TEST REPORT

Report No.: TWN2504829E

Applicant: Huaou Tonghui (Suzhou) Technology Co., Ltd

Product: OWS Wireless Earphone

Model No.: KOUO Aether O1, KOUO Aether O1 Pro, KOUO Aether O2, KOUO Aether O3, KOUO Aether O5, KOUO Aether O6, KOUO Aether O7, KOUO Aether O8, KOUO Aether O9, KOUO Aether O10, AO1 Pro

Trademark: KOUO

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

Terry Tang

Manager

Dated: May 12, 2025

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:

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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Test Report Conclusion

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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: Huaou Tonghui (Suzhou) Technology Co., Ltd

Address: 108, Building 1, No. 1488, Pangjin Road, Jiangling Street, Wujiang District, Suzhou City

1.3 Description of EUT

Product:	OWS Wireless Earphone
Manufacturer:	Huaou Tonghui (Suzhou) Technology Co., Ltd
Address:	108, Building 1, No. 1488, Pangjin Road, Jiangling Street, Wujiang District, Suzhou City
Trademark:	KOUO
Model Number:	KOUO Aether O1
Additional Model Name	KOUO Aether O1 Pro, KOUO Aether O2, KOUO Aether O3, KOUO Aether O5, KOUO Aether O6, KOUO Aether O7, KOUO Aether O8, KOUO Aether O9, KOUO Aether O10, AO1 Pro
Rating:	DC5V
Battery:	DC3.7V, 50mAh Li-ion battery for earphones and Built-in DC3.7V, 600mAh Li-ion battery for charger base.
Serial No.:	KOUO20250401001B
Hardware Version:	V1.3
Software Version:	V202
Operation Frequency:	2402-2480MHz
Modulation Type:	GFSK, Л/4DQPSK
Number of Channels:	79
Channel Separation:	1MHz
Antenna Designation	Chip antenna with gain 3.0dBi maximum (Get from the antenna specification)

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1.4 Submitted Sample: 4 Samples

1.5 Test Duration

2025-04-27 to 2025-05-12

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	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100253	2024-07-12	2025-07-11
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2024-07-12	2025-07-11
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2024-07-12	2025-07-11
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	2025-07-17
Power meter	Anritsu	ML2487A	6K00003613	2024-07-12	2025-07-11
Power sensor	Anritsu	MA2491A	32263	2024-07-12	2025-07-11
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	2024-07-12	2025-07-11
EMI Test Receiver	RS	ESCS 30	834115/006	2024-07-12	2025-07-11
Spectrum	HP/Agilent	E4407B	MY50441392	2024-07-12	2025-07-11
Spectrum	RS	FSP	1164.4391.38	2024-07-12	2025-07-11
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	--	2024-07-12	2025-07-11
RF Cable	Zhengdi	7m	--	2024-07-12	2025-07-11
Pre-Amplifier	Schwarebeck	BBV9743	#218	2024-07-12	2025-07-11
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2024-07-12	2025-07-11
LISN	SCHAFFNER	NNB42	00012	2024-07-12	2025-07-11
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11

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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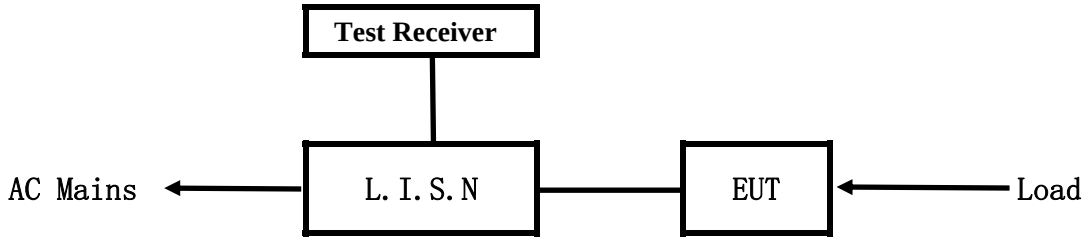
5.0 Power Line Conducted Emission Test

5.1 Schematics of the test



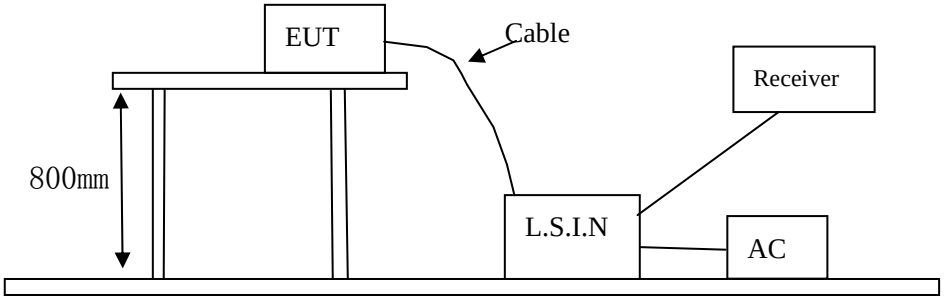
EUT: Equipment Under Test

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
OWS Wireless Earphone	Huaou Tonghui (Suzhou) Technology Co., Ltd	KOUO Aether O1, KOUO Aether O1 Pro, KOUO Aether O2, KOUO Aether O3, KOUO Aether O5, KOUO Aether O6, KOUO Aether O7, KOUO Aether O8, KOUO Aether O9, KOUO Aether O10, AO1 Pro	2BOZI-AETHER

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	Xiaomi	CDQ02ZM	Input: 100-240V~, 50/60Hz, 1.2A; Output: DC5V, 3A; DC9V, 3A; DC12V, 3A; DC15V, 3A; DC20V, 2.25A;

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:

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

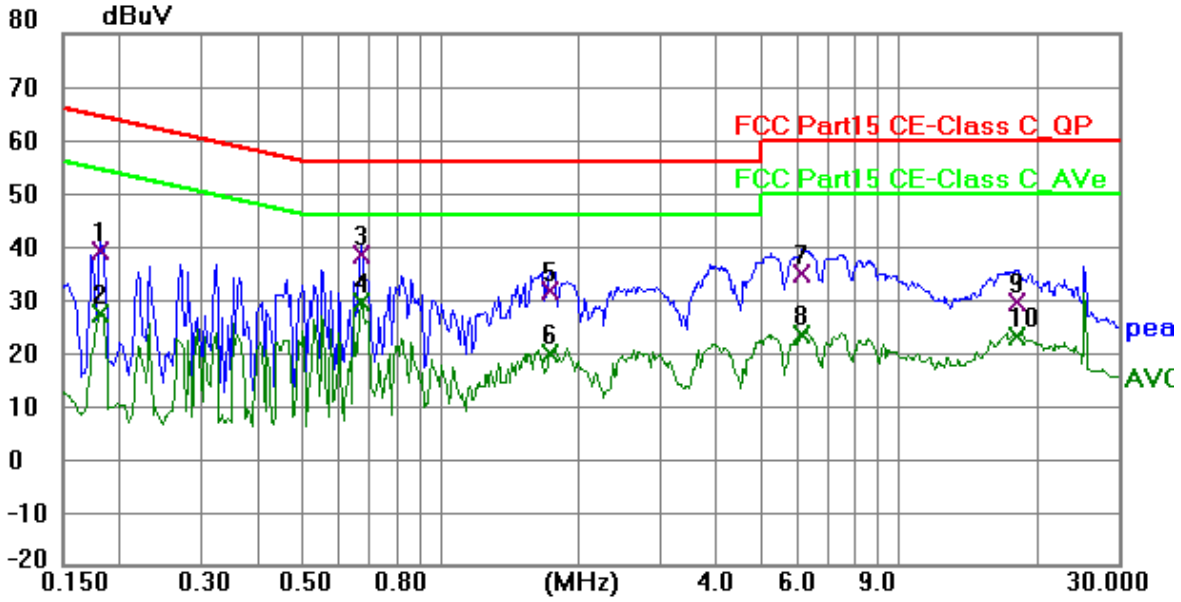
EUT Operating Environment

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

EUT set Condition: Charging and 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	0.1812	28.82	10.33	39.15	64.43	-25.28	QP	P
2	0.1812	17.08	10.33	27.41	54.43	-27.02	AVG	P
3	0.6687	28.07	10.45	38.52	56.00	-17.48	QP	P
4	0.6687	19.17	10.45	29.62	46.00	-16.38	AVG	P
5	1.7295	20.37	11.10	31.47	56.00	-24.53	QP	P
6	1.7295	8.64	11.10	19.74	46.00	-26.26	AVG	P
7	6.1512	22.20	12.61	34.81	60.00	-25.19	QP	P
8	6.1512	10.66	12.61	23.27	50.00	-26.73	AVG	P
9	18.1242	13.34	15.95	29.29	60.00	-30.71	QP	P
10	18.1242	7.22	15.95	23.17	50.00	-26.83	AVG	P

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

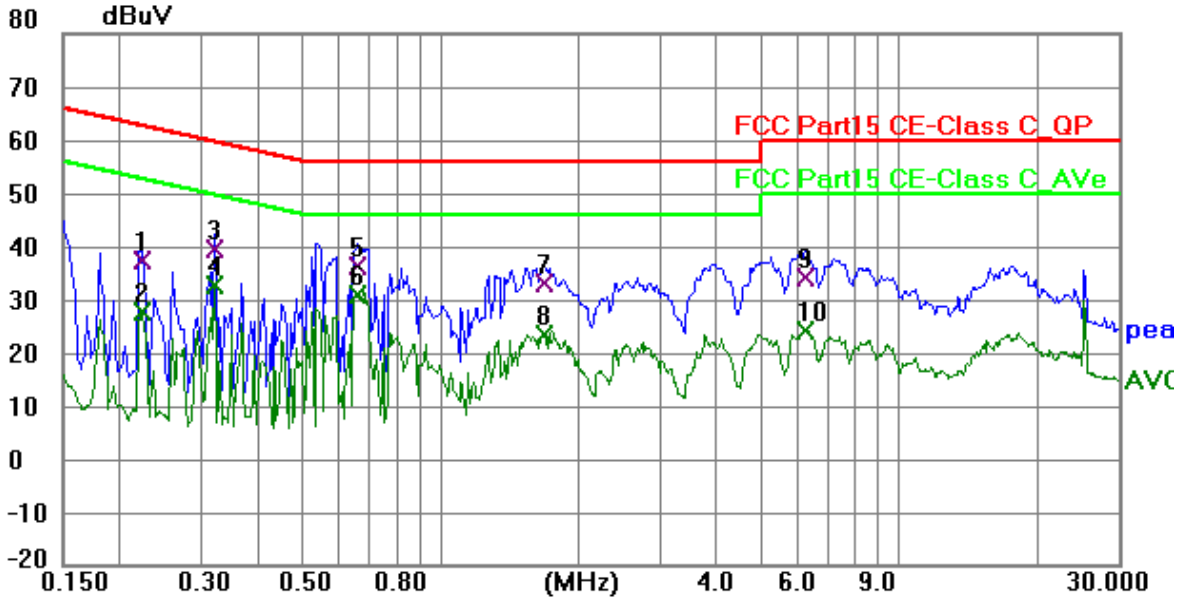
EUT Operating Environment

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

EUT set Condition: Charging and 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	0.2241	26.99	10.33	37.32	62.67	-25.35	QP	P
2	0.2241	17.21	10.33	27.54	52.67	-25.13	AVG	P
3	0.3215	29.13	10.35	39.48	59.67	-20.19	QP	P
4	0.3215	22.25	10.35	32.60	49.67	-17.07	AVG	P
5	0.6609	25.78	10.45	36.23	56.00	-19.77	QP	P
6	0.6609	20.54	10.45	30.99	46.00	-15.01	AVG	P
7	1.6788	21.89	11.06	32.95	56.00	-23.05	QP	P
8	1.6788	12.34	11.06	23.40	46.00	-22.60	AVG	P
9	6.2370	21.47	12.63	34.10	60.00	-25.90	QP	P
10	6.2370	11.48	12.63	24.11	50.00	-25.89	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

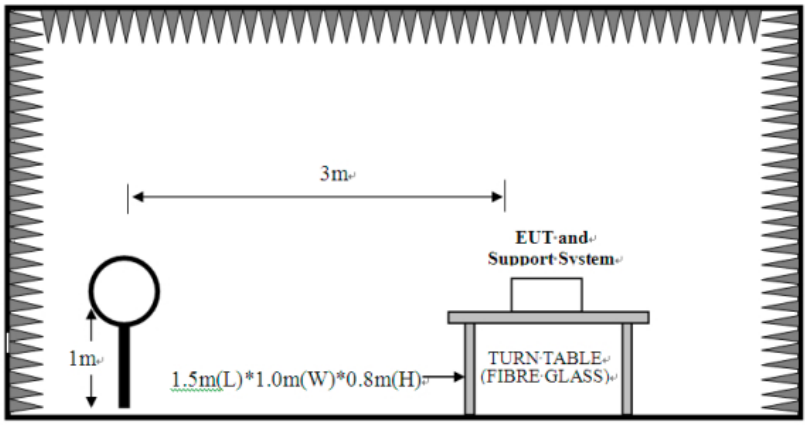
(Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz).
Measurements were made at 3 meters.

(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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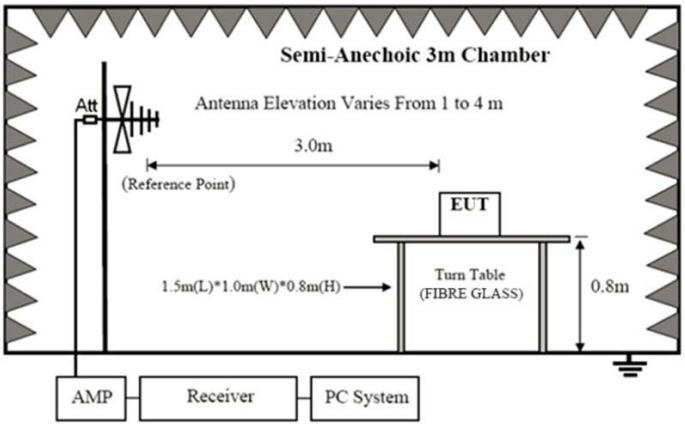
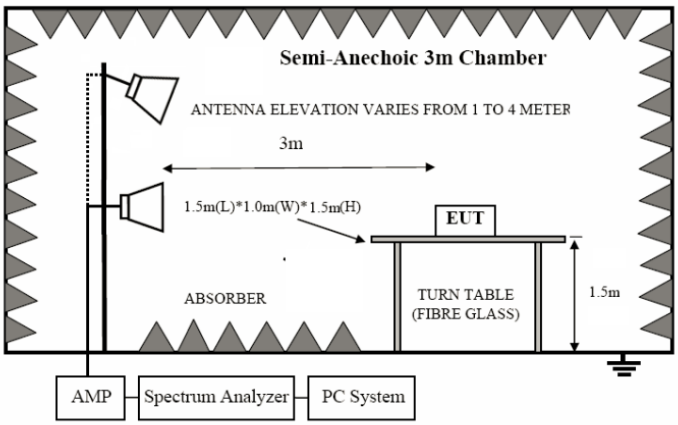
For radiated emissions from 30MHz to1GHz



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:

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 § 15.209, whichever is the lesser attenuation.

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

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Fundamental Frequency (MHz)	Field Strength of Fundamental (3m)			Field Strength of Harmonics (3m)		
	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.

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 two modulation modes of GFSK, Pi/4D-QPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

6. Battery was fully charged during test

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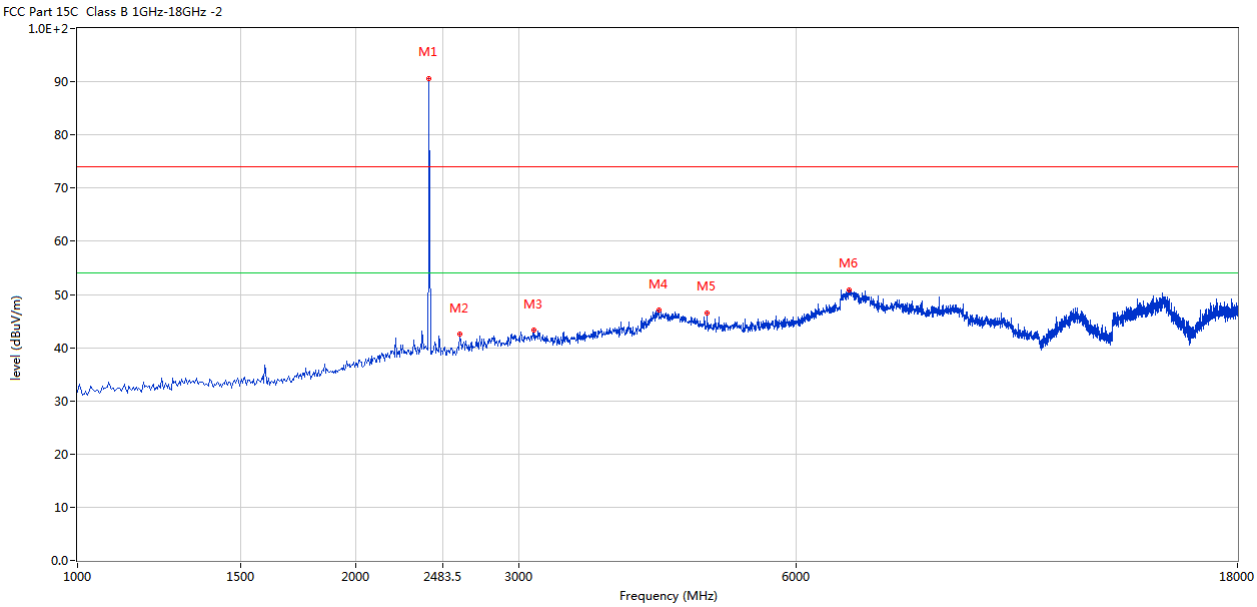
6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

Left Part

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	90.58	-3.57	114.0	-23.42	Peak	5.00	100	Horizontal	Pass
2	2593.352	42.55	-3.34	74.0	-31.45	Peak	233.00	100	Horizontal	Pass
3	3120.220	43.23	-2.15	74.0	-30.77	Peak	10.00	100	Horizontal	Pass
4	4254.686	47.00	1.73	74.0	-27.00	Peak	325.00	100	Horizontal	Pass
5	4802.799	46.55	3.12	74.0	-27.45	Peak	25.00	100	Horizontal	Pass
6	6833.792	50.85	7.26	74.0	-23.15	Peak	134.00	100	Horizontal	Pass

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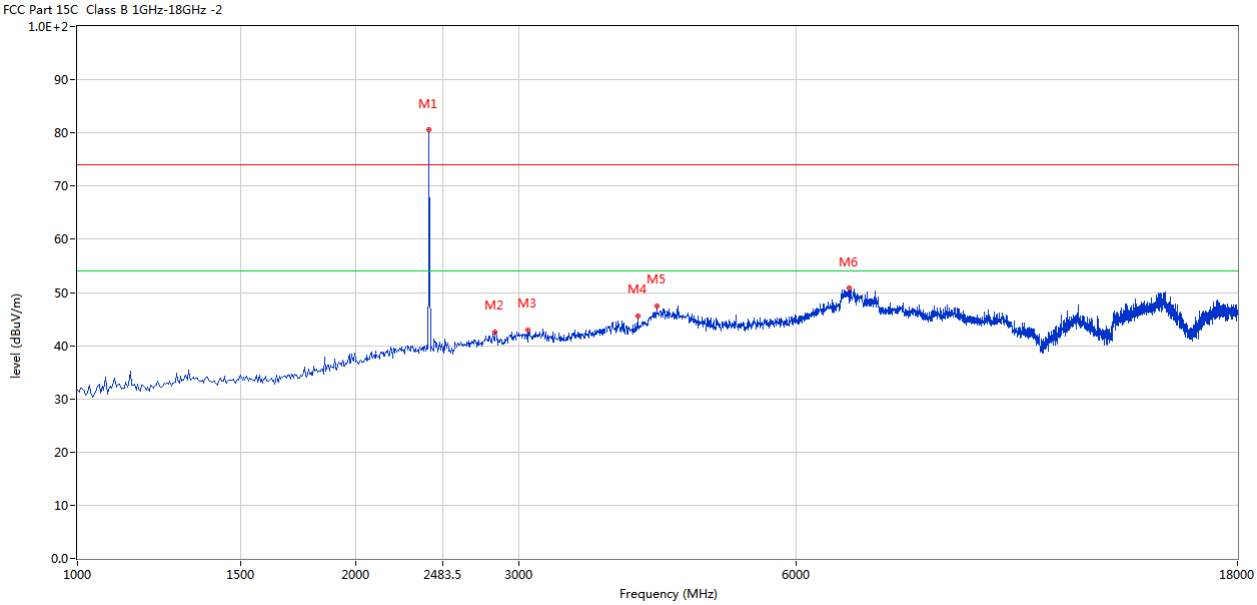
Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	80.56	-3.57	114.0	-33.44	Peak	348.00	100	Vertical	Pass
2	2831.292	42.48	-2.69	74.0	-31.52	Peak	52.00	100	Vertical	Pass
3	3073.482	42.89	-2.31	74.0	-31.11	Peak	181.00	100	Vertical	Pass
4	4037.991	45.61	1.28	74.0	-28.39	Peak	5.00	100	Vertical	Pass
5	4237.691	47.46	1.69	74.0	-26.54	Peak	197.00	100	Vertical	Pass
6	6833.792	50.83	7.26	74.0	-23.17	Peak	280.00	100	Vertical	Pass

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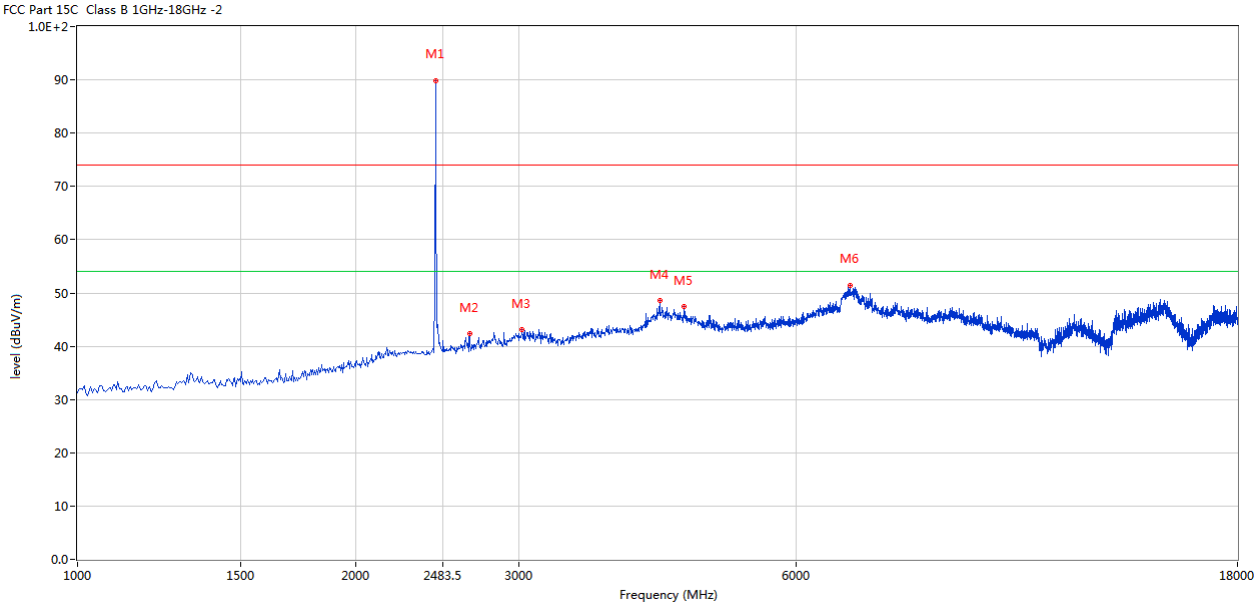
Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2441	89.82	-3.57	114.0	-24.18	Peak	300.00	100	Horizontal	Pass
2	2657.086	42.34	-3.11	74.0	-31.66	Peak	360.00	100	Horizontal	Pass
3	3026.743	43.09	-2.52	74.0	-30.91	Peak	55.00	100	Horizontal	Pass
4	4267.433	48.54	1.76	74.0	-25.46	Peak	305.00	100	Horizontal	Pass
5	4535.116	47.37	2.33	74.0	-26.63	Peak	239.00	100	Horizontal	Pass
6	6859.285	51.38	7.38	74.0	-22.62	Peak	111.00	100	Horizontal	Pass

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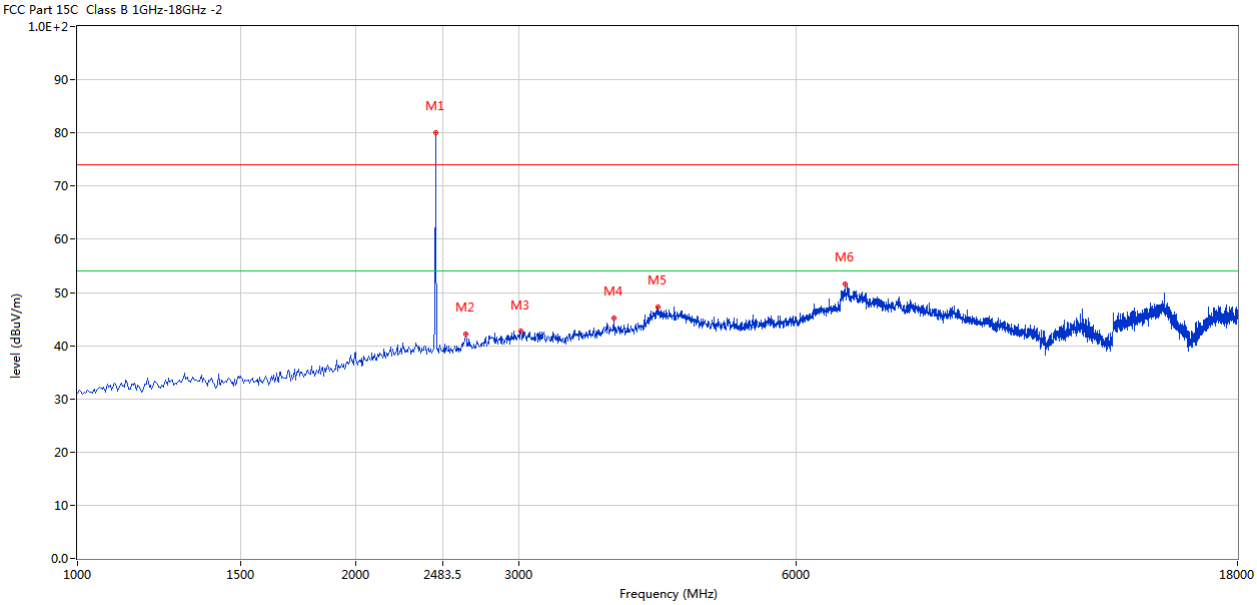
Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2441	80.12	-3.57	114.0	-33.88	Peak	350.00	100	Vertical	Pass
2	2631.592	42.10	-3.21	74.0	-31.90	Peak	189.00	100	Vertical	Pass
3	3018.245	42.70	-2.56	74.0	-31.30	Peak	53.00	100	Vertical	Pass
4	3804.299	45.11	0.33	74.0	-28.89	Peak	325.00	100	Vertical	Pass
5	4246.188	47.31	1.71	74.0	-26.69	Peak	163.00	100	Vertical	Pass
6	6765.809	51.68	6.96	74.0	-22.32	Peak	194.00	100	Vertical	Pass

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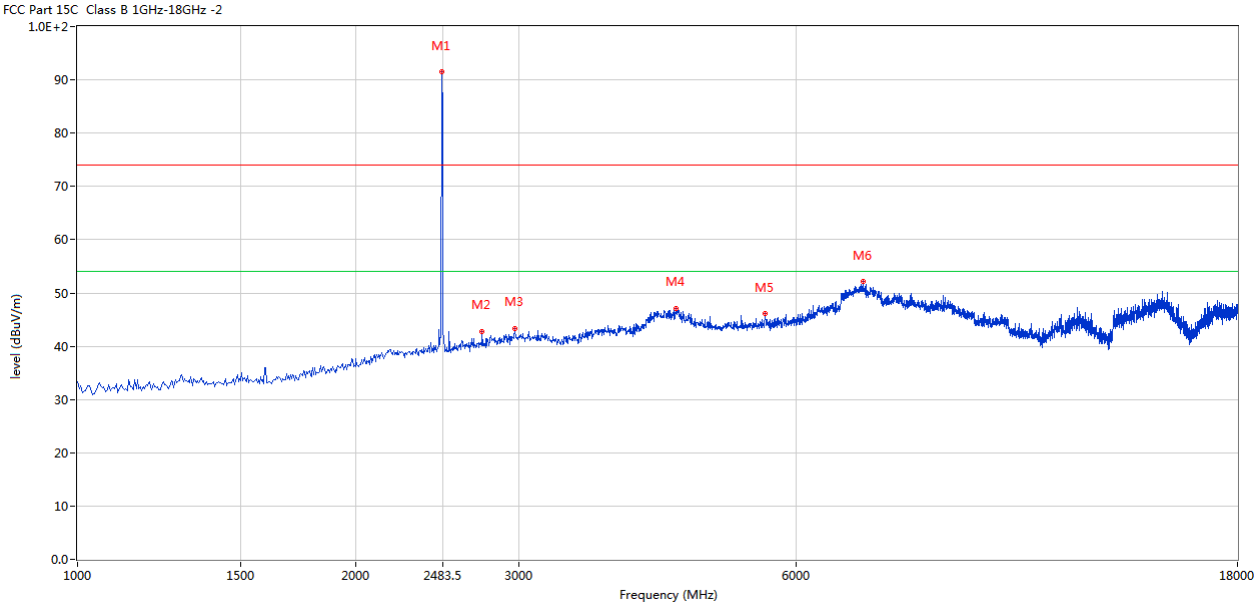
Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	91.46	-3.57	114.0	-22.54	Peak	11.00	100	Horizontal	Pass
2	2742.064	42.70	-2.85	74.0	-31.30	Peak	48.00	100	Horizontal	Pass
3	2971.507	43.36	-2.65	74.0	-30.64	Peak	92.00	100	Horizontal	Pass
4	4441.640	47.14	2.09	74.0	-26.86	Peak	328.00	100	Horizontal	Pass
5	5550.612	46.11	3.92	74.0	-27.89	Peak	145.00	100	Horizontal	Pass
6	7075.981	52.12	8.04	74.0	-21.88	Peak	318.00	100	Horizontal	Pass

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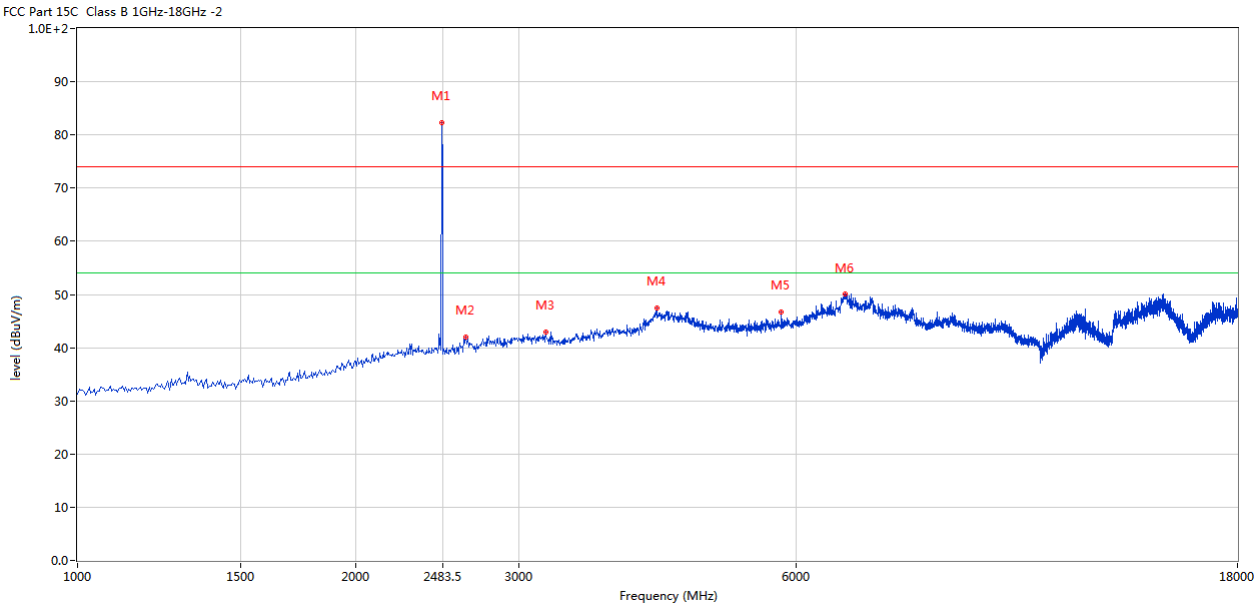
Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	82.35	-3.57	114.0	-31.65	Peak	0.00	100	Vertical	Pass
2	2631.592	41.97	-3.21	74.0	-32.03	Peak	60.00	100	Vertical	Pass
3	3209.448	42.95	-1.98	74.0	-31.05	Peak	60.00	100	Vertical	Pass
4	4233.442	47.52	1.68	74.0	-26.48	Peak	71.00	100	Vertical	Pass
5	5775.806	46.73	3.83	74.0	-27.27	Peak	138.00	100	Vertical	Pass
6	6770.057	50.01	6.97	74.0	-23.99	Peak	360.00	100	Vertical	Pass

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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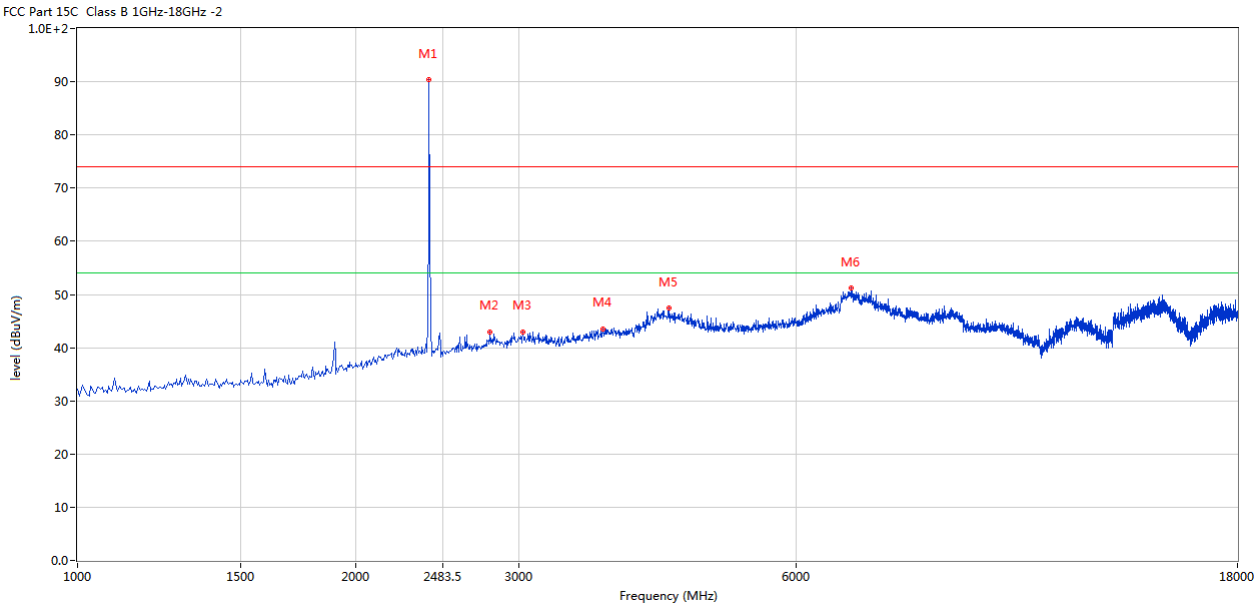
Right Part

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	90.41	-3.57	114.0	-23.59	Peak	300.00	100	Horizontal	Pass
2	2797.301	43.03	-2.70	74.0	-30.97	Peak	141.00	100	Horizontal	Pass
3	3035.241	42.87	-2.48	74.0	-31.13	Peak	285.00	100	Horizontal	Pass
4	3702.324	43.45	-0.21	74.0	-30.55	Peak	228.00	100	Horizontal	Pass
5	4360.910	47.37	1.94	74.0	-26.63	Peak	326.00	100	Horizontal	Pass
6	6880.530	51.22	7.47	74.0	-22.78	Peak	84.00	100	Horizontal	Pass

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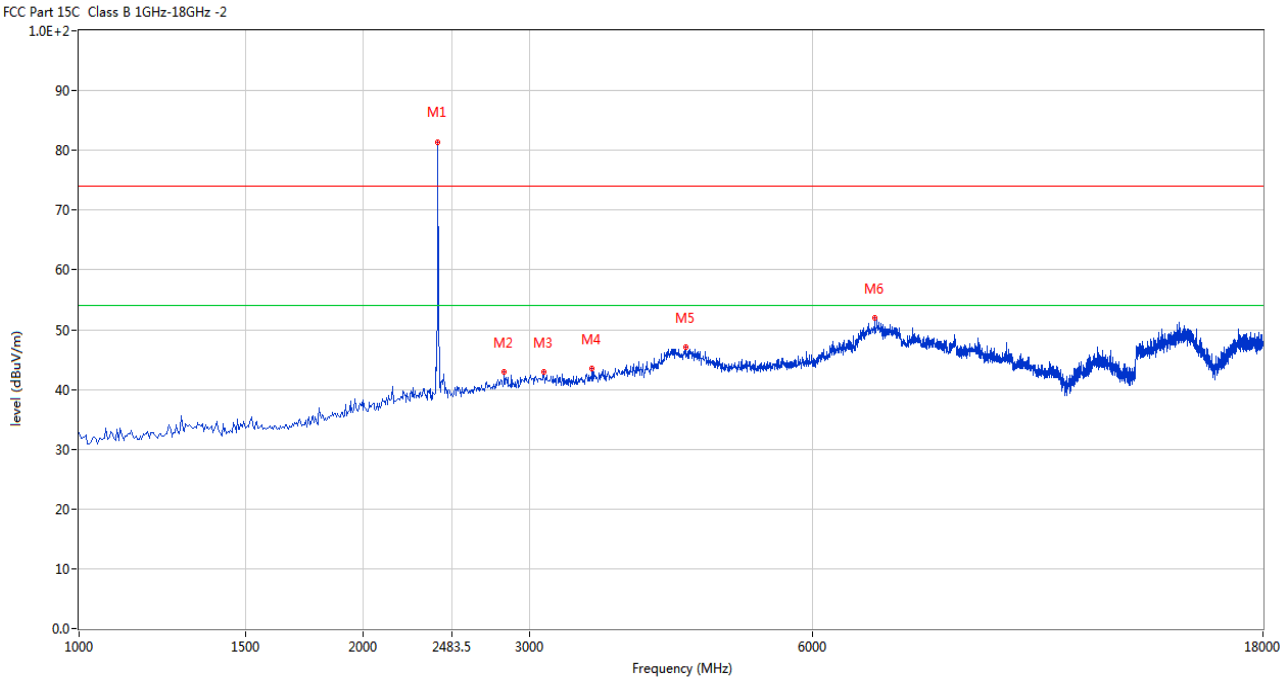
Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	81.41	-3.57	114.0	-32.59	Peak	6.00	100	Vertical	Pass
2	2822.794	42.90	-2.69	74.0	-31.10	Peak	302.00	100	Vertical	Pass
3	3107.473	42.85	-2.18	74.0	-31.15	Peak	355.00	100	Vertical	Pass
4	3498.375	43.56	-1.10	74.0	-30.44	Peak	171.00	100	Vertical	Pass
5	4394.901	47.07	1.99	74.0	-26.93	Peak	141.00	100	Vertical	Pass
6	6974.006	51.89	7.89	74.0	-22.11	Peak	292.00	100	Vertical	Pass

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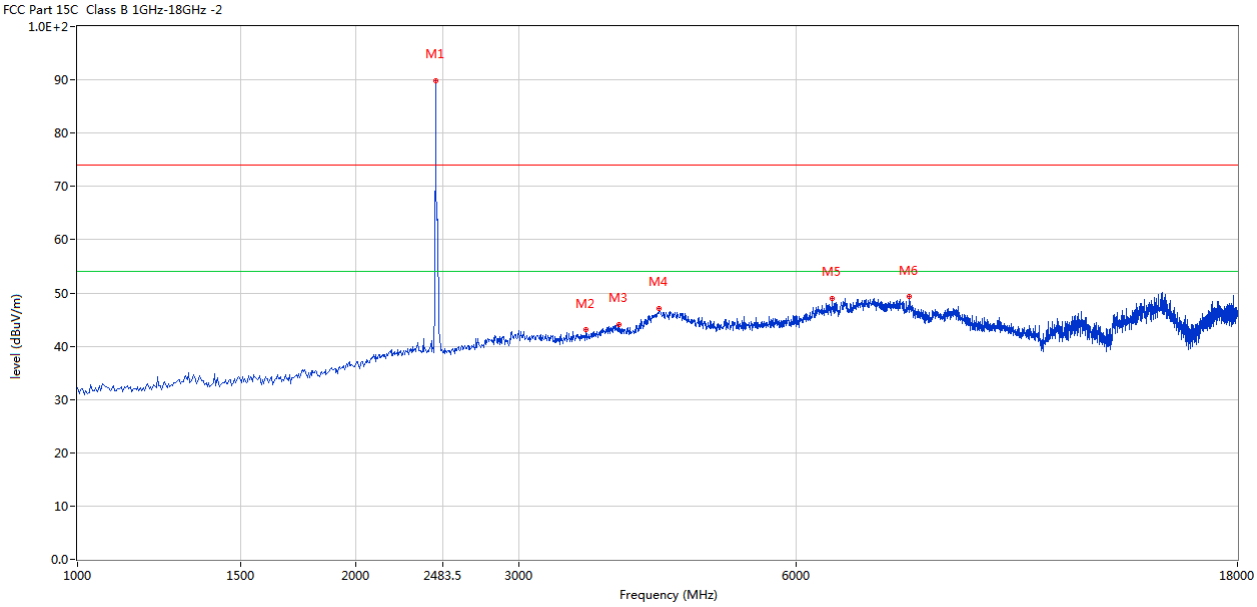
Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2441	89.82	-3.57	114.0	-24.18	Peak	301.00	100	Horizontal	Pass
2	3553.612	43.16	-0.82	74.0	-30.84	Peak	296.00	100	Horizontal	Pass
3	3855.286	44.00	0.59	74.0	-30.00	Peak	264.00	100	Horizontal	Pass
4	4258.935	47.16	1.74	74.0	-26.84	Peak	343.00	100	Horizontal	Pass
5	6557.611	49.06	6.02	74.0	-24.94	Peak	46.00	100	Horizontal	Pass
6	7951.262	52.32	8.46	74.0	-21.68	Peak	151.00	100	Horizontal	Pass

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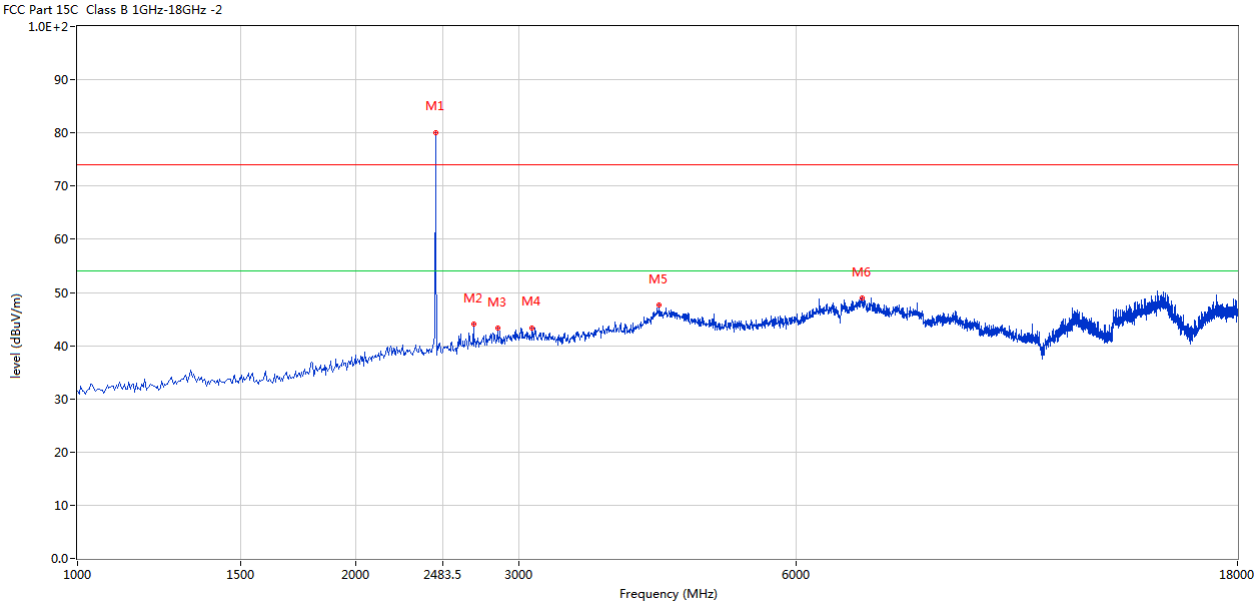
Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2441	80.09	-3.57	114.0	-33.91	Peak	1.00	100	Vertical	Pass
2	2682.579	44.01	-3.02	74.0	-29.99	Peak	57.00	100	Vertical	Pass
3	2848.288	43.23	-2.68	74.0	-30.77	Peak	252.00	100	Vertical	Pass
4	3103.224	43.39	-2.19	74.0	-30.61	Peak	226.00	100	Vertical	Pass
5	4258.935	47.59	1.74	74.0	-26.41	Peak	94.00	100	Vertical	Pass
6	7063.234	51.89	8.03	74.0	-22.11	Peak	317.00	100	Vertical	Pass

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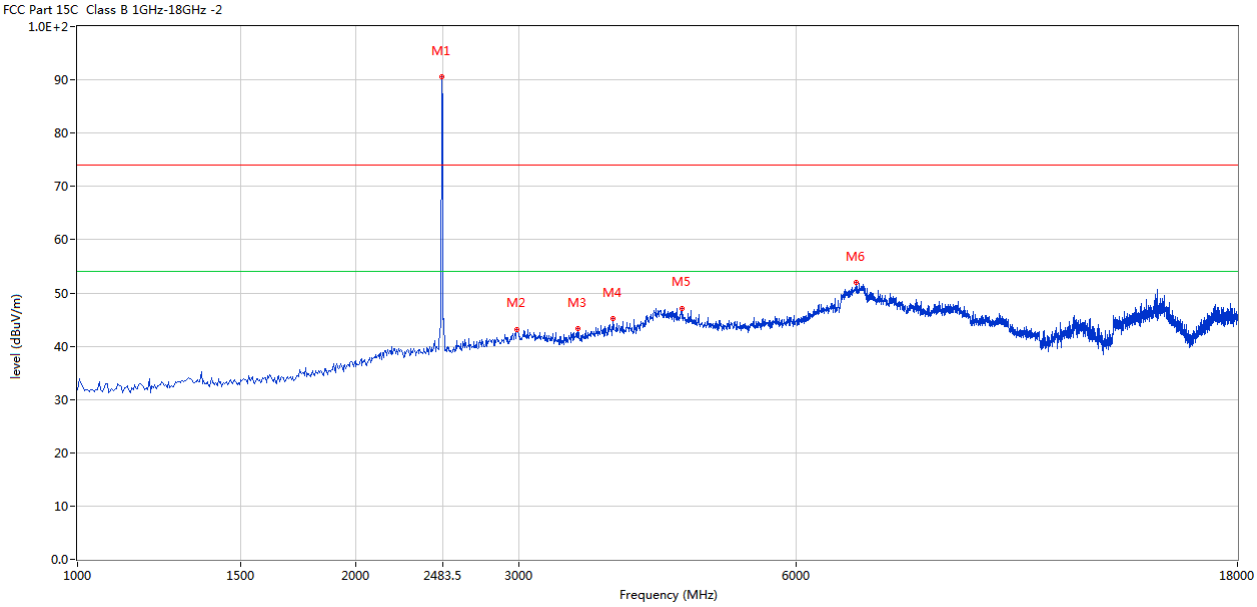
Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	90.52	-3.57	114.0	-23.48	Peak	11.00	100	Horizontal	Pass
2	2988.503	43.16	-2.64	74.0	-30.84	Peak	317.00	100	Horizontal	Pass
3	3481.380	43.28	-1.22	74.0	-30.72	Peak	317.00	100	Horizontal	Pass
4	3800.050	45.17	0.31	74.0	-28.83	Peak	249.00	100	Horizontal	Pass
5	4505.374	47.12	2.23	74.0	-26.88	Peak	33.00	100	Horizontal	Pass
6	6957.011	51.95	7.82	74.0	-22.05	Peak	43.00	100	Horizontal	Pass

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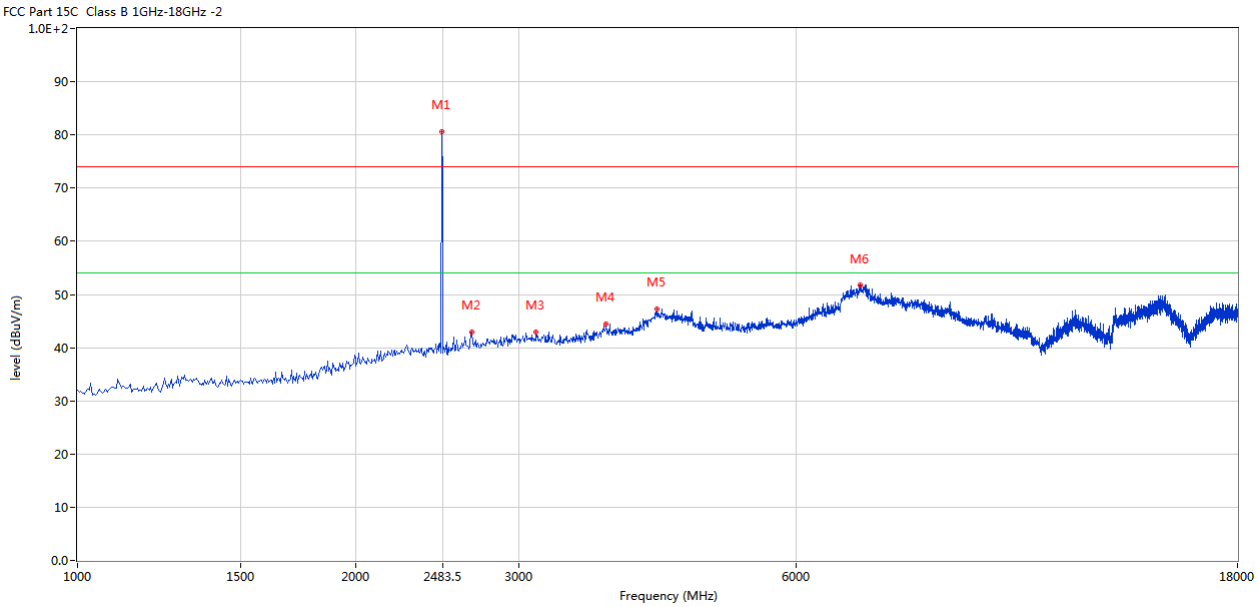
Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	80.61	-3.57	114.0	-33.39	Peak	3.00	100	Vertical	Pass
2	2669.833	42.95	-3.07	74.0	-31.05	Peak	40.00	100	Vertical	Pass
3	3137.216	42.87	-2.11	74.0	-31.13	Peak	270.00	100	Vertical	Pass
4	3732.067	44.41	-0.05	74.0	-29.59	Peak	275.00	100	Vertical	Pass
5	4237.691	47.35	1.69	74.0	-26.65	Peak	55.00	100	Vertical	Pass
6	7037.741	51.85	8.02	74.0	-22.15	Peak	204.00	100	Vertical	Pass

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

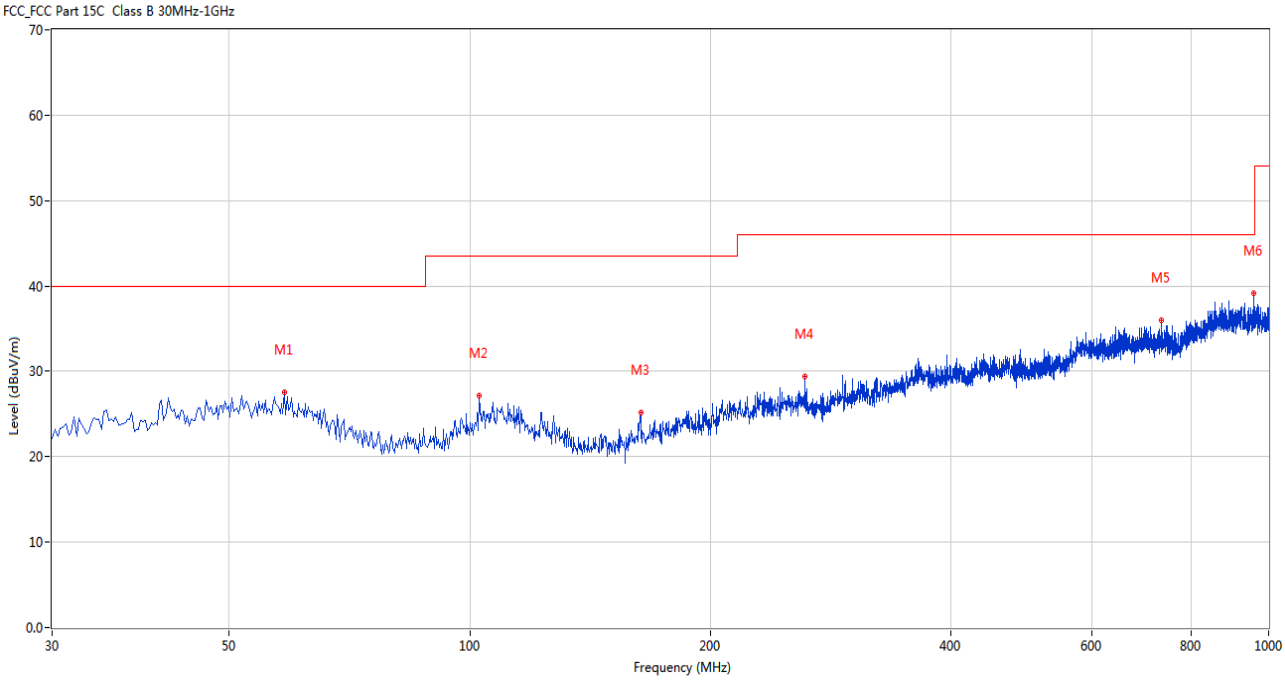
Left Part

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	58.608	27.60	-5.11	40.0	12.40	Peak	218.00	100	Horizontal	Pass
2	102.732	27.12	-6.76	43.5	16.38	Peak	207.00	100	Horizontal	Pass
3	163.584	25.16	-9.71	43.5	18.34	Peak	200.00	100	Horizontal	Pass
4	262.984	29.43	-5.13	46.0	16.57	Peak	13.00	100	Horizontal	Pass
5	734.529	36.02	2.30	46.0	9.98	Peak	13.00	100	Horizontal	Pass
6	959.028	39.17	5.20	46.0	6.83	Peak	300.00	100	Horizontal	Pass

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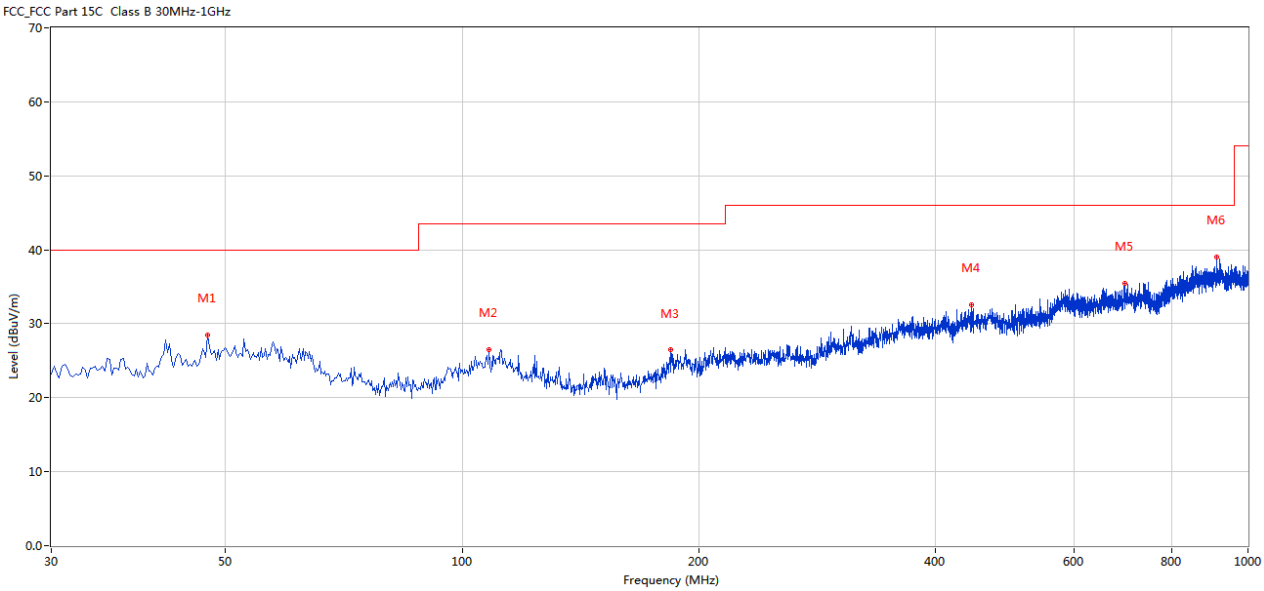
Radiated Emission In Vertical (30MHz----1000MHz)

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	47.456	28.51	-5.55	40.0	11.49	Peak	357.00	100	Vertical	Pass
2	108.308	26.47	-5.98	43.5	17.03	Peak	157.00	100	Vertical	Pass
3	184.191	26.44	-7.27	43.5	17.06	Peak	133.00	100	Vertical	Pass
4	445.056	32.53	-0.90	46.0	13.47	Peak	185.00	100	Vertical	Pass
5	696.223	35.47	2.42	46.0	10.53	Peak	121.00	100	Vertical	Pass
6	911.752	39.04	5.23	46.0	6.96	Peak	311.00	100	Vertical	Pass

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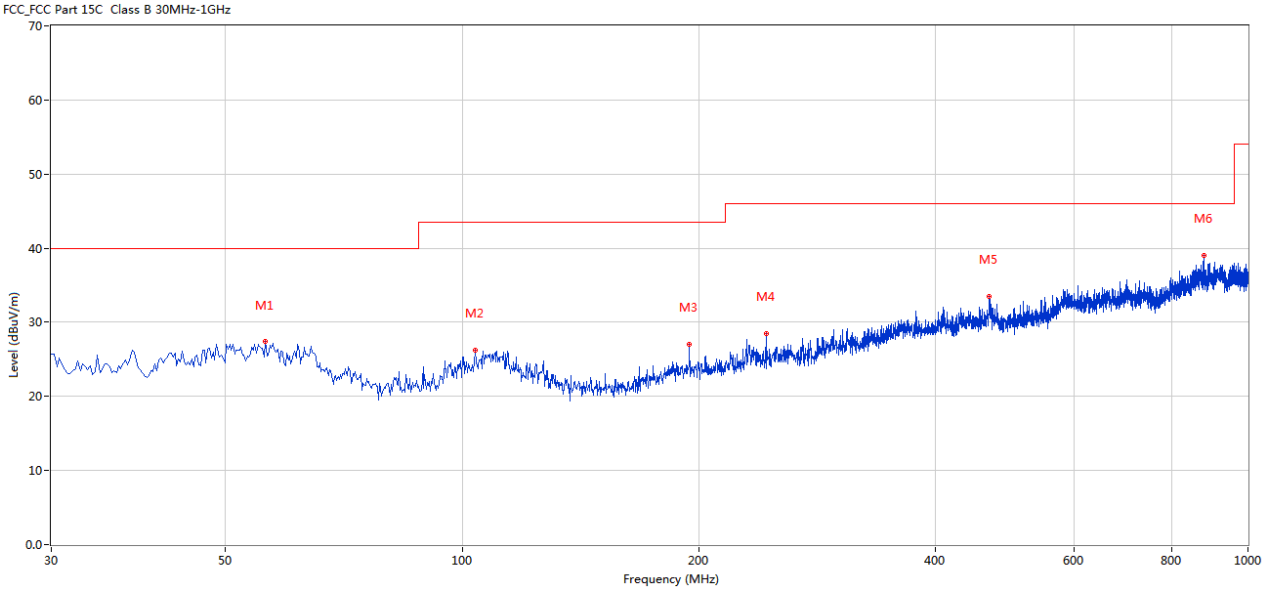
Right Part

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	56.183	27.36	-5.04	40.0	12.64	Peak	184.00	100	Horizontal	Pass
2	103.944	26.28	-6.49	43.5	17.22	Peak	312.00	100	Horizontal	Pass
3	194.616	26.97	-7.16	43.5	16.53	Peak	344.00	100	Horizontal	Pass
4	243.589	28.42	-5.48	46.0	17.58	Peak	174.00	100	Horizontal	Pass
5	468.330	33.49	-0.14	46.0	12.51	Peak	213.00	100	Horizontal	Pass
6	879.750	39.03	5.15	46.0	6.97	Peak	188.00	100	Horizontal	Pass

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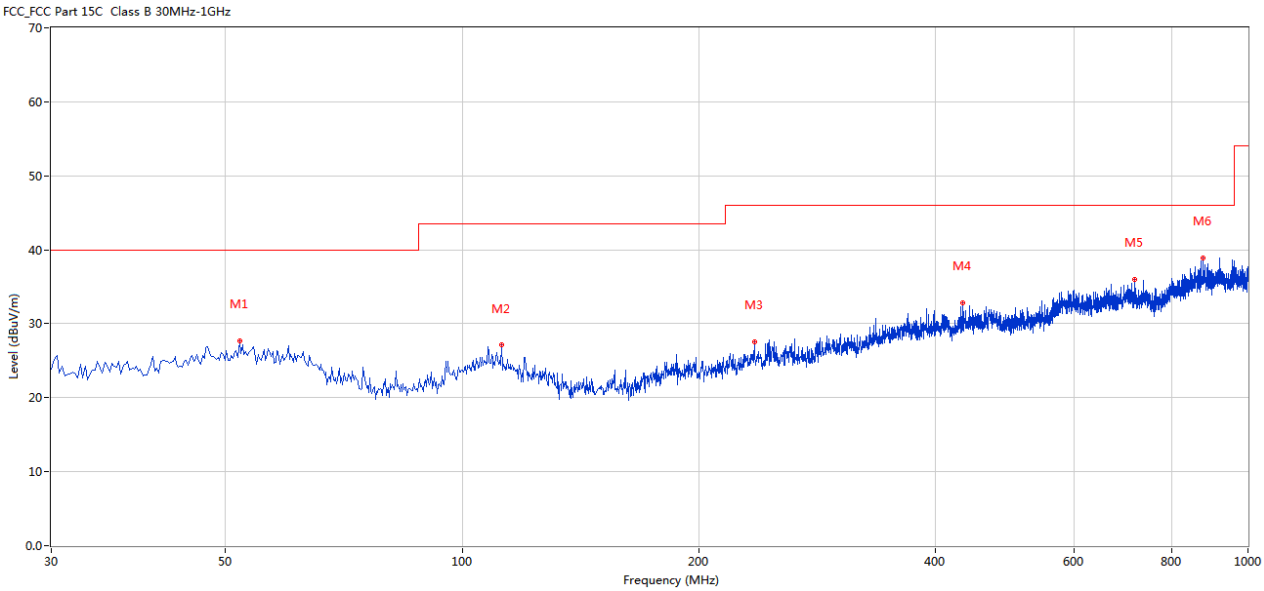
Radiated Emission In Vertical (30MHz----1000MHz)

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	52.062	27.71	-4.83	40.0	12.29	Peak	325.00	100	Vertical	Pass
2	112.187	27.10	-6.18	43.5	16.40	Peak	256.00	100	Vertical	Pass
3	235.589	27.53	-5.33	46.0	18.47	Peak	271.00	100	Vertical	Pass
4	433.904	32.87	-0.95	46.0	13.13	Peak	243.00	100	Vertical	Pass
5	717.801	35.96	1.97	46.0	10.04	Peak	209.00	100	Vertical	Pass
6	876.113	38.93	5.00	46.0	7.07	Peak	216.00	100	Vertical	Pass

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7. Band Edge

7.1 Test Method and test Procedure:

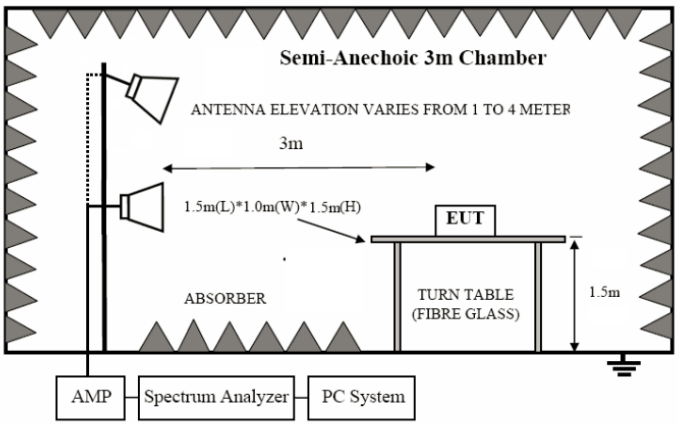
(1) The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189

(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.

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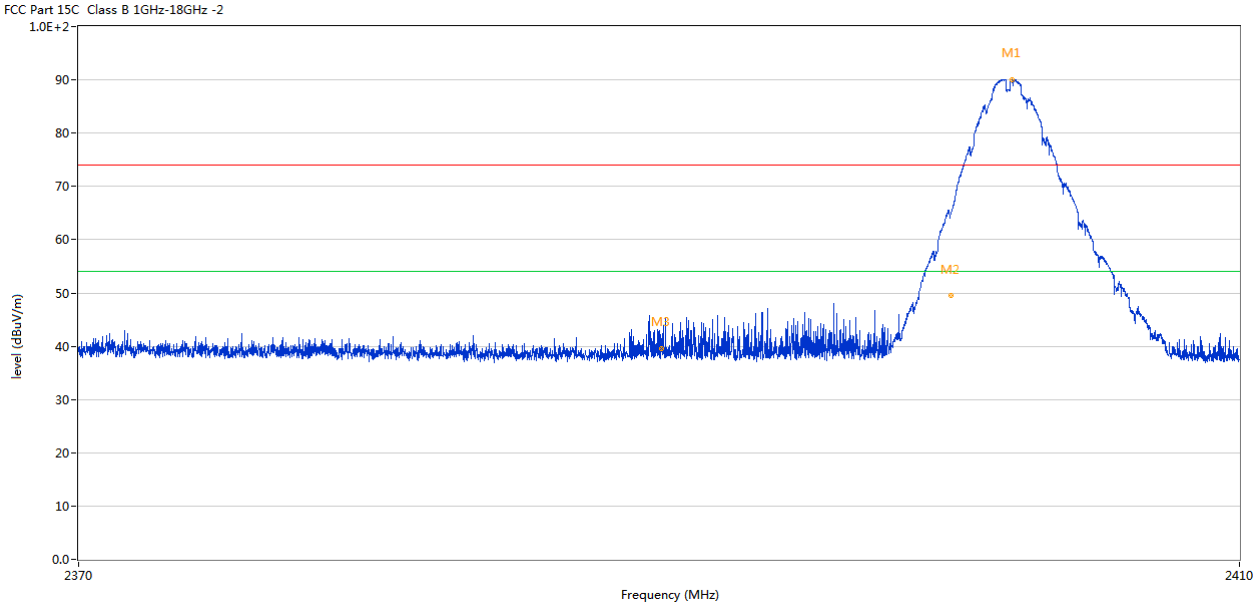
7.6 Test Result

Left Part

Product:	OWS Wireless Earphone	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	2402.102	90.04	-3.57	74.0	16.04	Peak	13.00	100	Horizontal	N/A
2	2400.000	64.94	-3.57	74.0	-9.06	Peak	20.00	100	Horizontal	Pass
2**	2400.000	49.60	-3.57	54.0	-4.40	AV	20.00	100	Horizontal	Pass
3	2390.000	39.63	-3.53	74.0	-34.37	Peak	172.50	100	Horizontal	Pass

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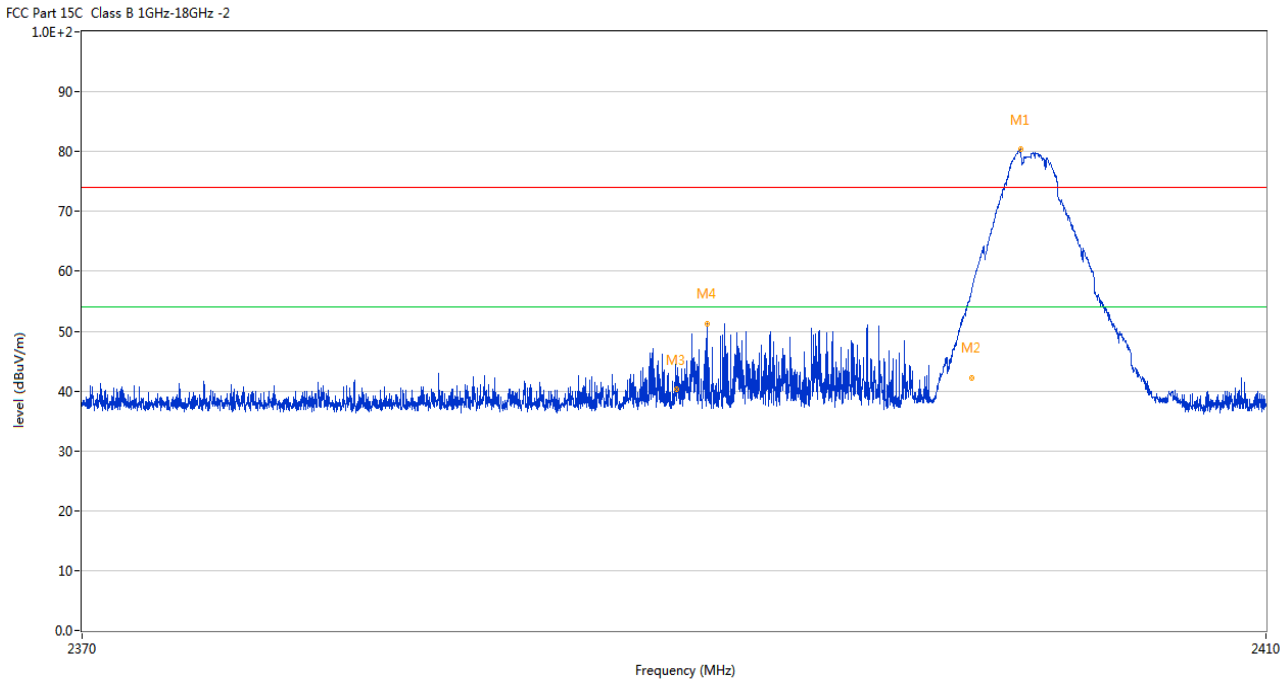
Product:	OWS Wireless Earphone	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2401.652	80.42	-3.57	74.0	6.42	Peak	347.00	100	Vertical	N/A
2	2400.000	56.79	-3.57	74.0	-17.21	Peak	7.00	100	Vertical	Pass
2**	2400.000	42.24	-3.57	54.0	-11.76	AV	7.00	100	Vertical	Pass
3	2390.000	40.22	-3.53	74.0	-33.78	Peak	356.00	100	Vertical	Pass
4	2391.055	51.22	-3.53	74.0	-22.78	Peak	352.00	100	Vertical	Pass

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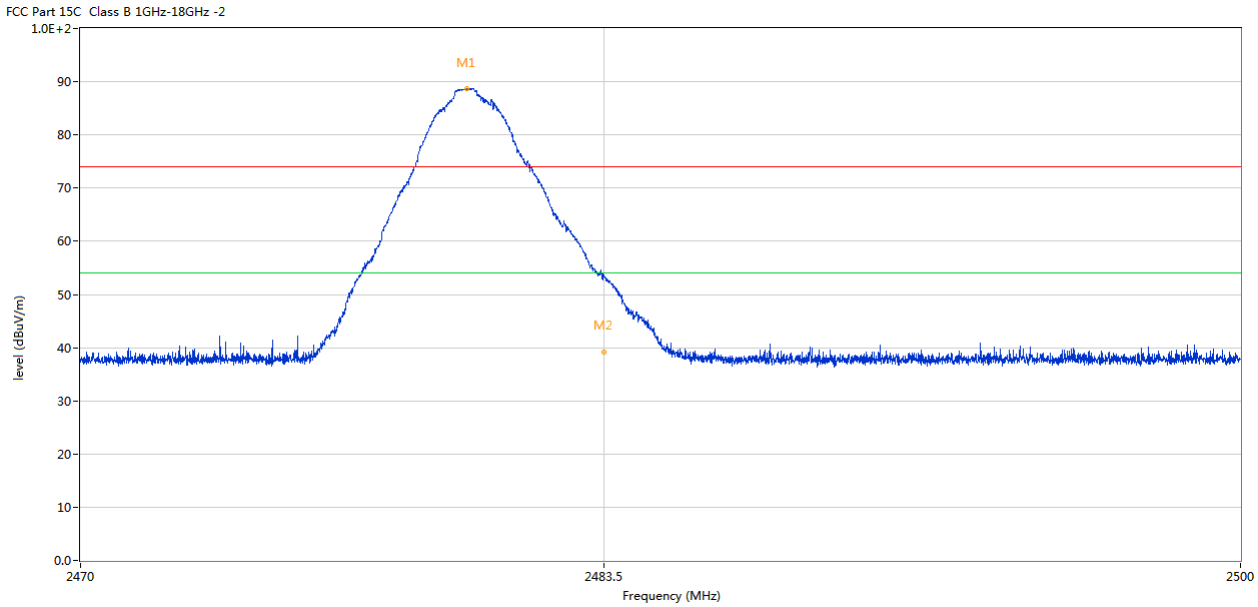
Product:	OWS Wireless Earphone	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2479.958	88.66	-3.57	74.0	14.66	Peak	7.00	100	Horizontal	N/A
2	2483.500	53.52	-3.57	74.0	-20.48	Peak	7.00	100	Horizontal	Pass
2**	2483.500	39.21	-3.57	54.0	-14.79	AV	7.00	100	Horizontal	Pass

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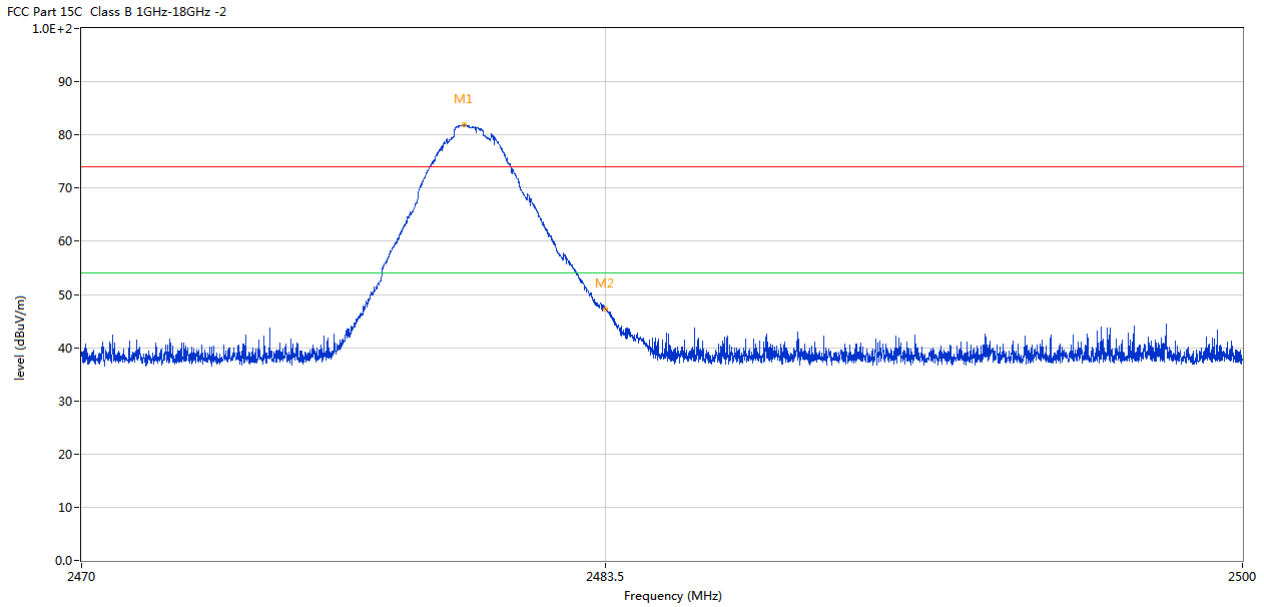
Product:	OWS Wireless Earphone	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2479.838	81.90	-3.57	74.0	7.90	Peak	25.00	100	Vertical	N/A
2	2483.500	47.31	-3.57	74.0	-26.69	Peak	25.00	100	Vertical	Pass

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

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

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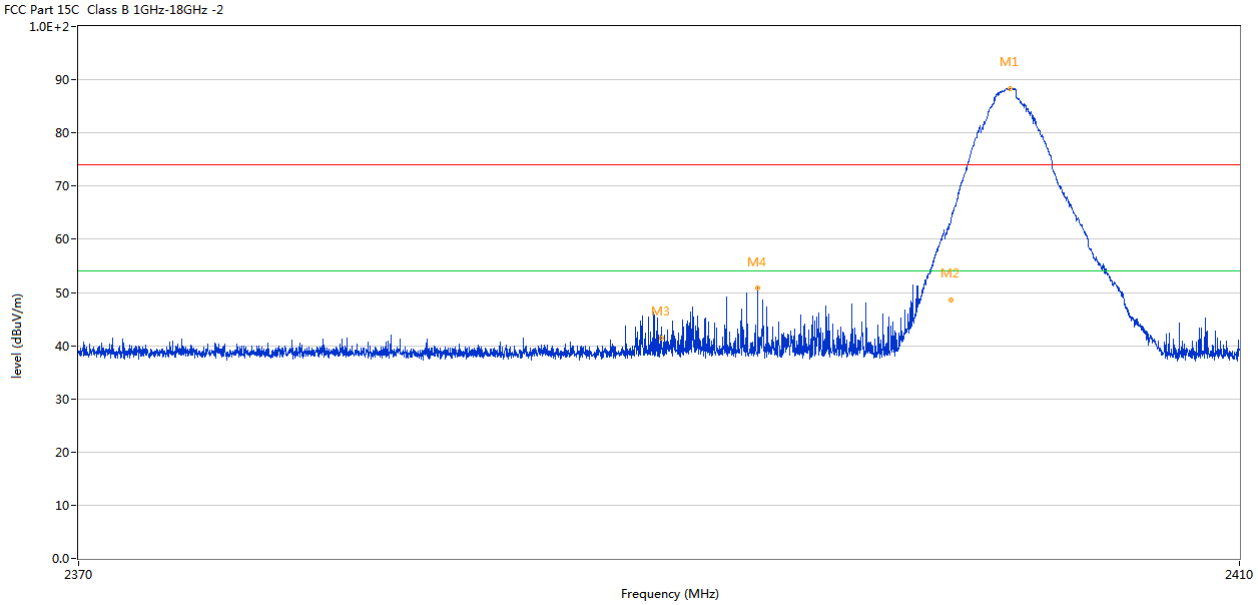
Right Part

Product:	OWS Wireless Earphone	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	2402.052	88.41	-3.57	74.0	14.41	Peak	10.00	100	Horizontal	N/A
2	2400.000	63.38	-3.57	74.0	-10.62	Peak	15.00	100	Horizontal	Pass
2**	2400.000	48.50	-3.57	54.0	-5.50	AV	15.00	100	Horizontal	Pass
3	2390.000	41.39	-3.53	74.0	-32.61	Peak	234.00	100	Horizontal	Pass
4	2393.324	50.81	-3.54	74.0	-23.19	Peak	50.00	100	Horizontal	Pass

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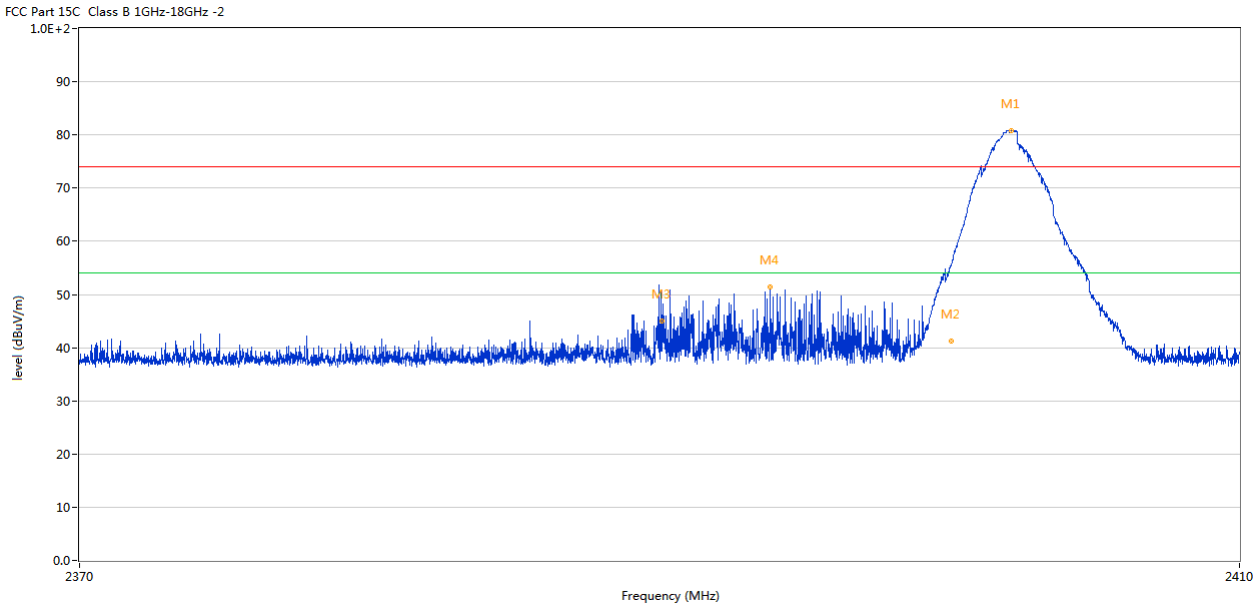
Product:	OWS Wireless Earphone	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402.082	80.87	-3.57	74.0	6.87	Peak	342.00	100	Vertical	N/A
2	2400.000	55.70	-3.57	74.0	-18.30	Peak	1.00	100	Vertical	Pass
2**	2400.000	41.29	-3.57	54.0	-12.71	AV	1.00	100	Vertical	Pass
3	2390.000	45.06	-3.53	74.0	-28.94	Peak	186.50	100	Vertical	Pass
4	2393.744	51.32	-3.54	74.0	-22.68	Peak	0.00	100	Vertical	Pass

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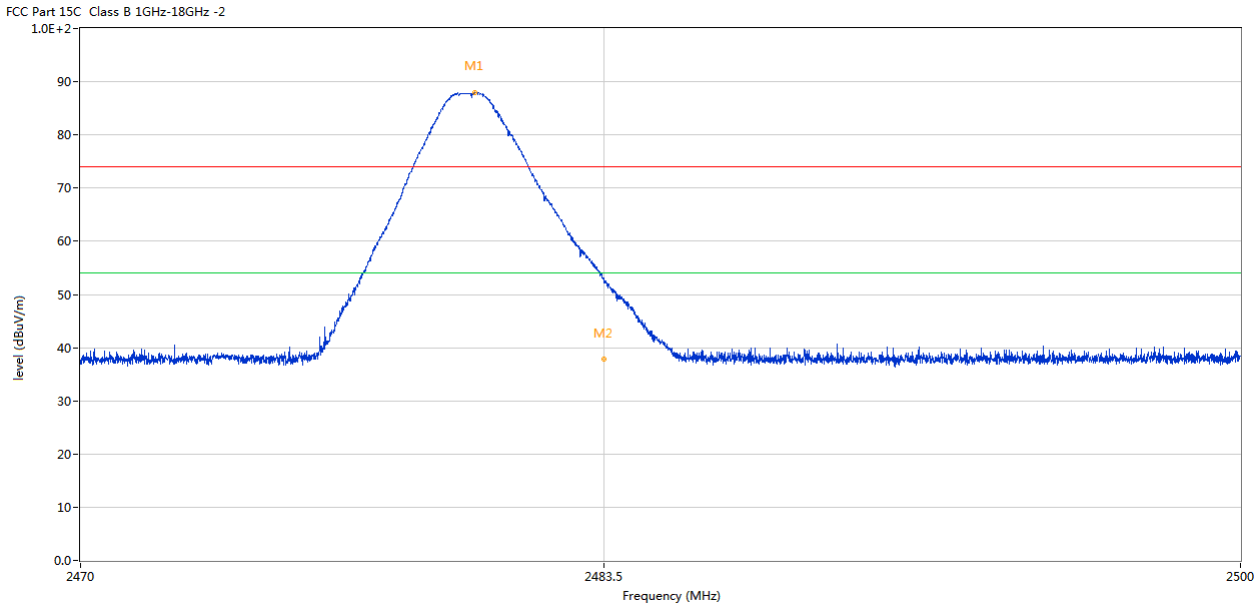
Product:	OWS Wireless Earphone	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480.167	88.03	-3.57	74.0	14.03	Peak	306.00	100	Horizontal	N/A
2	2483.500	52.71	-3.57	74.0	-21.29	Peak	311.00	100	Horizontal	Pass
2**	2483.500	37.92	-3.57	54.0	-16.08	AV	311.00	100	Horizontal	Pass

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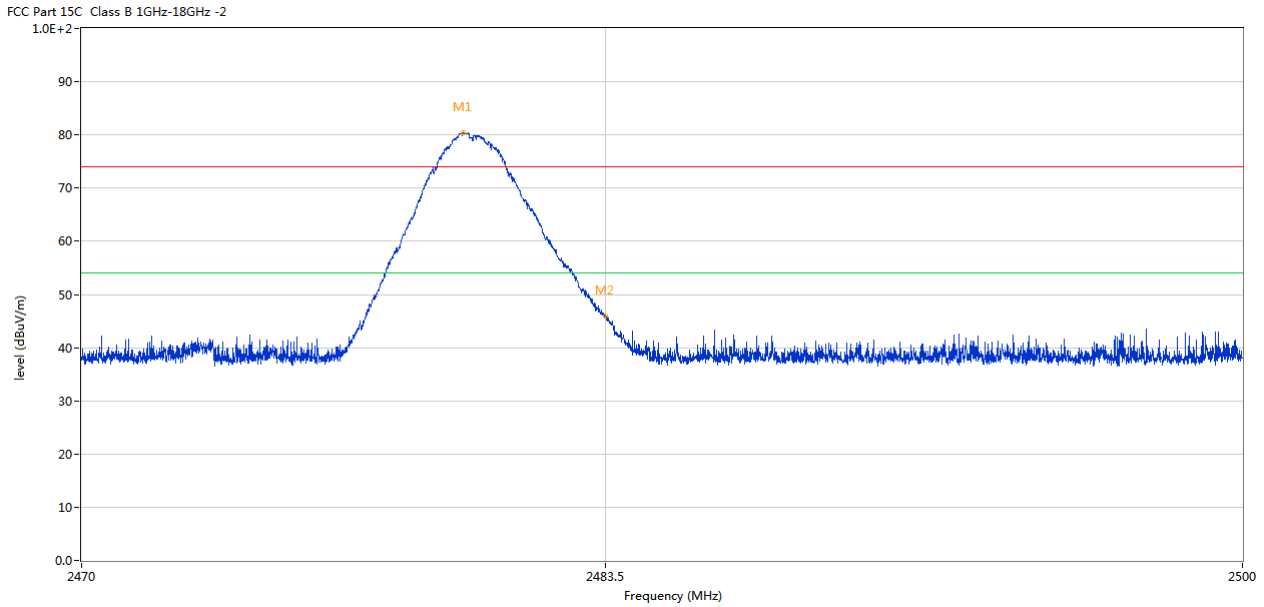
Product:	OWS Wireless Earphone	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2479.815	80.35	-3.57	74.0	6.35	Peak	6.00	100	Vertical	N/A
2	2483.500	45.88	-3.57	74.0	-28.12	Peak	6.00	100	Vertical	Pass

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

2. The two modulation modes of GFSK, Pi/4D-QPSK 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 with gain 3.0dBi maximum. It fulfills the requirement of this section.

Test Result: Pass

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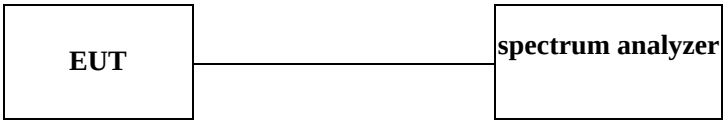
9.0 20dB Bandwidth Measurement

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

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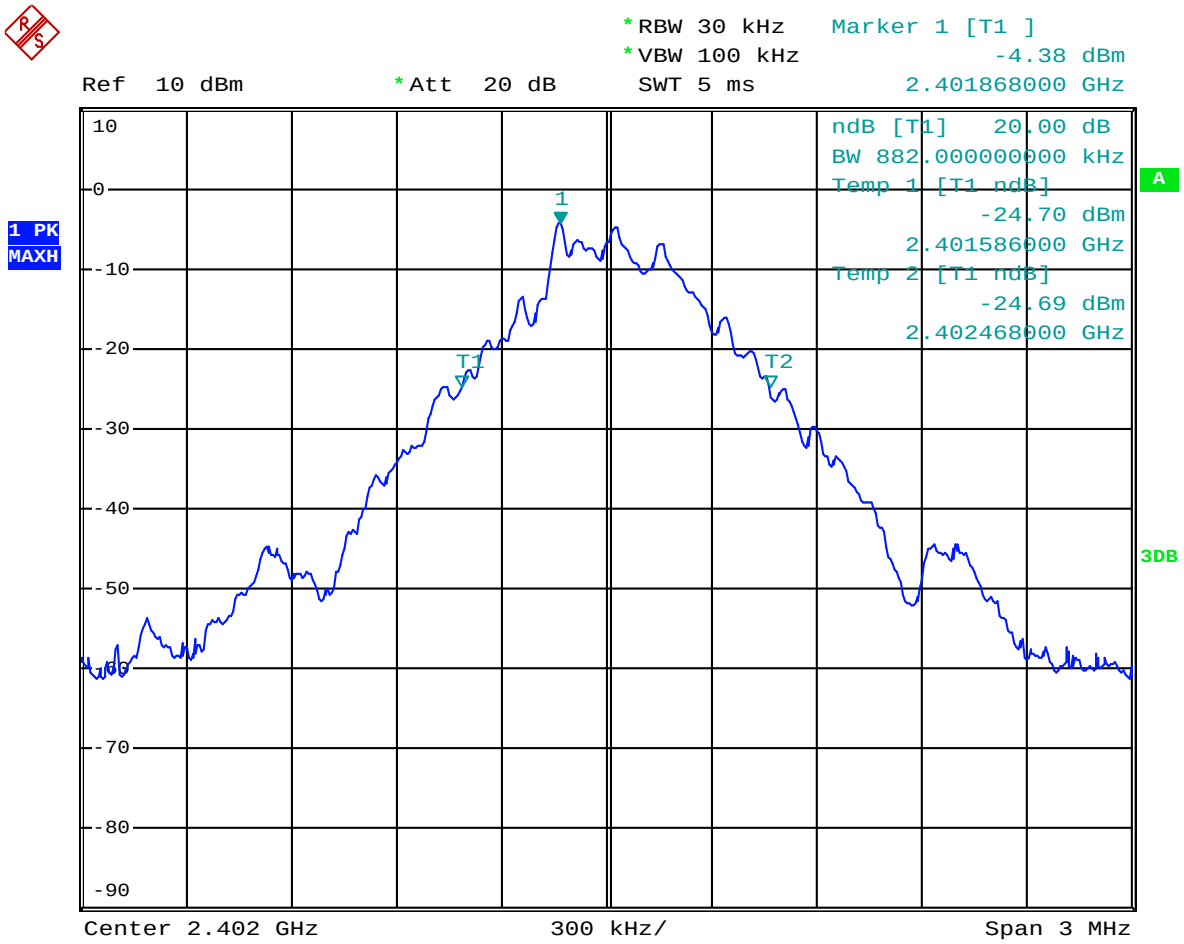
Test Result

Left Part

GFSK			
Product:	OWS Wireless Earphone	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	882kHz	--	--



Date: 9.MAY.2025 14:55:47

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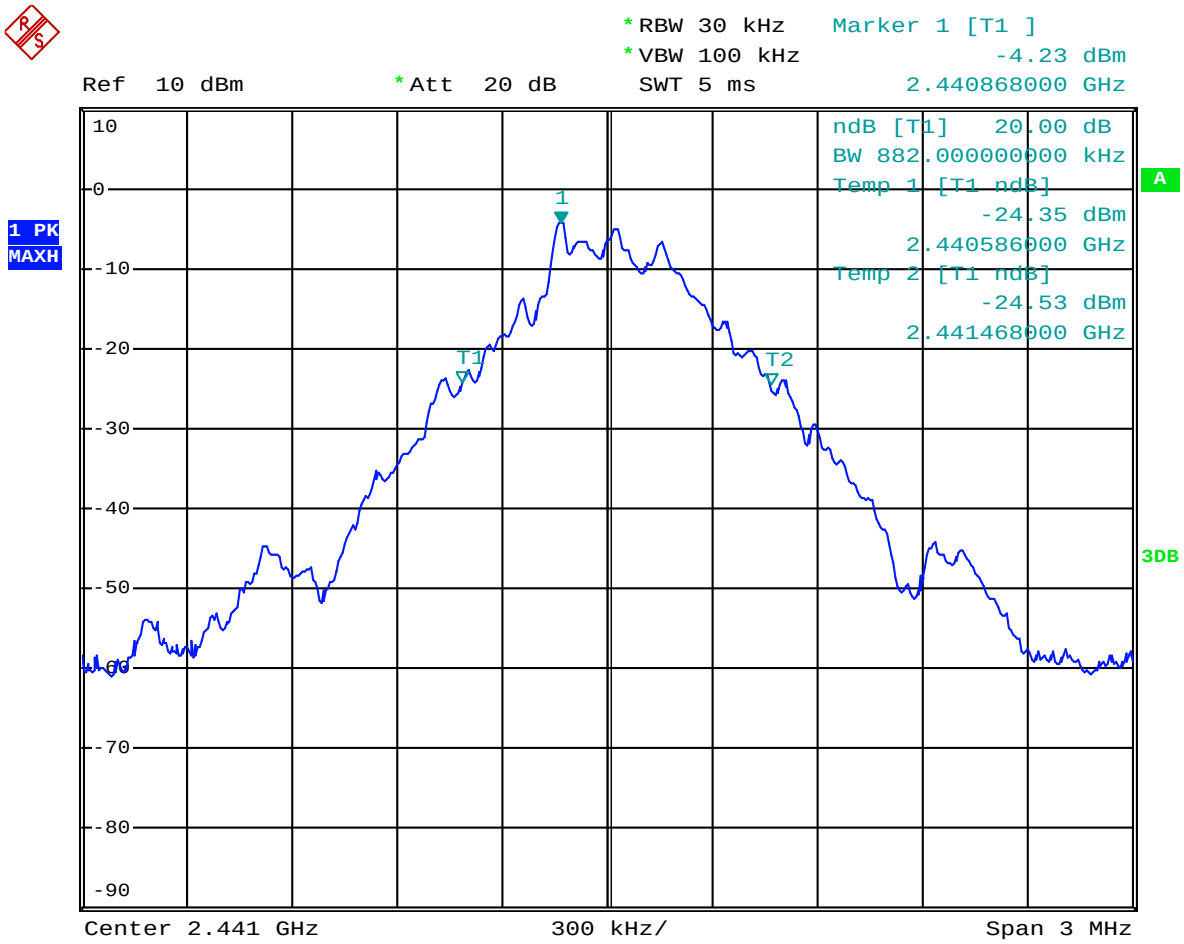
GFSK			
Product:	OWS Wireless Earphone	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	882kHz	--	--



Date: 9.MAY.2025 14:56:49

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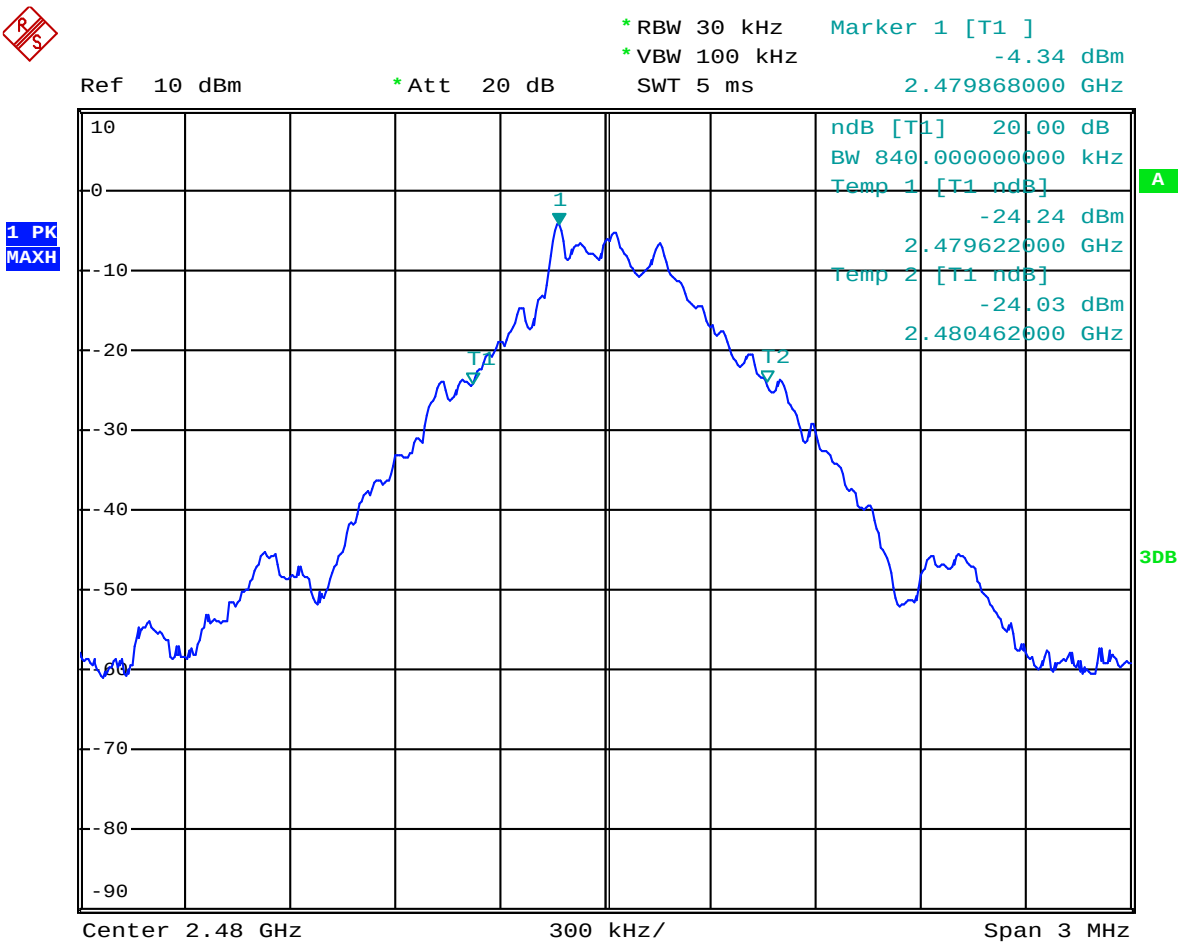
GFSK			
Product:	OWS Wireless Earphone	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	840kHz	--	--



Date: 9.MAY.2025 14:57:36

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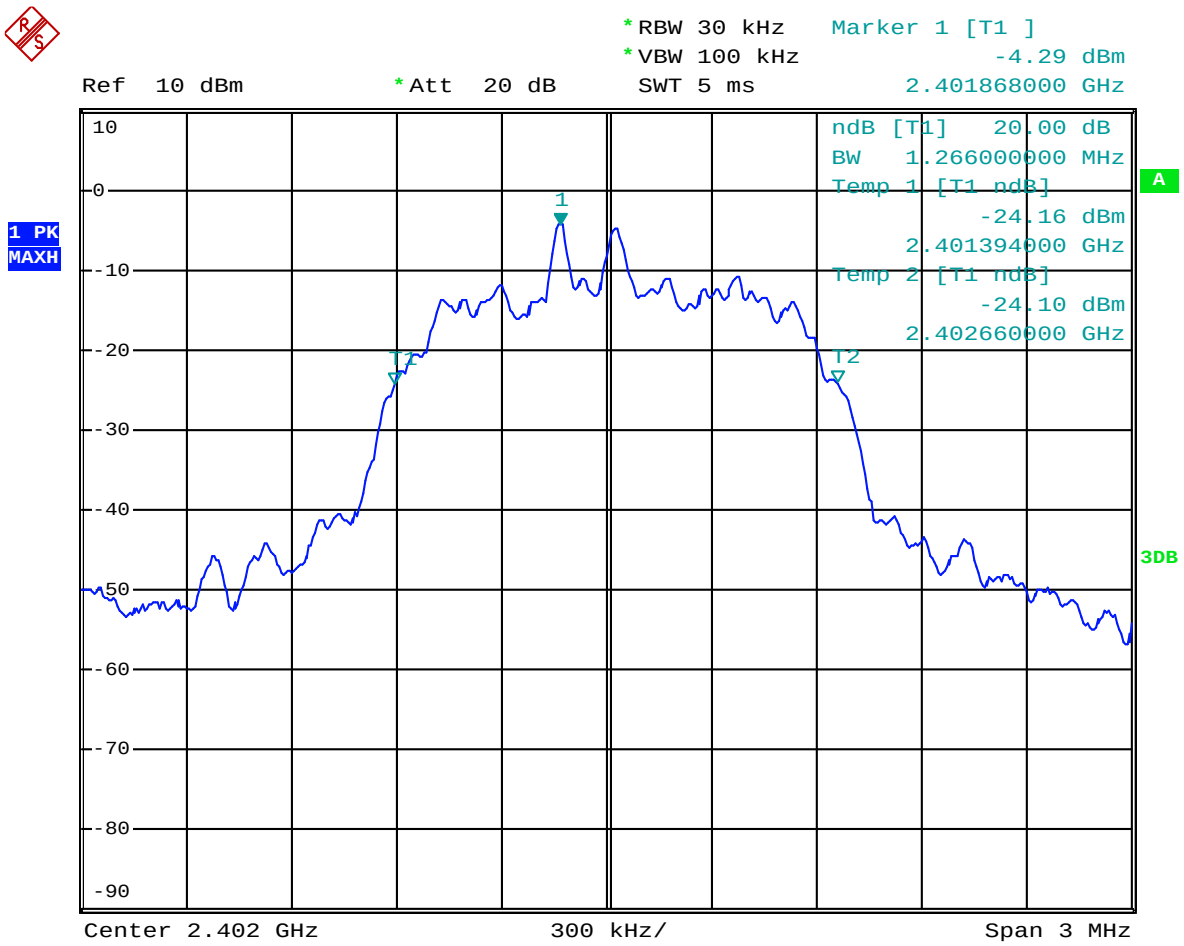
Л/4DQPSK			
Product:	OWS Wireless Earphone	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.266MHz	--	--



Date: 9.MAY.2025 15:03:26

The report refers only to the sample tested and does not apply to the bulk.
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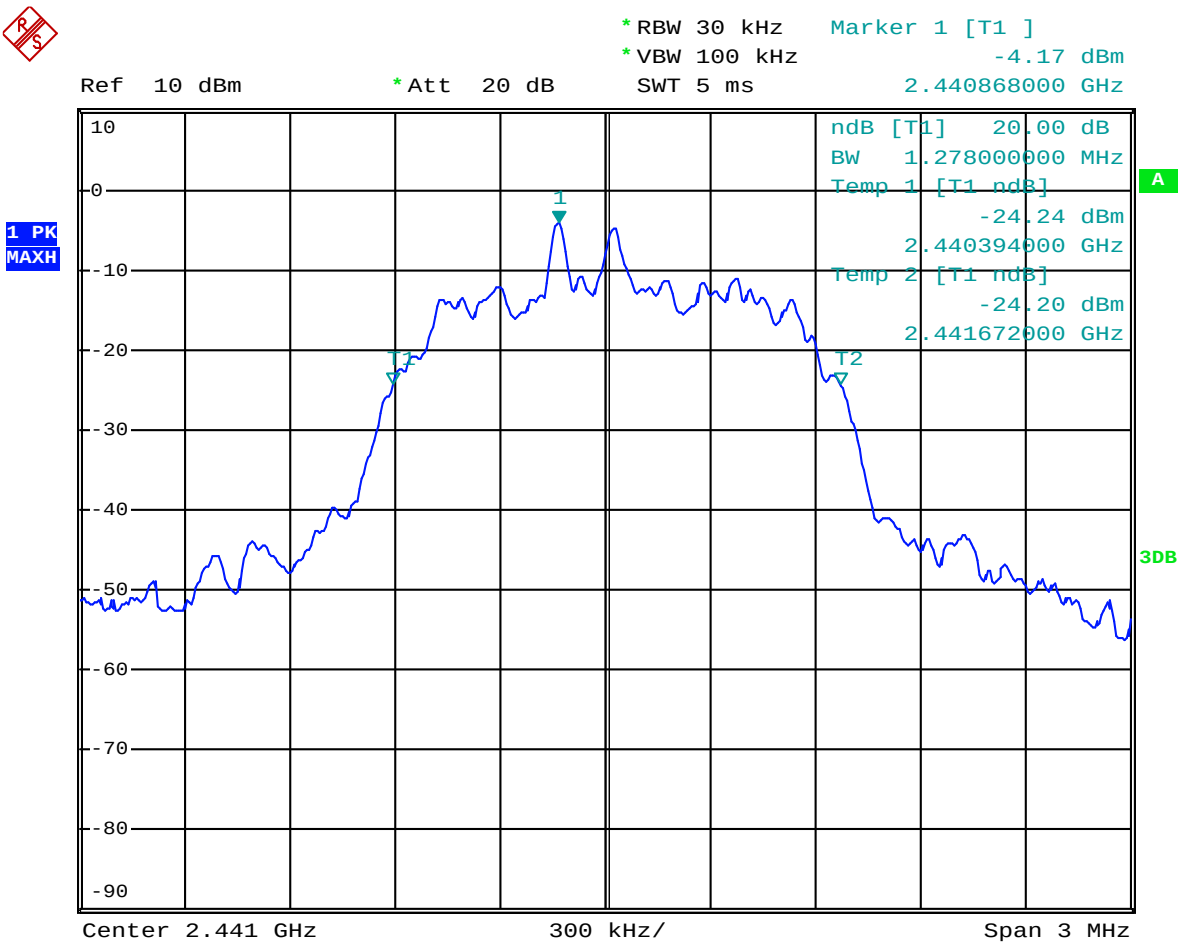
Л/4DQPSK			
Product:	OWS Wireless Earphone	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.278MHz	--	--



Date: 9.MAY.2025 15:07:00

The report refers only to the sample tested and does not apply to the bulk.
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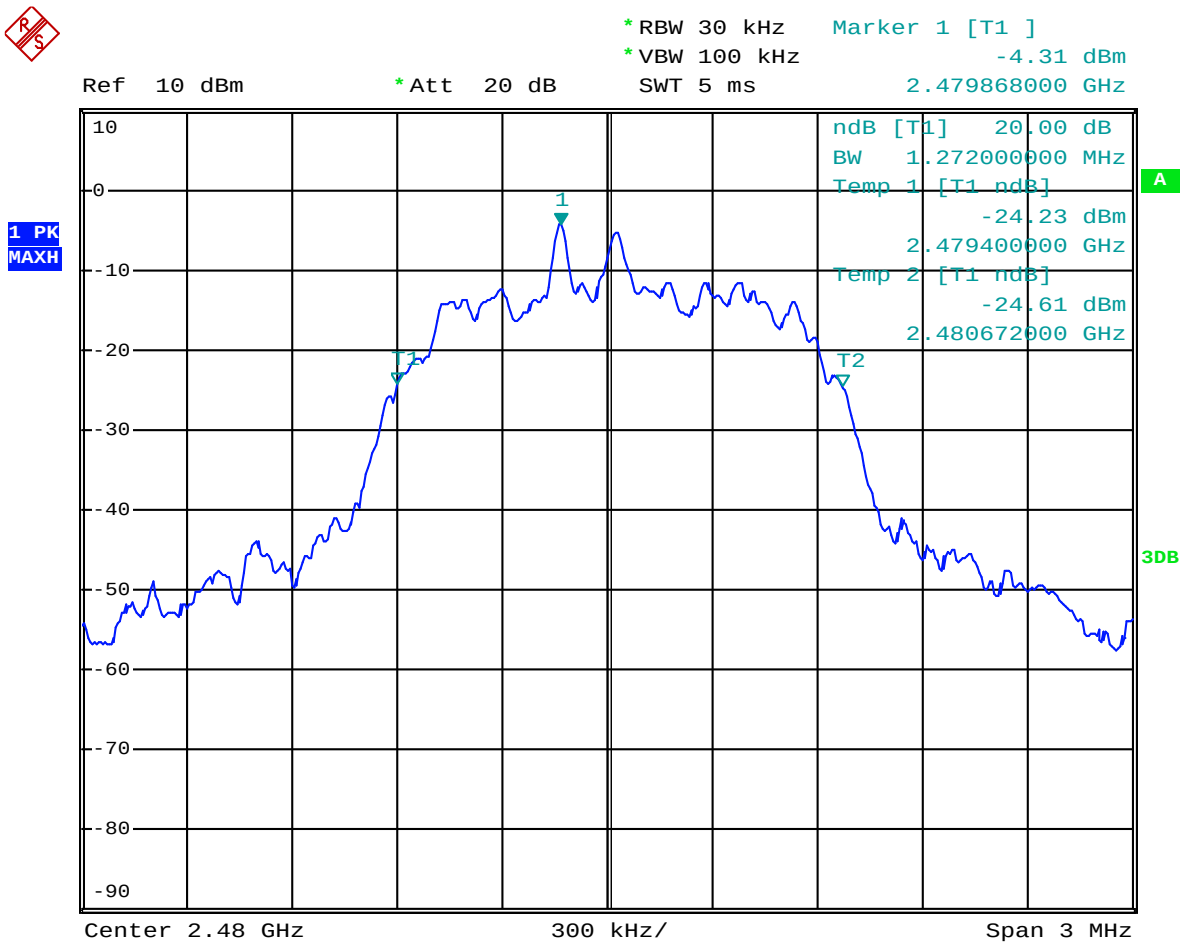
Л/4DQPSK			
Product:	OWS Wireless Earphone	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.272MHz	--	--



Date: 9.MAY.2025 15:07:32

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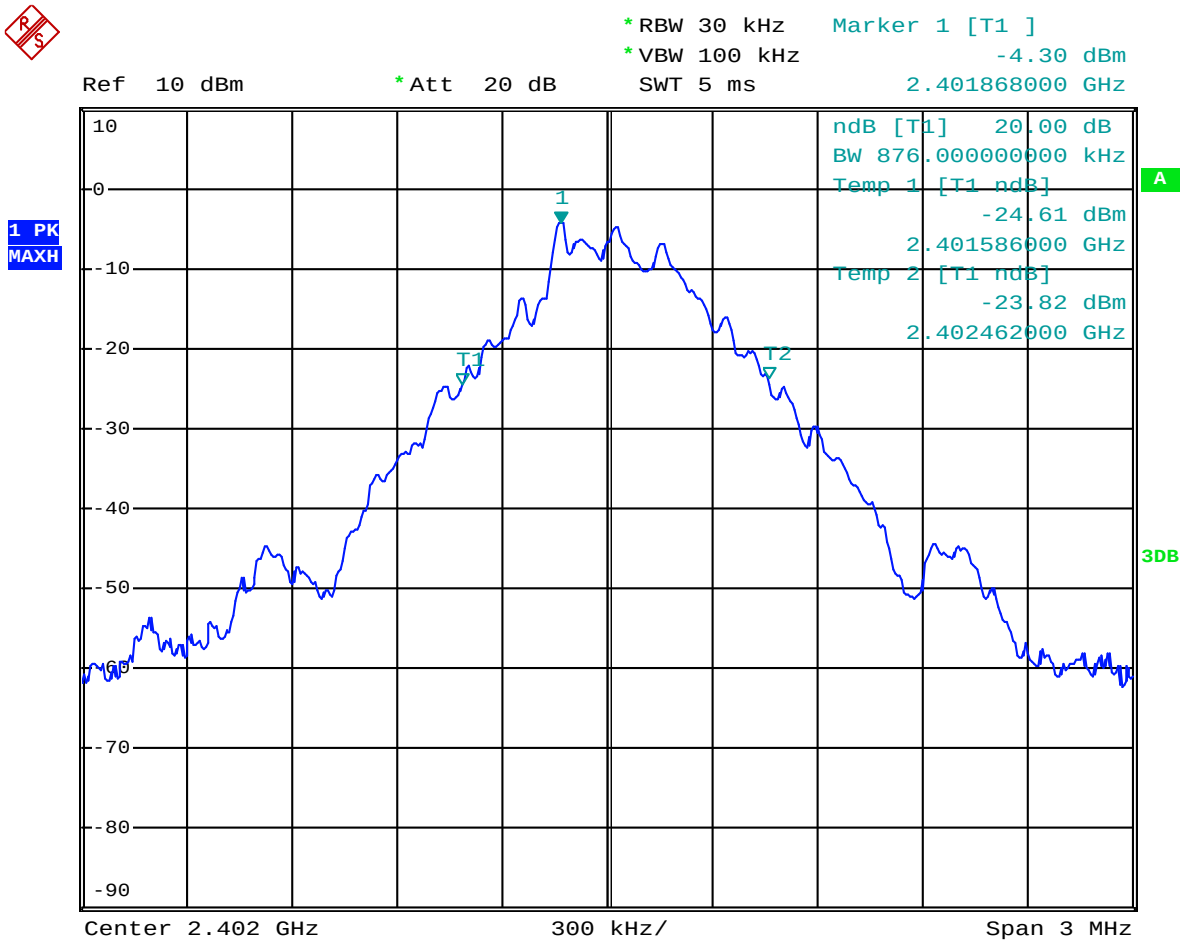
Right Part

GFSK			
Product:	OWS Wireless Earphone	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	876kHz	--	--



Date: 9.MAY.2025 15:24:59

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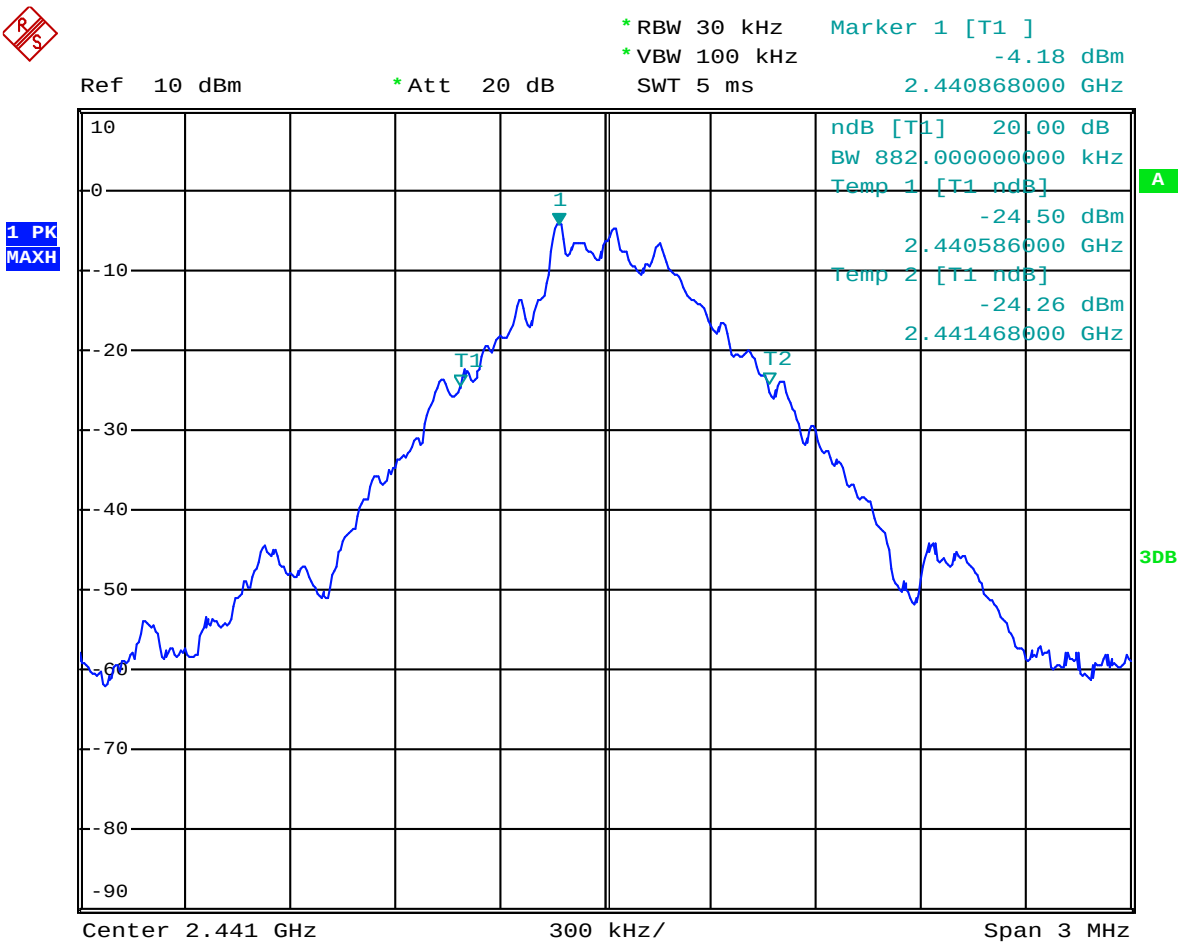
GFSK			
Product:	OWS Wireless Earphone	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	882kHz	--	--



Date: 9.MAY.2025 15:26:40

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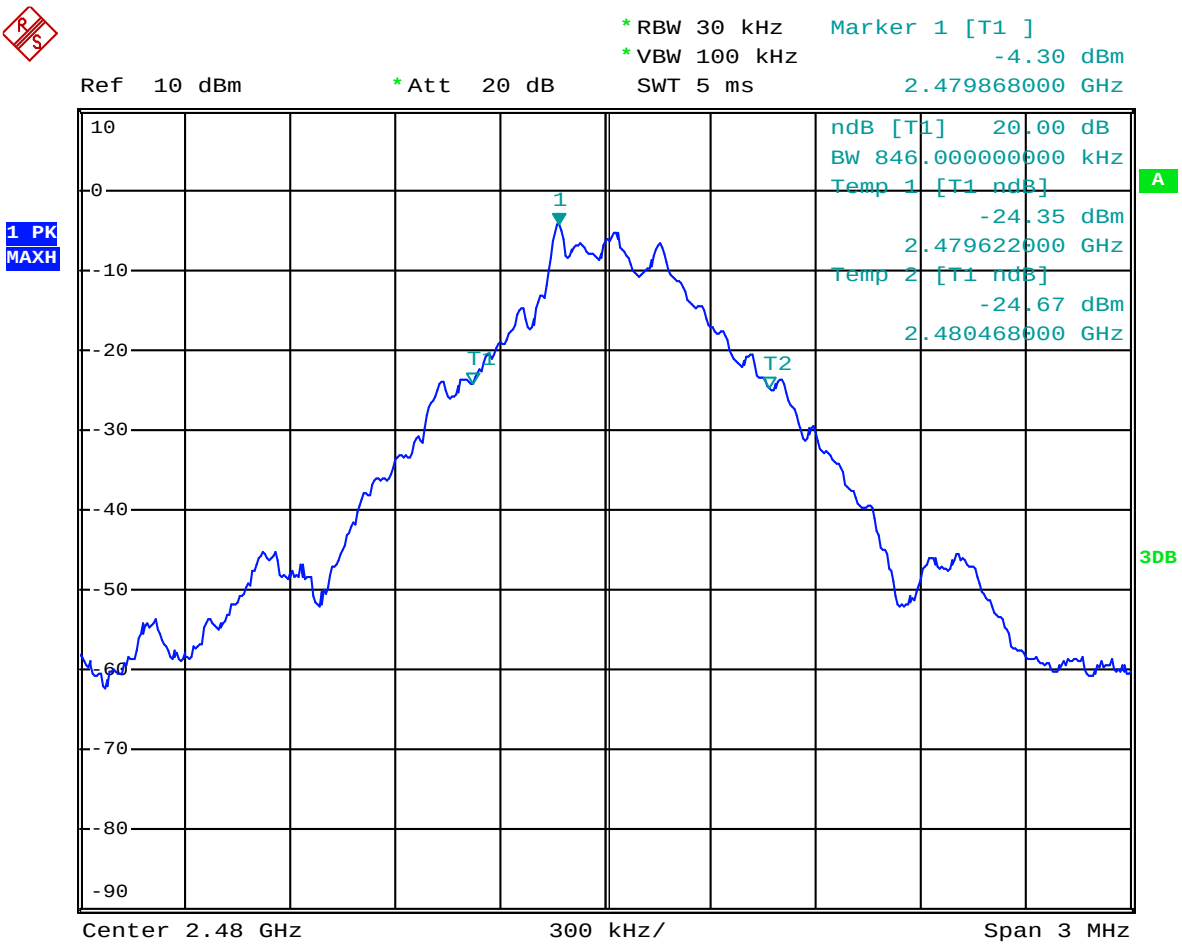
GFSK			
Product:	OWS Wireless Earphone	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	846kHz	--	--



Date: 9.MAY.2025 15:22:30

The report refers only to the sample tested and does not apply to the bulk.
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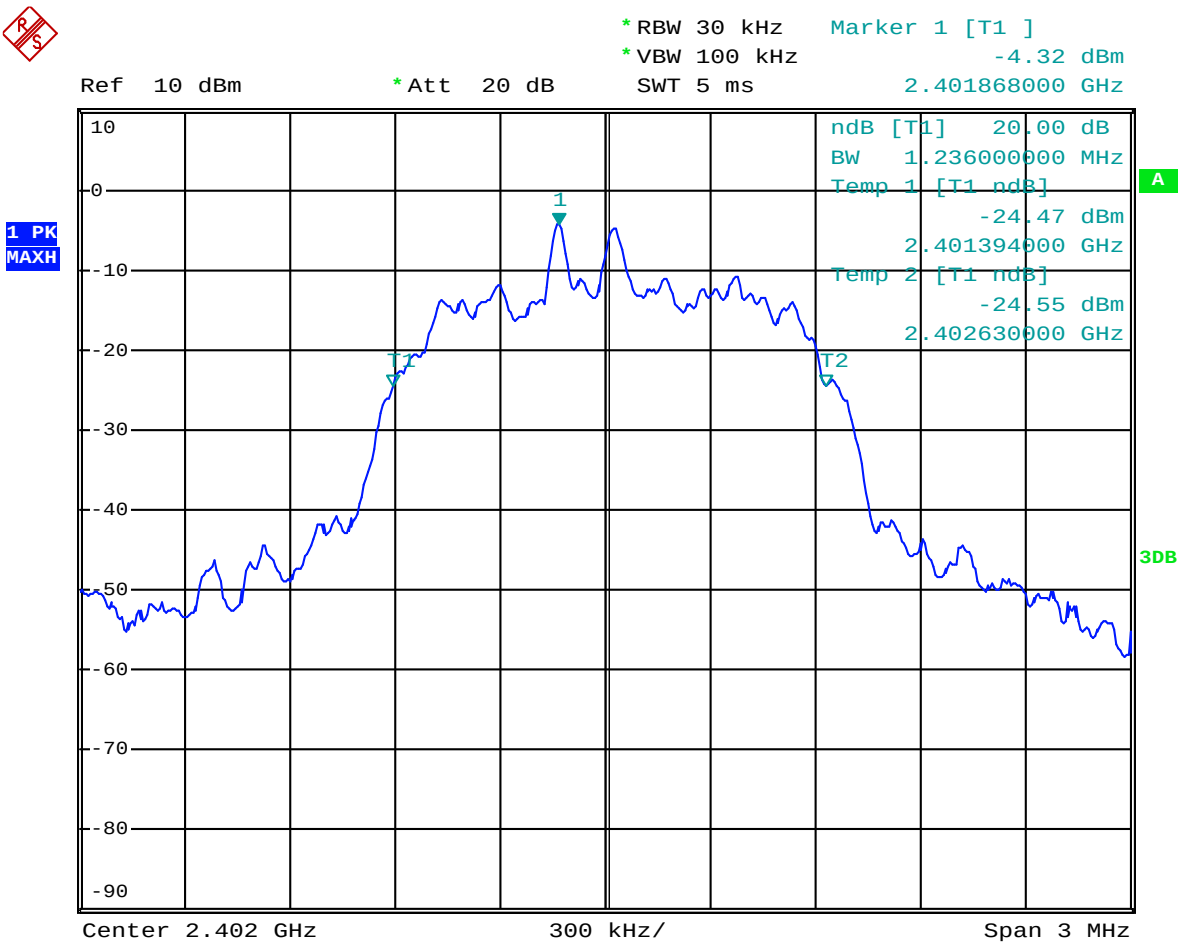
Л/4DQPSK			
Product:	OWS Wireless Earphone	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.236MHz	--	--



Date: 9.MAY.2025 15:08:11

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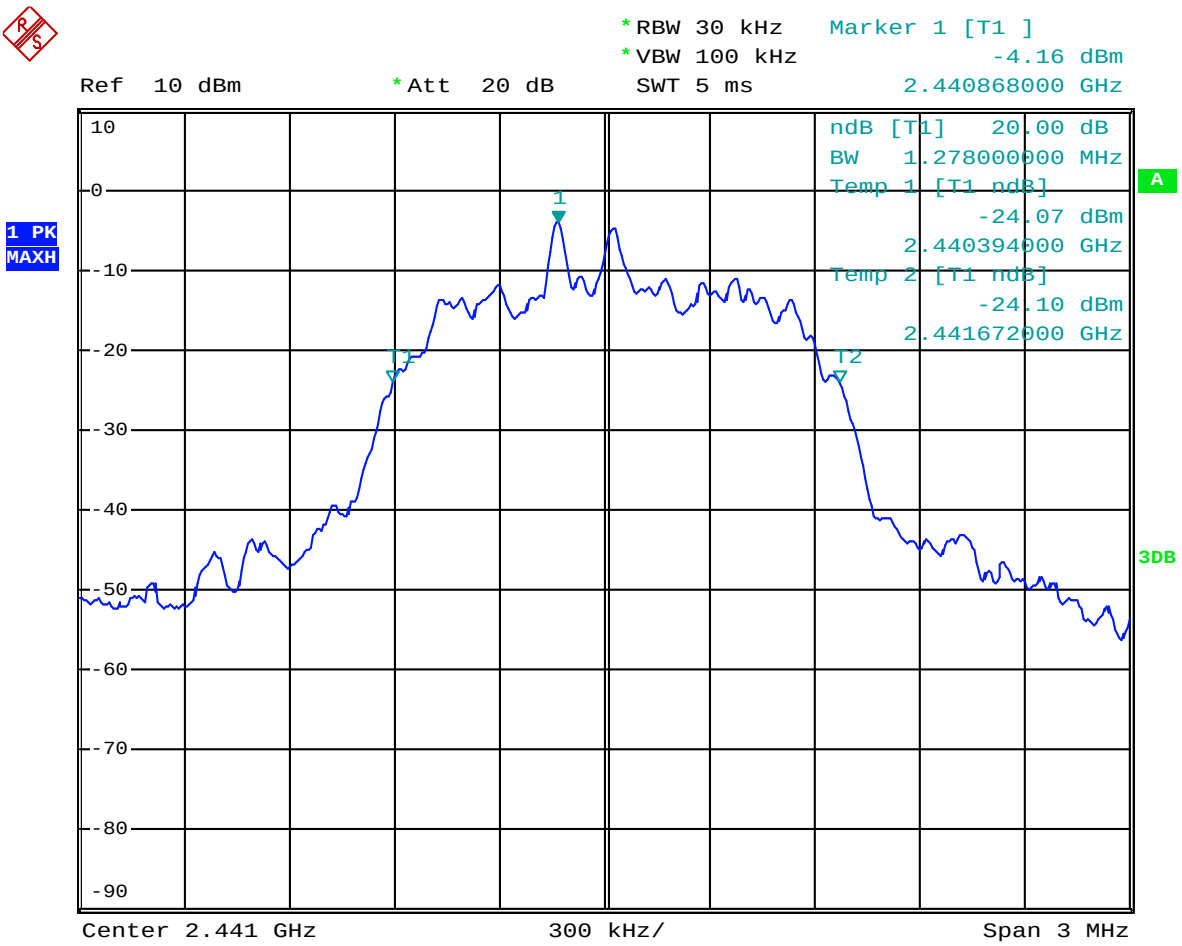
Л/4DQPSK			
Product:	OWS Wireless Earphone	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.278MHz	--	--



Date: 9.MAY.2025 15:15:56

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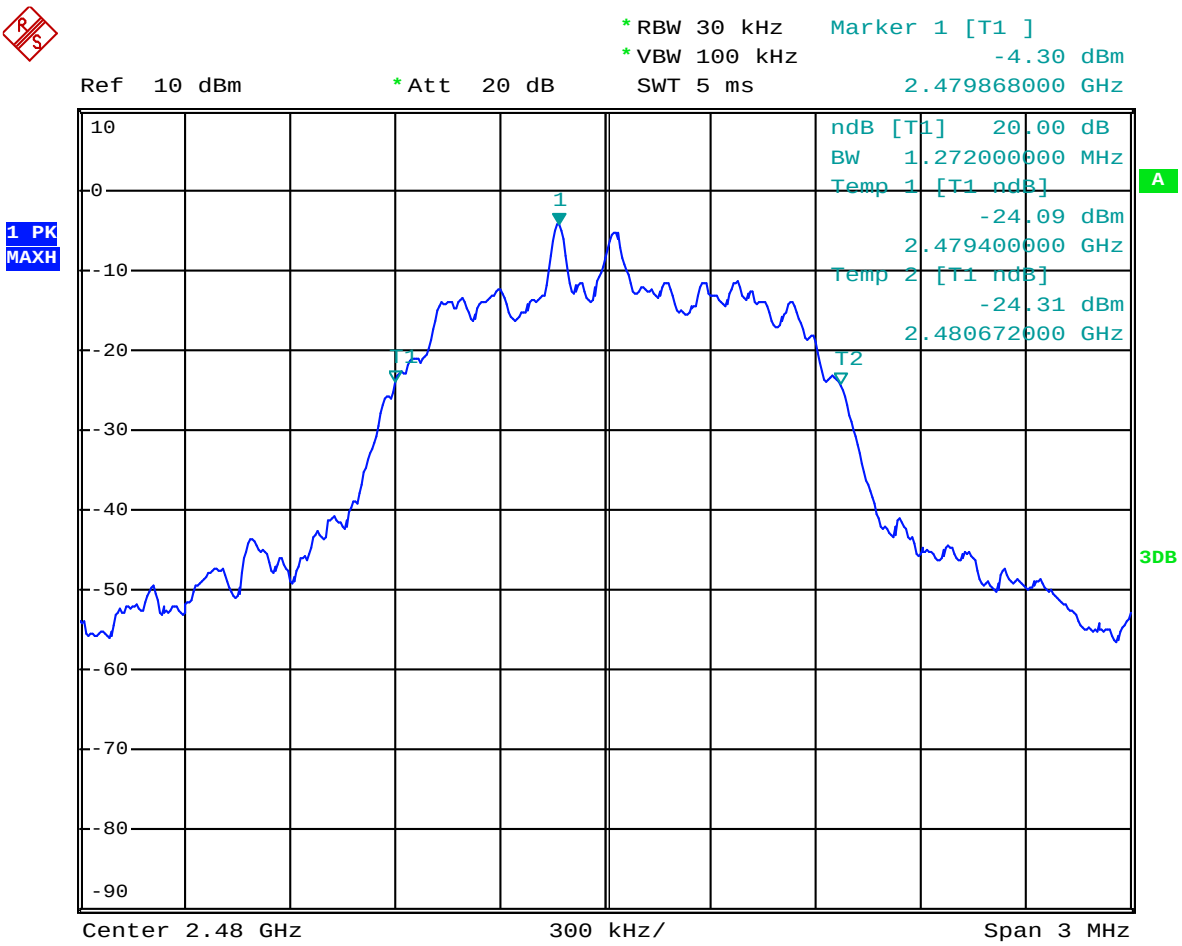
Л/4DQPSK			
Product:	OWS Wireless Earphone	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.272MHz	--	--



Date: 9.MAY.2025 15:17:02

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10.0 FCC ID Label

FCC ID: 2BOZI-AETHER

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.

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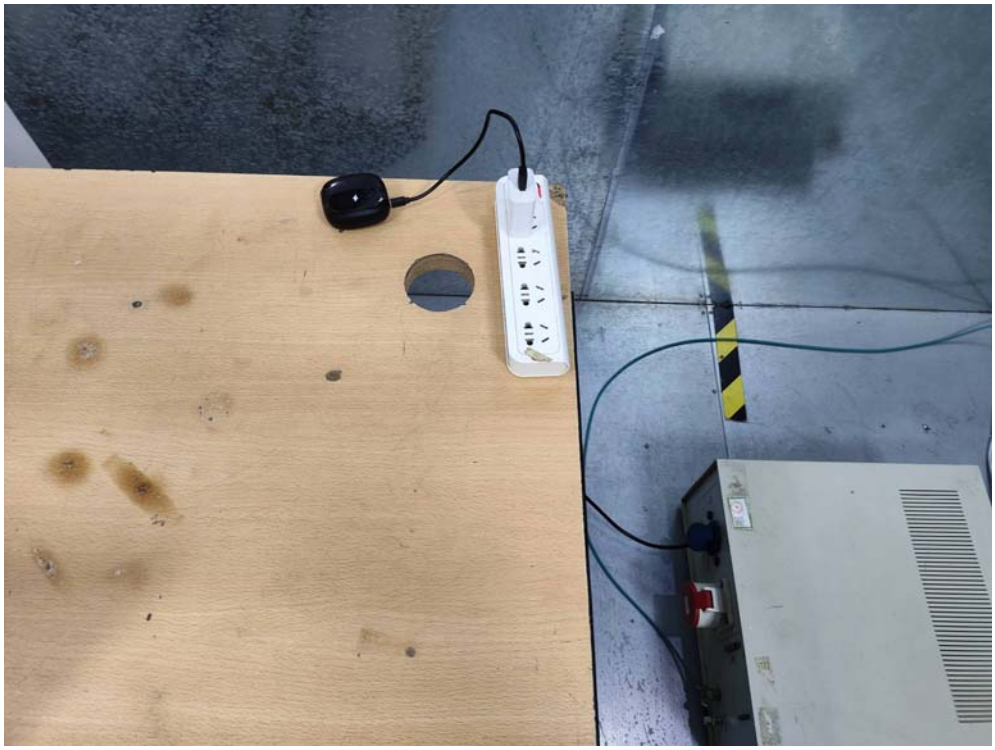
11.0 Photo of testing

11.1 Conducted test View



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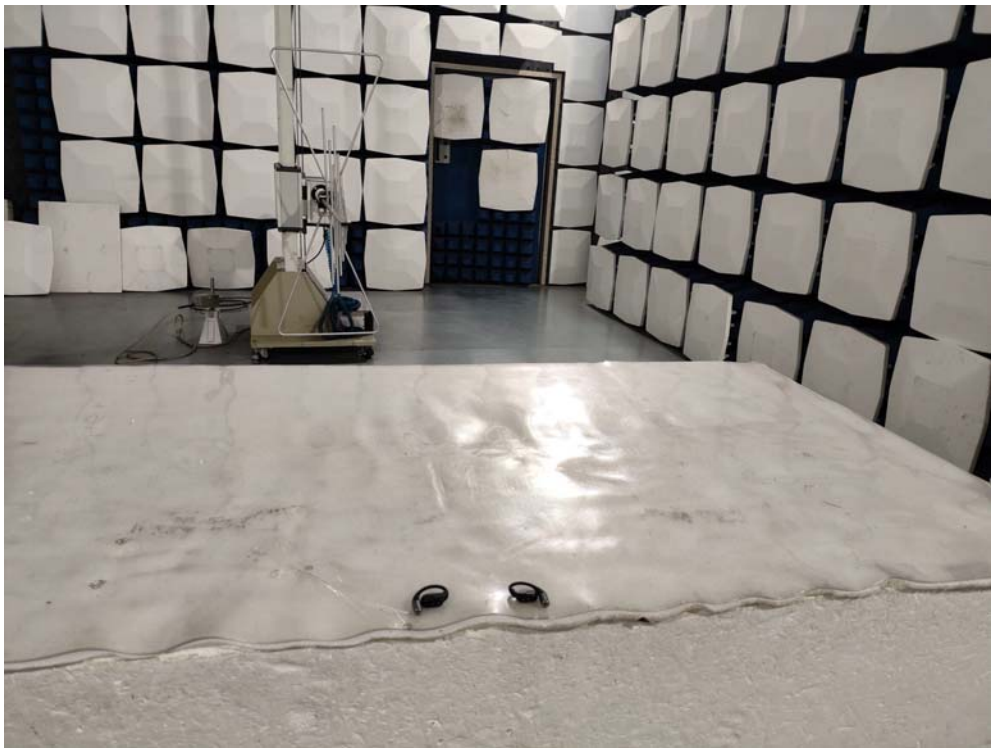
Radiated emission test view



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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 - Left earphone

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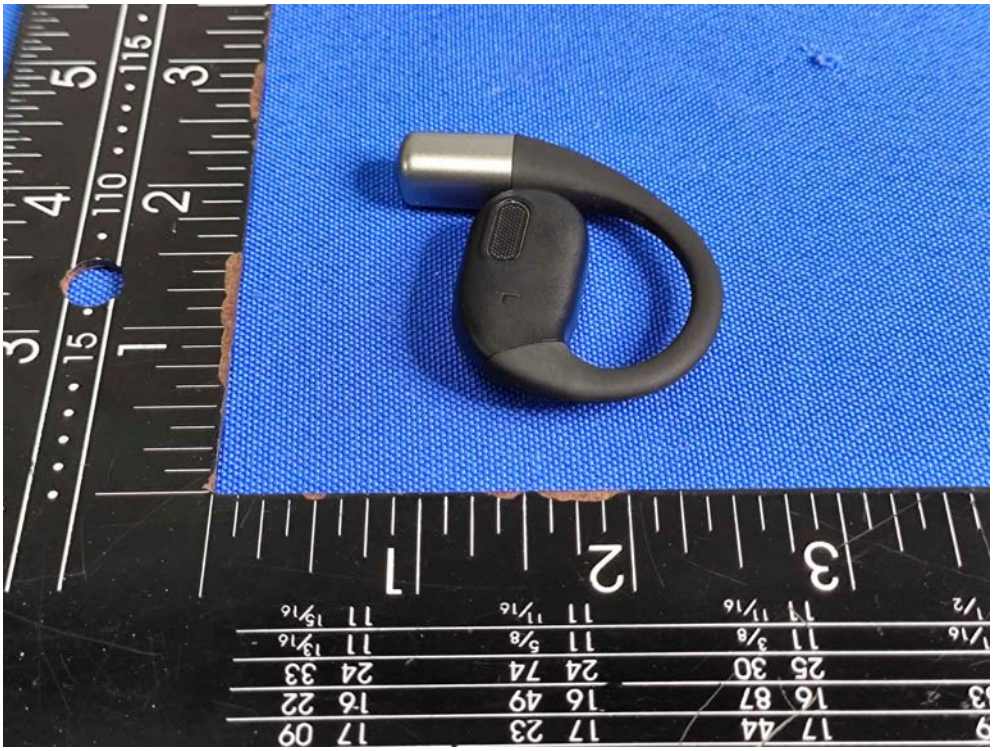
Outside View - Left earphone



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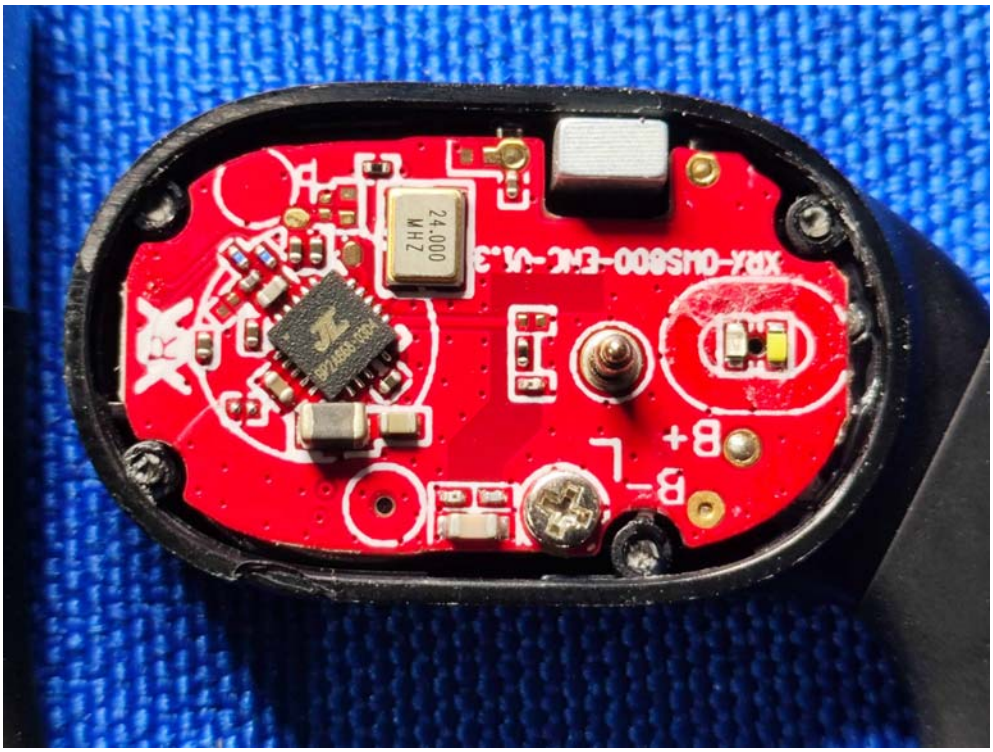
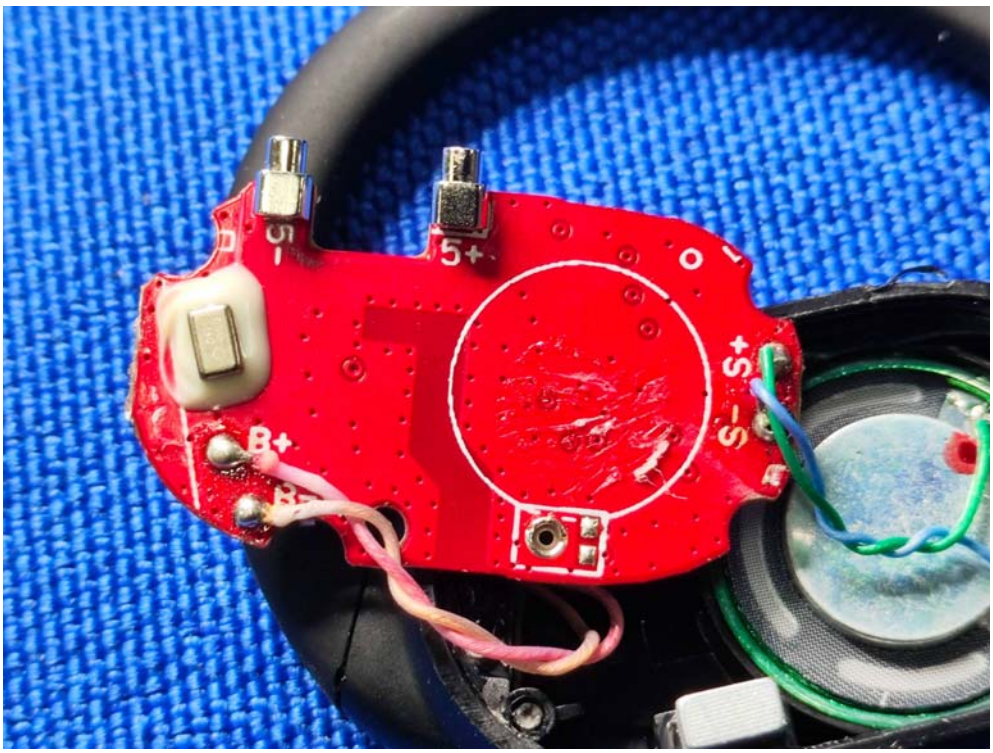
Inside View - Left earphone





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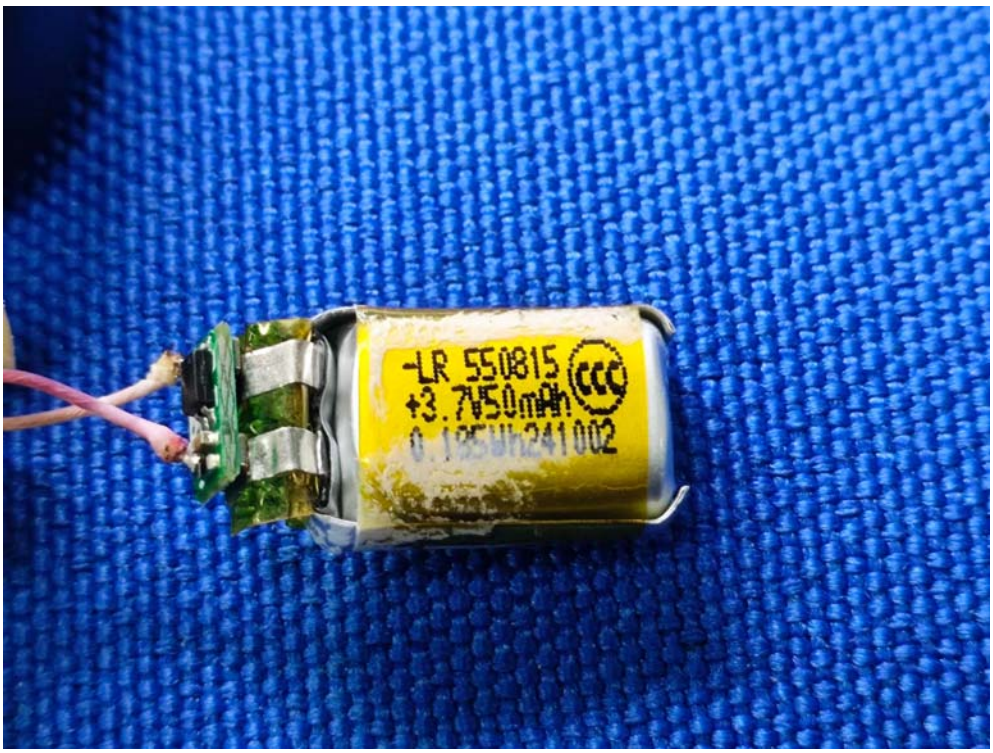
Inside View - Left earphone



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Outside View - Right earphone

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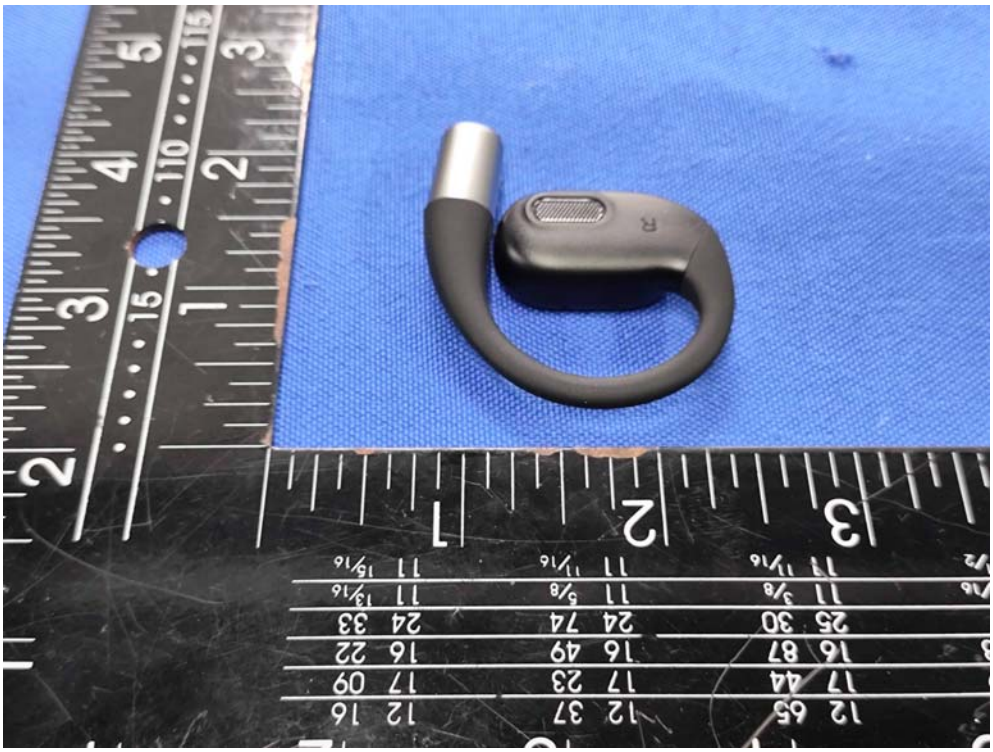
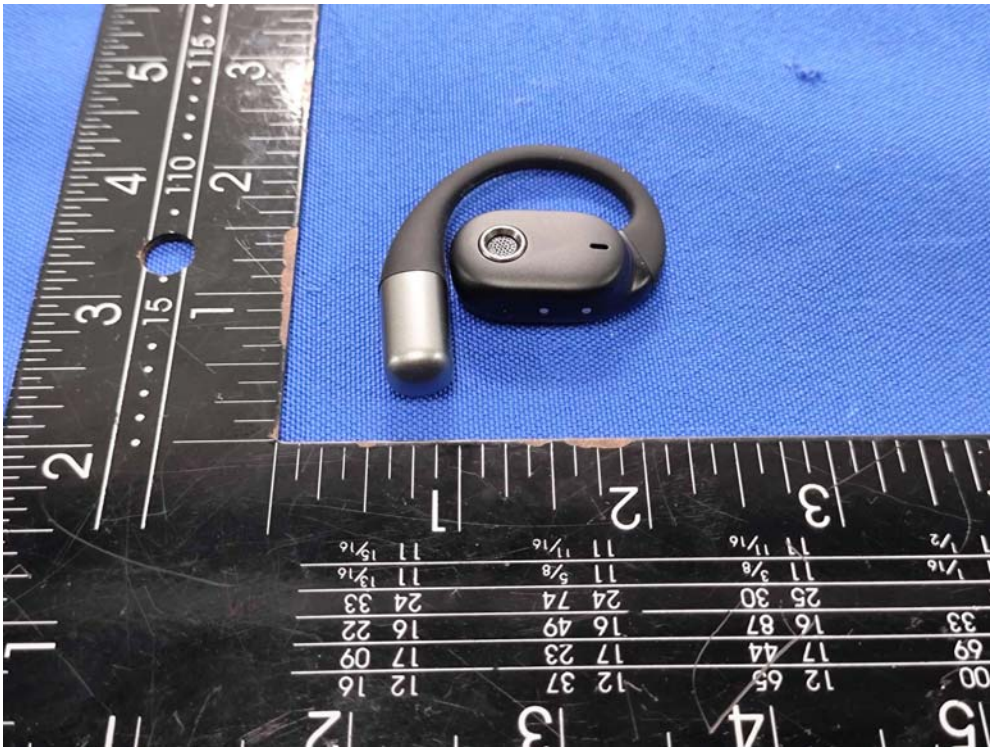
Outside View - Right earphone





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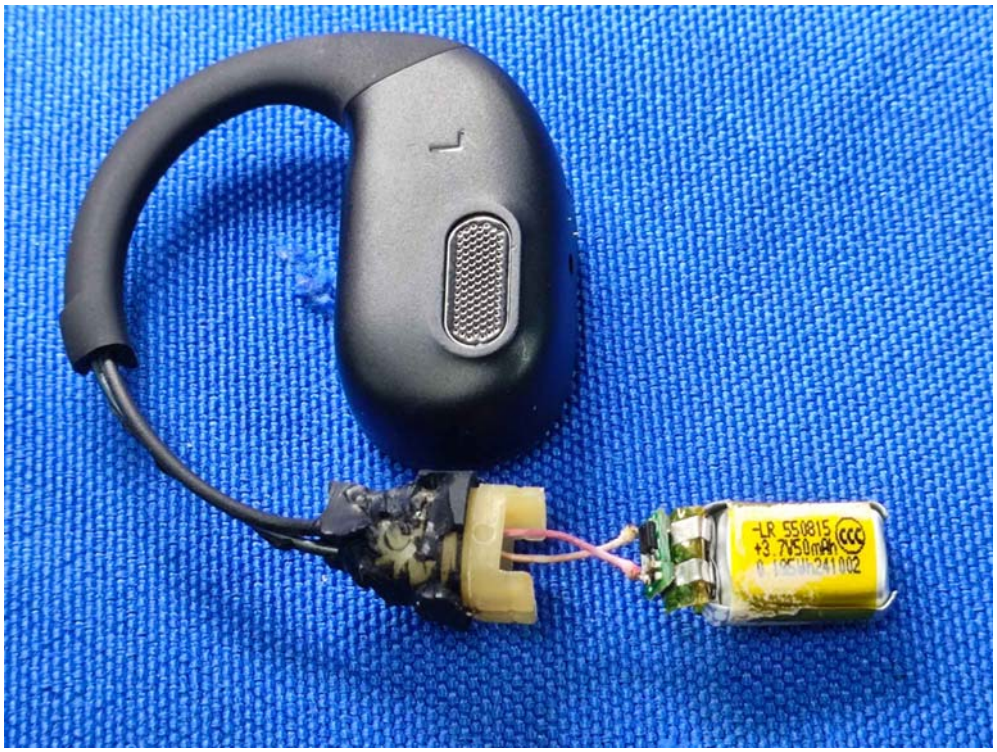
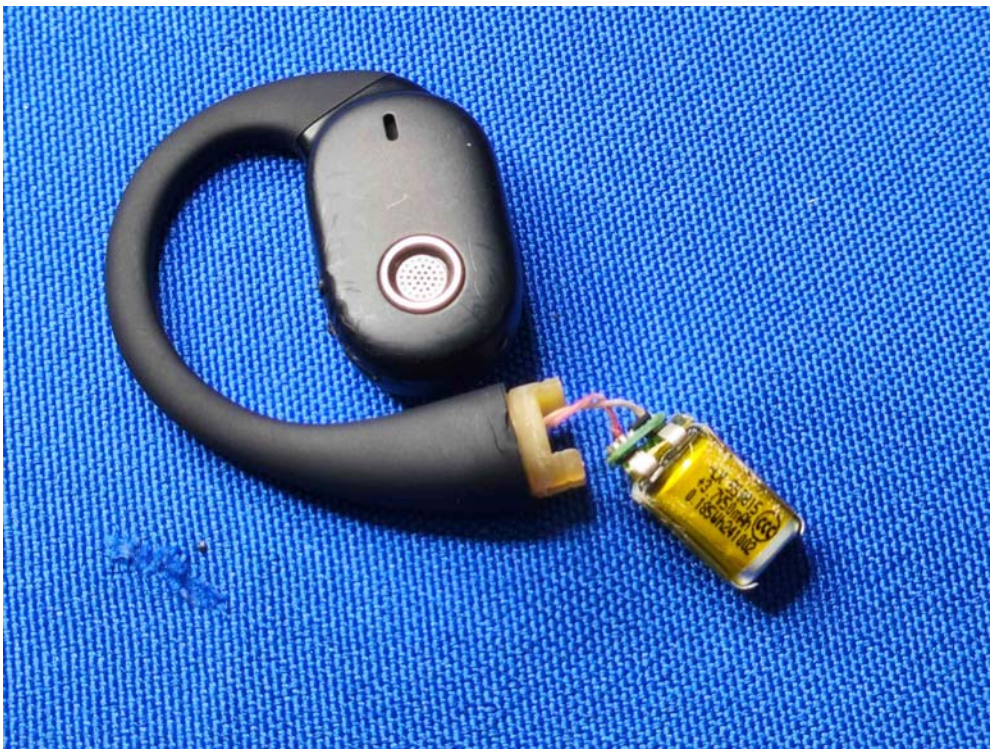
Inside View - Right earphone





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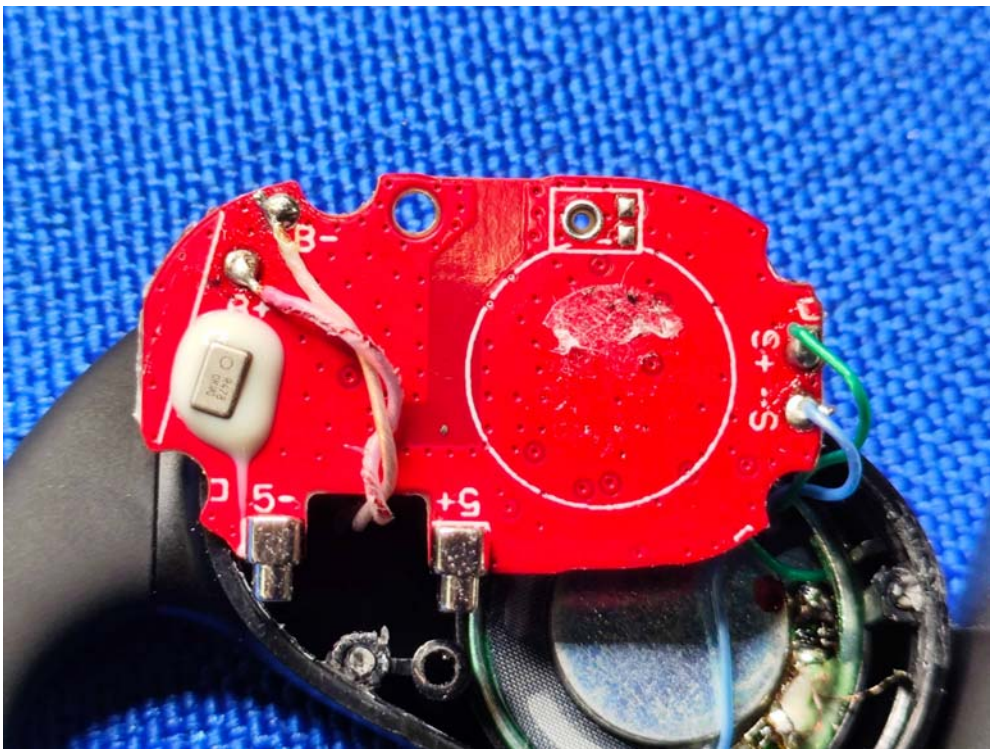
Inside View - Right earphone



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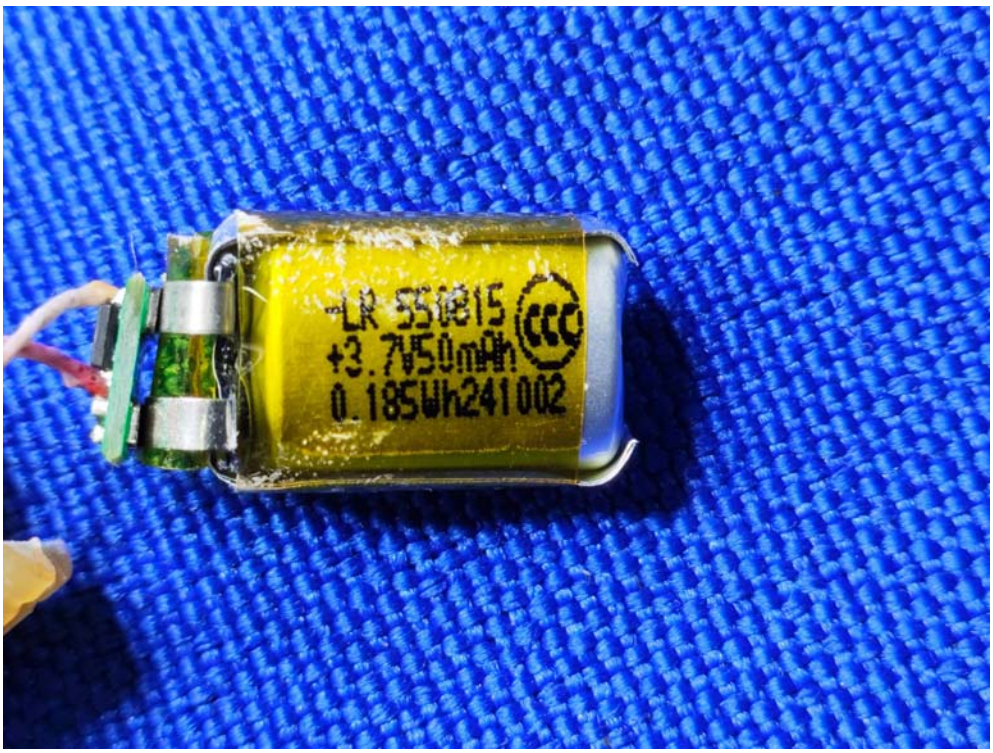
Inside View - Right earphone



--End of the report--

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