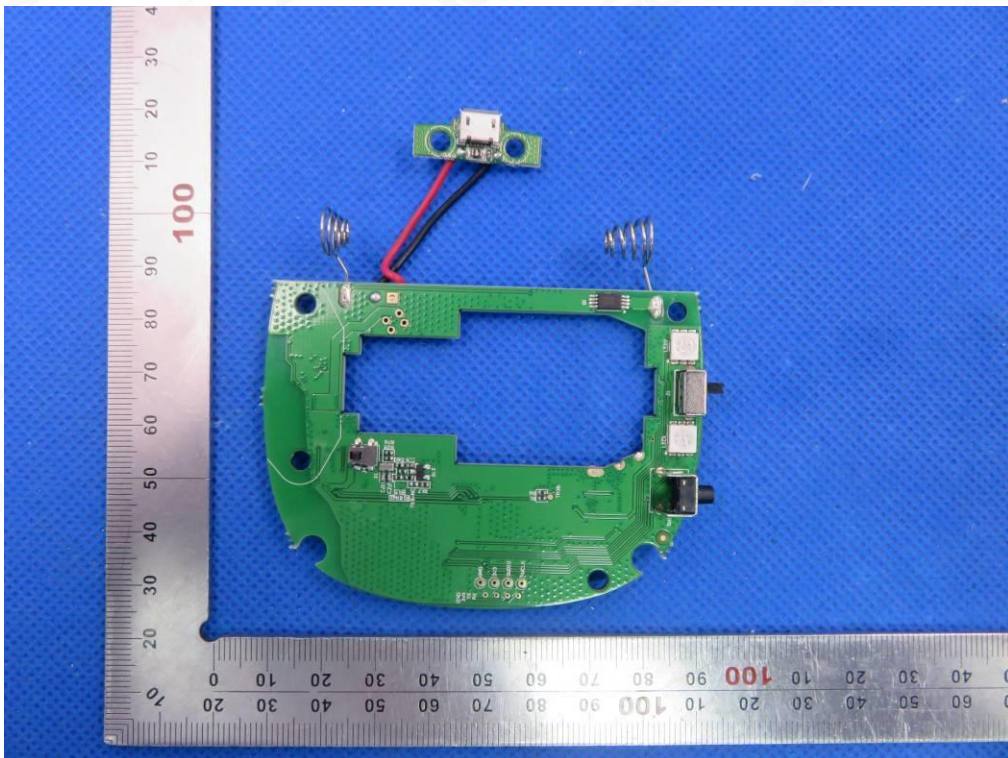
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INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



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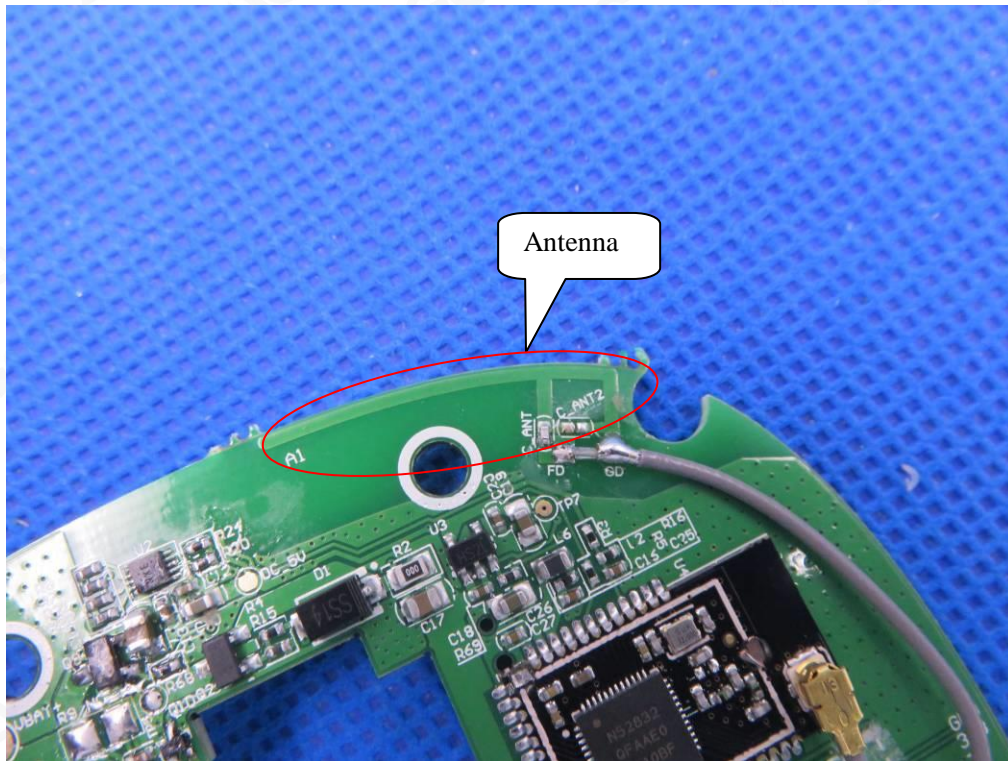
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

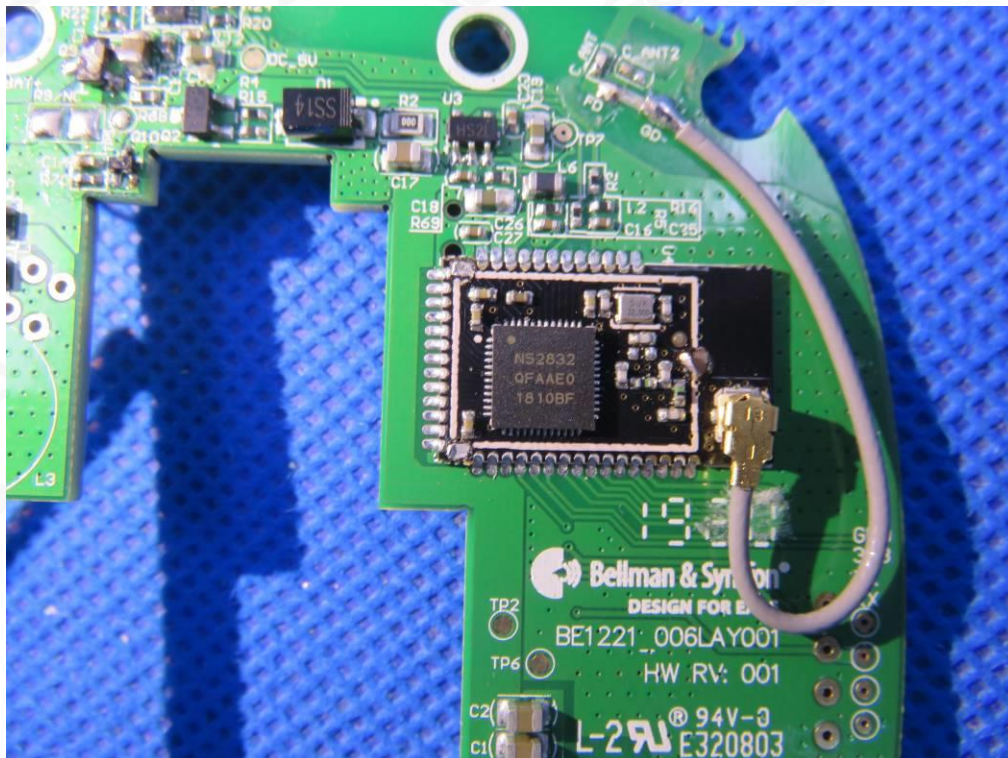
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INTERNAL VIEW OF EUT-3



INTERNAL VIEW OF EUT-4



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E-mail: agc@agc-cert.com

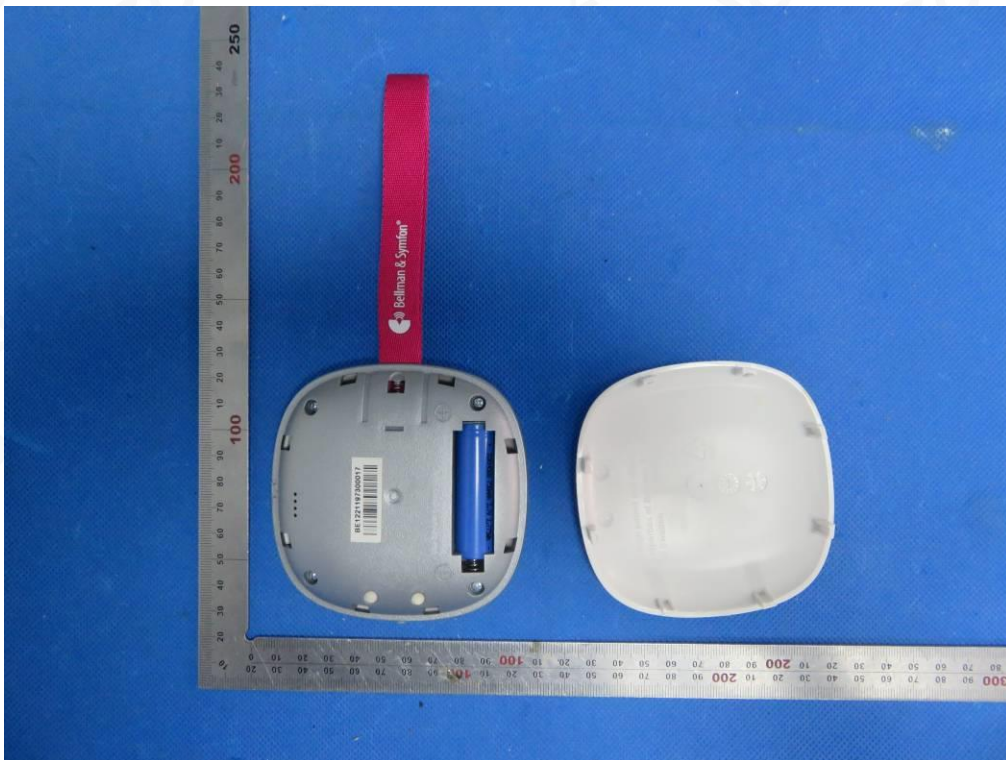
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**Motor 2**

**VIEW OF EUT(PORT)**



**OPEN VIEW OF EUT-1**



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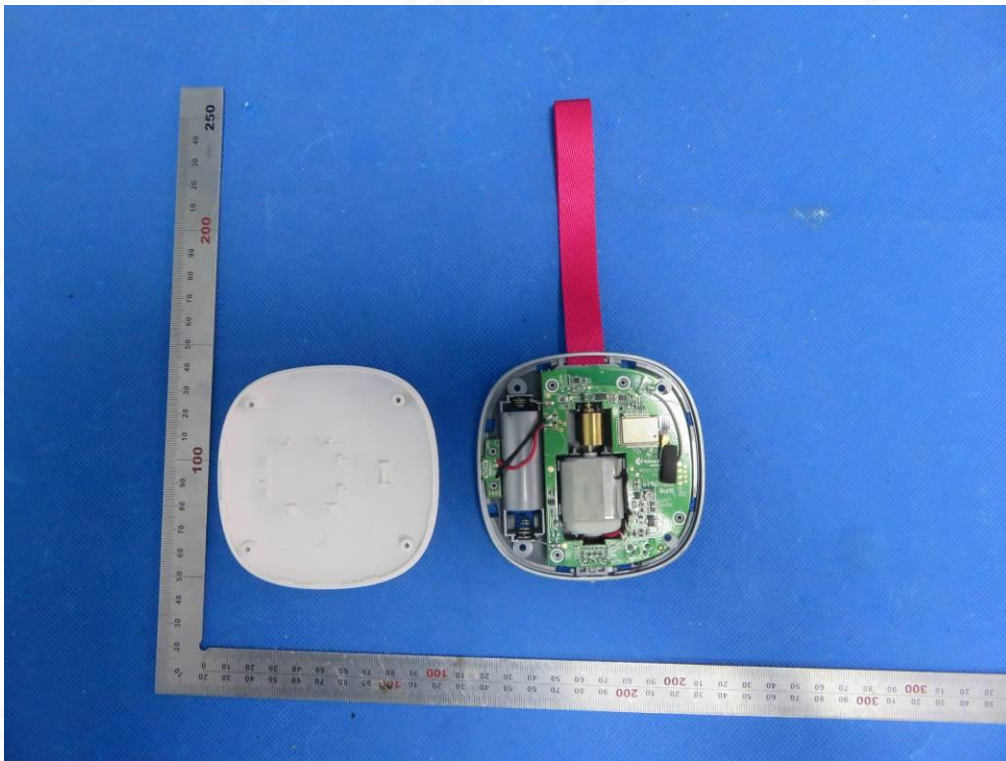
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Tel: +86-755 2523 4088

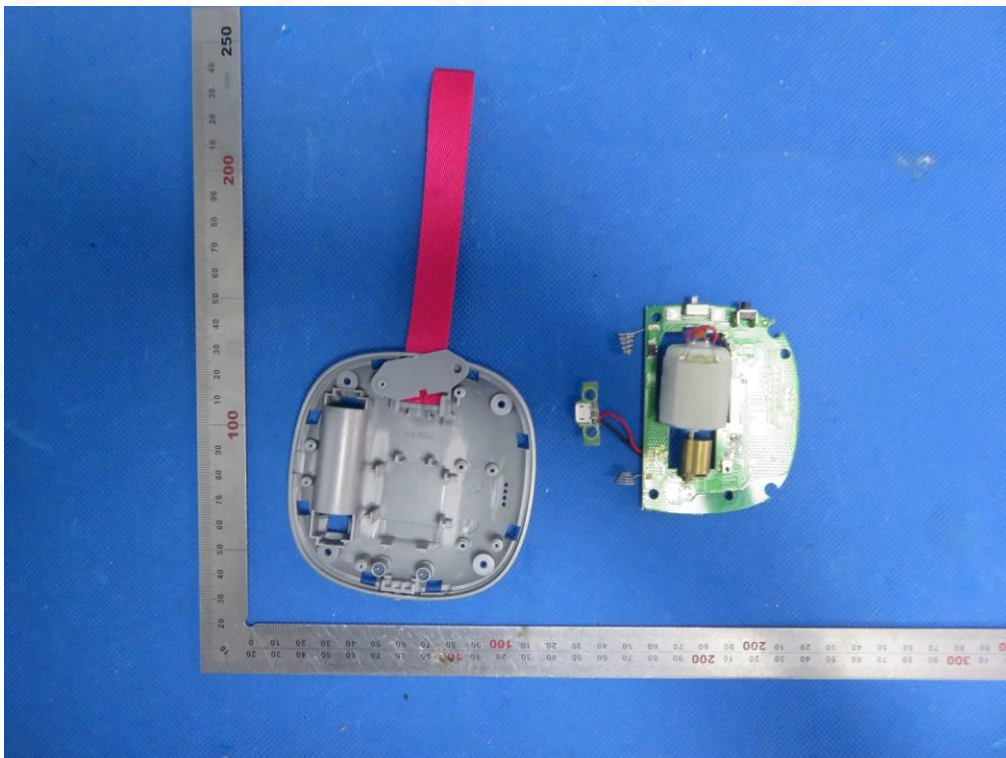
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OPEN VIEW OF EUT-2



OPEN VIEW OF EUT-3



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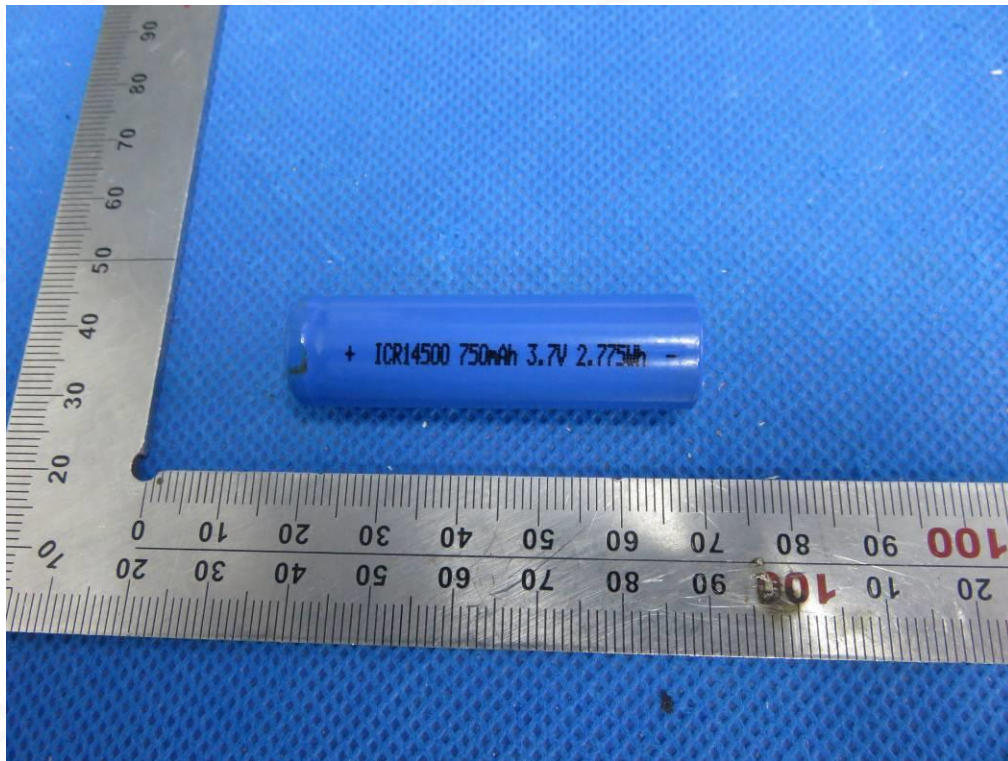
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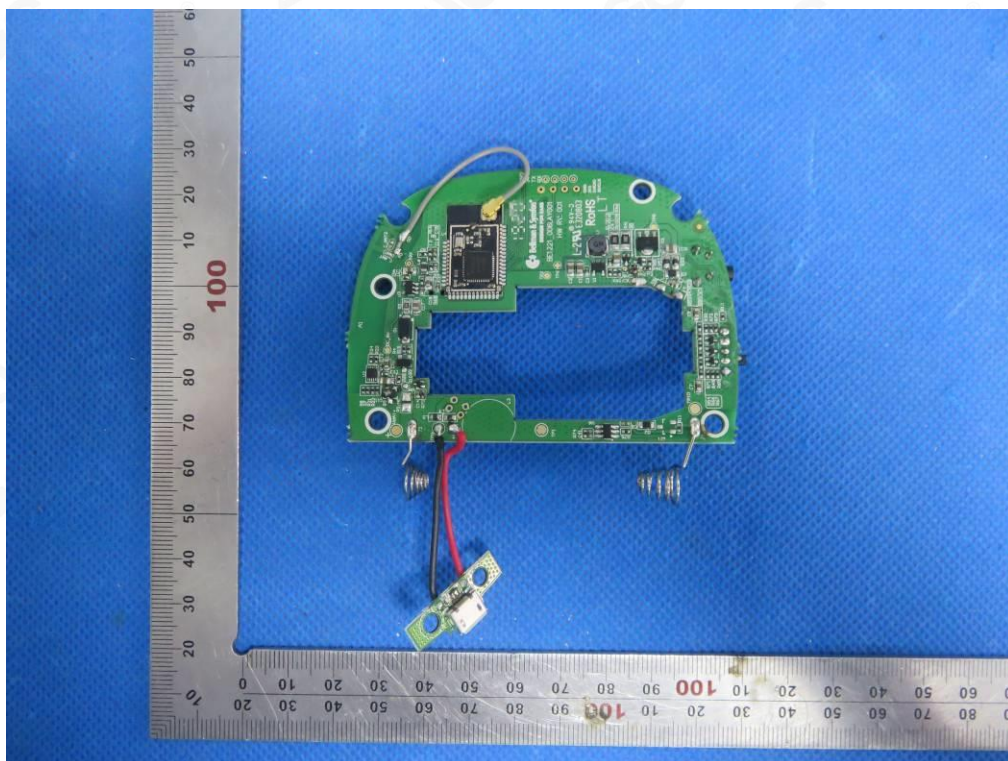
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VIEW OF BATTERY



INTERNAL VIEW OF EUT-1



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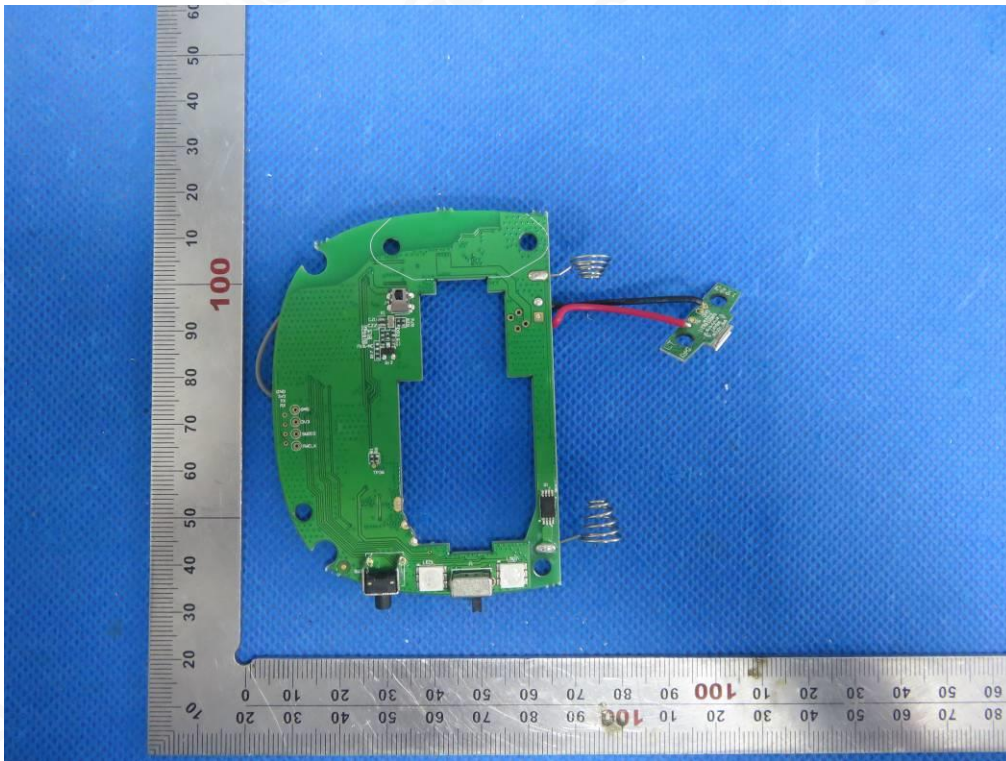
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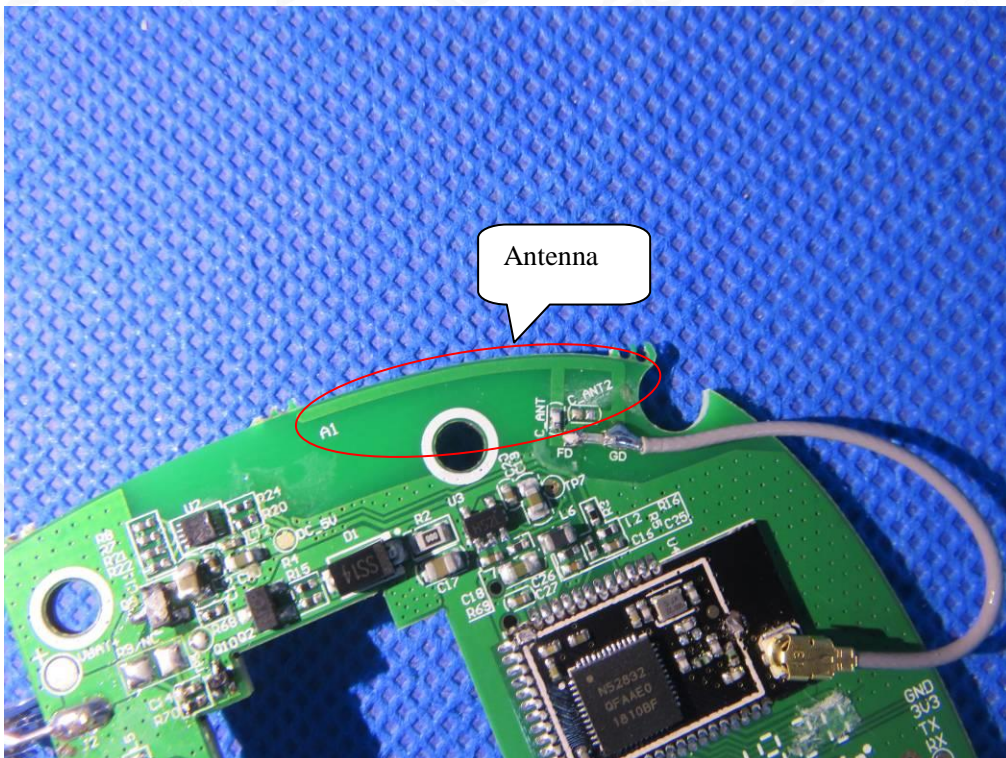
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Service Hotline:400 089 2118

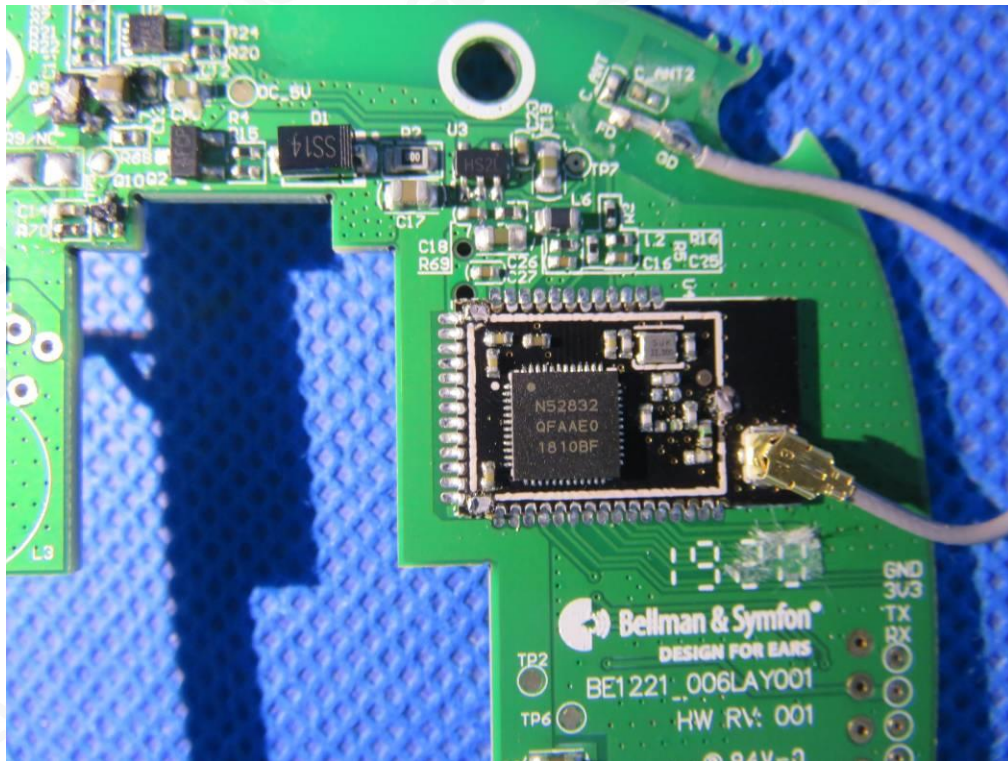
INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



INTERNAL VIEW OF EUT-4



----END OF REPORT----



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