

TEST REPORT



Report No.: TW2310264E

Applicant: Maxell Corporation of America

Product: Jelleez TWS Bluetooth Earphones

Model No.: TW MINI EB, TW MINI-WHT, TW MINI-BLK, TW185B, 199460, 199461, JTW-WHT, JTW-BLK

Trademark: MAXELL

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

A handwritten signature in black ink that reads "Terry Tang".

Terry Tang

Manager

Dated: November 06, 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

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Special Statement:

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

CAB identifier: CN0033

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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 States
Registration Number: 744189
For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: Maxell Corporation of America
Address: 3 Garret Mountain Plaza Woodland Park, NJ 07424 USA
Telephone: --
Fax: --

1.3 Description of EUT

Product: Jelleez TWS Bluetooth Earphones
Manufacturer: Shenzhen Swetz Sound Technology Co., Limited
Address: No.19, Jianlong Street, Baoan Community, Yuanshan, Longgang District, Shenzhen, Guangdong, P.R.C.
Trademark: MAXELL
Model Number: TW MINI EB
Additional Model Name: TW MINI-WHT, TW MINI-BLK, TW185B, 199460, 199461, JTW-WHT, JTW-BLK
Rating: DC5V input or Built-in DC3.7V, 60mAh Li-ion battery for earphones and DC5V input or Built-in DC3.7V, 420mAh Li-ion battery for charger base.
Hardware Version: V1.4
Software Version: SDK_AB537XA2_S178_20200707
Serial No.: 231101
Operation Frequency: 2402-2480MHz
Modulation Type: GFSK, JI/4DQPSK, 8DPSK
Number of Channels: 79
Channel Separation: 1MHz
Antenna Designation: Chip antenna with gain 2.25dB maximum (Get from the antenna specification)

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1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2023-10-20 to 2023-11-06

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	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100253	2023-07-14	2024-07-13
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2023-07-14	2024-07-13
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2023-07-14	2024-07-13
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	2023-07-14	2024-07-13
Power sensor	Anritsu	MA2491A	32263	2023-07-14	2024-07-13
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	2023-07-14	2024-07-13
EMI Test Receiver	RS	ESCS 30	834115/006	2023-07-14	2024-07-13
Spectrum	HP/Agilent	E4407B	MY50441392	2023-07-14	2024-07-13
Spectrum	RS	FSP	1164.4391.38	2023-07-14	2024-07-13
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	--	2023-07-14	2024-07-13
RF Cable	Zhengdi	7m	--	2023-07-14	2024-07-13
Pre-Amplifier	Schwarebeck	BBV9743	#218	2023-07-14	2024-07-13
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2023-07-14	2024-07-13
LISN	SCHAFFNER	NNB42	00012	2023-07-14	2024-07-13
ESPI Test Receiver	R&S	ESPI 3	100379	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13

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
FCC Part 15.215(c)	20dB bandwidth	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

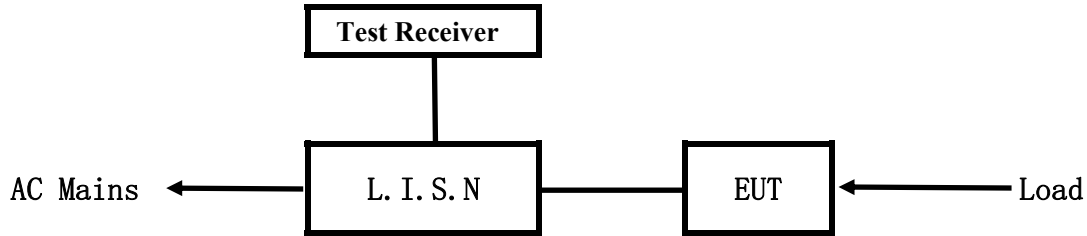
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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5.0 Power Line Conducted Emission Test

5.1 Schematics of the test



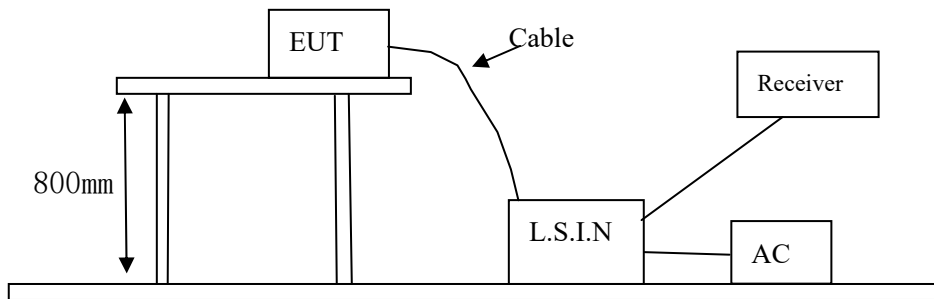
EUT: Equipment Under Test

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
Jelleez TWS Bluetooth Earphones	Shenzhen Swetz Sound Technology Co., Limited	TW MINI EB, TW MINI-WHT, TW MINI-BLK, TW185B, 199460, 199461, JTW-WHT, JTW-BLK	WKA-TW185B

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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:
- *Decreasing linearly with logarithm of frequency.
 - 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)

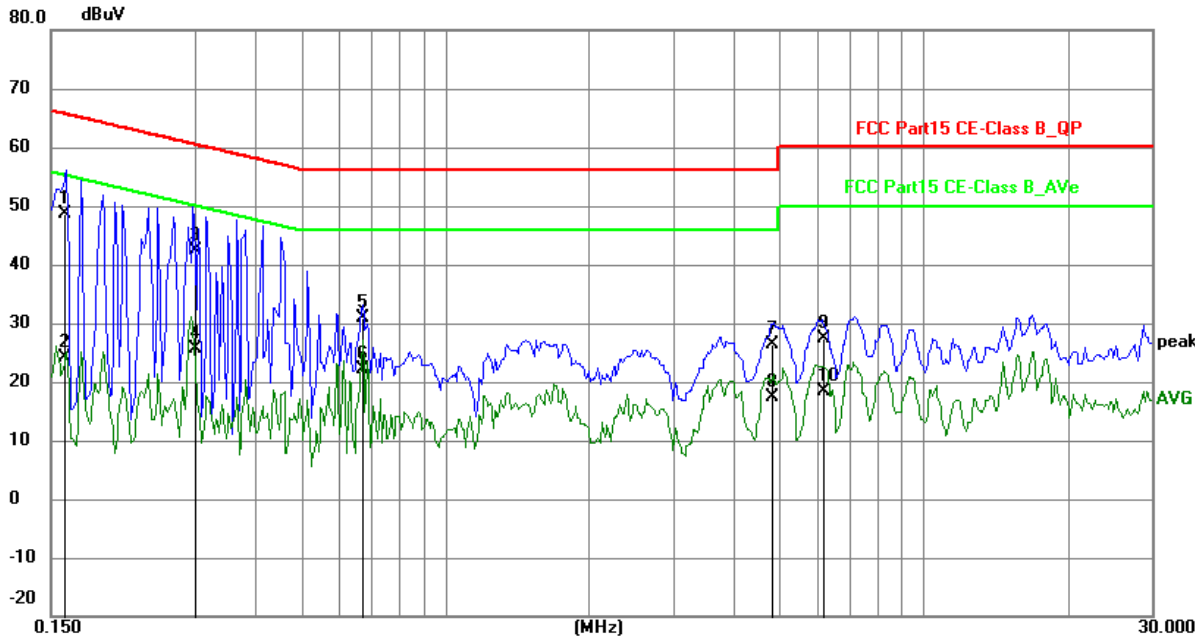
EUT Operating Environment

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	0.1598	38.75	9.78	48.53	65.47	-16.94	QP	P
2	0.1598	14.46	9.78	24.24	55.47	-31.23	AVG	P
3	0.2987	32.57	9.76	42.33	60.28	-17.95	QP	P
4	0.2987	15.89	9.76	25.65	50.28	-24.63	AVG	P
5	0.6687	21.10	9.78	30.88	56.00	-25.12	QP	P
6	0.6687	12.28	9.78	22.06	46.00	-23.94	AVG	P
7	4.8224	16.57	9.92	26.49	56.00	-29.51	QP	P
8	4.8224	7.47	9.92	17.39	46.00	-28.61	AVG	P
9	6.1534	17.35	9.98	27.33	60.00	-32.67	QP	P
10	6.1534	8.50	9.98	18.48	50.00	-31.52	AVG	P

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

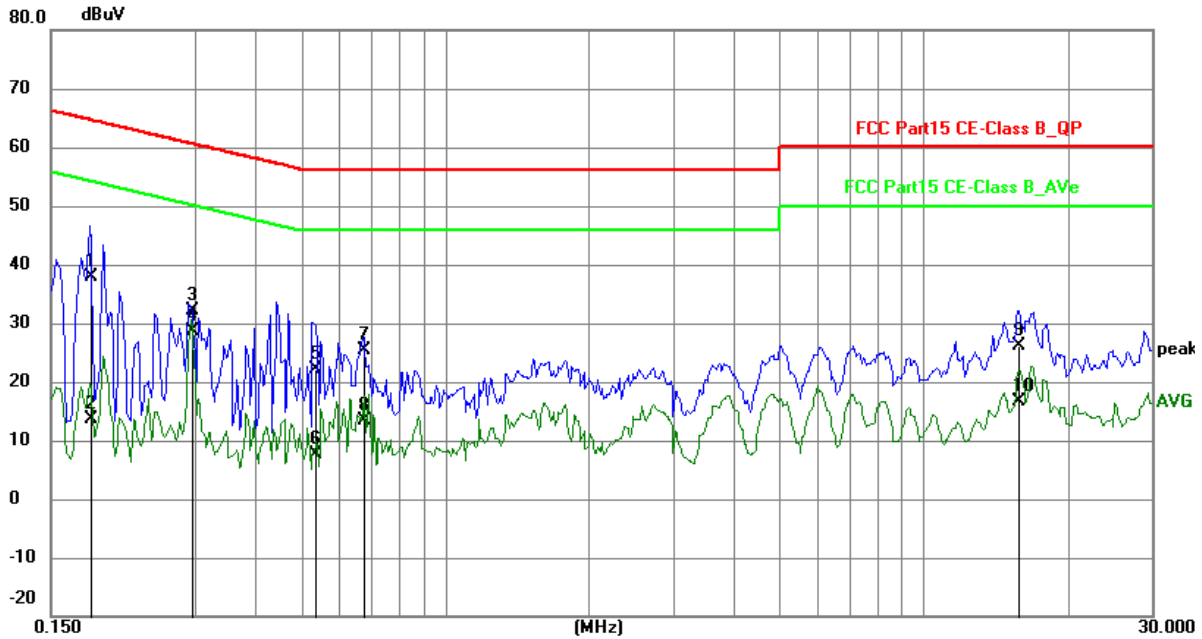
EUT Operating Environment

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	0.1815	28.16	9.76	37.92	64.42	-26.50	QP	P
2	0.1815	3.97	9.76	13.73	54.42	-40.69	AVG	P
3	0.2943	22.35	9.76	32.11	60.40	-28.29	QP	P
4	0.2943	18.79	9.76	28.55	50.40	-21.85	AVG	P
5	0.5322	12.47	9.77	22.24	56.00	-33.76	QP	P
6	0.5322	-2.25	9.77	7.52	46.00	-38.48	AVG	P
7	0.6719	15.57	9.78	25.35	56.00	-30.65	QP	P
8	0.6719	3.57	9.78	13.35	46.00	-32.65	AVG	P
9	15.8014	15.78	10.43	26.21	60.00	-33.79	QP	P
10	15.8014	6.27	10.43	16.70	50.00	-33.30	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 9kHz to 25 GHz was investigated. The frequency spectrum is set as follows:

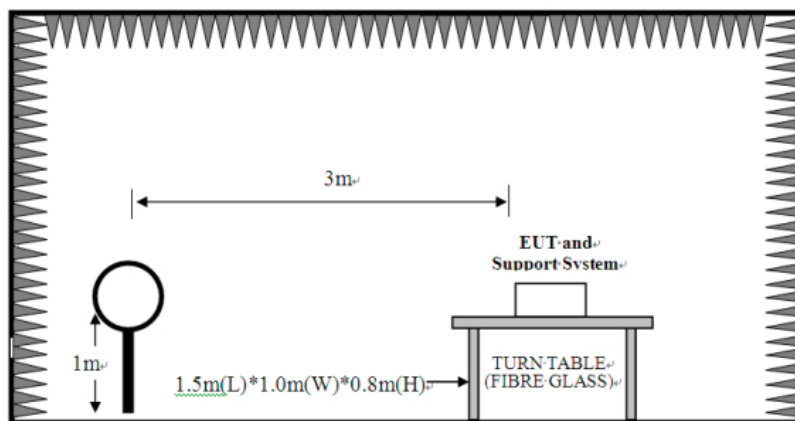
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

(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



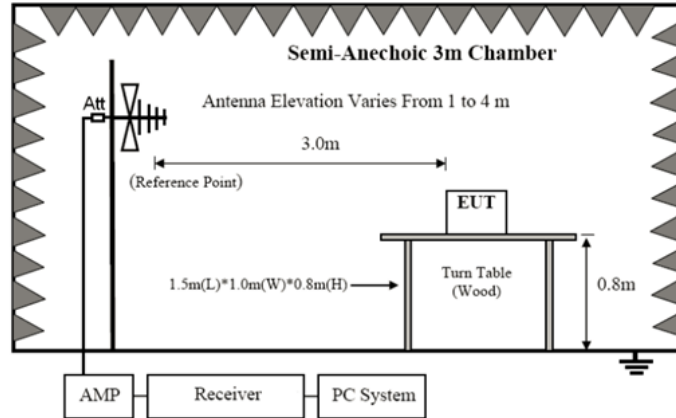
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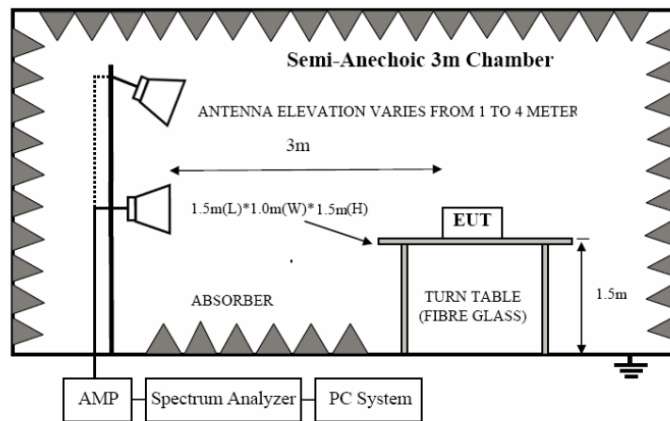
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For radiated emissions from 30MHz to 1GHz



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 (MHz)	Field Strength of Fundamental (3m)		Field Strength of Harmonics (3m)	
	mV/m	dBuV/m	uV/m	dBuV/m

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2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)
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- 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.

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	$20\log(2400/F(\text{kHz})) + 40\log(300/3)$
0.490-1.705	3	$20\log(24000/F(\text{kHz})) + 40\log(30/3)$
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 handheld 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.
 8. The left and right earphones are identical in the schematics, but the PCB layout and part placement are different. The left and right earphones are test. In the test report only the worst case is recorded and the left earphone is the worst case.

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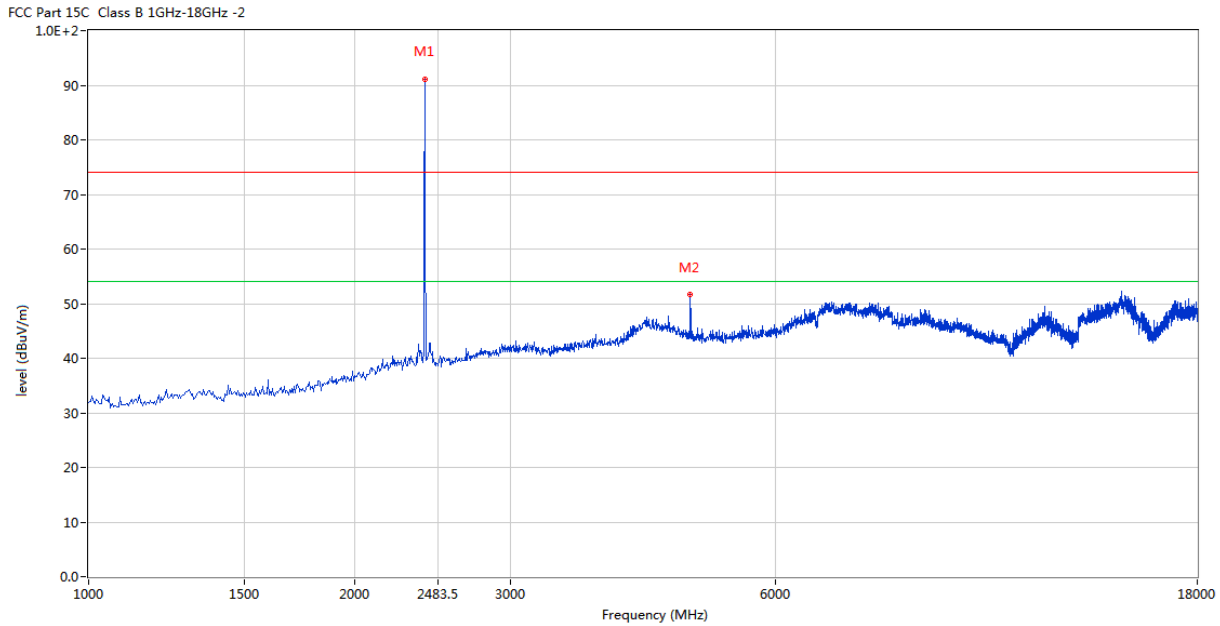


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	91.15	-3.57	114.0	-22.85	Peak	83.00	100	Horizontal	Pass
2	4802.799	52.10	3.12	74.0	-21.90	Peak	66.00	100	Horizontal	Pass

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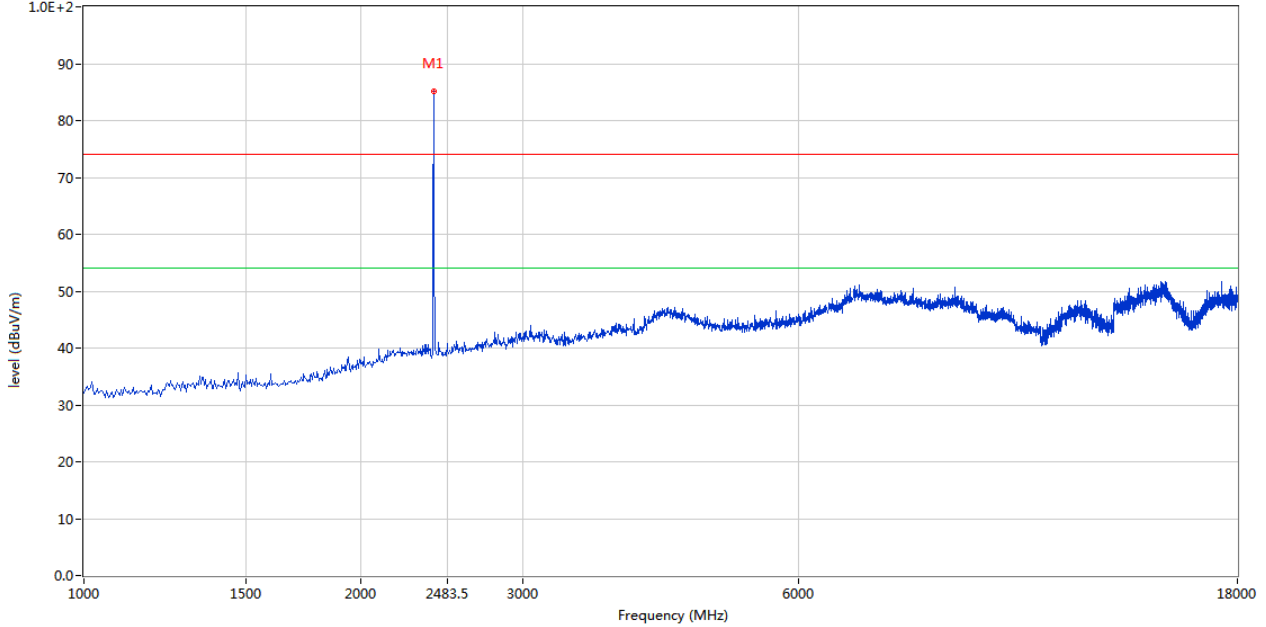
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Vertical

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	85.18	-3.57	114.0	-28.82	Peak	146.00	100	Vertical	Pass

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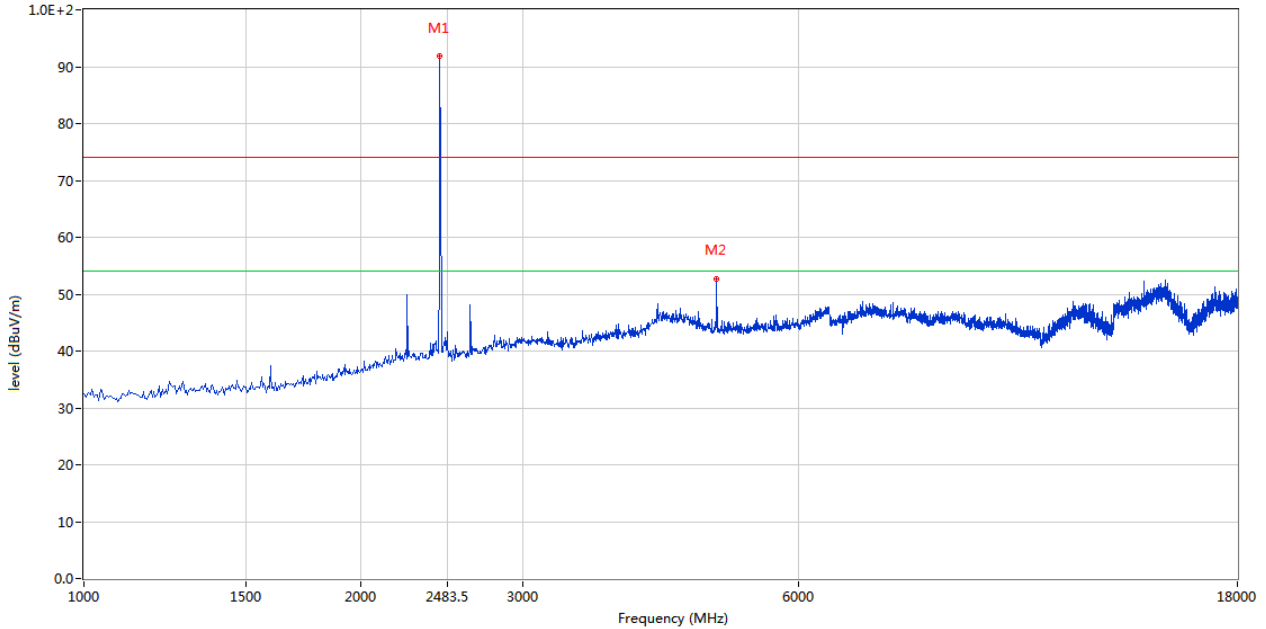
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2441	91.85	-3.57	114.0	-22.18	Peak	63.00	100	Horizontal	Pass
2	4879.280	52.76	3.20	74.0	-21.24	Peak	63.00	100	Horizontal	Pass

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

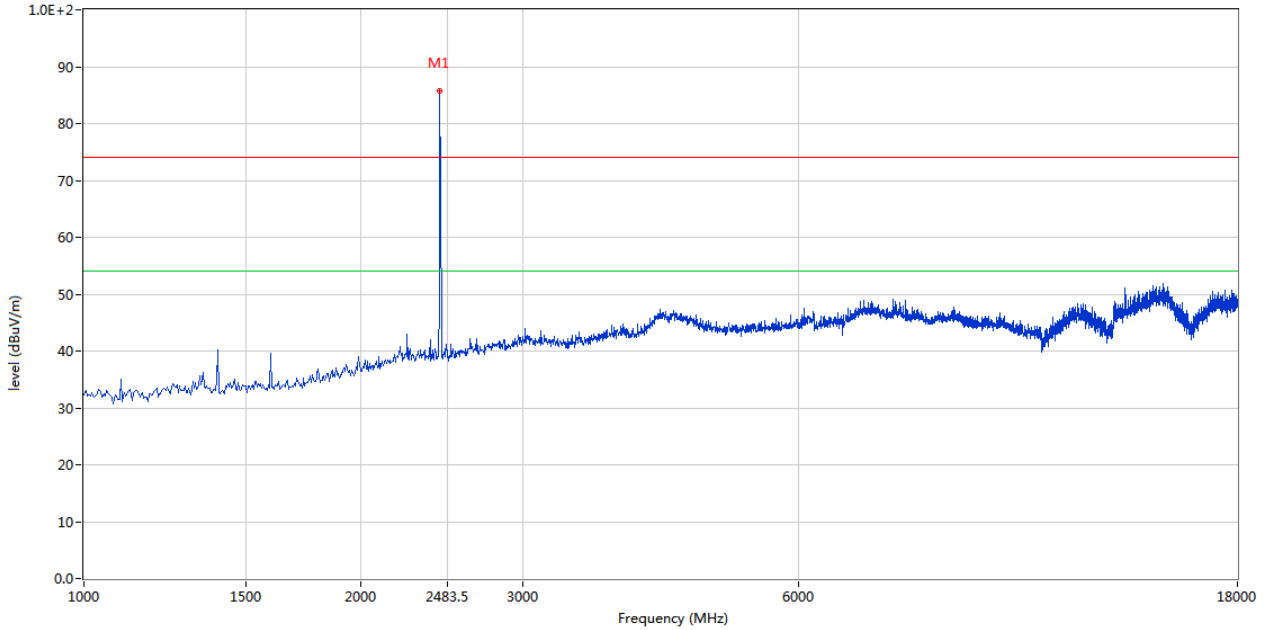
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Vertical

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2441	85.68	-3.57	114.0	-28.32	Peak	1.00	100	Vertical	Pass

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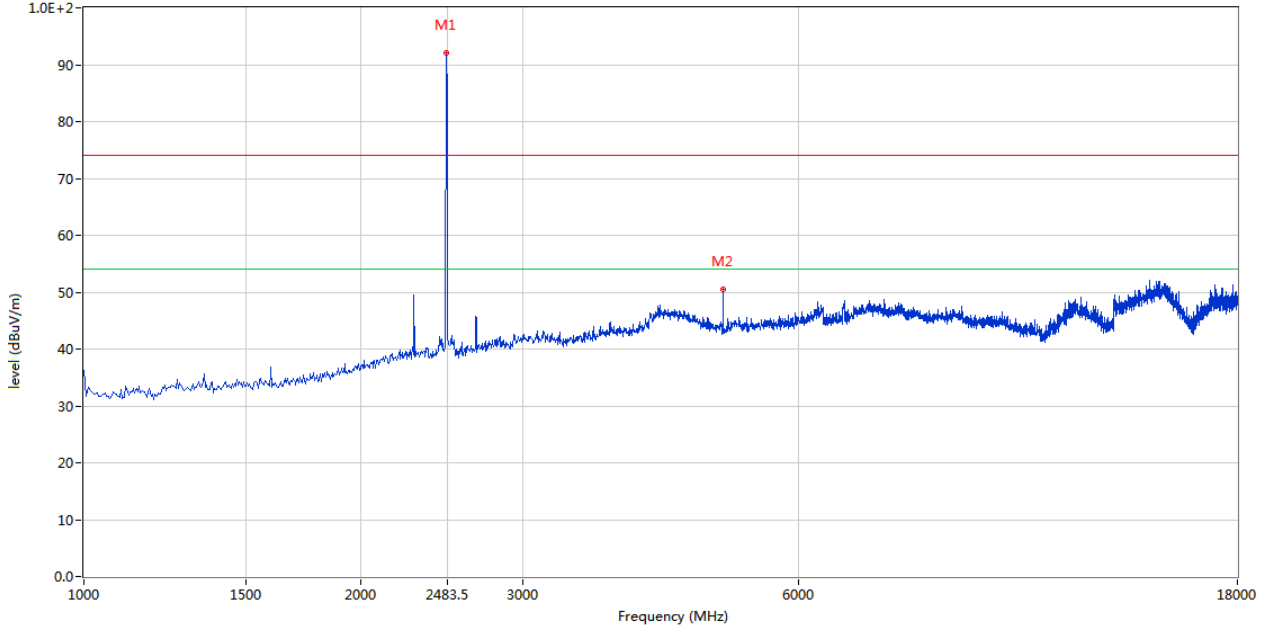
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	91.98	-3.57	114.0	-22.02	Peak	174.00	100	Horizontal	Pass
2	4960.010	50.45	3.36	74.0	-23.55	Peak	252.00	100	Horizontal	Pass

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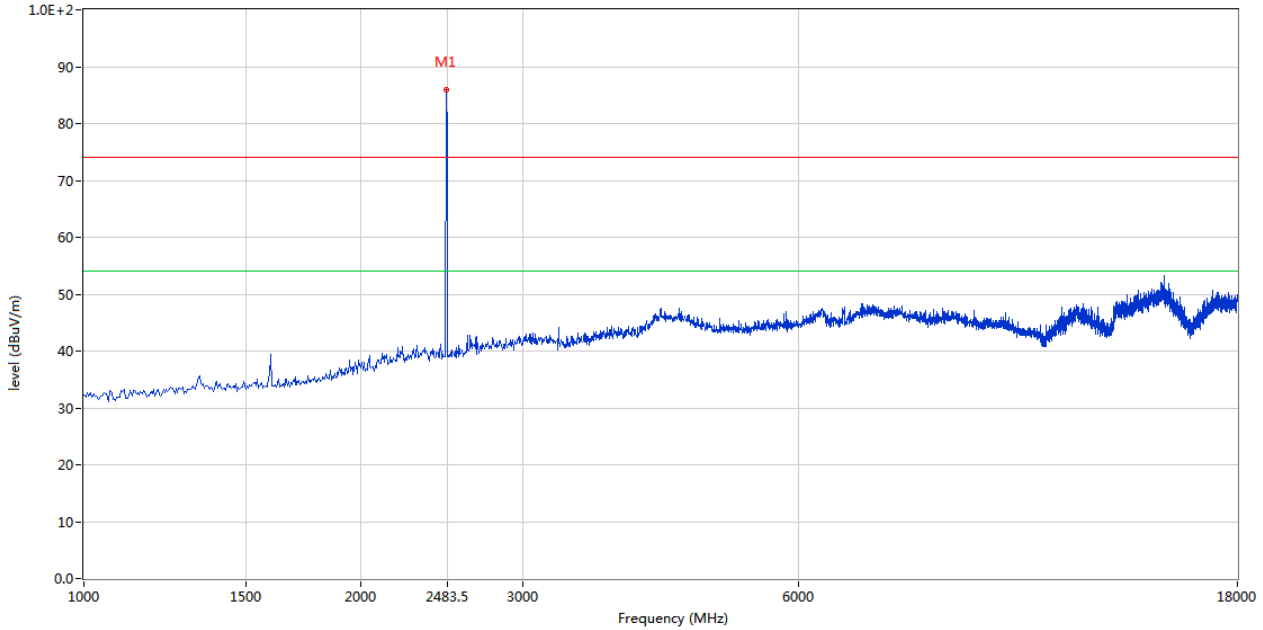
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Vertical

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	85.88	-3.57	114.0	-28.12	Peak	10.00	100	Vertical	N/A

- 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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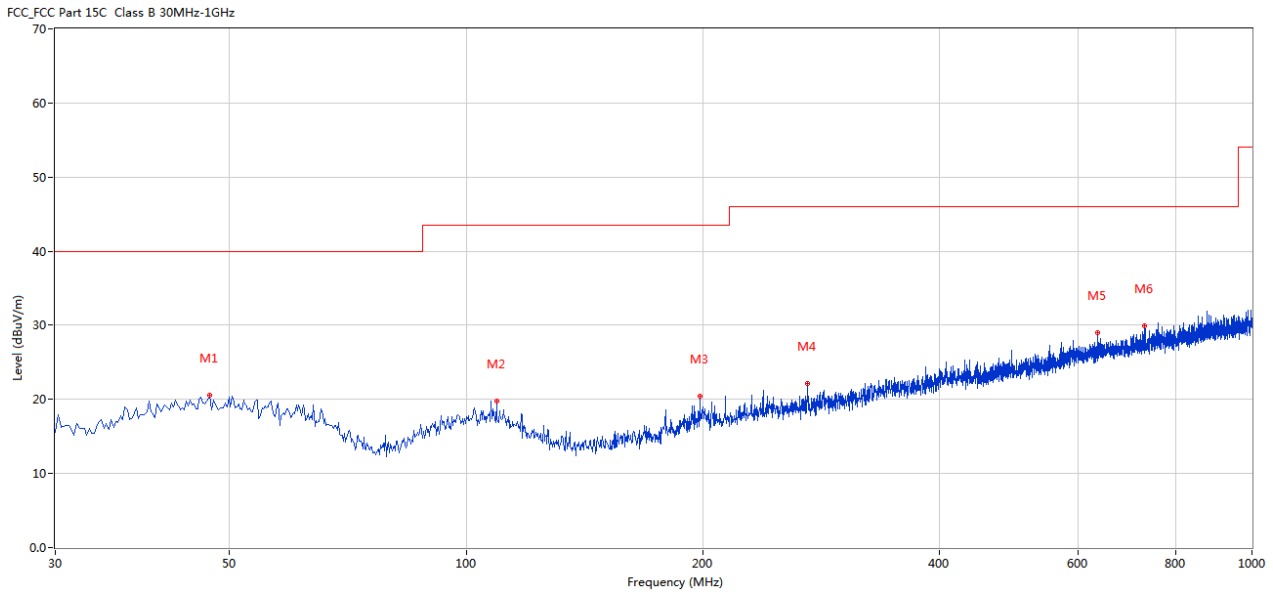


B. General Radiated Emission Data
Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	47.213	20.53	-11.41	40.0	19.47	Peak	127.00	100	Horizontal	Pass
2	109.278	19.81	-13.56	43.5	23.69	Peak	235.00	100	Horizontal	Pass
3	198.253	20.38	-13.49	43.5	23.12	Peak	191.00	100	Horizontal	Pass
4	272.197	22.16	-11.69	46.0	23.84	Peak	97.00	100	Horizontal	Pass
5	636.098	29.06	-4.77	46.0	16.94	Peak	154.00	100	Horizontal	Pass
6	730.892	29.98	-3.71	46.0	16.02	Peak	341.00	100	Horizontal	Pass

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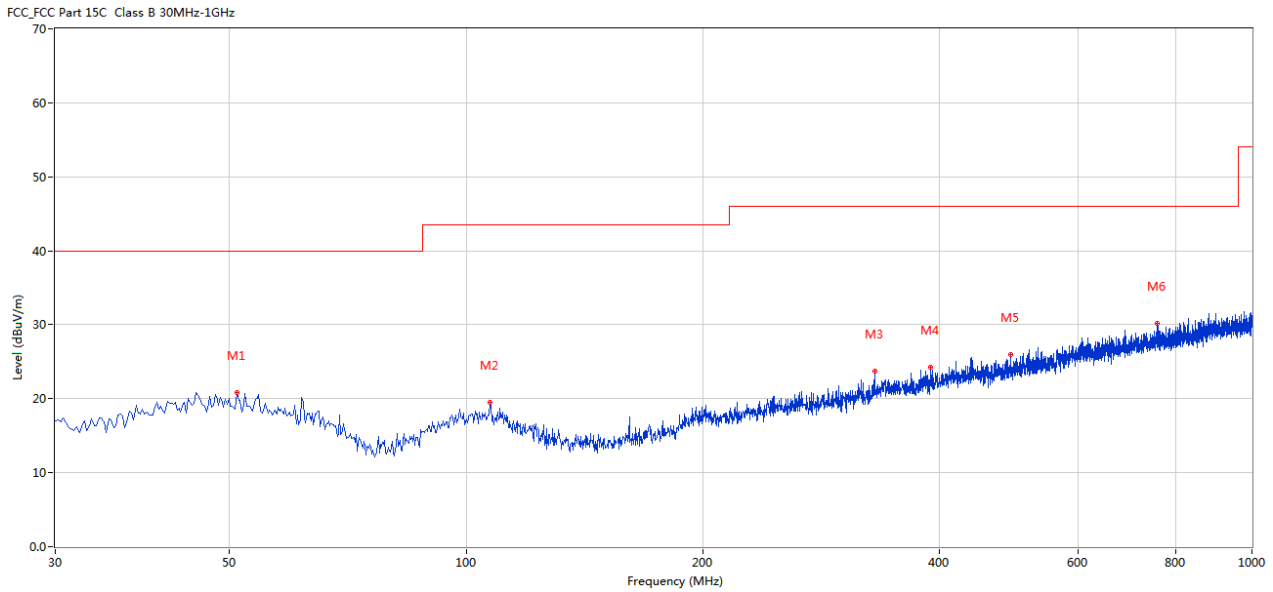


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	51.092	20.86	-11.41	40.0	19.14	Peak	55.00	100	Vertical	Pass
2	107.096	19.52	-13.39	43.5	23.98	Peak	204.00	100	Vertical	Pass
3	330.867	23.75	-10.17	46.0	22.25	Peak	306.00	100	Vertical	Pass
4	390.022	24.31	-8.88	46.0	21.69	Peak	311.00	100	Vertical	Pass
5	493.544	25.97	-7.15	46.0	20.03	Peak	200.00	100	Vertical	Pass
6	758.530	30.18	-3.24	46.0	15.82	Peak	138.00	100	Vertical	Pass

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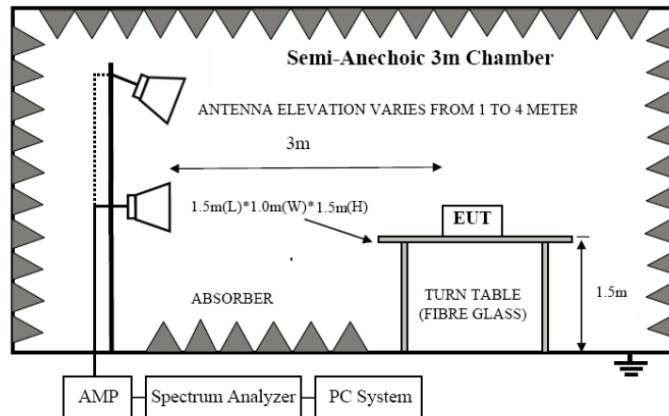


7. Band Edge

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.

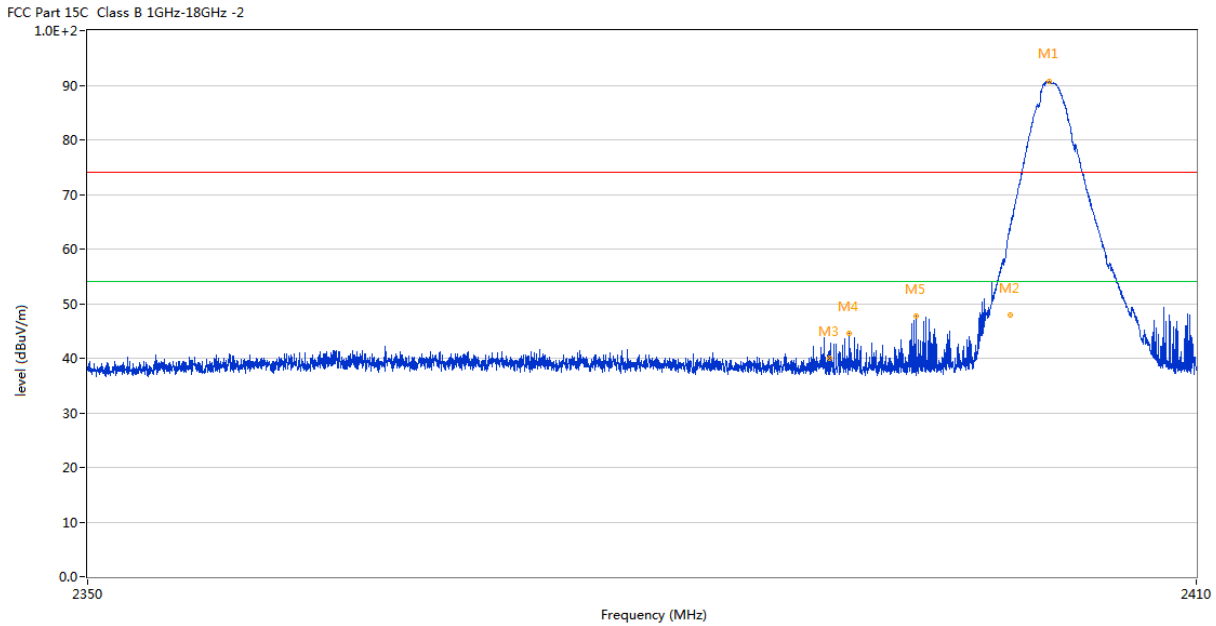
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7.6 Test Result

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

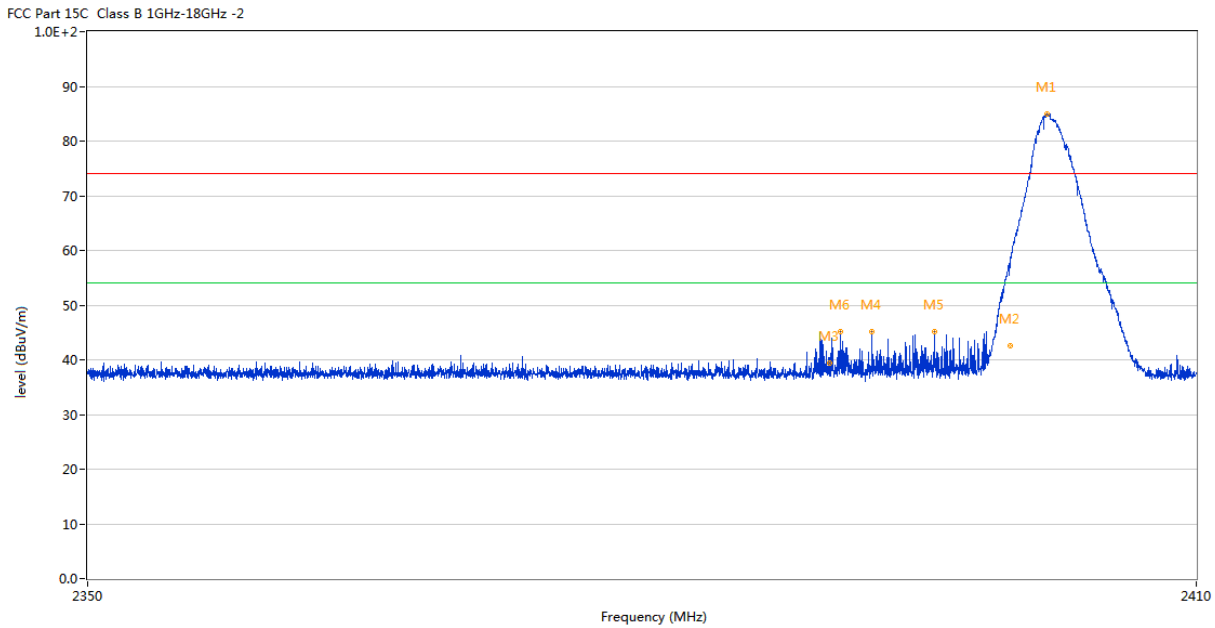


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2401.977	90.73	-3.57	74.0	16.73	Peak	281.00	100	Horizontal	N/A
2	2400.000	61.83	-3.57	74.0	-12.17	Peak	281.00	100	Horizontal	Pass
2**	2400.000	48.31	-3.57	54.0	-5.69	AV	281.00	100	Horizontal	Pass
3	2390.000	39.95	-3.53	74.0	-34.05	Peak	148.67	100	Horizontal	Pass
4	2391.075	44.54	-3.53	74.0	-29.46	Peak	173.00	100	Horizontal	Pass
5	2394.674	47.65	-3.55	74.0	-26.35	Peak	271.00	100	Horizontal	Pass

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Product:	Jelleez TWS Bluetooth Earphones	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2401.842	84.91	-3.57	74.0	10.91	Peak	149.00	100	Vertical	N/A
2	2400.000	56.34	-3.57	74.0	-17.66	Peak	149.00	100	Vertical	Pass
2**	2400.000	42.78	-3.57	54.0	-11.22	AV	149.00	100	Vertical	Pass
3	2390.000	39.32	-3.53	74.0	-34.68	Peak	68.67	100	Vertical	Pass
4	2392.304	45.18	-3.54	74.0	-28.82	Peak	332.00	100	Vertical	Pass
5	2395.694	45.17	-3.55	74.0	-28.83	Peak	138.00	100	Vertical	Pass
6	2390.550	45.18	-3.53	74.0	-28.82	Peak	16.00	100	Vertical	Pass

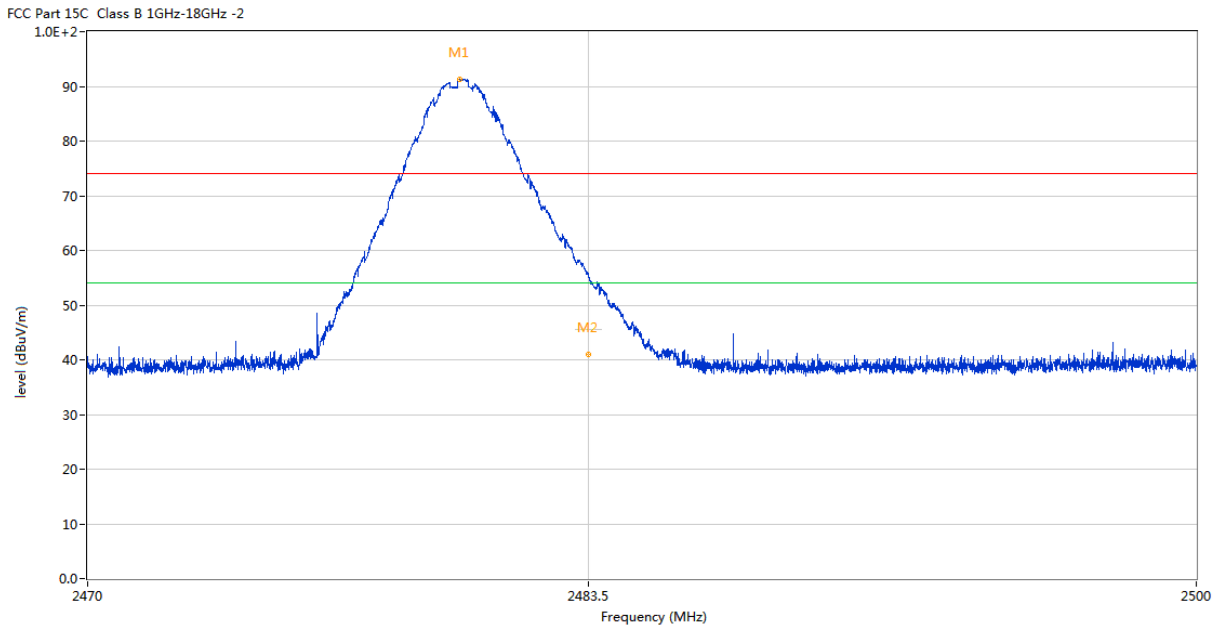
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Product:	Jelleez TWS Bluetooth Earphones	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480.017	91.20	-3.57	74.0	17.20	Peak	267.00	100	Horizontal	N/A
2	2483.500	55.57	-3.57	74.0	-18.43	Peak	267.00	100	Horizontal	Pass
2**	2483.500	40.54	-3.57	54.0	-13.46	AV	267.00	100	Horizontal	Pass

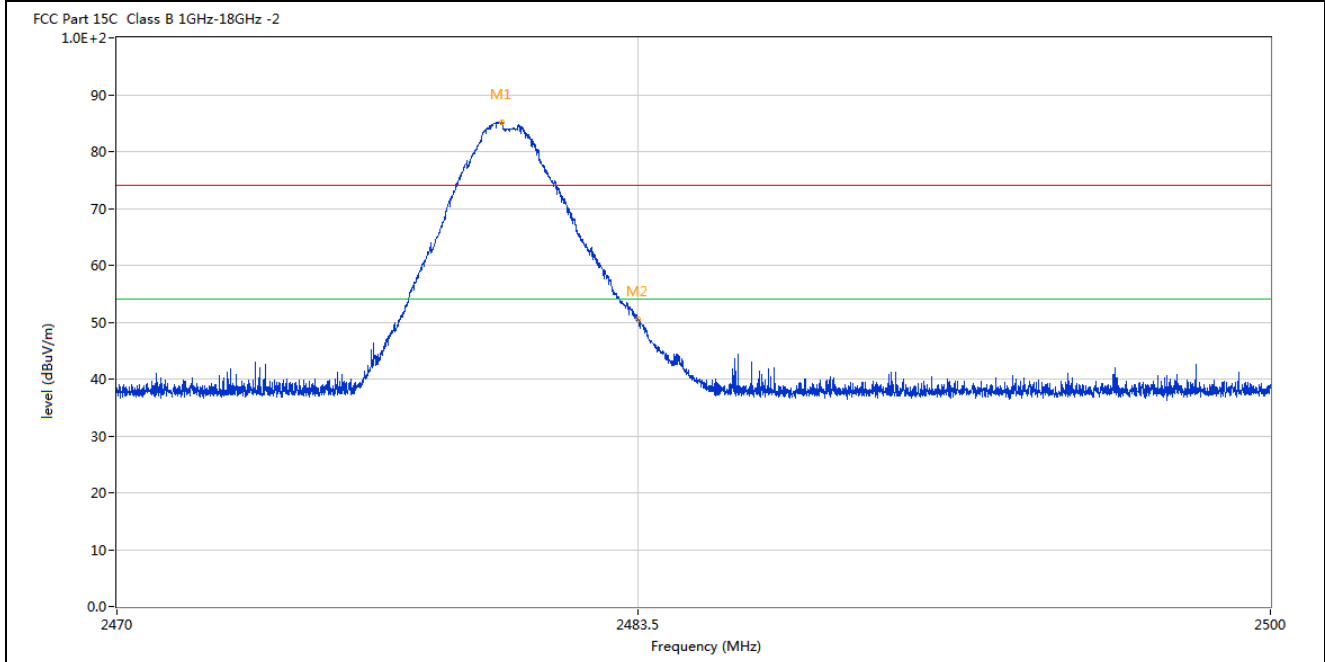
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Product:	Jelleez TWS Bluetooth Earphones	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2479.973	85.12	-3.57	74.0	11.12	Peak	157.00	100	Vertical	N/A
2	2483.500	50.48	-3.57	74.0	-23.52	Peak	157.00	100	Vertical	Pass

- 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.
 3. The left and right earphones are identical in the schematics, but the PCB layout and part placement are different. The left and right earphones are test. In the test report only the worst case is recorded and the left earphone is 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 with gain 2.25dBi maximum. It fulfills the requirement of this section.

Test Result: Pass

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

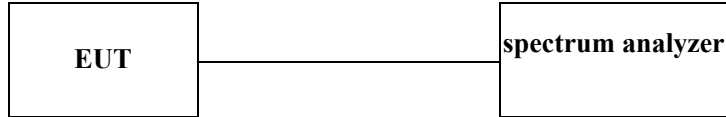
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9.0 20dB Bandwidth Measurement

Test Configuration



Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW.

The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

Limit

N/A

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

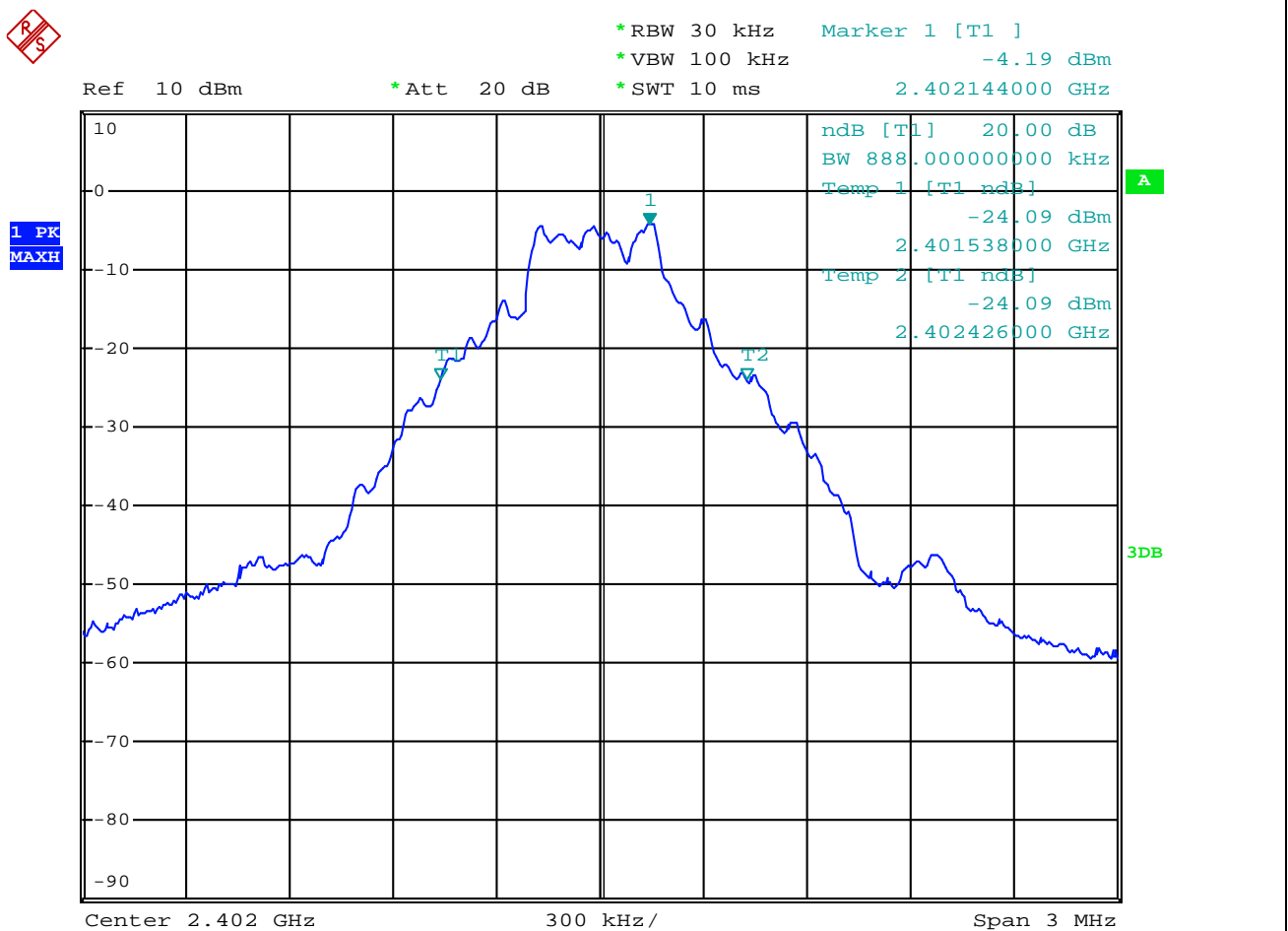
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Test Result

GFSK			
Product:	Jelleez TWS Bluetooth Earphones	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	888kHz	--	--



Date: 6.NOV.2023 13:56:06

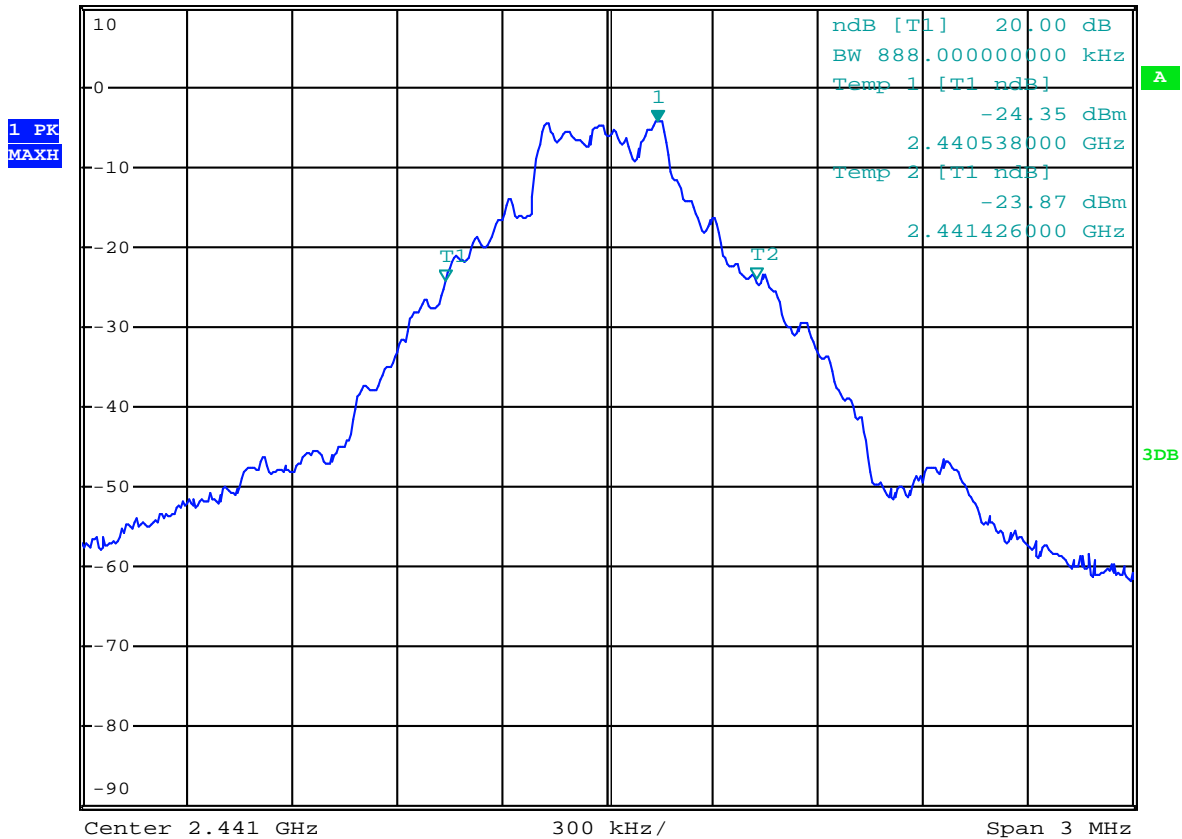
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GFSK			
Product:	Jelleez TWS Bluetooth Earphones	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	888kHz	--	--



*RBW 30 kHz Marker 1 [T1]
 *VBW 100 kHz -4.21 dBm
 *Att 20 dB *SWT 10 ms 2.441144000 GHz
 Ref 10 dBm



Date: 6.NOV.2023 14:04:43

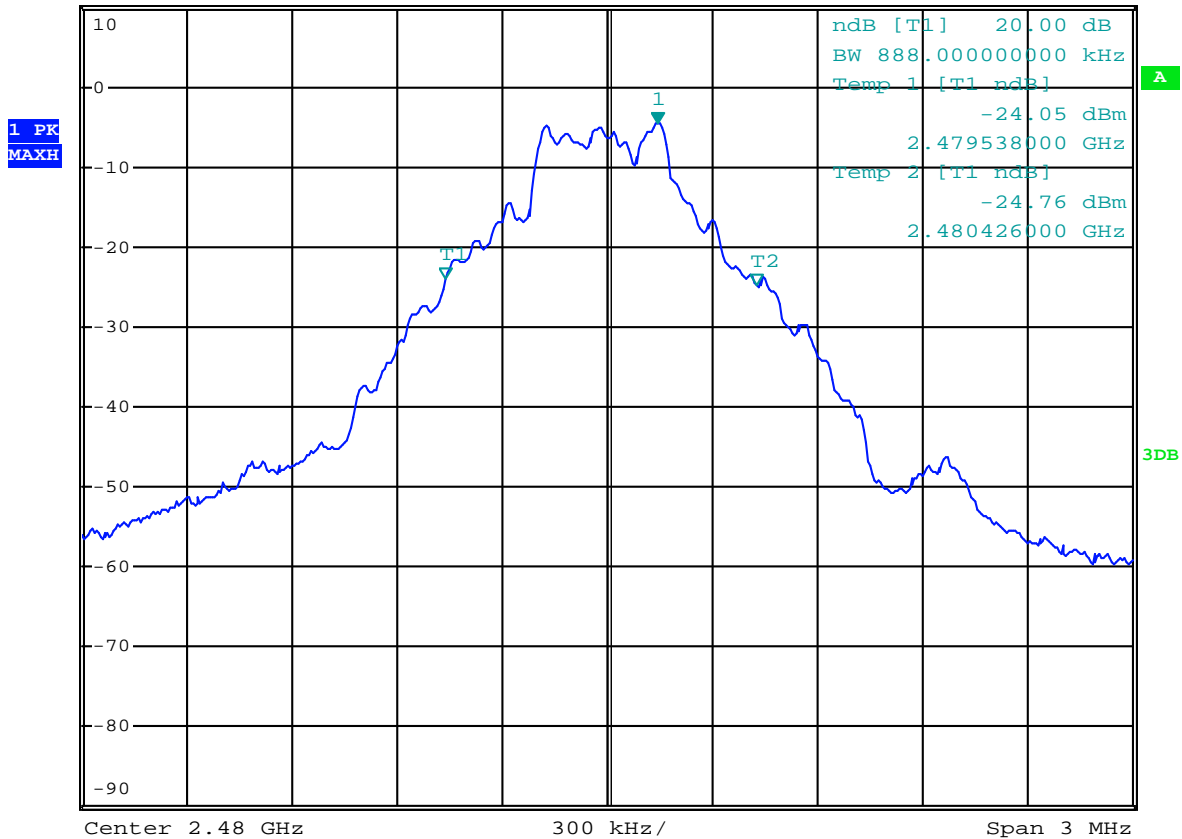
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GFSK			
Product:	Jelleez TWS Bluetooth Earphones	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	888kHz	--	--



*RBW 30 kHz Marker 1 [T1]
 *VBW 100 kHz -4.55 dBm
 *Att 20 dB *SWT 10 ms 2.480144000 GHz
 Ref 10 dBm



Date: 6.NOV.2023 14:08:52

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π/4DQPSK			
Product:	Jelleez TWS Bluetooth Earphones	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	1.224MHz	--	--

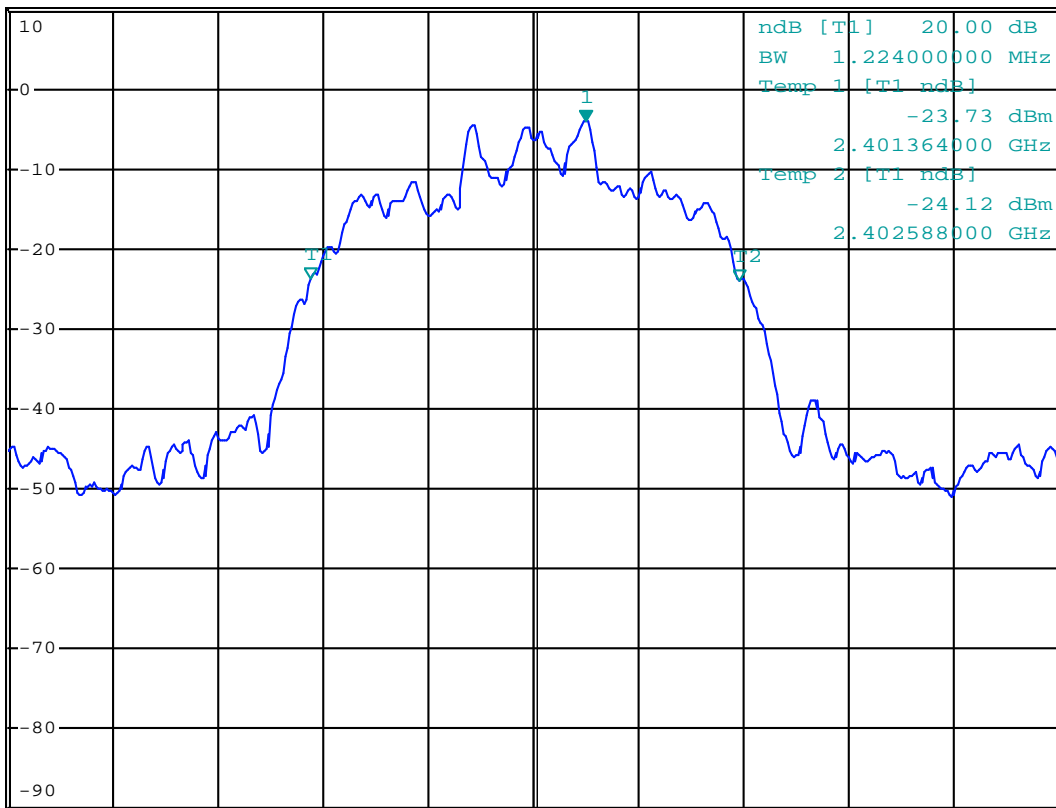


*RBW 30 kHz Marker 1 [T1]
 *VBW 100 kHz -3.95 dBm
 *SWT 10 ms 2.402150000 GHz

Ref 10 dBm

*Att 20 dB

1 PK
MAXH



Center 2.402 GHz

300 kHz /

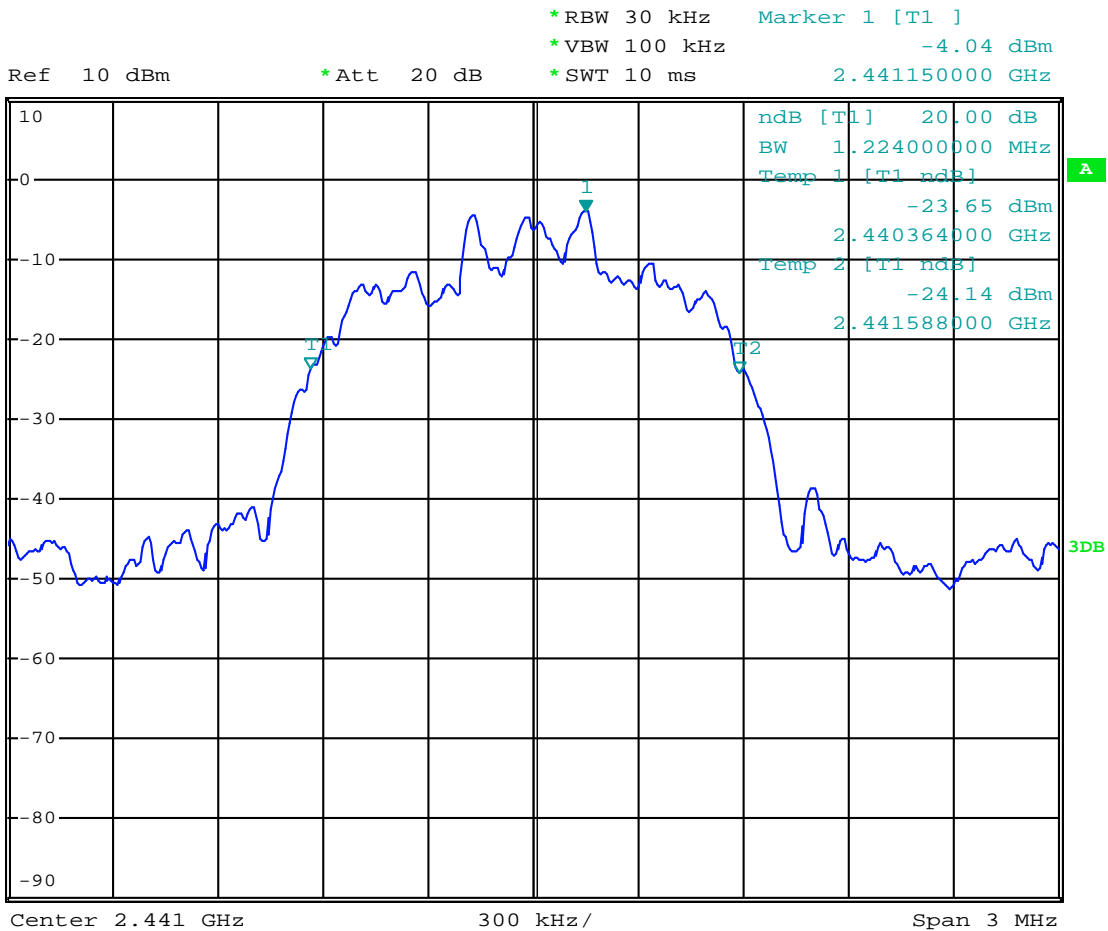
Span 3 MHz

Date: 6.NOV.2023 14:21:17

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π/4DQPSK			
Product:	Jelleez TWS Bluetooth Earphones	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	1.224MHz	--	--



Date: 6.NOV.2023 14:18:01

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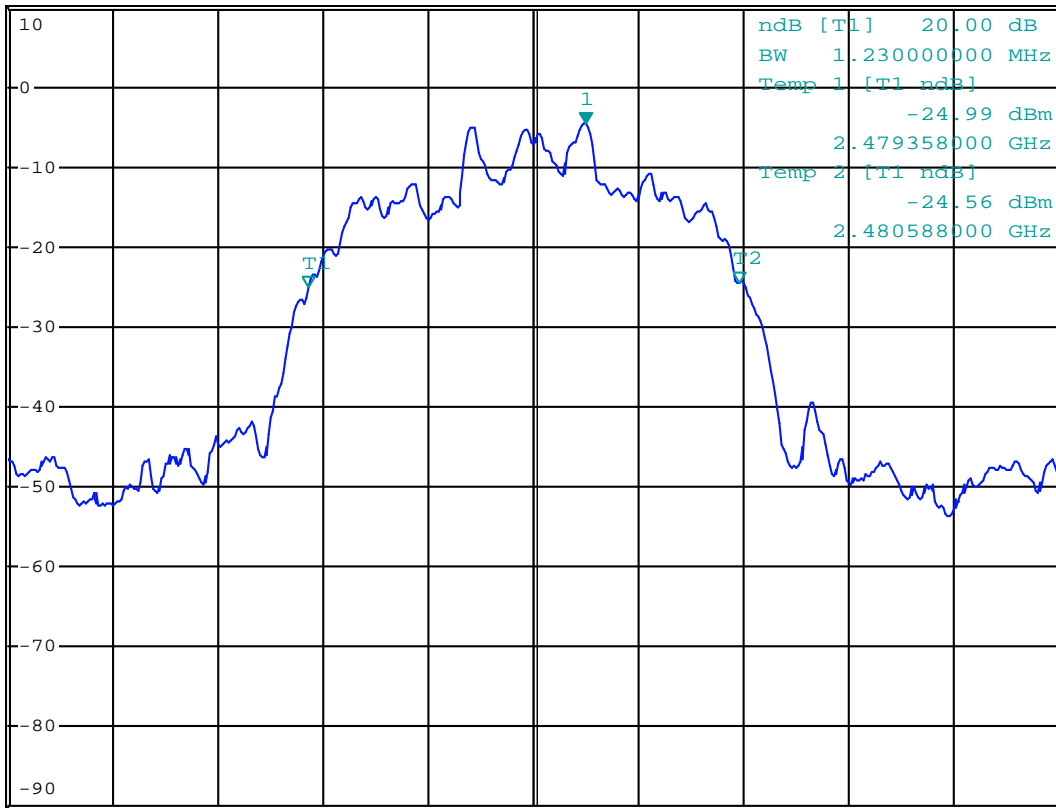
π/4DQPSK			
Product:	Jelleez TWS Bluetooth Earphones	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.230MHz	--	--



*RBW 30 kHz Marker 1 [T1]
 *VBW 100 kHz -4.56 dBm
 *Att 20 dB *SWT 10 ms 2.480150000 GHz

Ref 10 dBm

1 PK
MAXH



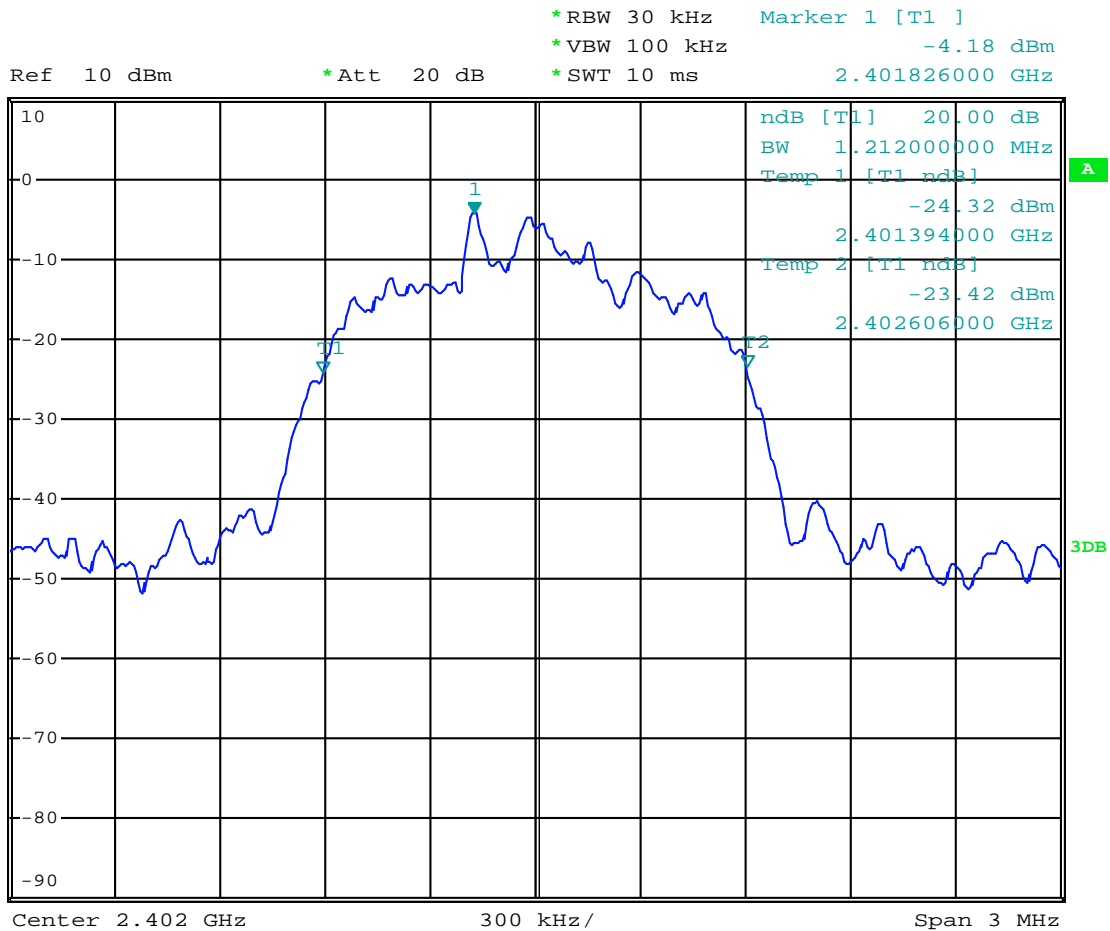
Center 2.48 GHz 300 kHz / Span 3 MHz

Date: 6.NOV.2023 14:11:08

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8DPSK			
Product:	Jelleez TWS Bluetooth Earphones	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	1.212MHz	--	--



Date: 6.NOV.2023 14:24:14

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8DPSK			
Product:	Jelleez TWS Bluetooth Earphones	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	1.212MHz	--	--

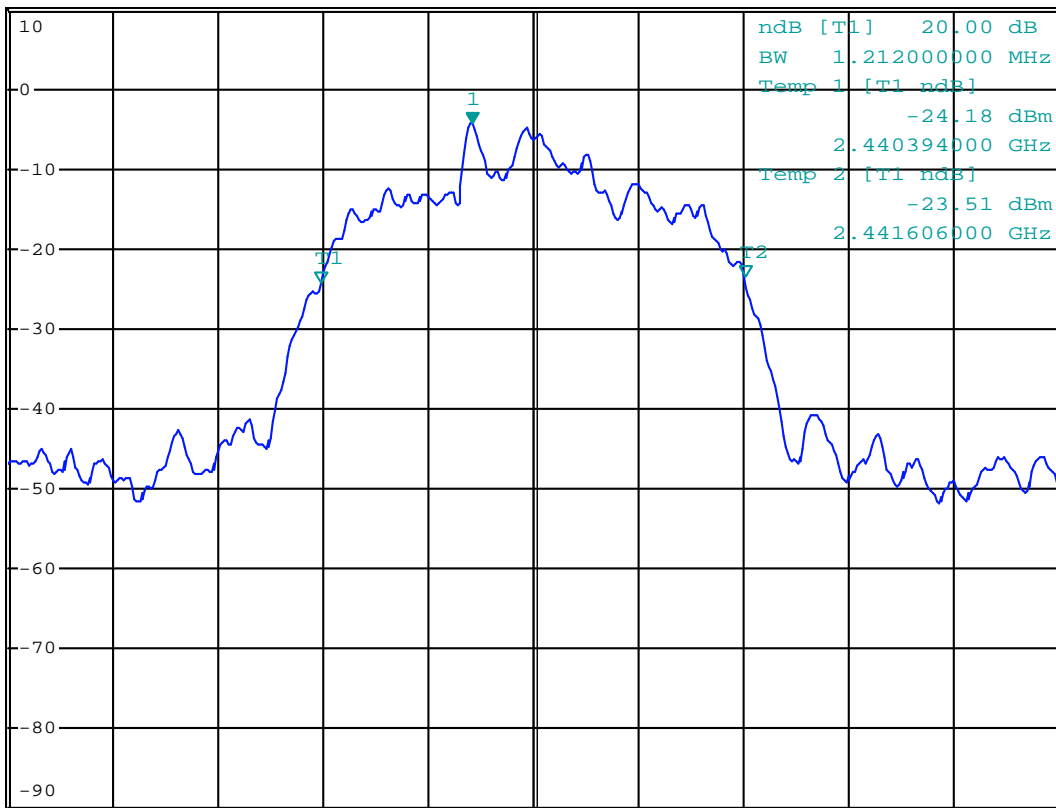


*RBW 30 kHz Marker 1 [T1]
 *VBW 100 kHz -4.26 dBm
 *SWT 10 ms 2.440826000 GHz

Ref 10 dBm

*Att 20 dB

1 PK
MAXH



Center 2.441 GHz

300 kHz/

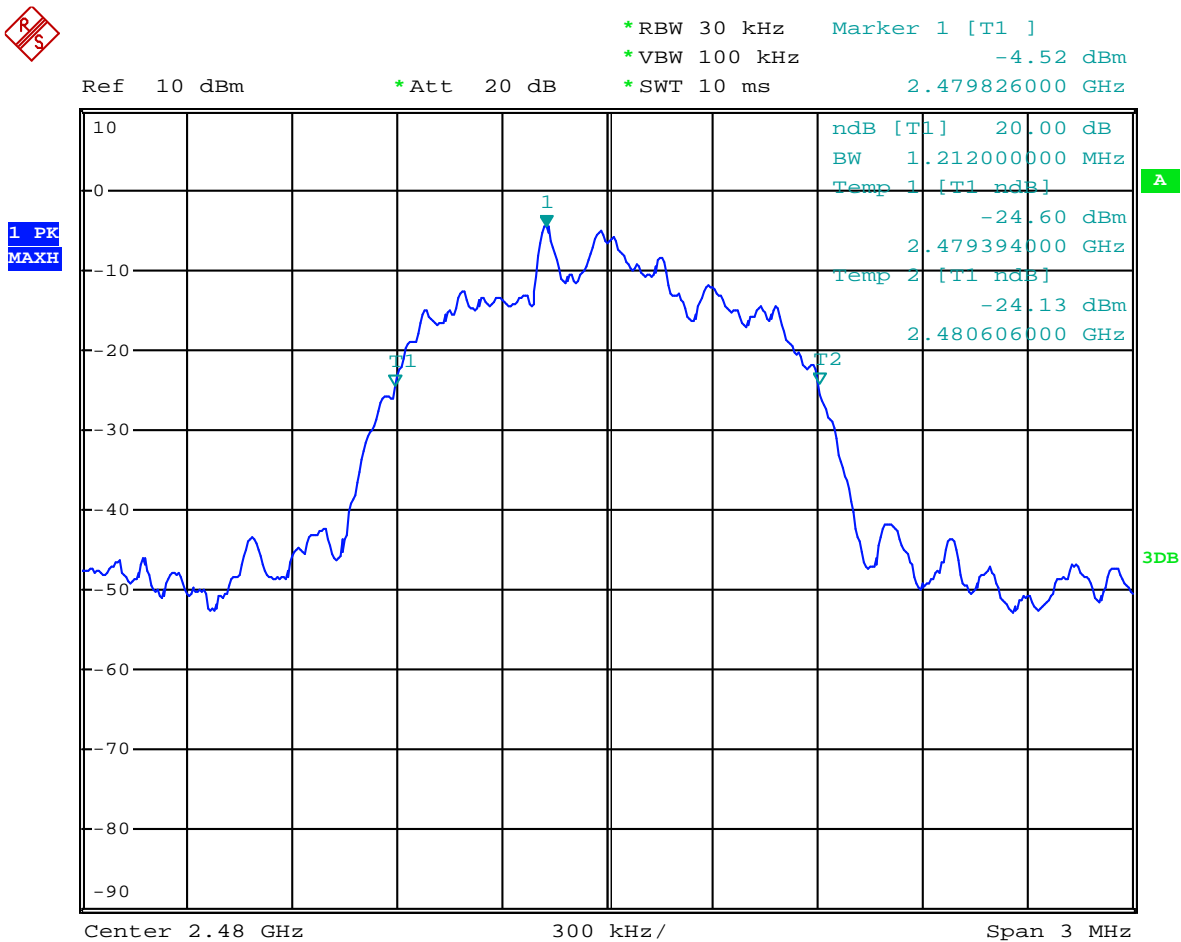
Span 3 MHz

Date: 6.NOV.2023 14:25:58

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8DPSK			
Product:	Jelleez TWS Bluetooth Earphones	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	1.212MHz	--	--



Date: 6.NOV.2023 14:27:49

Note: The left and right earphones are identical in the schematics, but the PCB layout and part placement are different. The left and right earphones are test. In the test report only the worst case is recorded and the left earphone is the worst case.

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10.0 FCC ID Label

FCC ID: WKA-TW185B

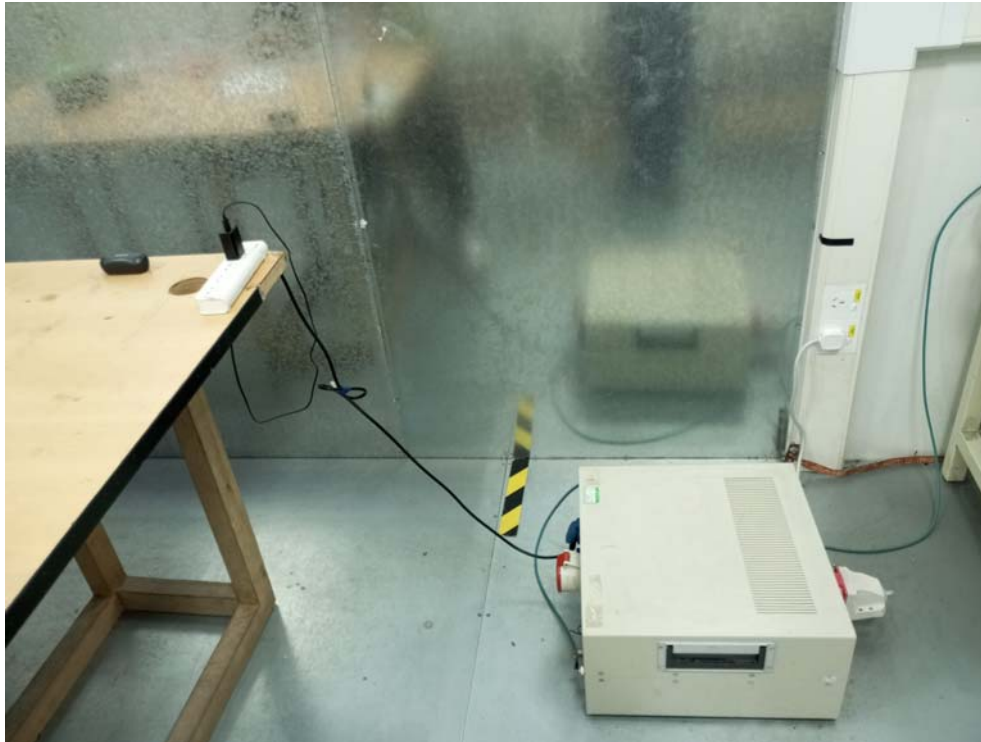
The applicant declares that because the earphone size is too small, the FCC ID number is printed on the user manual

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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 - charger base



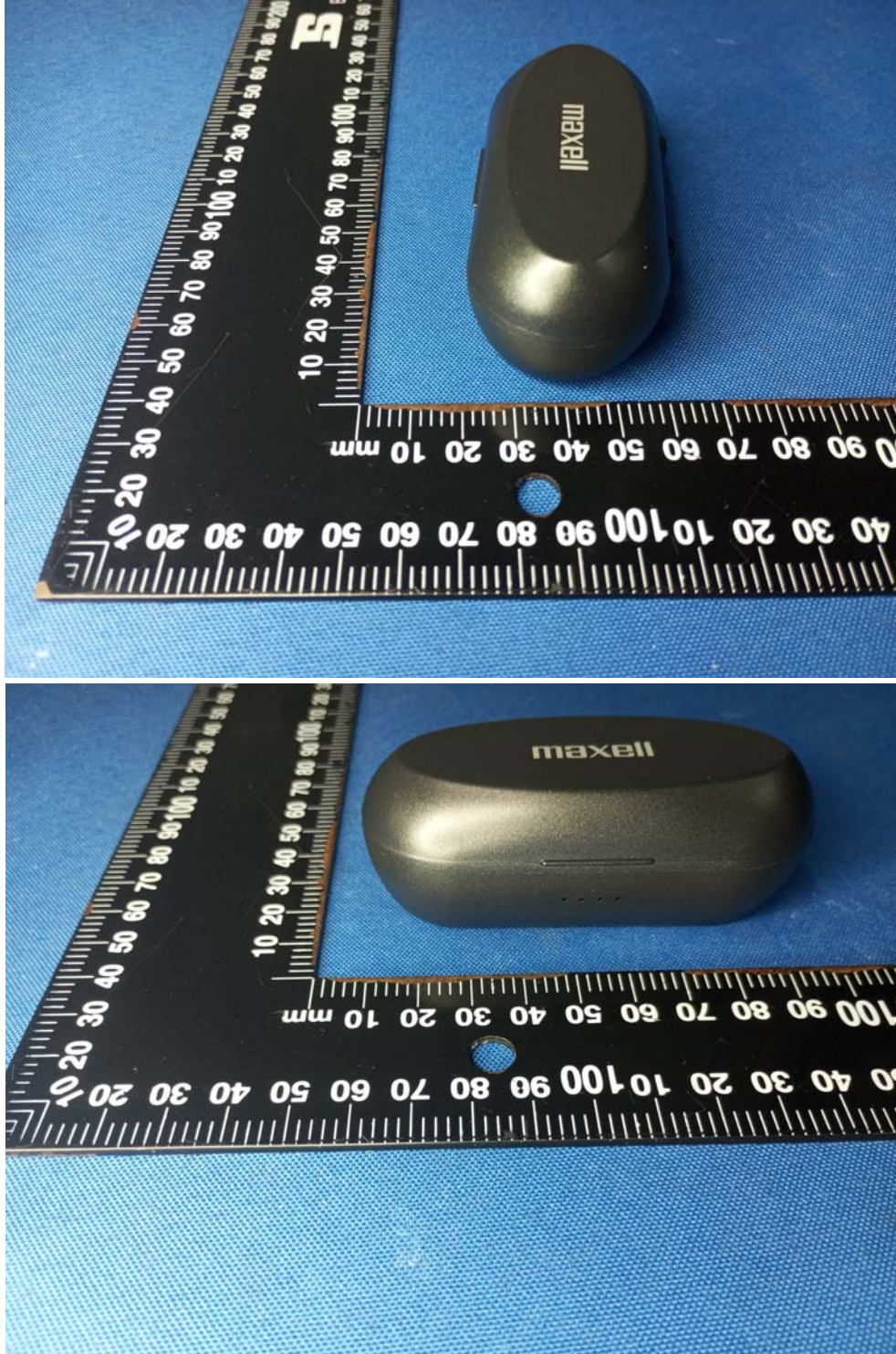
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Outside View - charger base



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Outside View - charger base



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Outside View - charger base



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Outside View - charger base



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Outside View



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Inside View - charger base



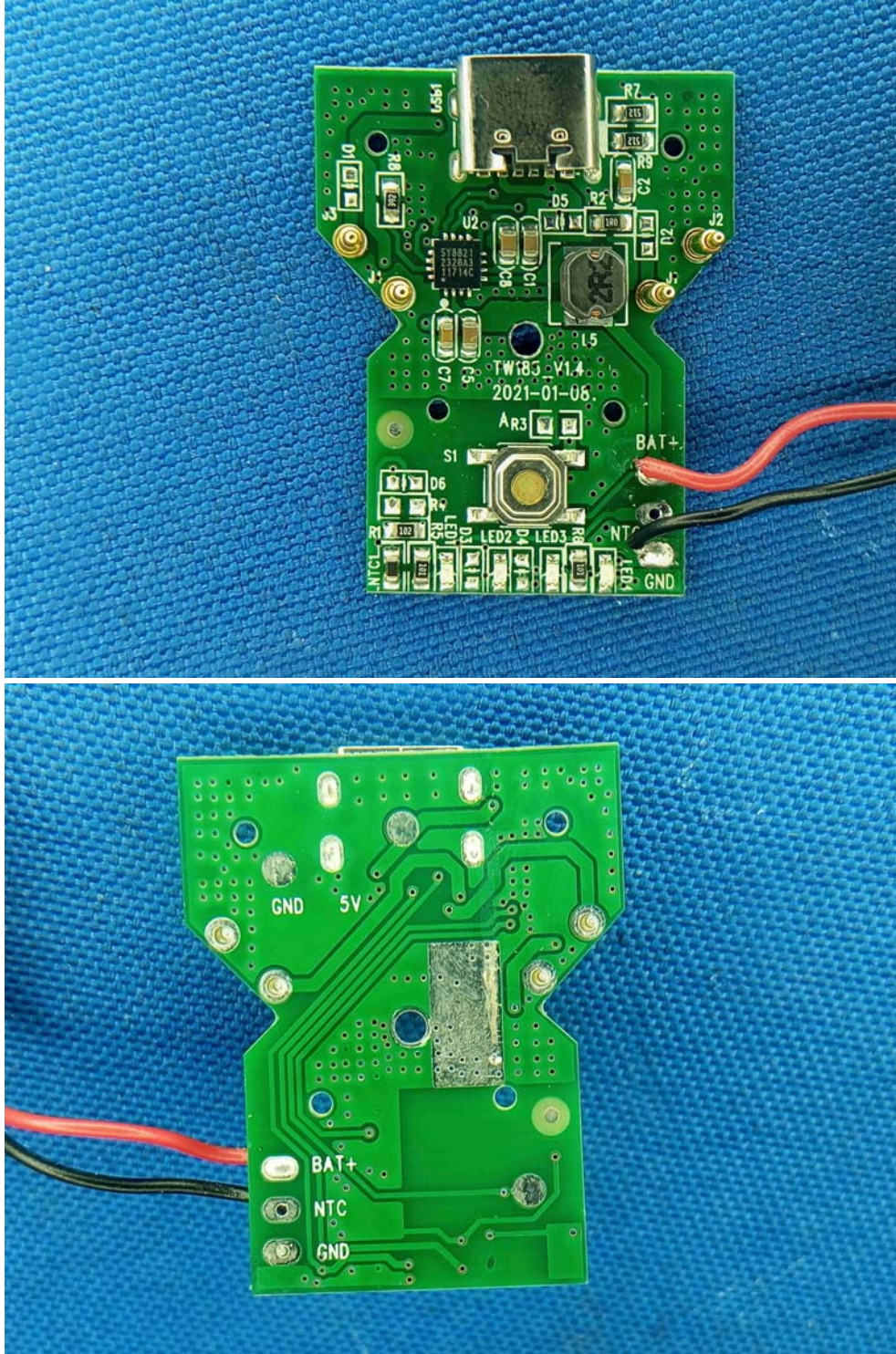
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Inside View - charger base

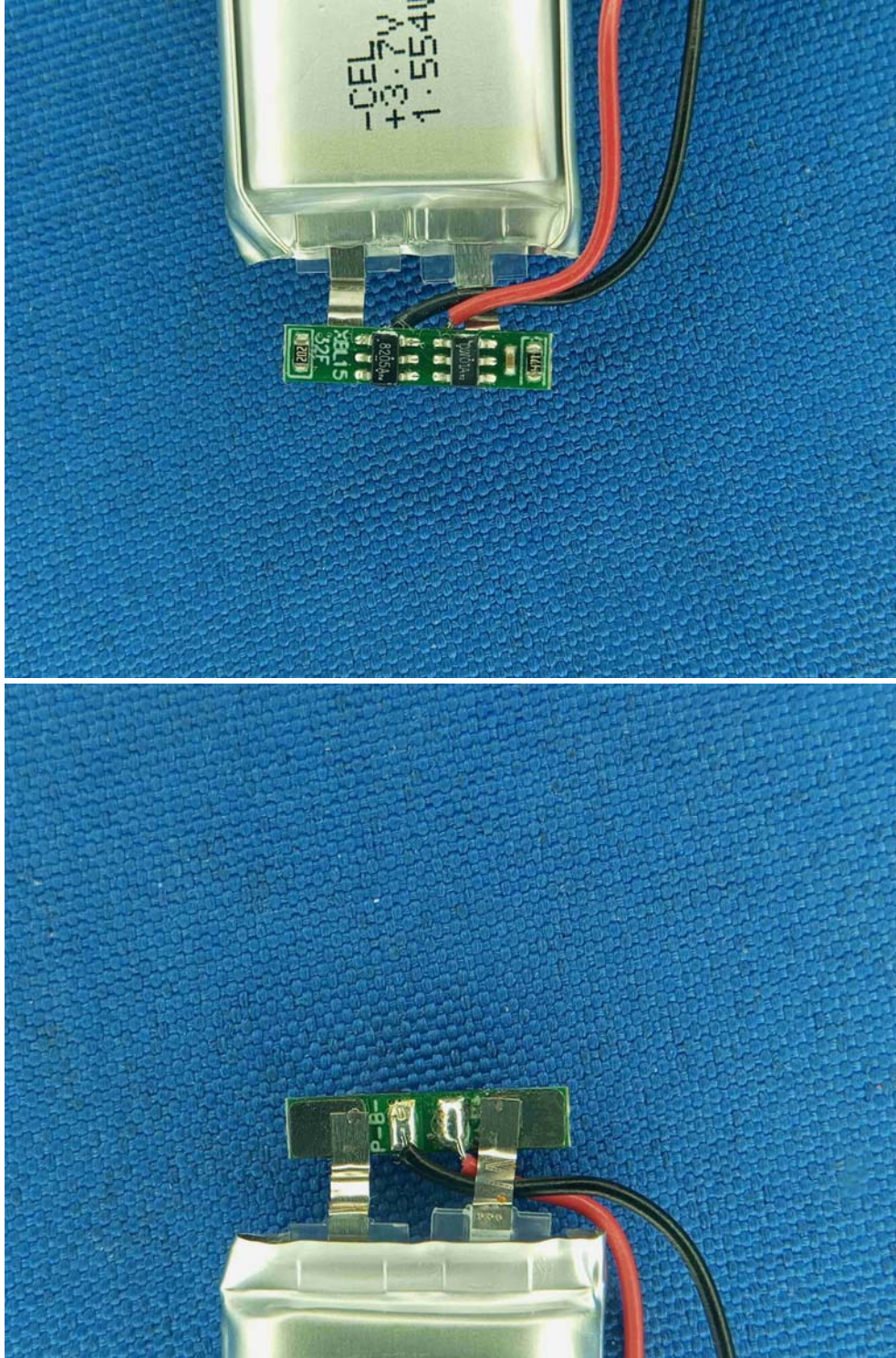


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Inside View - charger base



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Outside View - Left earphone



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Outside View - Left earphone

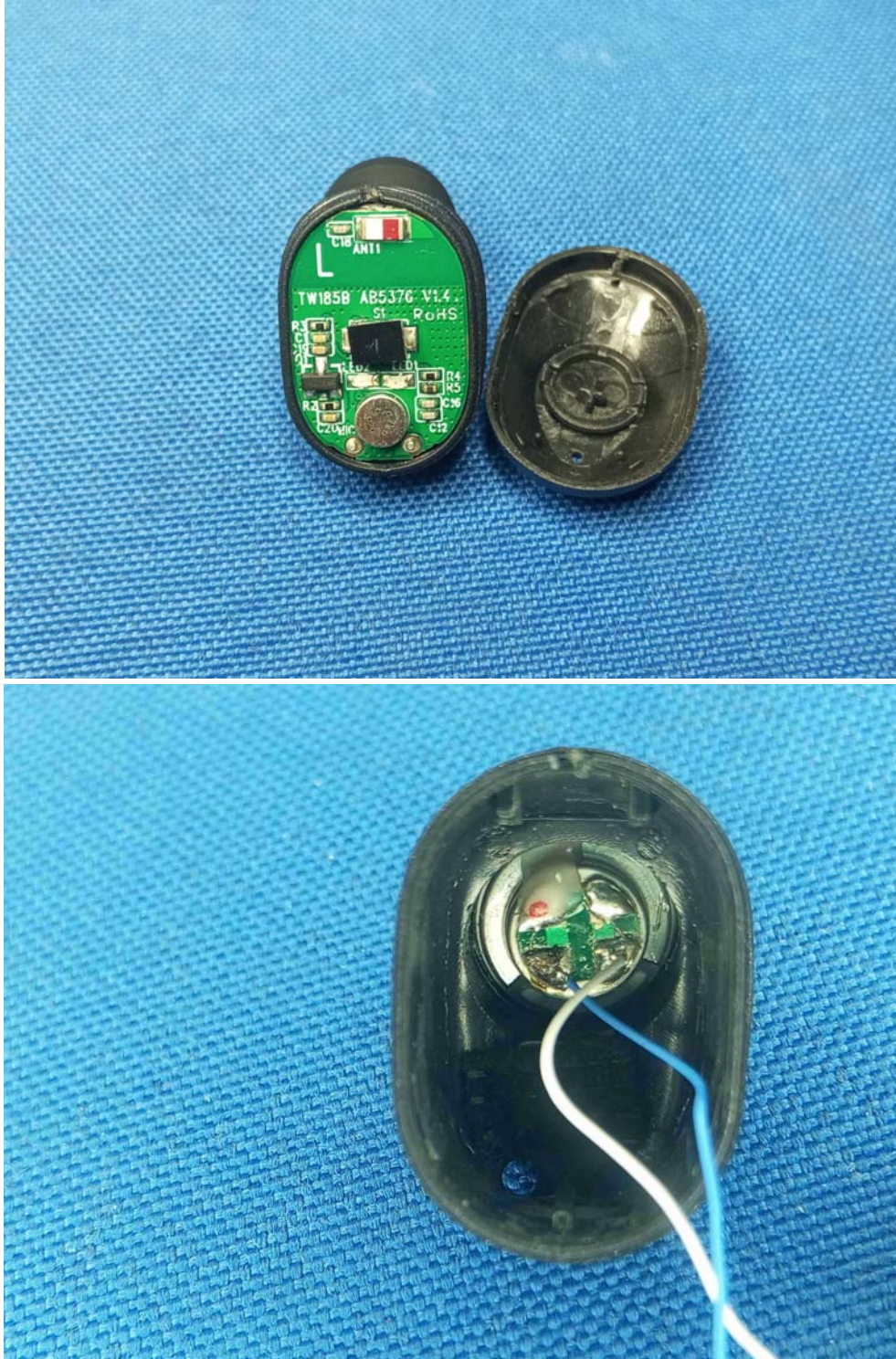


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Inside View - Left earphone

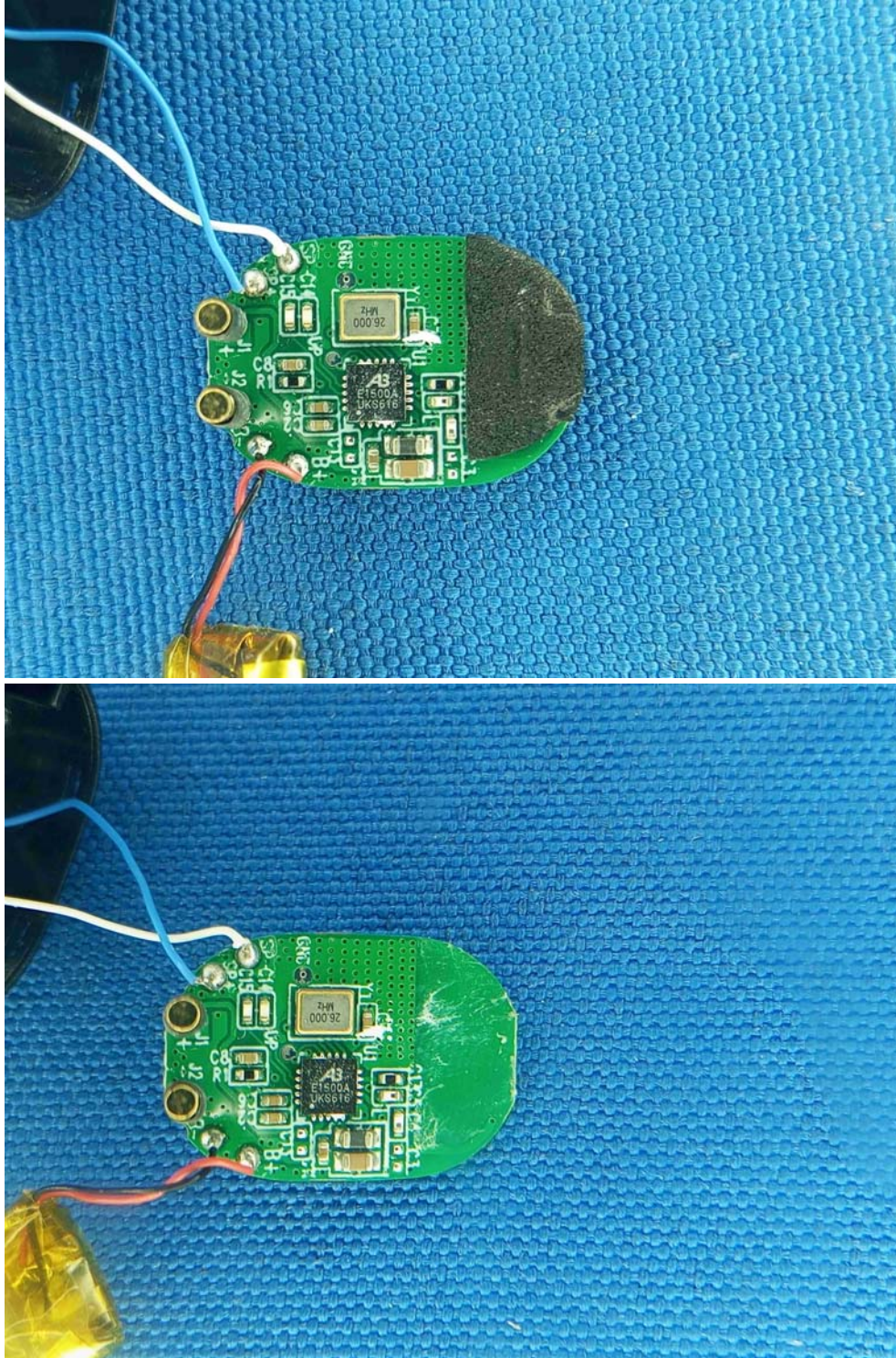


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Inside View - Left earphone

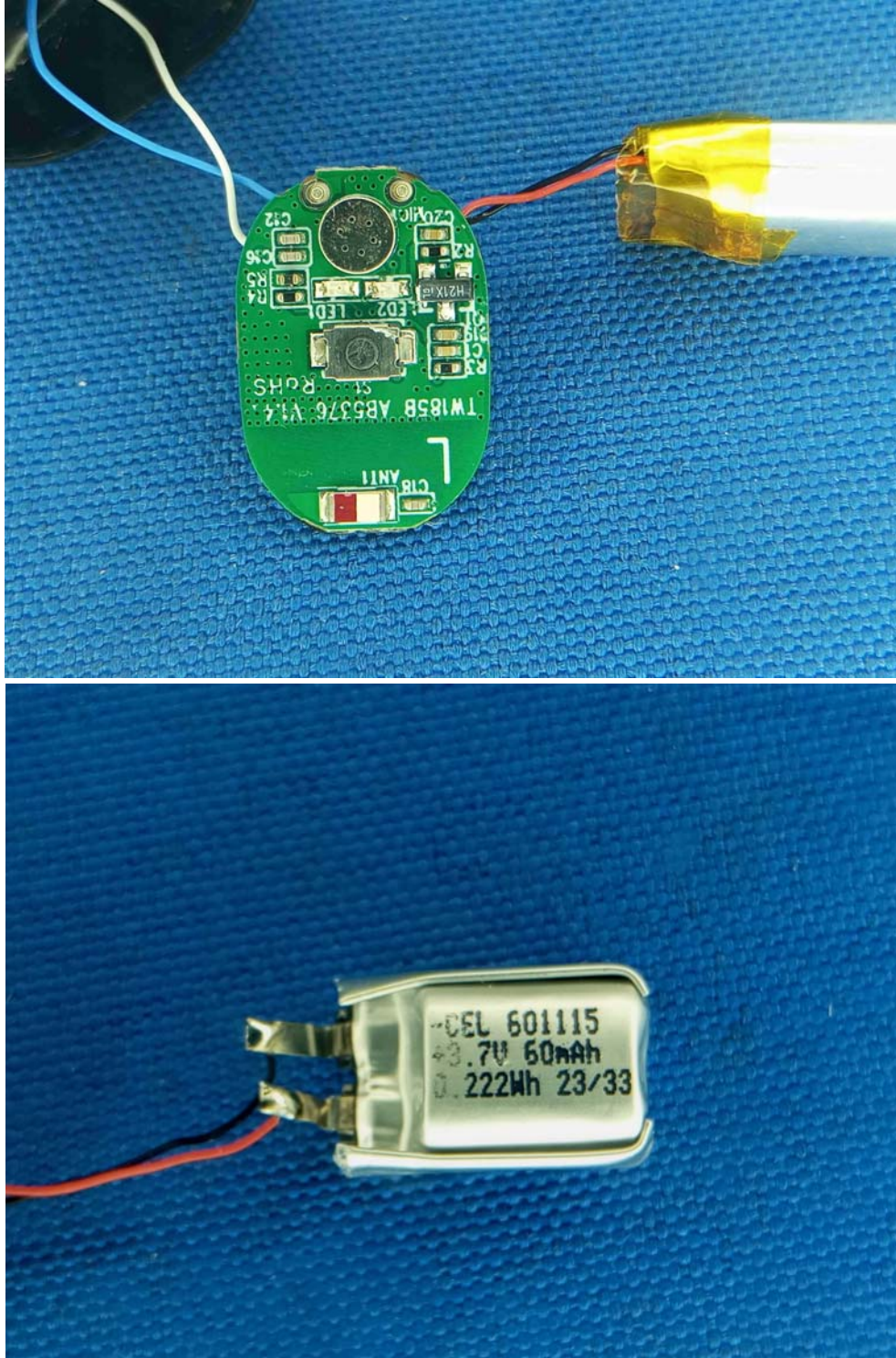


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Inside View - Left earphone



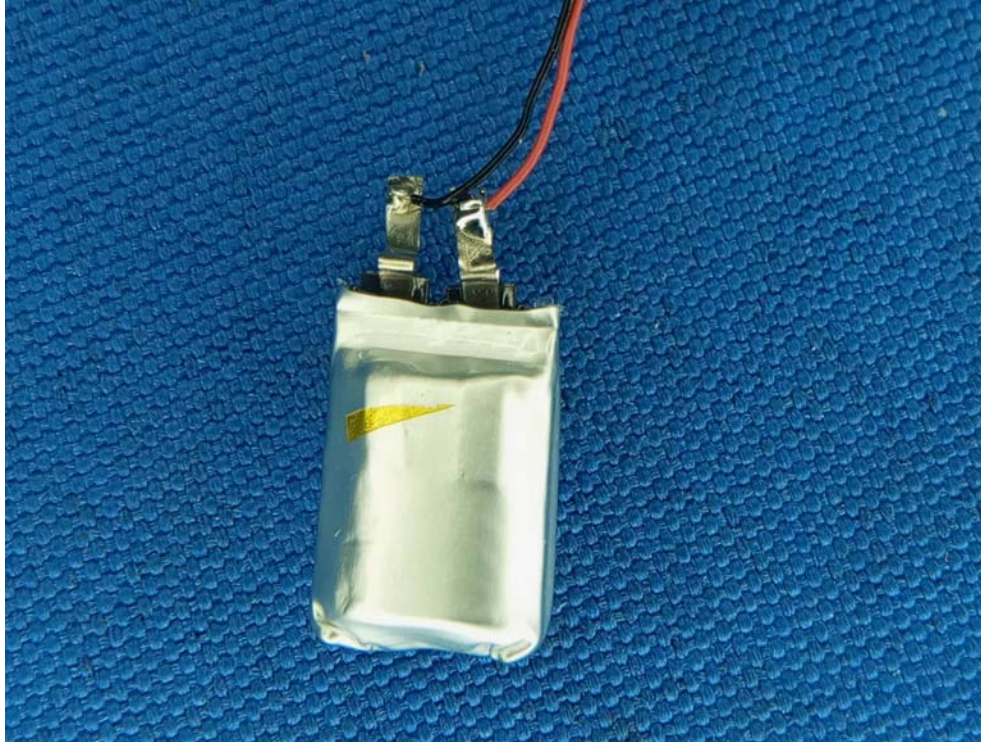
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Inside View - Left earphone



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Outside View - Right earphone



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Outside View - Right earphone

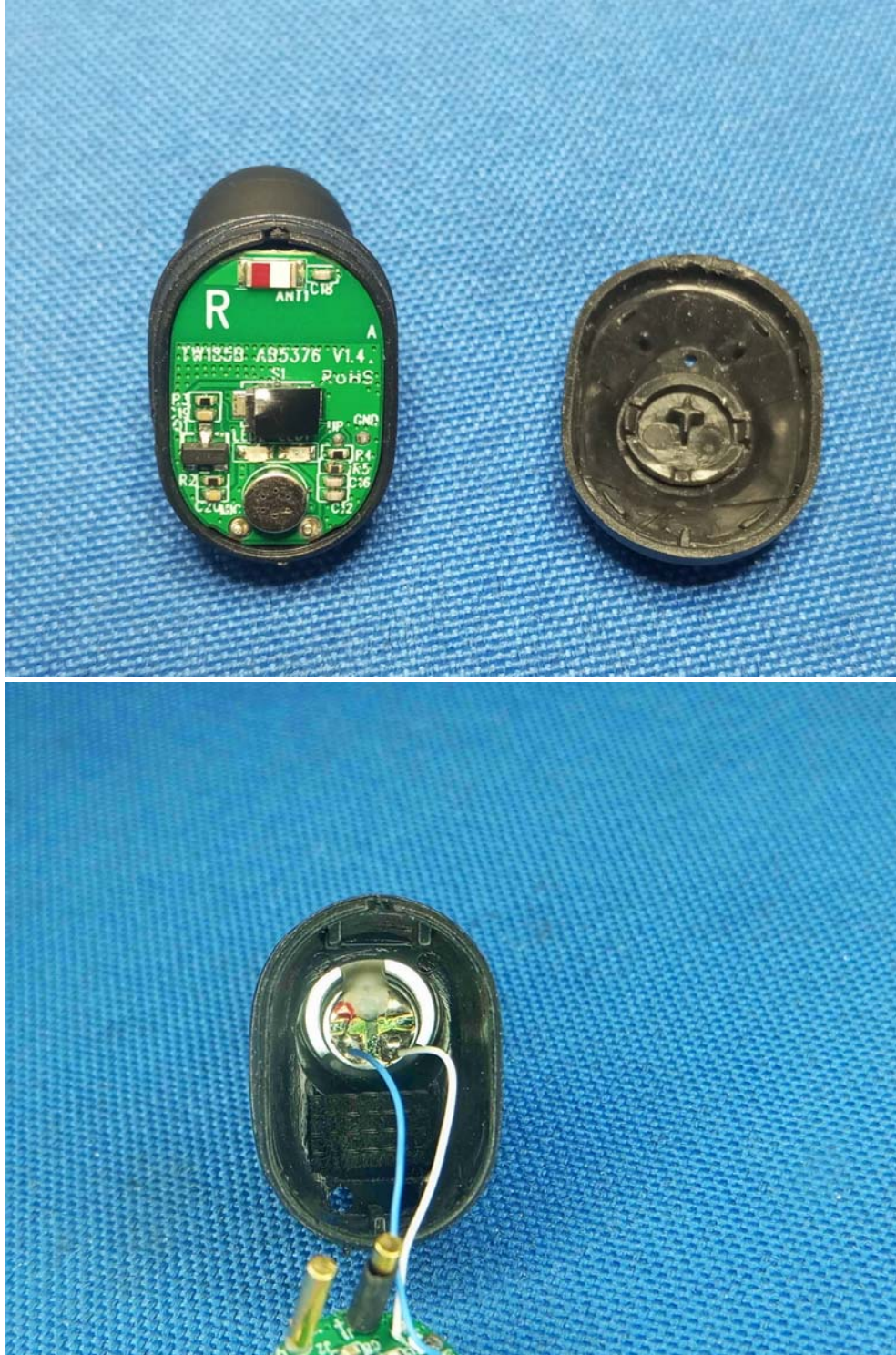


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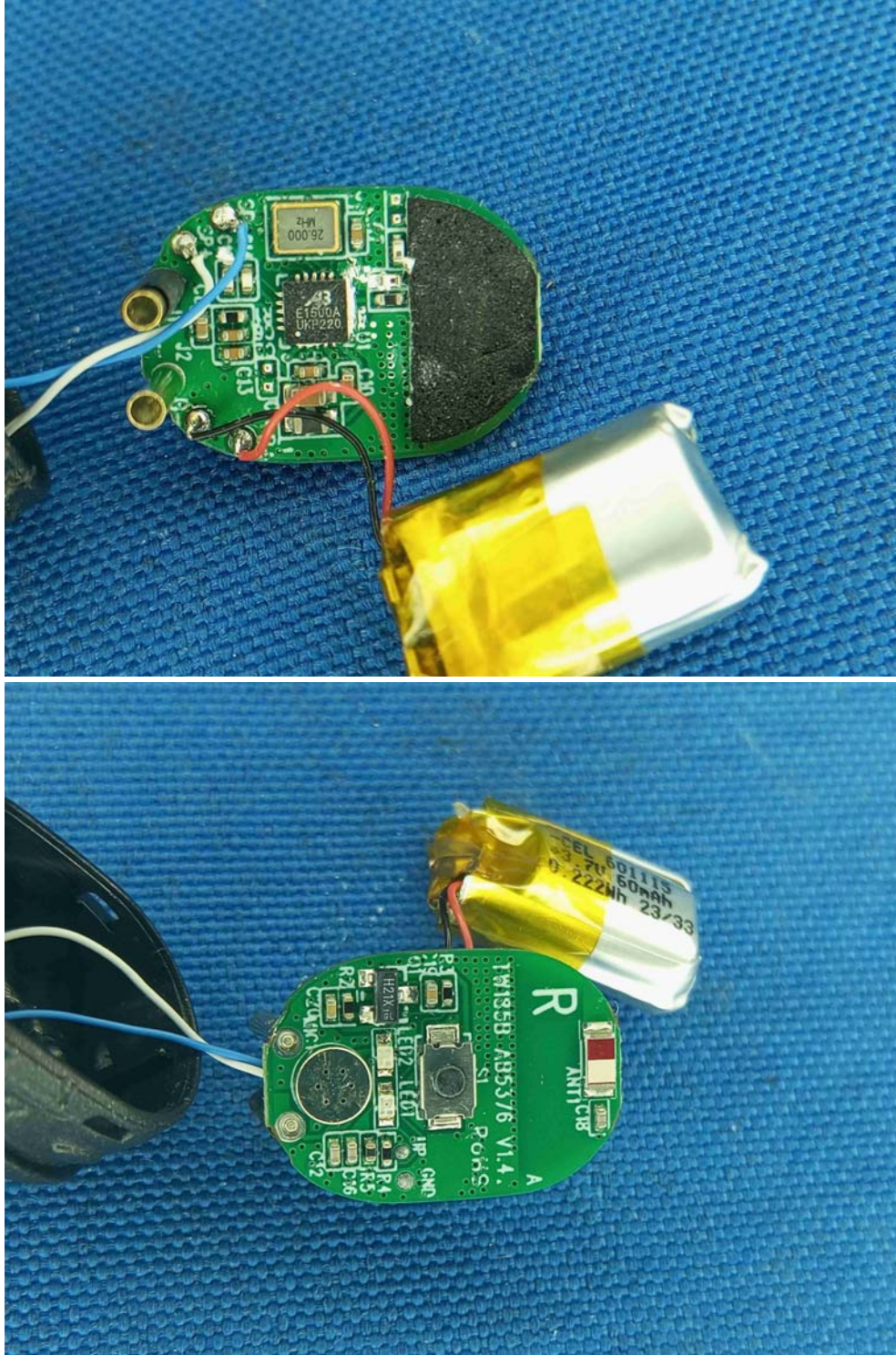
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Inside View - Right earphone



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Inside View - Right earphone

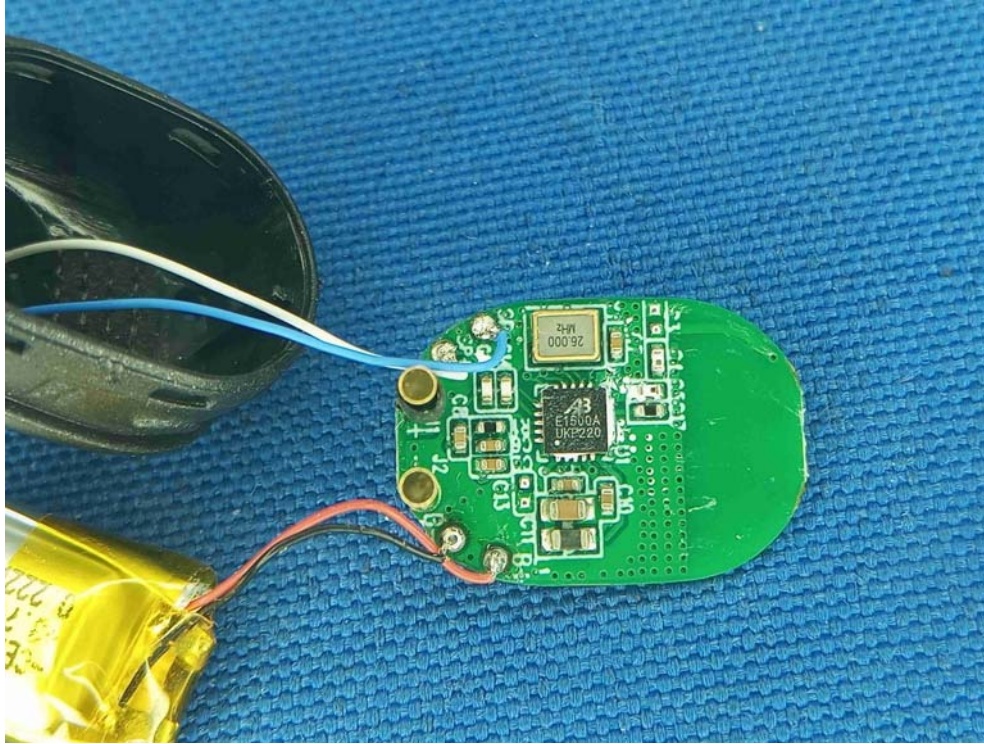


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Inside View - Right earphone



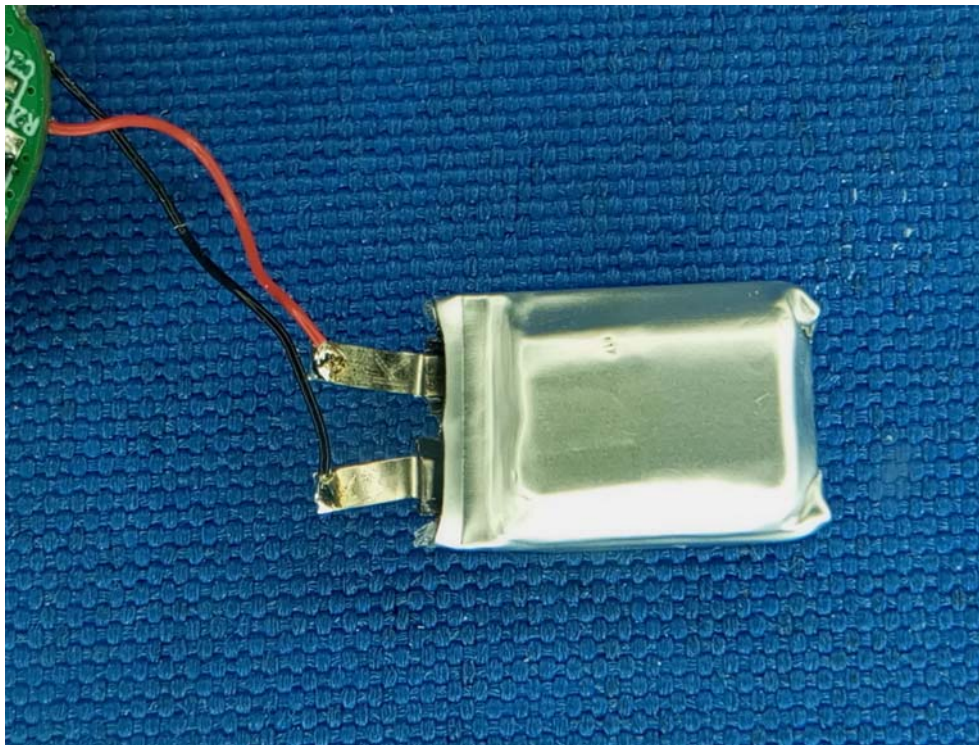
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Inside View - Right earphone



--End of the report--

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