TEST REPORT

Report No.: TW2305158-01E

Applicant: SHANTOU CHAOYANG DISTRICT SHENGTENA ELECTRONIC FACTORY

Product: Wireless Headphone

Model No.: ARBT255, BSBTH255, TXBTHPGRAP

Trademark: ART+SOUND

Test Standards: FCC Part 15.249

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10 &FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of electromagnetic compatibility

Approved By:

Terry Tang

Manager

Dated: June 02, 2023

Results appearing herein relate only to the sample tested
The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China
Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com

Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

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

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

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Test Report Conclusion

Content

1.0	**General Details** ……	4
1.1	Test Lab Details……	4
1.2	Applicant Details……	4
1.3	Description of EUT ……	4
1.4	Submitted Sample……	4
1.5	Test Duration……	5
1.6	Test Uncertainty……	5
1.7	Test By……	5
2.0	**List of Measurement Equipment**……	6
3.0	**Technical Details**……	7
3.1	Summary of Test Results……	7
3.2	Test Standards……	7
4.0	EUT Modification……	7
5.0	Power Line Conducted Emission Test……	8
5.1	Schematics of the Test……	8
5.2	Test Method and Test Procedure……	8
5.3	Configuration of the EUT……	8
5.4	EUT Operating Condition……	9
5.5	Conducted Emission Limit……	9
5.6	Test Result……	9
6.0	**Radiated Emission test**……	12
6.1	Test Method and Test Procedure……	12
6.2	Configuration of the EUT……	13
6.3	EUT Operation Condition……	13
6.4	Radiated Emission Limit……	13
6.5	Test Result……	14
10.0	**FCC ID Label**……	16
11.0	Photo of Test Setup and EUT View……	17

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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China
Telephone: (755) 83448688
Fax: (755) 83442996
Site on File with the Federal Communications Commission – United Sates
Registration Number: 744189
For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: SHANTOU CHAOYANG DISTRICT SHENGTENA ELECTRONIC FACTORY
Address: GOUNAN VILLAGE INDUSTRIAL AREA, GURAO, CHAOYANG DISTRICT, SHANTOU
Telephone: 0754-87616553
Fax: 0754-87637553

1.3 Description of EUT

Product:	Wireless Headphone
Manufacturer:	SHANTOU CHAOYANG DISTRICT SHENGTENA ELECTRONIC FACTORY
Address:	GOUNAN VILLAGE INDUSTRIAL AREA, GURAO, CHAOYANG DISTRICT, SHANTOU
Trademark:	ART+SOUND
Additional Trademark:	N/A
Model Number:	ARBT255
Additional Model Name	BSBTH255, TXBTHPGRAP
Hardware Version:	V1.2
Software Version:	V1.0
Rating:	Input: DC5V, 1A
Battery:	DC3.7V, 200mAh Li-ion battery
Modulation Type:	GFSK, π/4D-QPSK
Operation Frequency:	2402-2480MHz
Channel Separate:	1MHz
Channel Number:	79
Antenna Designation	PCB antenna with gain 1.49dBi maximum (Declared by the Manufacturer)

1.4 Submitted Sample: 2 pcs

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1.5 Test Duration

2023-05-16 to 2023-06-02

Note: This is a class II permissive change report base on original FCC ID: 2ALOE-ARBT255.

1. The RF part remains the same
2. The Micro-USB port is changed to Type-C port
3. The LEDs (D3 and D5) is placed in vertical, while in the original application, it was placed in horizontal
4. R12 and R13 are added

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Conducted Emissions Uncertainty =3.6dB

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by _____

Print Name: Andy Xing

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2022-07-15	2023-07-14
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17
LISN	R&S	EZH3-Z5	100253	2022-07-18	2023-07-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2022-07-18	2023-07-17
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2022-07-15	2023-07-14
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2024-07-17
Power meter	Anritsu	ML2487A	6K00003613	2022-07-18	2023-07-17
Power sensor	Anritsu	MA2491A	32263	2022-07-18	2023-07-17
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic	--	--	N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2022-07-15	2023-07-14
EMI Test Receiver	RS	ESCS 30	834115/006	2022-07-15	2023-07-14
Spectrum	HP/Agilent	E4407B	MY50441392	2022-07-15	2023-07-14
Spectrum	RS	FSP	1164.4391.38	2022-07-15	2023-07-14
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	--	2022-07-15	2023-07-14
RF Cable	Zhengdi	7m	--	2022-07-15	2023-07-14
Pre-Amplifier	Schwarebeck	BBV9743	#218	2022-07-15	2023-07-14
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2022-07-15	2023-07-14
LISN	SCHAFFNER	NNB42	00012	2022-08-18	2023-07-17
ESPI Test Receiver	R&S	ESPI 3	100379	2022-07-15	2023-07-14
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17

2.2 Automation Test Software

For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Complies
FCC Part 15, Paragraph 15.209	Radiated Emission Test	Pass	Complies

3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249 , ANSI C63.4 :2014 and ANSI C63.10 :2013

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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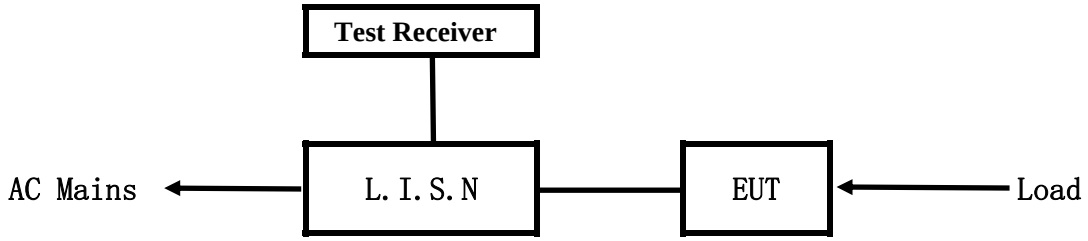
5. Power Line Conducted Emission Test

5.1 Schematics of the test



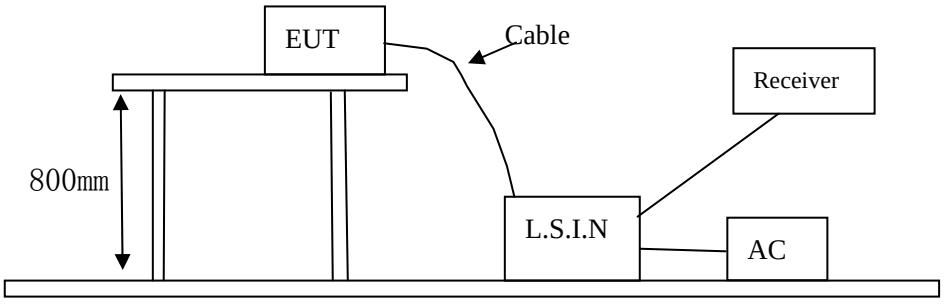
EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013.The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10 –2013.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

79 channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
Wireless Headphone	SHANTOU CHAOYANG DISTRICT SHENGTENA ELECTRONIC FACTORY	ARBT255, BSBTH255, TXBTHPGRAP	2ALOE-ARBT255

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	KEYU	KA23-0502000DEU	Input: 100-240V~, 50/60Hz, 0.35A; Output: DC5V, 2A

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (MHz)	Limits (dB μ V)	
	Quasi-peak Level	Average Level
0.15 ～ 0.50	66.0～56.0*	56.0～46.0*
0.50 ～ 5.00	56.0	46.0
5.00 ～ 30.00	60.0	50.0

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

5.6 Test Results:

Pass

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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

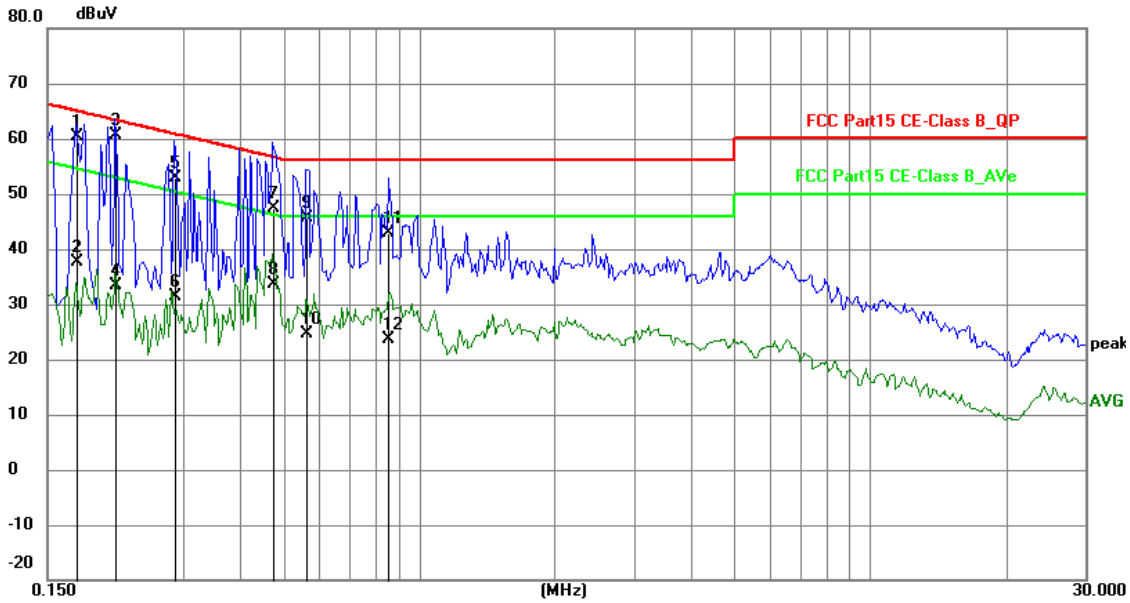
EUT Operating Environment

Temperature: 25℃ Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Communication by BT

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1734	50.51	9.77	60.28	64.80	-4.52	QP	P
2	0.1734	27.82	9.77	37.59	54.80	-17.21	AVG	P
3	0.2124	50.90	9.75	60.65	63.11	-2.46	QP	P
4	0.2124	23.68	9.75	33.43	53.11	-19.68	AVG	P
5	0.2865	43.17	9.76	52.93	60.63	-7.70	QP	P
6	0.2865	21.55	9.76	31.31	50.63	-19.32	AVG	P
7	0.4737	37.58	9.77	47.35	56.45	-9.10	QP	P
8	0.4737	23.83	9.77	33.60	46.45	-12.85	AVG	P
9	0.5633	35.75	9.77	45.52	56.00	-10.48	QP	P
10	0.5633	14.87	9.77	24.64	46.00	-21.36	AVG	P
11	0.8559	33.07	9.79	42.86	56.00	-13.14	QP	P
12	0.8559	13.73	9.79	23.52	46.00	-22.48	AVG	P

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

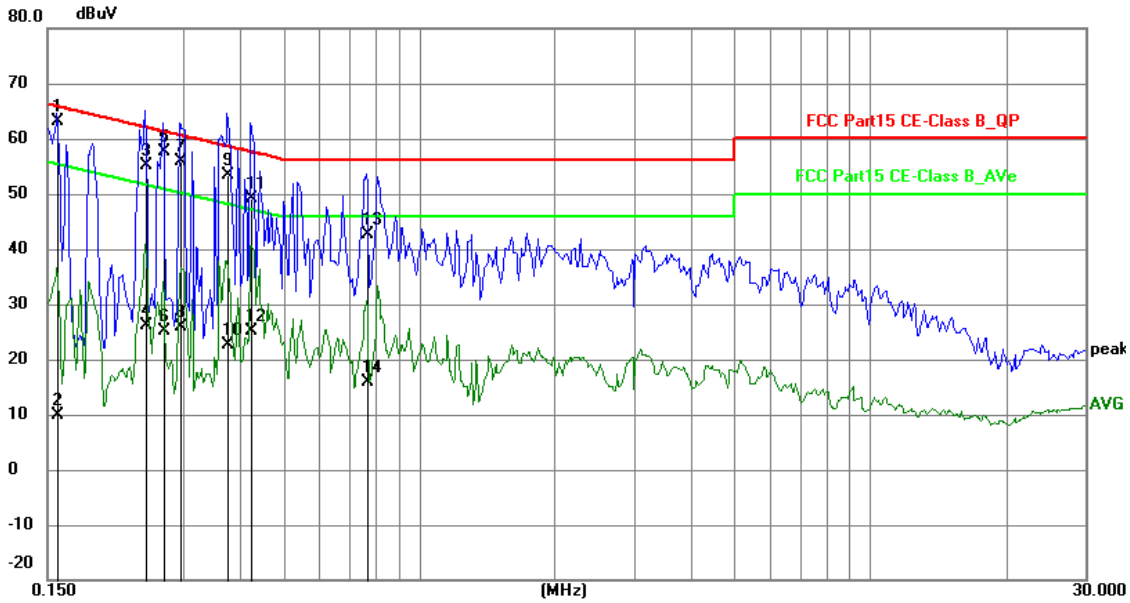
EUT Operating Environment

Temperature: 25℃ Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Communication by BT

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1578	53.29	9.78	63.07	65.58	-2.51	QP	P
2	0.1578	0.00	9.78	9.78	55.58	-45.80	AVG	P
3	0.2475	45.26	9.75	55.01	61.84	-6.83	QP	P
4	0.2475	16.48	9.75	26.23	51.84	-25.61	AVG	P
5	0.2709	47.83	9.75	57.58	61.09	-3.51	QP	P
6	0.2709	15.48	9.75	25.23	51.09	-25.86	AVG	P
7	0.2943	46.16	9.76	55.92	60.40	-4.48	QP	P
8	0.2943	16.16	9.76	25.92	50.40	-24.48	AVG	P
9	0.3762	43.63	9.76	53.39	58.36	-4.97	QP	P
10	0.3762	12.88	9.76	22.64	48.36	-25.72	AVG	P
11	0.4230	39.32	9.76	49.08	57.39	-8.31	QP	P
12	0.4230	15.27	9.76	25.03	47.39	-22.36	AVG	P
13	0.7662	32.81	9.78	42.59	56.00	-13.41	QP	P
14	0.7662	6.20	9.78	15.98	46.00	-30.02	AVG	P

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6 Radiated Emission Test

6.1 Test Method and test Procedure:

(1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189

(2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.

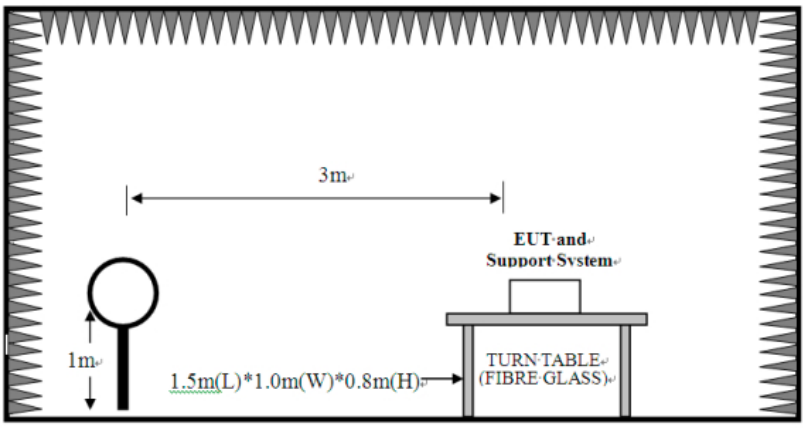
(3) The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz.

(4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.

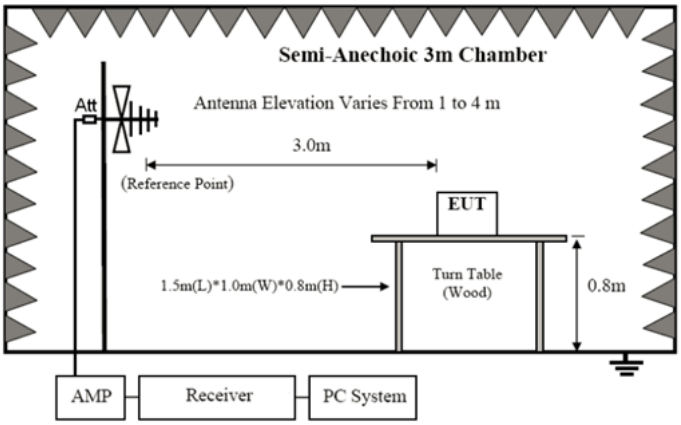
(5) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to1GHz



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6.2 Configuration of The EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

Frequencies in restricted band are complied to limit on Paragraph 15.209.

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note: 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)

2. In the Above Table, the tighter limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.

5. The two modulation modes of GFSK and π/4D-QPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

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6.5 Test result

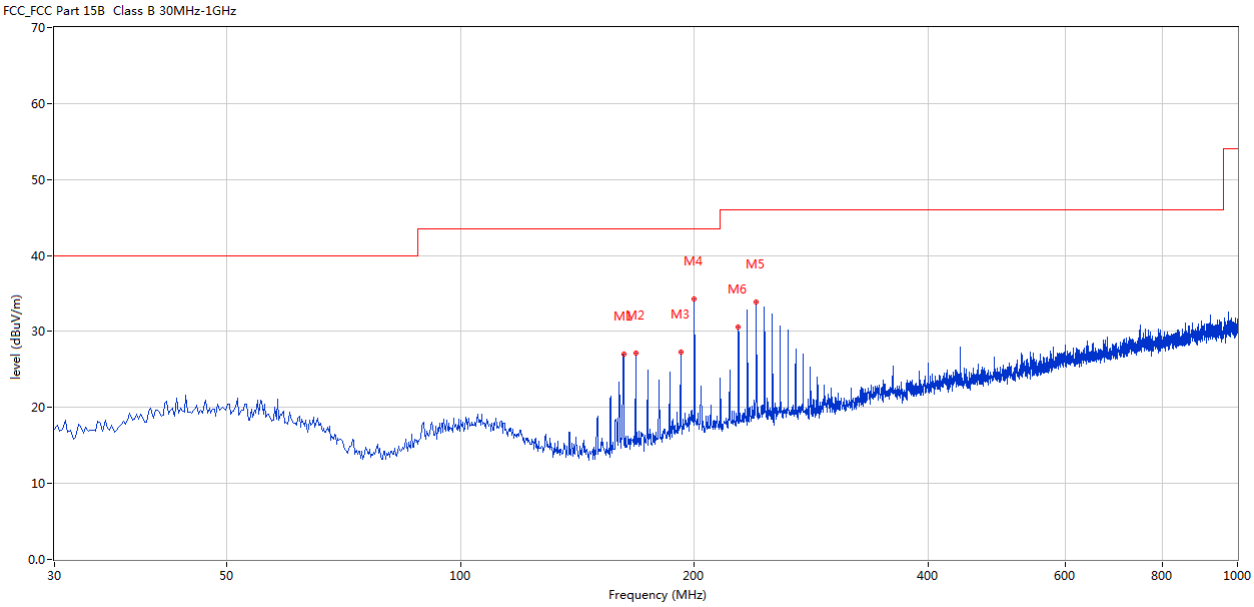
General Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	162.129	26.97	-16.41	43.5	-16.53	Peak	43.00	200	Horizontal	Pass
2	167.948	27.12	-16.14	43.5	-16.38	Peak	359.00	200	Horizontal	Pass
3	191.950	27.24	-14.07	43.5	-16.26	Peak	353.00	100	Horizontal	Pass
4	199.950	34.23	-13.45	43.5	-9.27	Peak	0.00	200	Horizontal	Pass
5	239.953	33.94	-12.33	46.0	-12.06	Peak	324.00	100	Horizontal	Pass
6	227.831	30.55	-12.78	46.0	-15.45	Peak	0.00	200	Horizontal	Pass

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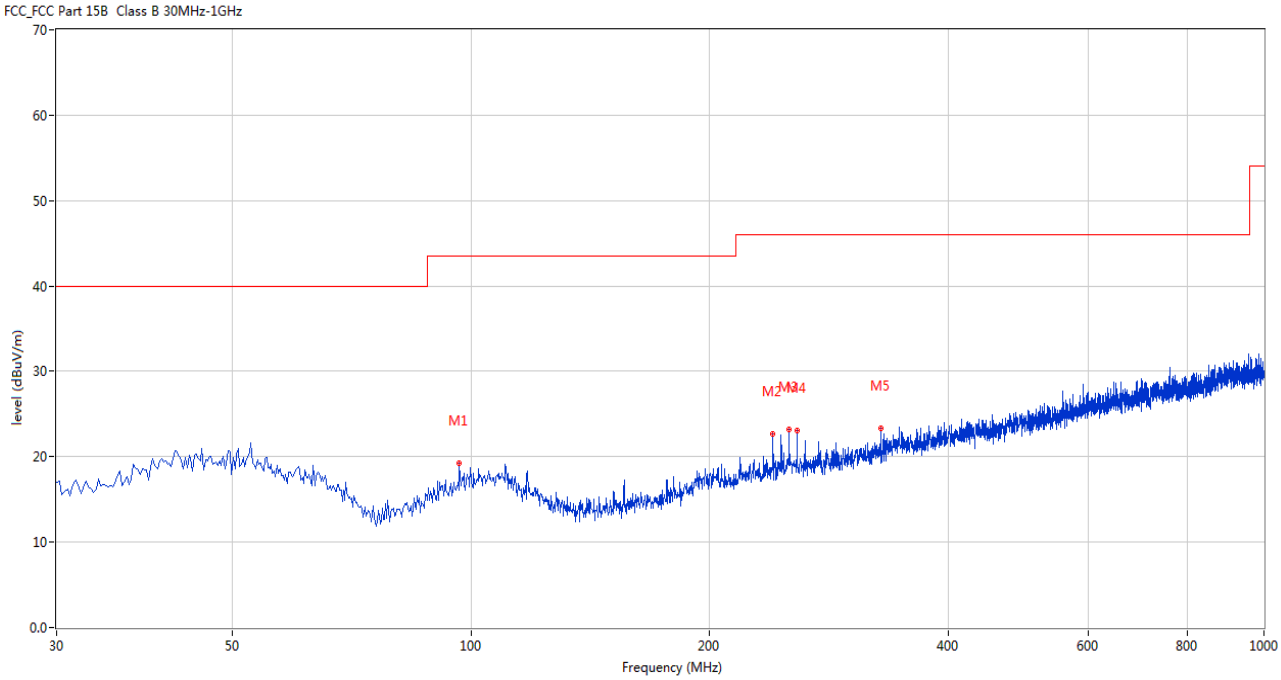
Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	96.671	19.22	-14.02	43.5	-24.28	Peak	133.00	100	Vertical	Pass
2	239.953	22.64	-12.33	46.0	-23.36	Peak	78.00	100	Vertical	Pass
3	251.832	23.21	-12.05	46.0	-22.79	Peak	78.00	100	Vertical	Pass
4	257.893	23.07	-11.84	46.0	-22.93	Peak	62.00	100	Vertical	Pass
5	328.928	23.36	-10.30	46.0	-22.64	Peak	117.00	100	Vertical	Pass

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10.0 FCC ID Label

FCC ID: 2ALOE-ARBT255

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:

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11.0 Photo of testing

11.1 Conducted test View--

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Radiated emission test view

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11.2 Photographs – EUT

Outside View

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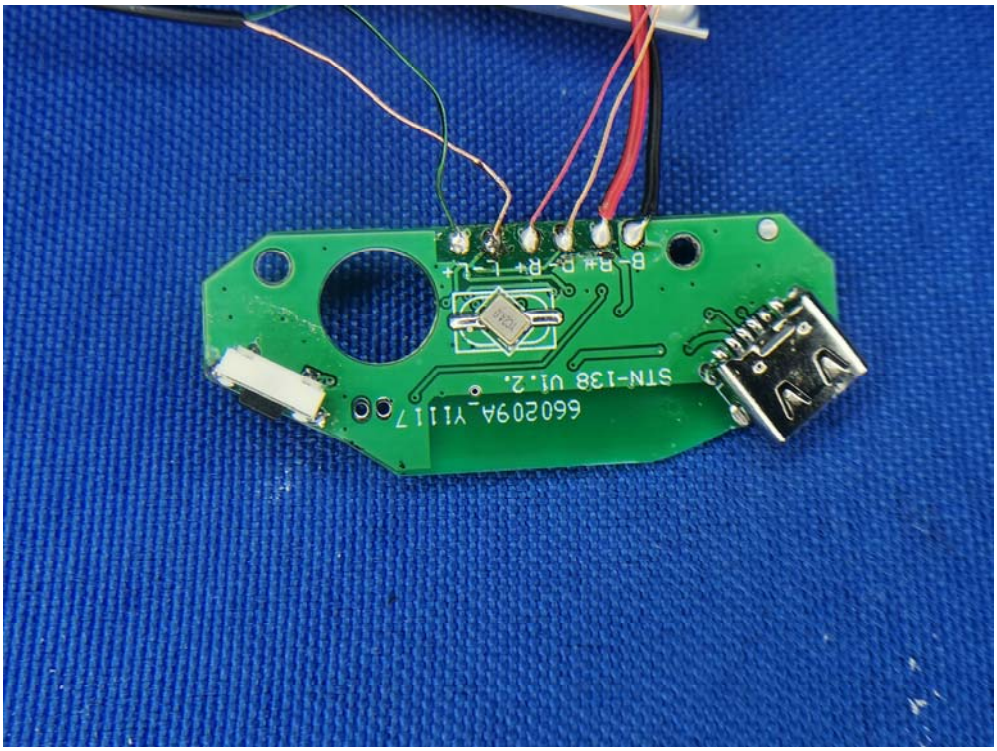
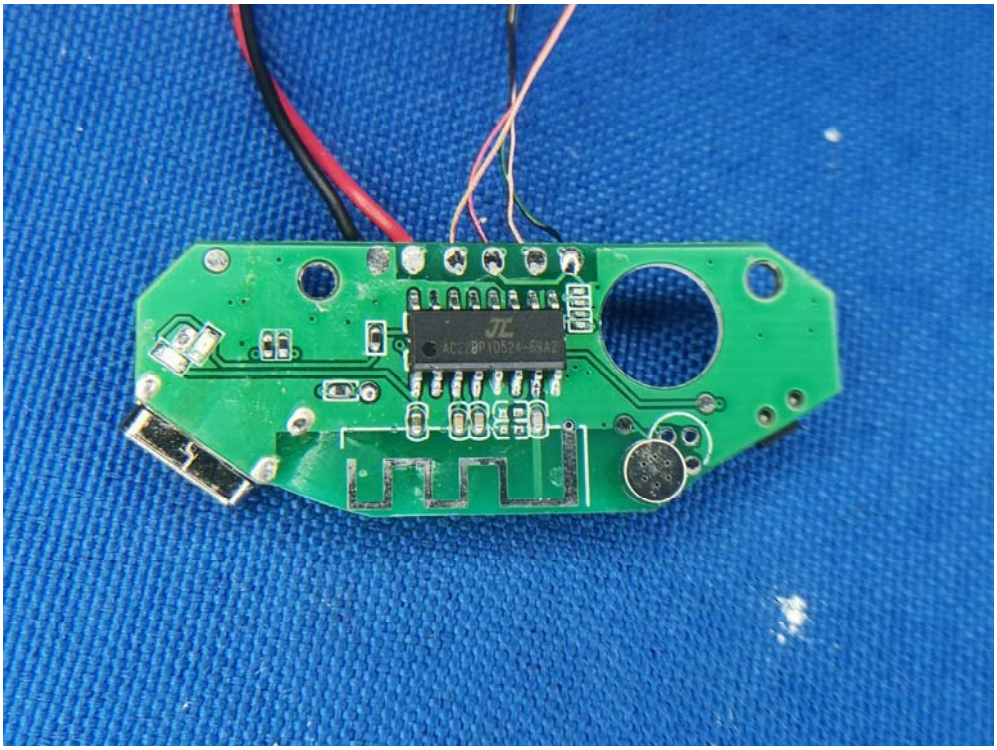
Inside View





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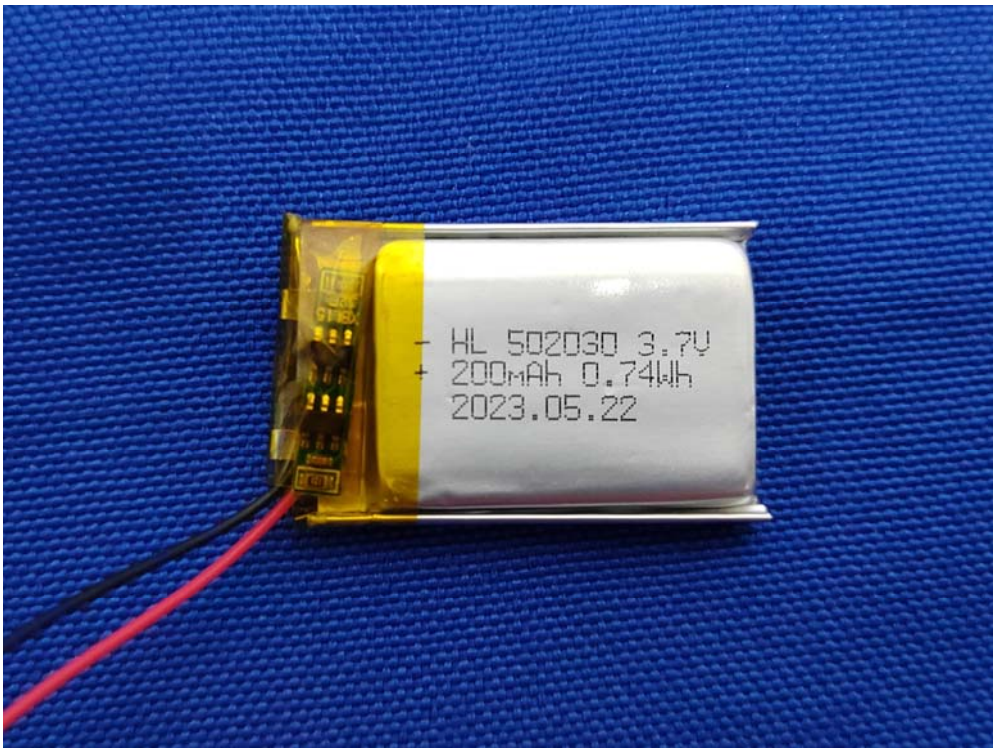
Inside View



--End of the Report--

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