

Applicant: Shenzhen Glory Star Technology Industrial Co., Ltd

Product: TWS earbuds

Model No.: TWS112, MI-E104T

Trademark: Glory Star, Merkury

Test Standards: FCC Part 15.249

It is herewith confirmed and found to comply with the Test result:

requirements set up by ANSI C63.10 & FCC Part 15 Subpart C, for the evaluation

Paragraph 15.249 regulations

electromagnetic compatibility

Approved By

Terry Tang

Manager

Dated: January 10, 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



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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

Date: 2023-01-10



Test Report Conclusion

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The report refers only to the sample tested and does not apply to the bulk.

11.0

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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: Shenzhen Glory Star Technology Industrial Co., Ltd

Address: Room2102, Block 1st, Yi Luan Building, Xixiang Road 230, BaoAn District, Shenzhen, China

Telephone: +86-755-86397260 Fax: +86-755-26609516

1.3 Description of EUT

Product: TWS earbuds

Manufacturer: Shenzhen Glory Star Technology Industrial Co., Ltd

Address: Room2102, Block 1st, Yi Luan Building, Xixiang Road 230, BaoAn District,

Shenzhen, China

Trademark: Glory Star, Merkury

Model Number: TWS112
Additional Model Name MI-E104T

Rating: DC5V input or Built-in DC3.7V, 30mAh Li-ion battery for earphones and DC5V

input or Built-in DC3.7V, 200mAh Li-ion battery for charger base.

Modulation Type: GFSK, Π/4DQPSK, 8DPSK for Bluetooth

Operation Frequency: 2402-2480MHz

Channel Number: 79
Channel Separation: 1MHz
Hardware Version: V1.0
Software Version: V1.0

Serial No.: TWS112E104T

Antenna Designation Chip antenna with gain 2.73dBi Max (Get from the antenna specification)

1.4 Submitted Sample: 2 Samples

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1.5 Test Duration

2023-01-04 to 2023-01-10

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		1	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	1	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 15.203	Antenna Requirement	Pass	Complies
FCC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	Pass	Complies
FCC Part 15, Paragraph 15.209	Radiated Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge 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

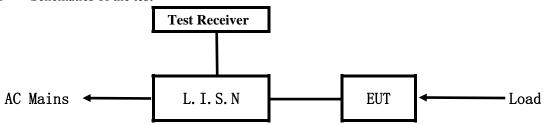
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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5. Power Line Conducted Emission Test

5.1 Schematics of the test

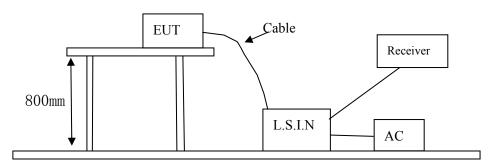


EUT: Equipment Under Test

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	
TWS earbuds	Shenzhen Glory Star	TWS112. MI-E104T	2AS7V-TWS112	
1 W S Carbuds	Technology Industrial Co., Ltd	1 W 5112, WII-E1041	2A3/V-1W3112	

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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	Limits (dB µ V)		
(MHz)	Quasi-peak Level	Average Level	
$0.15 \sim 0.50$	66.0~56.0*	56.0~46.0*	
$0.50 \sim 5.00$	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:

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

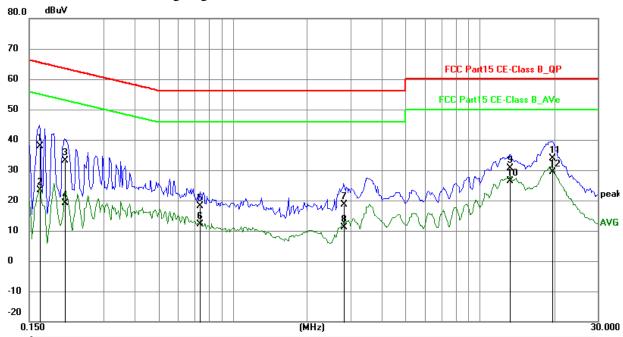
EUT Operating Environment

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging + 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	0.1655	28.21	9.77	37.98	65.18	-27.20	QP	Р
2	0.1655	13.72	9.77	23.49	55.18	-31.69	AVG	Р
3	0.2085	23.44	9.75	33.19	63.26	-30.07	QP	Р
4	0.2085	9.46	9.75	19.21	53.26	-34.05	AVG	Р
5	0.7389	8.27	9.78	18.05	56.00	-37.95	QP	Р
6	0.7389	2.42	9.78	12.20	46.00	-33.80	AVG	Р
7	2.8098	8.67	9.84	18.51	56.00	-37.49	QP	Р
8	2.8098	1.24	9.84	11.08	46.00	-34.92	AVG	Р
9	13.2609	20.22	10.30	30.52	60.00	-29.48	QP	П
10	13.2609	16.08	10.30	26.38	50.00	-23.62	AVG	Л
11	19.7232	23.32	10.66	33.98	60.00	-26.02	QP	Р
12	19.7232	18.71	10.66	29.37	50.00	-20.63	AVG	Р

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

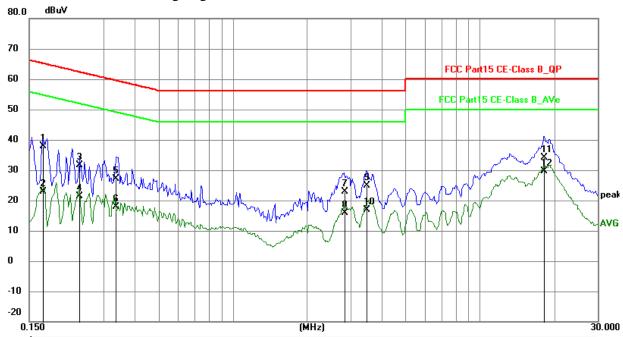
EUT Operating Environment

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging + 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	0.1695	28.21	9.77	37.98	64.98	-27.00	QP	Р
2	0.1695	13.16	9.77	22.93	54.98	-32.05	AVG	Р
3	0.2397	21.88	9.75	31.63	62.11	-30.48	QP	Р
4	0.2397	11.68	9.75	21.43	52.11	-30.68	AVG	Р
5	0.3372	17.29	9.76	27.05	59.27	-32.22	QP	Р
6	0.3372	8.23	9.76	17.99	49.27	-31.28	AVG	Р
7	2.8370	13.16	9.84	23.00	56.00	-33.00	QP Q	Р
8	2.8370	5.96	9.84	15.80	46.00	-30.20	AVG	Р
9	3.4797	14.97	9.86	24.83	56.00	-31.17	QP	Р
10	3.4797	6.94	9.86	16.80	46.00	-29.20	AVG	Р
11	18.2256	23.65	10.57	34.22	60.00	-25.78	QP	Р
12	18.2256	18.98	10.57	29.55	50.00	-20.45	AVG	Р

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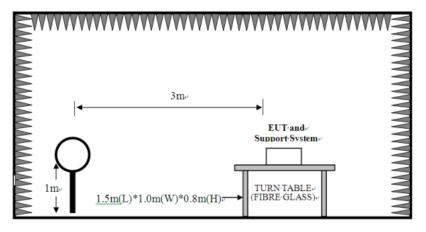


6 Radiated Emission Test

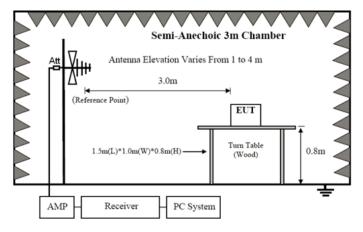
- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size 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 25 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz (Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz). Measurements were made at 3 meters.
- (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



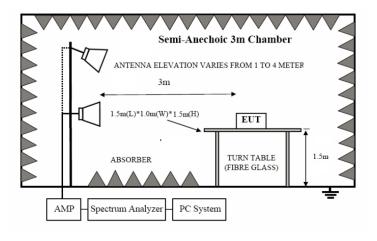
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For radiated emissions above 1GHz



- 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:

A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

Fundamental Frequency	Field Strength of Fundamental (3m)			Field S	trength of Harmo	onics (3m)
(MHz)	mV/m	dBuV/m		uV/m	dBuV/m	
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)

Note:

- 1. RF Field Strength (dBuV) = 20 log RF Voltage (uV)
- 2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- 3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

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

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
0.009-0.490	3	20log(2400/F(kHz)) +40log (300/3)
0.490-1.705	3	20log(24000/F(kHz)) +40log (30/3)
1.705-30	3	69.5
30-80	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.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.
- 5. The three modulation modes of GFSK, Pi/4D-QPSK and 8DPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.
- 6. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
- 7. Battery fully charged was used during the test.

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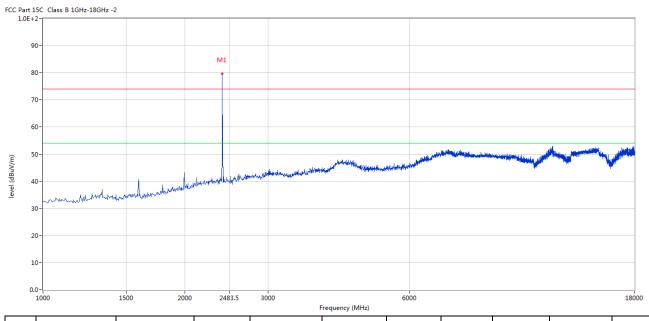


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

Please refer to the following test plots for details: Low Channel-2402MHz

Horizontal



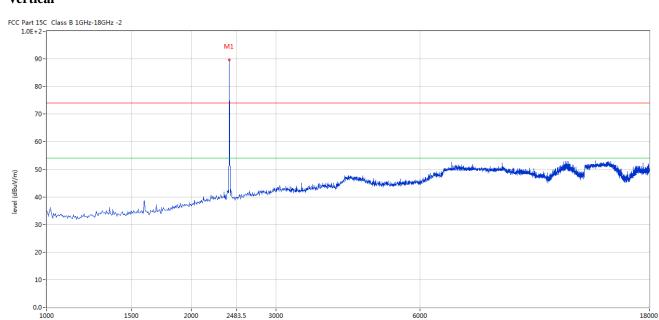
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	79.68	-3.57	114.0	-34.32	Peak	190.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402	89.75	-3.57	114.0	-24.25	Peak	253.00	100	Vertical	Pass

Frequency (MHz)

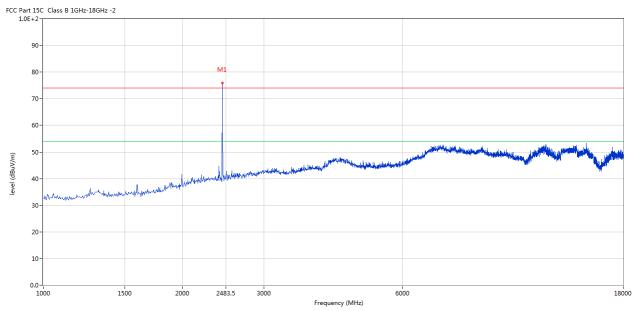
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



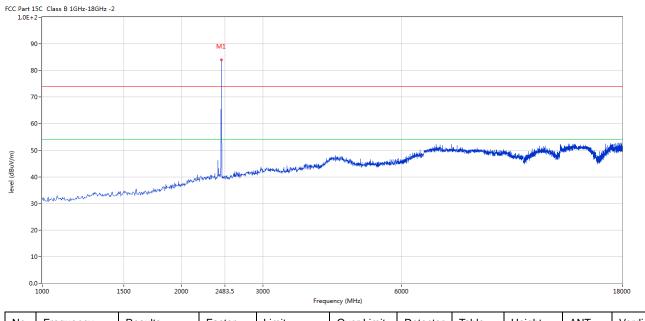
١	No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1	1	2441	75.93	-3.57	114.0	-38.07	Peak	54.00	100	Horizontal	Pass

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Vertical



١	۱o.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1		2441	84.06	-3.57	114.0	-29.94	Peak	344.00	100	Vertical	Pass

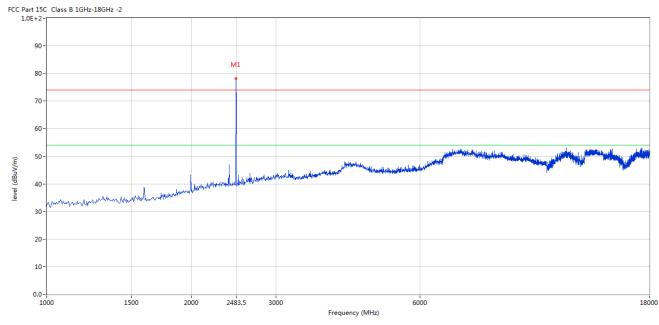
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



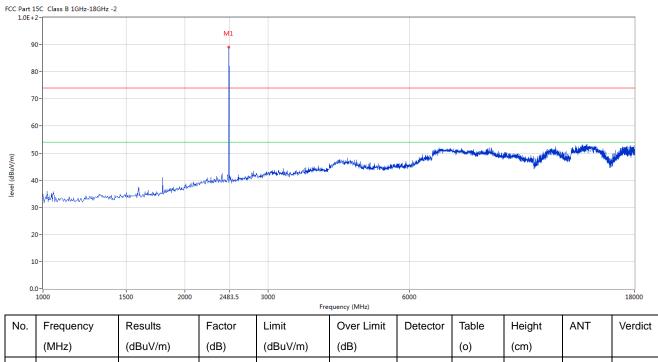
No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1	2480	78.39	-3.57	114.0	-35.61	Peak	227.00	100	Horizontal	Pass

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Vertical



158.00 Pass 2480 89.27 -3.57 114.0 -24.73 Peak 100 Vertical

Note: (1) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

- (2) Margin=Emission-Limits
- (3) According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (4) For test purpose, keep EUT continuous transmitting
- (5) For emission above 18GHz and Below 30MHz, It is only the floor noise and less than the limit for more than 20dB. No necessary to take down.
- (6) the measured PK value less than the AV limit.

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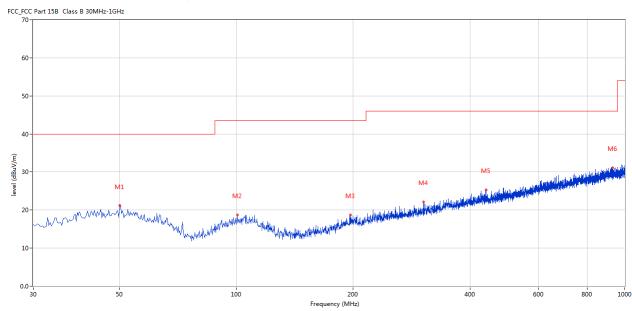


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	50.122	21.16	-11.38	40.0	-18.84	Peak	16.00	100	Horizontal	Pass
2	100.550	18.69	-13.48	43.5	-24.81	Peak	21.00	100	Horizontal	Pass
3	196.556	18.75	-13.56	43.5	-24.75	Peak	44.00	100	Horizontal	Pass
4	303.714	22.15	-10.99	46.0	-23.85	Peak	283.00	100	Horizontal	Pass
5	439.723	25.30	-8.07	46.0	-20.70	Peak	93.00	100	Horizontal	Pass
6	932.602	31.09	-1.67	46.0	-14.91	Peak	305.00	100	Horizontal	Pass

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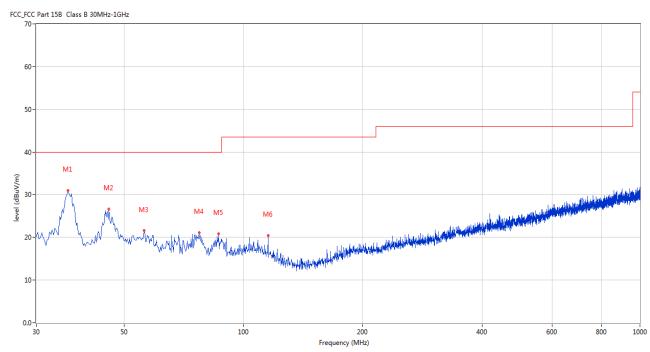


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	36.061	30.94	-13.68	40.0	-9.06	Peak	94.00	100	Vertical	Pass
2	45.759	26.61	-11.40	40.0	-13.39	Peak	246.00	100	Vertical	Pass
3	56.183	21.56	-12.07	40.0	-18.44	Peak	53.00	100	Vertical	Pass
4	77.276	21.13	-17.58	40.0	-18.87	Peak	88.00	100	Vertical	Pass
5	86.488	20.84	-16.08	40.0	-19.16	Peak	182.00	100	Vertical	Pass
6	115.339	20.41	-14.48	43.5	-23.09	Peak	216.00	100	Vertical	Pass

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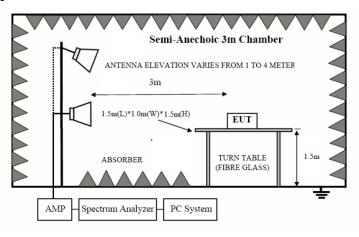


7. Band Edge

7.1 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) Set Spectrum as RBW=1MHz, VBW=3MHz and Peak detector used for PK value. RBW=1MHz, VBW=10Hz and Peak detector used for AV value.
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

7. 2 Radiated Test Setup



For the actual test configuration, please refer to the related items – Photos of Testing

7.3 Configuration of the EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

7.5 Band Edge Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

The report refers only to the sample tested and does not apply to the bulk.

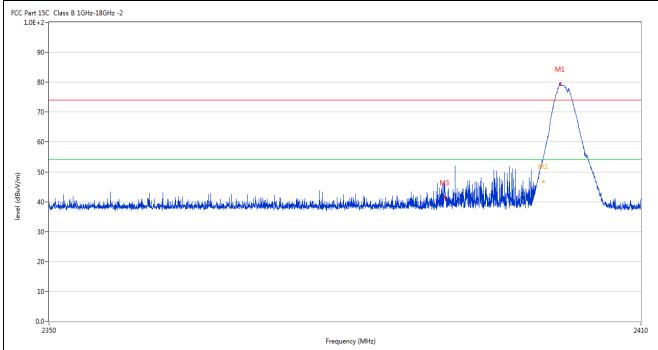
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7.6 Test Result

Product:	TWS earbuds	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2401.737	79.45	-3.57	74.0	5.45	Peak	181.00	100	Horizontal	N/A
2	2400.000	54.89	-3.57	74.0	-19.11	Peak	186.00	100	Horizontal	Pass
2**	2400.000	46.68	-3.57	54.0	-7.32	AV	186.00	100	Horizontal	Pass
3	2389.935	41.35	-3.53	74.0	-32.65	Peak	71.00	100	Horizontal	Pass

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2**

3

2400.000

2390.000

49.20

38.05

-3.57

-3.53

54.0

74.0



F	Product:		TWS ear	rbuds		Detecto	r	7	Vertical	
	Mode	K	eeping Trai	nsmitting		Test Volta	ige	Γ	DC3.7V	
Teı	mperature		24 deg.	. C,		Humidit	.y	5	6% RH	
Te	est Result:		Pass	3						
Part 15	.5C Class B 1GHz-18GHz	-2			•		·			
								M1		
90	0-							\wedge	\	
80	0-									
70	0-									
	_							/		
O.	0-1								1	
60								M ₂		
50							با بن بنا	M2		
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50	O-	المواديد الم	dheda wada da wa ya ba	nad Stynaddistander, vastyddista	ada karalda pila da dikaralda pila anga	and Mal		M2		l de philippe
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50 40 30 20 10		ngindus inadased dis ulanation delentropi	idagidha ayyahda hawba yaziba		quency (MHz)	Maj		M-2		2410
50 40 30 20 10		Results	Factor			Detector	Table	Height	ANT	ı
50 40 30 20 10	0-			Free	quency (MHz)			Height (cm)	ANT	2410 Verc
500 400 300 200 100 0.0.0.2	o	Results	Factor	Free	quency (MHz) Over Limit		Table	_	ANT Vertical	ı

-4.80

-35.95

ΑV

Peak

58.00

74.00

100

100

Vertical

Vertical

Pass

Pass

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I	Product:		TW	'S earbuds			Polarity	y	Horizon	tal
	Mode		Keeping	g Transmittir	ıg	,	Test Volta	age	DC3.7	V
Te	mperature		24	4 deg. C,			Humidi	ty	56% R	Н
Те	est Result:			Pass						
C Part 1 1.0E+2	.5C Class B 1GHz-18GHz -	2								
90										
90	0-		M1							
80	0-		سوسر							
70	0-			1						
			<i>y</i>							
60	0-			1						
_				M2						
_	O-	di deser indicionada appropriata		M2	the desired section	applicable analysis.	de in a depte de la competit de la c	idad di katalanda yake kan	. Mad hid hadd daile daile dha	all Allend
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30 20 10		Results	Factor	2483.5		Detector	Table	Height	ANT	2500
5(44) 3(2) 1(10)	0		Factor (dB)	2483.5	Frequency (MHz)					2500
30 20 10	o	Results		2483.5 Limit	Frequency (MHz) Over Limit		Table	Height		
30 20 10 0.0	o	Results (dBuV/m)	(dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	2500 Verc

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	Product:			TWS earb	ouds		Detecto	r	Vert	ical
	Mode		K	eeping Tran	smitting		Test Volta	ige	DC3	.7V
	Temperature	:		24 deg.	C,		Humidi	.y	56%	RH
	Test Result:			Pass						•
CC Part 1.0E	15C Class B 1GHz-18GHz	z -2								
1.02				M1						
	90-									
	80-		/							
	70-			/						
	60-		-	`						
			$-\!\!\!/-\!\!\!\!-$		M					
	50-		<i>y</i>		- ""					
BuV/m)	50-	المنطقة المالة	/			ir le s				
level (dBuV/m)	40-	A A A A A A A A A A A A A A A A A A A	/		The state of the s	the the same	the relieved and the back	in alphanologist habersel		abaya a sa bibi ya diyak yiliki.
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level (dBuV/m	40 - Angel Marie de la	ili dalak kalendari da	/				<u> Andrewskin, also gardinistis est i suda ka</u>	المراجع والمراجع والم	is vide out the special state in the special state	
level (dBuV/m	40-	diddinates an				the state of the s	a falsa erika yak a yak ka kiloka kiloka ka ka kiloka kiloka kiloka kiloka kiloka kiloka kiloka kiloka kiloka k	na, ni felius kusher da bund	is, this well and the back dead of the	the same of the sa
level (dbuV/m	40-	think the second with the second seco	/ 			the think the section of	historia, de la compania de la comp	tan da kalendari kal	is, visit surjective ingelidens derly	
level (dBuV/m	40- 30- 20- 10-	Ali delipindesseemberikadada delipi				the state of the s	hidanelin, yle godleddio y e y olaeth	inter, ni dynkous besker dabbenni	in ya khasalaa aga ka	
level (dβuV/m	40- 30- 20-	ilikal dipakan mendelakah berberakan berberakan berberakan berberakan berberakan berberakan berberakan berbera			2483.5 Frequency (MH		shinanila yaka waka kilika ila ka aka kili	inas, mid philosophis papitar pabanni	in the work of the training and the	2500
level (dBuV/m	30- 20- 10- 0.0- 2470	Results	Factor	Limit	2483.5		Table (o)	Height	ANT	2500
level (dBuV/m	30- 20- 10- 2470	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	2483.5 Frequency (MF	łz)				
level (dBuV/m	40- 30- 20- 10- 0.0- 2470				2483.5 Frequency (MH	łz)		Height		2500
M/(Ngp) level	40- 30- 20- 10- 2470 Frequency (MHz)	(dBuV/m)	(dB)	(dBuV/m)	2483.5 Frequency (MI Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	2500 Verdict

Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.

2. For Restricted band test, the three modulation modes of GFSK, Pi/4D-QPSK and 8DPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

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8.0 Antenna Requirement

Applicable Standard

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

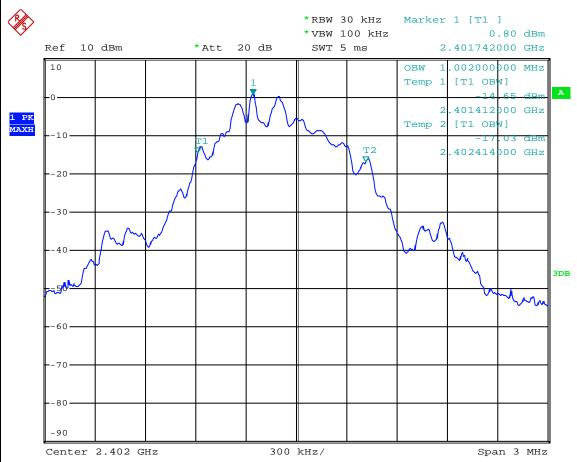
This product has a Chip antenna. The antenna gain is 2.73dBi Max. It fulfills the requirement of this section. Test Result: Pass

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9.0 20dB Bandwidth Measurement				
GFSK				
Product:	TWS earbuds	Test Mode:	Keep transmitting	
Mode	Keeping Transmitting	Test Voltage	DC3.7V	
Temperature	24 deg. C,	Humidity	56% RH	
Test Result:	Pass	Detector	PK	
20dB Bandwidth	1.002MHz			



Date: 5.JAN.2023 10:34:11

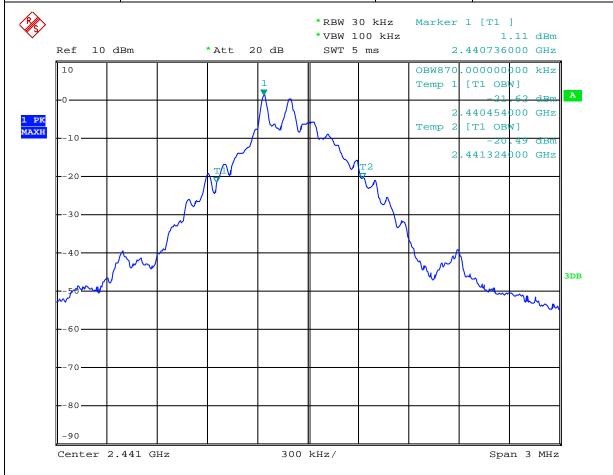
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GFSK			
Product:	TWS earbuds	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	870.00kHz		



Date: 5.JAN.2023 10:38:11

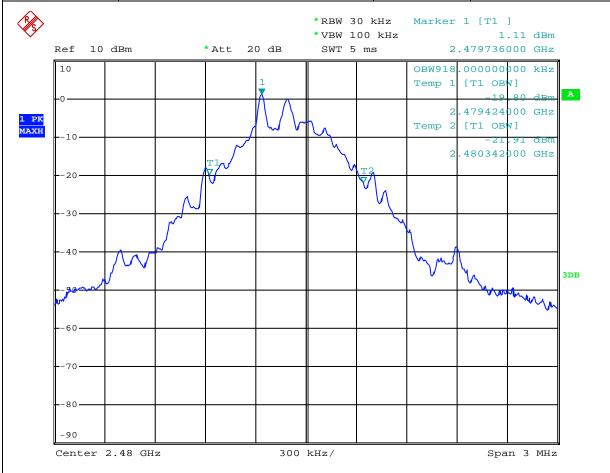
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GFSK			
Product:	TWS earbuds	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	918.00kHz		



Date: 5.JAN.2023 10:40:12

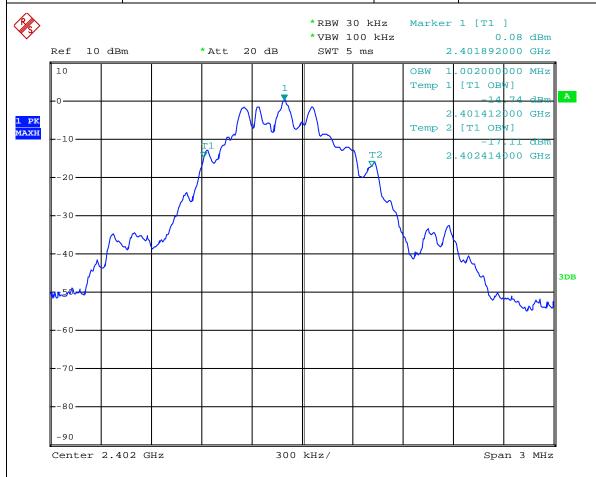
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Л/4DQPSK			
Product:	TWS earbuds	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.002MHz		



Date: 5.JAN.2023 10:46:06

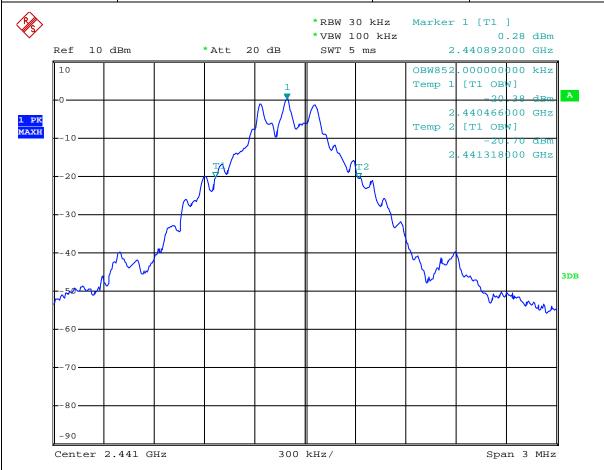
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Л/4DQPSK			
Product:	TWS earbuds	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	852.00kHz		



Date: 5.JAN.2023 10:44:02

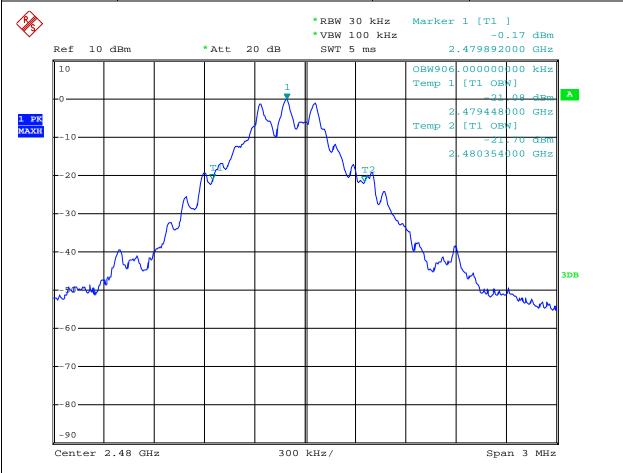
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Л/4DQPSK			
Product:	TWS earbuds	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	906.00kHz		



Date: 5.JAN.2023 10:41:55

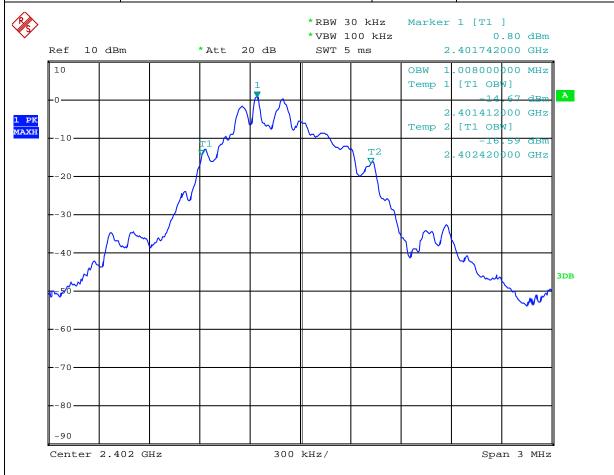
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8DPSK			
Product:	TWS earbuds	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.008MHz		



Date: 5.JAN.2023 10:48:09

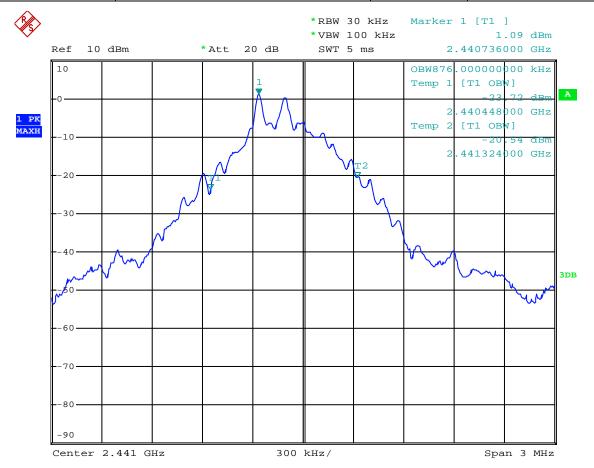
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8DPSK			
Product:	TWS earbuds	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	876.00kHz		



Date: 5.JAN.2023 10:51:05

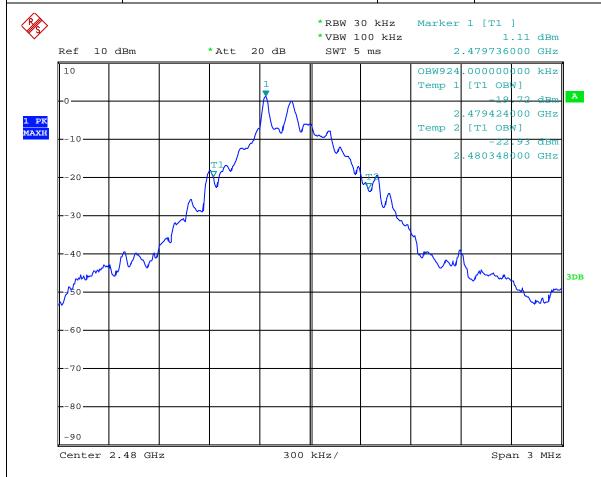
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8DPSK			
Product:	TWS earbuds	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	924.00kHz		



Date: 5.JAN.2023 10:52:30

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10.0 FCC ID Label

FCC ID: 2AS7V-TWS112

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



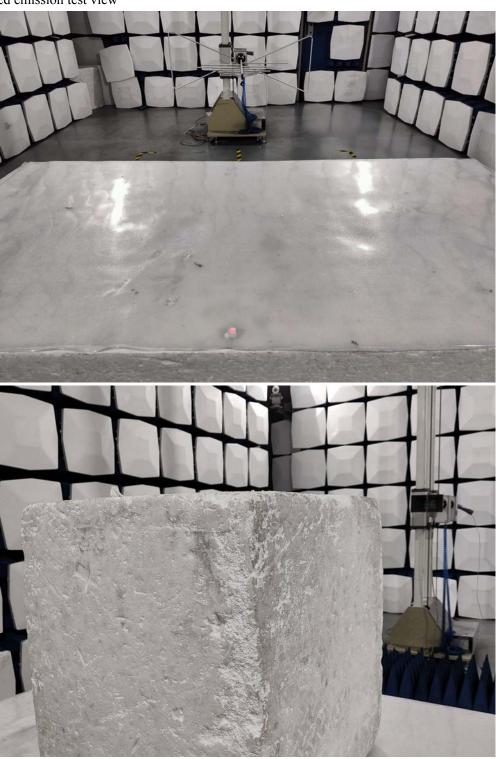
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Radiated emission test view



The report refers only to the sample tested and does not apply to the bulk.

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adopt any other remedies which may be appropriate.

Date: 2023-01-10



11.2 Photographs – EUT

Outside View - charger base



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Outside View - charger base



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Outside View - charger base



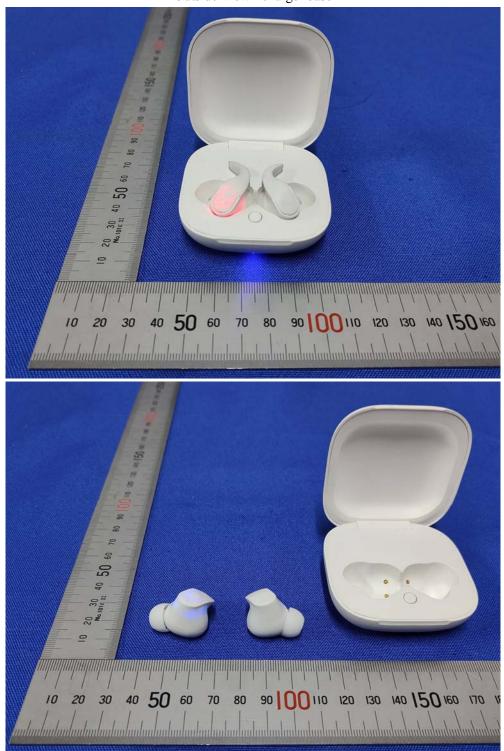
The report refers only to the sample tested and does not apply to the bulk.

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Date: 2023-01-10



Outside View - charger base



The report refers only to the sample tested and does not apply to the bulk.

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Outside View - Left earphone



The report refers only to the sample tested and does not apply to the bulk.

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Outside View - Left earphone



The report refers only to the sample tested and does not apply to the bulk.

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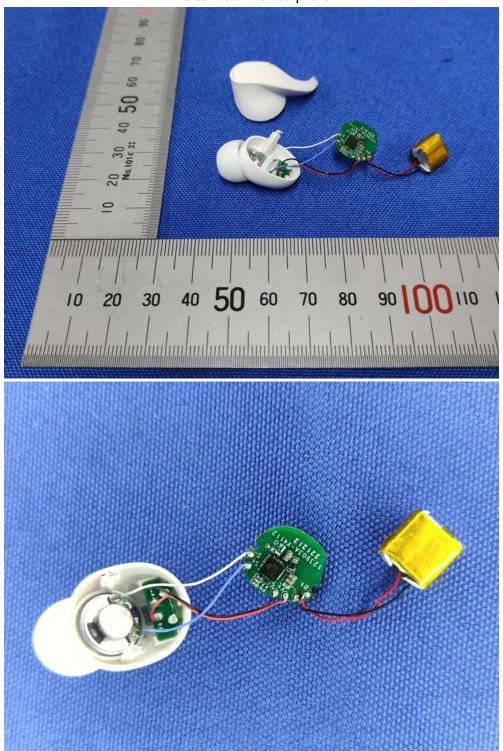
Outside View - Left earphone



Date: 2023-01-10



Inside View - Left earphone



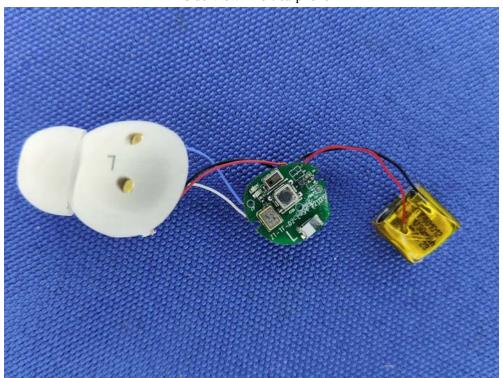
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Inside View - Left earphone



Date: 2023-01-10



Outside View - Right earphone



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Date: 2023-01-10



Outside View - Right earphone



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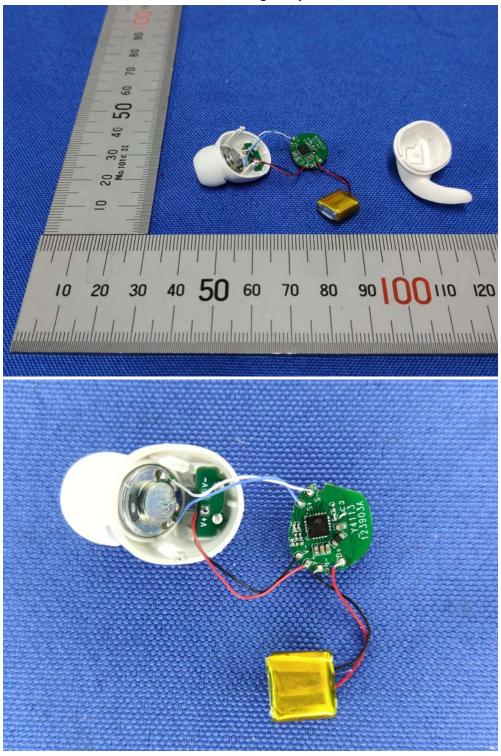
Outside View - Right earphone



Date: 2023-01-10



Inside View - Right earphone



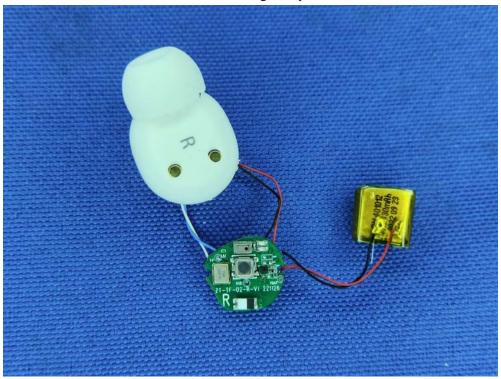
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Inside View - Right earphone



-- End of the report--