



Report No.: **TWN2507399-01E**

Applicant: **CG Mobile SAS**

Product: **Wireless Headphone**

Model No.: **TS-C15 (see the page 4 for additional models)**

Trademark: **GUESS, Karl Lagerfeld, Hello Kitty, BMW, DKNY**

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: **July 10, 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

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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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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: CG Mobile SAS
Address: 39 rue de Courcelles
P.O.Box 75008,
Paris, 75008
France

1.3 Description of EUT

Product:	Wireless Headphone
Manufacturer:	Thorsmart Technology Co.,Ltd.
Address:	E308, Zhantao Business Plaza, Tenglong Road, Longping Community, Dalang Street, Longhua District, Shenzhen, Guangdong, China
Trademark:	GUESS, Karl Lagerfeld, Hello Kitty, BMW, DKNY
Model Number:	TS-C15
Additional Model Name	TS-C15 GUBHC15P4MRCTW, TS-C15 GUBHC15P4MRCTK, TS-C15 GUBHC15P4MRCTB, TS-C15 GUBHC15P4MRCTP, TS-C15 GUBHC15P4MRCCW, TS-C15 GUBHC15P4MRCC, TS-C15 GUBHC15P4MRCCB, TS-C15 GUBHC15P4MRCCP, TS-C15 GUBHC15P4MRSCW, TS-C15 GUBHC15P4MRSCK, TS-C15 GUBHC15P4MRSCB, TS-C15 GUBHC15P4MRSCP, TS-C15 GUBHC15PGMRTRW, TS-C15 GUBHC15PGMRTRK, TS-C15 GUBHC15PMRSCW, TS-C15 GUBHC15PMRSCK, TS-C15 GUBHC15PMRTRW, TS-C15 GUBHC15PMRTRK, TS-C15 KLBHC15PMRSCW, TS-C15 KLBHC15PMRSCK, TS-C15 KLBHC15PMRTRW, TS-C15 KLBHC15PMRTRK, TS-C15 KLBHC15PMRTRS, TS-C15 HKBHC15PMRTRW, TS-C15

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HKBHC15PMRTRK, TS-C15 HKBHC15PMRTRS, TS-C15
BMBHC15PMRTRW, TS-C15 BMBHC15PMRTRK, TS-C15
BMBHC15PMRTRS, TS-C15 DKBHC15PMRTRW, TS-C15
DKBHC15PMRTRK, TS-C15 DKBHC15PMRTRS

Rating:	Input: DC5V
Battery:	DC3.7V, 400mAh Li-ion battery
Serial No.:	3666339480042
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	2402-2480MHz
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Number of Channels:	79
Channel Separation:	1MHz
Antenna Designation	PCB antenna with gain -0.58dBi maximum (Get from the antenna specification)

1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2025-07-03 to 2025-07-10

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

A handwritten signature in black ink that reads "Andy Xing".

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



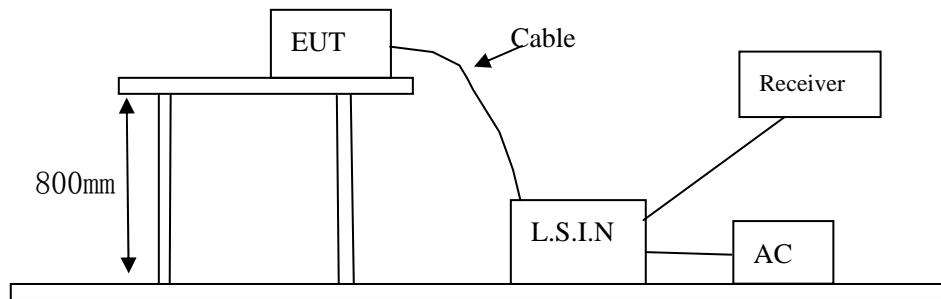
EUT: Equipment Under Test

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.

A. EUT

Device	Manufacturer	Model	FCC ID
Wireless Headphone	Thorsmart Technology Co.,Ltd.	TS-C15 (see the page 4 for additional models)	2A7J2-GUBHC15

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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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)

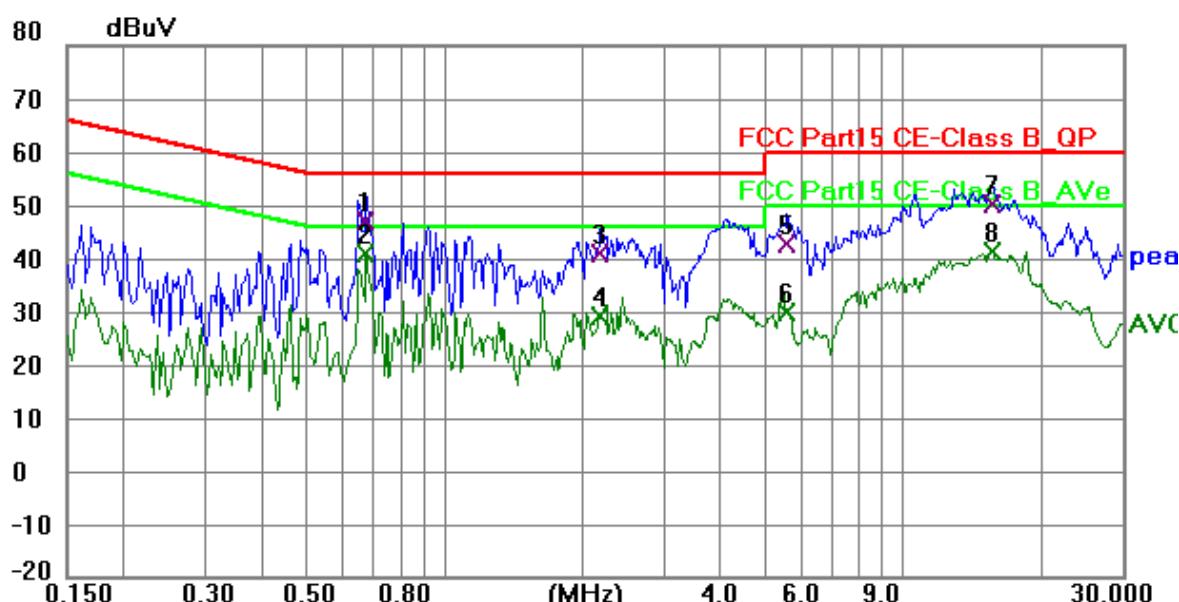
EUT Operating Environment

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

EUT set Condition: Communication by BT

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.6726	36.51	10.45	46.96	56.00	-9.04	QP	P
2	0.6726	30.44	10.45	40.89	46.00	-5.11	AVG	P
3	2.1858	29.48	11.39	40.87	56.00	-15.13	QP	P
4	2.1858	17.81	11.39	29.20	46.00	-16.80	AVG	P
5	5.5857	30.12	12.46	42.58	60.00	-17.42	QP	P
6	5.5857	17.38	12.46	29.84	50.00	-20.16	AVG	P
7	15.6243	34.75	15.29	50.04	60.00	-9.96	QP	P
8	15.6243	25.96	15.29	41.25	50.00	-8.75	AVG	P

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

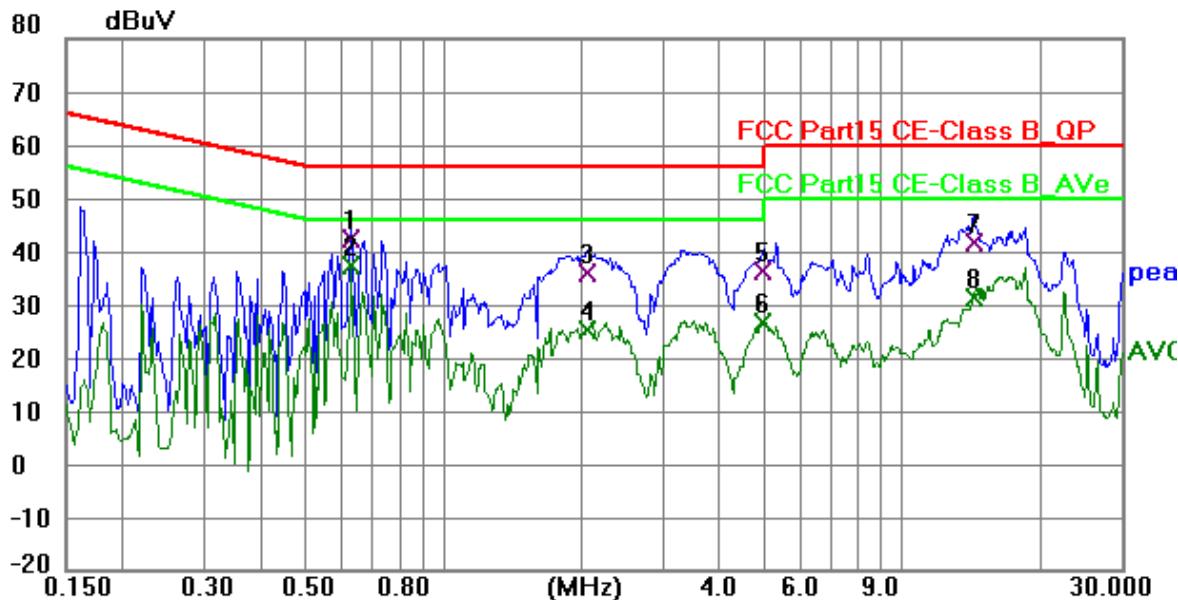
EUT Operating Environment

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

EUT set Condition: 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	0.6297	31.82	10.44	42.26	56.00	-13.74	QP	P
2	0.6297	26.85	10.44	37.29	46.00	-8.71	AVG	P
3	2.0571	24.64	11.34	35.98	56.00	-20.02	QP	P
4	2.0571	13.99	11.34	25.33	46.00	-20.67	AVG	P
5	4.9519	23.98	12.29	36.27	56.00	-19.73	QP	P
6	4.9519	14.21	12.29	26.50	46.00	-19.50	AVG	P
7	14.2944	26.51	14.95	41.46	60.00	-18.54	QP	P
8	14.2944	16.13	14.95	31.08	50.00	-18.92	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

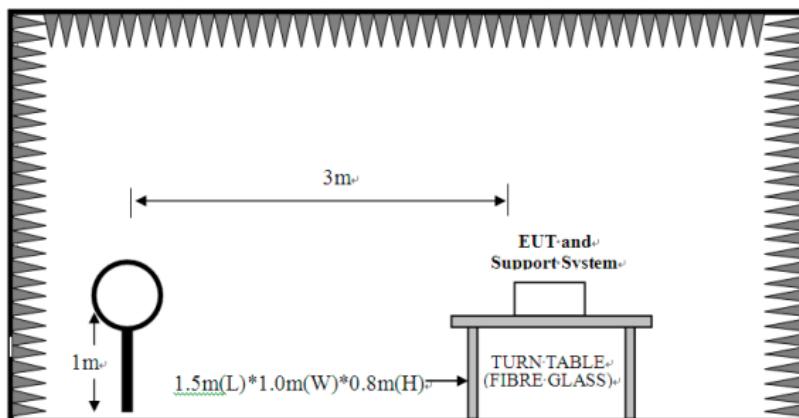
(Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz).

Measurements were made at 3 meters.

- (4) The antenna height 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



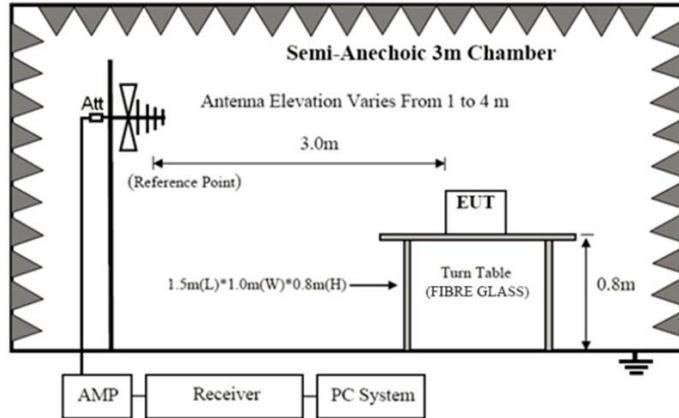
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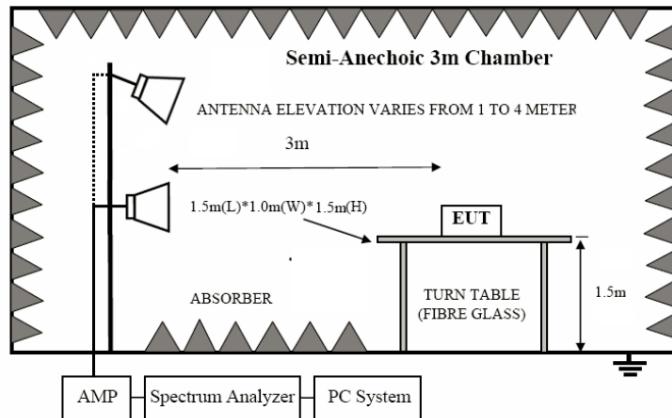
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For radiated emissions from 30MHz to1GHz



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.

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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	
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 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. Battery was fully charged during test

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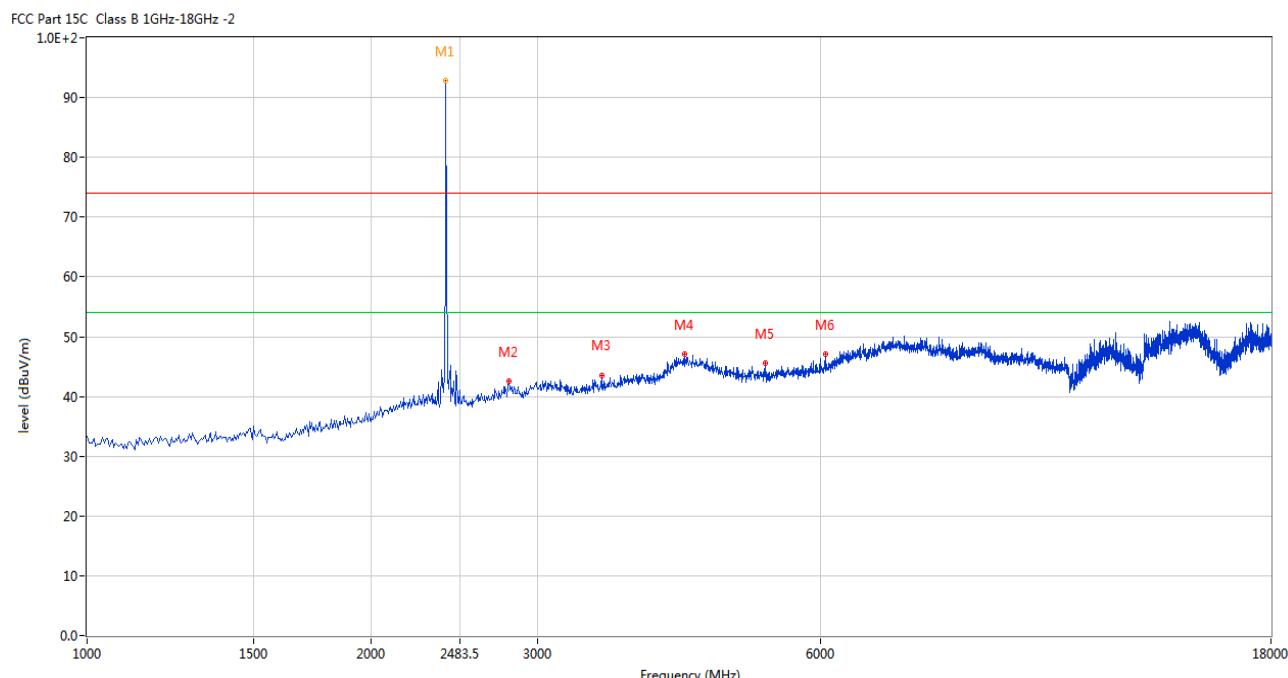


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	92.81	-3.57	114.0	-21.19	Peak	234.00	100	Horizontal	Pass
2	2801.550	42.63	-2.70	74.0	-31.37	Peak	80.00	100	Horizontal	Pass
3	3511.122	43.51	-1.03	74.0	-30.49	Peak	53.00	100	Horizontal	Pass
4	4297.176	46.99	1.83	74.0	-27.01	Peak	139.00	100	Horizontal	Pass
5	5240.440	45.55	3.58	74.0	-28.45	Peak	107.00	100	Horizontal	Pass
6	6064.734	47.03	4.03	74.0	-26.97	Peak	191.00	100	Horizontal	Pass

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

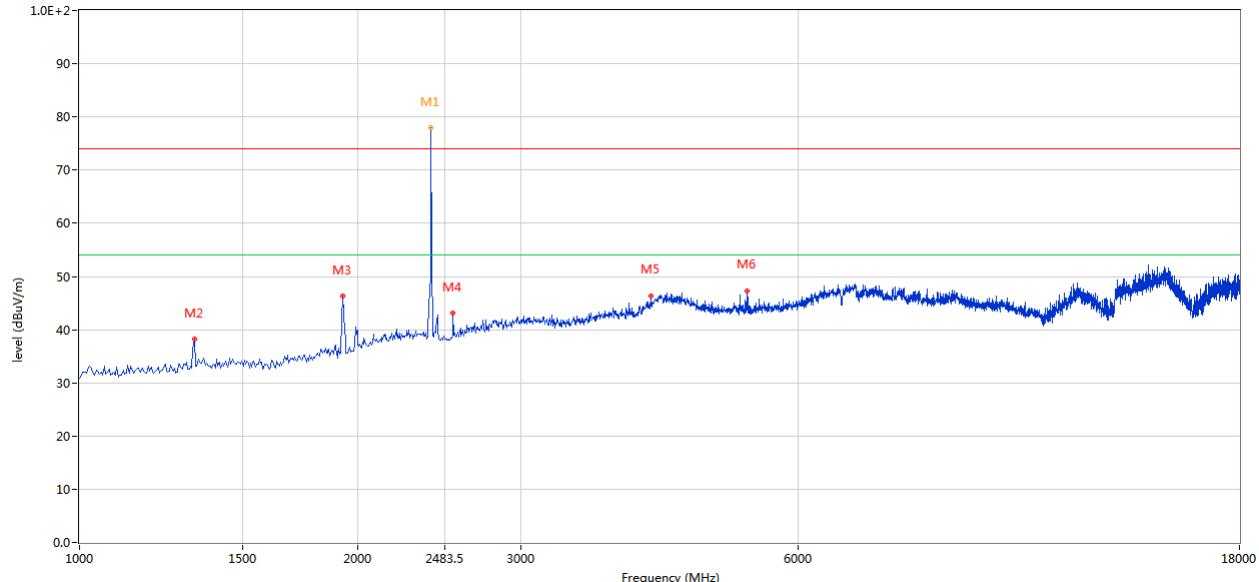
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Vertical

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No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	77.92	-3.57	114.0	-36.08	Peak	49.00	100	Vertical	Pass
2	1331.417	38.31	-8.21	74.0	-35.69	Peak	360.00	100	Vertical	Pass
3	1926.268	46.24	-5.71	74.0	-27.76	Peak	207.00	100	Vertical	Pass
4	2538.115	39.24	-3.48	74.0	-34.76	Peak	217.00	100	Vertical	Pass
5	4156.961	46.33	1.51	74.0	-27.67	Peak	118.00	100	Vertical	Pass
6	5274.431	47.27	3.52	74.0	-26.73	Peak	76.00	100	Vertical	Pass

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

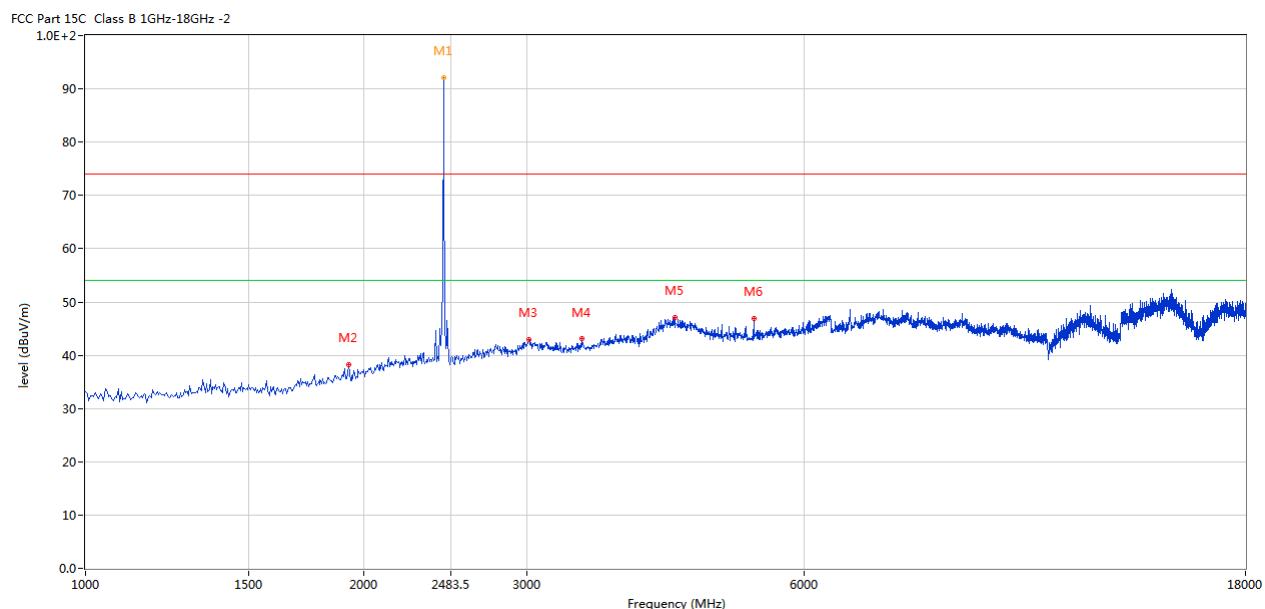
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2441	92.10	-3.57	114.0	-21.90	Peak	257.00	100	Horizontal	Pass
2	1926.268	38.25	-5.71	74.0	-35.75	Peak	150.00	100	Horizontal	Pass
3	3018.245	43.03	-2.56	74.0	-30.97	Peak	108.00	100	Horizontal	Pass
4	3443.139	43.17	-1.49	74.0	-30.83	Peak	75.00	100	Horizontal	Pass
5	4339.665	47.15	1.90	74.0	-26.85	Peak	224.00	100	Horizontal	Pass
6	5287.178	46.85	3.50	74.0	-27.15	Peak	1.00	100	Horizontal	Pass

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

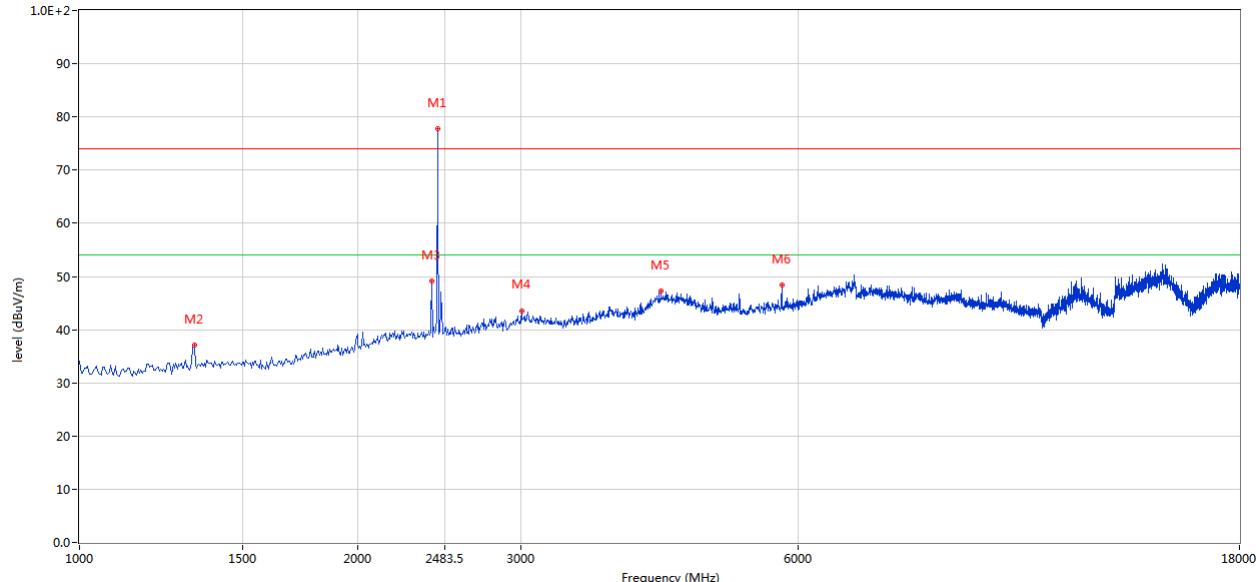
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Vertical

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	77.73	-3.57	114.0	-36.27	Peak	48.00	100	Vertical	Pass
2	1331.417	37.01	-8.21	74.0	-36.99	Peak	344.00	100	Vertical	Pass
3	2406.398	49.20	-3.57	74.0	-24.80	Peak	16.00	100	Vertical	Pass
4	3009.748	43.51	-2.60	74.0	-30.49	Peak	74.00	100	Vertical	Pass
5	4258.935	47.18	1.74	74.0	-26.82	Peak	313.00	100	Vertical	Pass
6	5754.561	48.41	3.83	74.0	-25.59	Peak	6.00	100	Vertical	Pass

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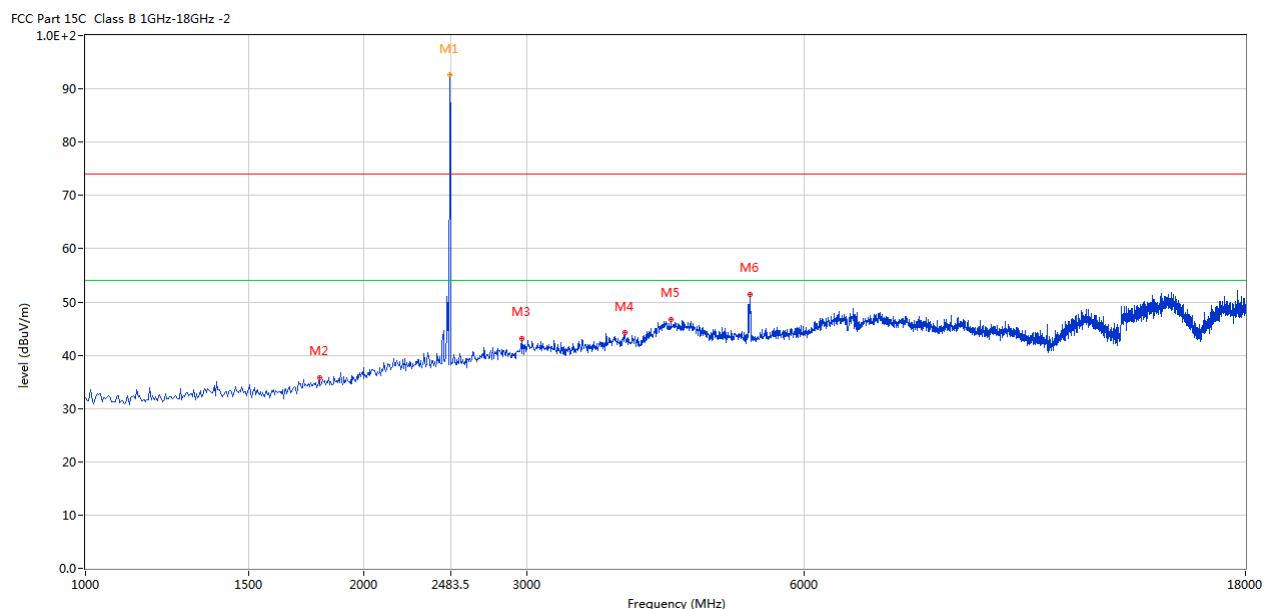
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	92.65	-3.57	114.0	-21.35	Peak	243.00	100	Horizontal	Pass
2	1769.058	34.48	-7.05	74.0	-39.52	Peak	249.00	100	Horizontal	Pass
3	2963.009	43.14	-2.65	74.0	-30.86	Peak	322.00	100	Horizontal	Pass
4	3834.041	44.22	0.48	74.0	-29.78	Peak	207.00	100	Horizontal	Pass
5	4301.425	46.71	1.84	74.0	-27.29	Peak	232.00	100	Horizontal	Pass
6	5291.427	51.85	3.49	74.0	-22.15	Peak	306.00	100	Horizontal	Pass

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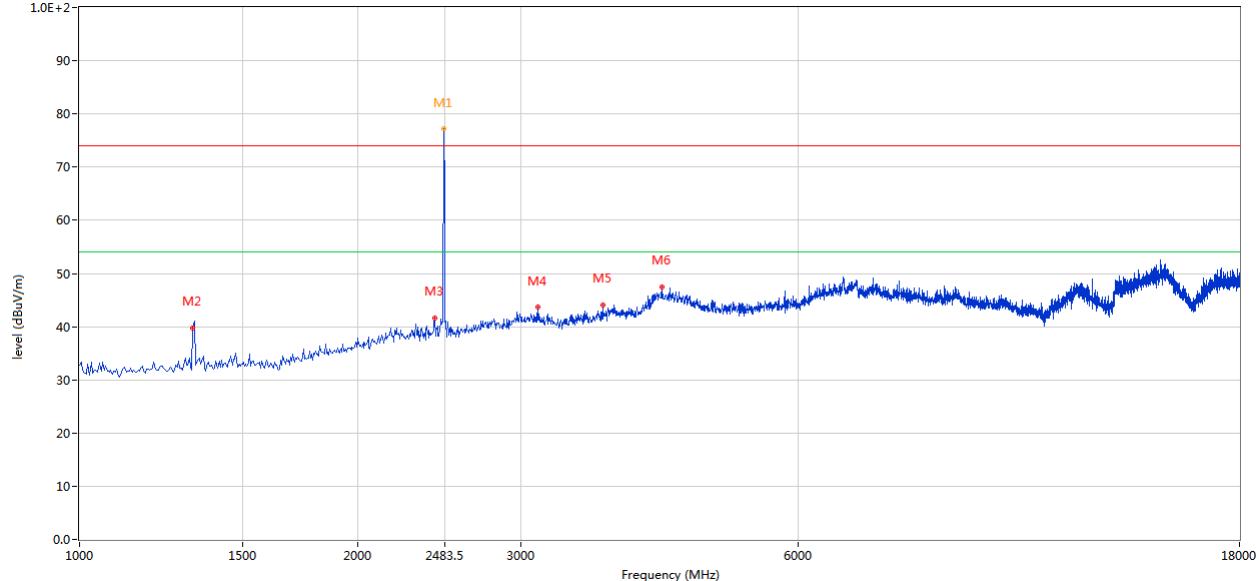
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Vertical

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	77.30	-3.57	114.0	-36.70	Peak	73.00	100	Vertical	Pass
2	1203.949	33.35	-8.90	74.0	-40.65	Peak	47.00	100	Vertical	Pass
3	2461.635	46.00	-3.57	74.0	-28.00	Peak	95.00	100	Vertical	Pass
4	3137.216	43.65	-2.11	74.0	-30.35	Peak	1.00	100	Vertical	Pass
5	3681.080	44.08	-0.30	74.0	-29.92	Peak	107.00	100	Vertical	Pass
6	4267.433	47.52	1.76	74.0	-26.48	Peak	31.00	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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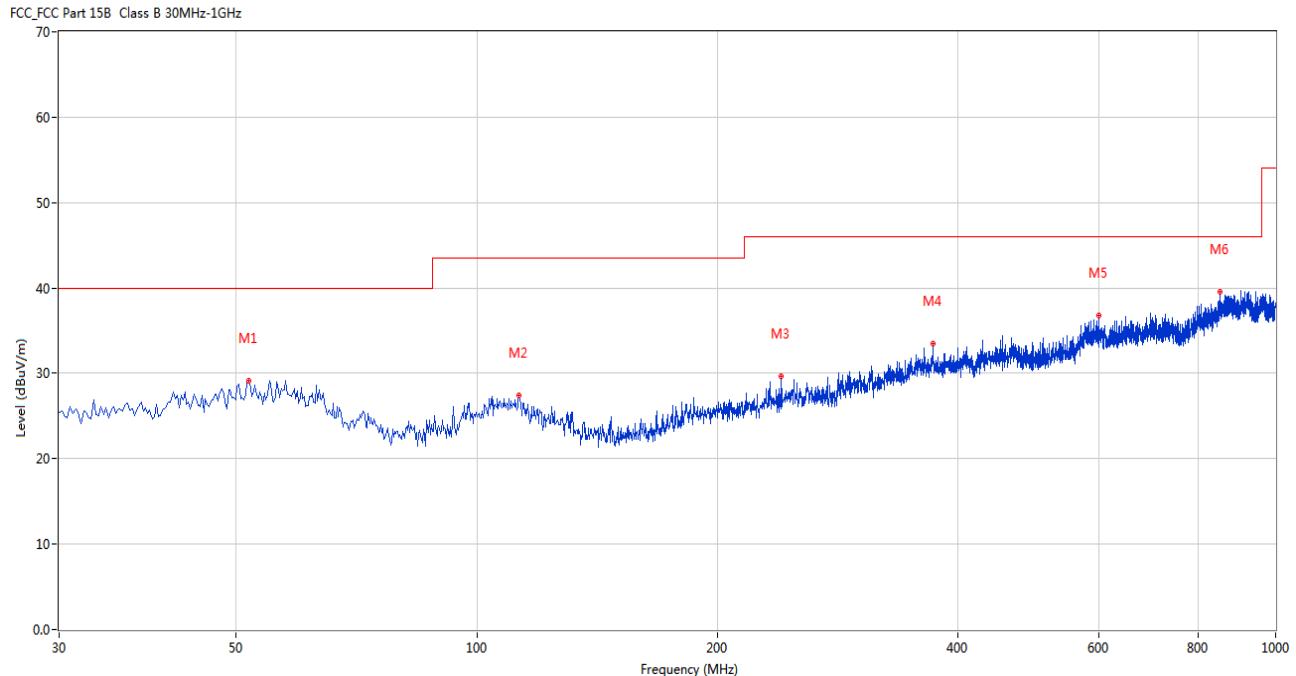
B. General Radiated Emission Data

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	51.820	29.14	-4.86	40.0	10.86	Peak	158.00	100	Horizontal	Pass
2	112.914	27.42	-6.33	43.5	16.08	Peak	65.00	100	Horizontal	Pass
3	240.680	29.64	-5.66	46.0	16.36	Peak	97.00	100	Horizontal	Pass
4	372.567	33.43	-1.83	46.0	12.57	Peak	192.00	100	Horizontal	Pass
5	600.460	36.80	1.58	46.0	9.20	Peak	138.00	100	Horizontal	Pass
6	852.839	39.61	4.48	46.0	6.39	Peak	310.00	100	Horizontal	Pass

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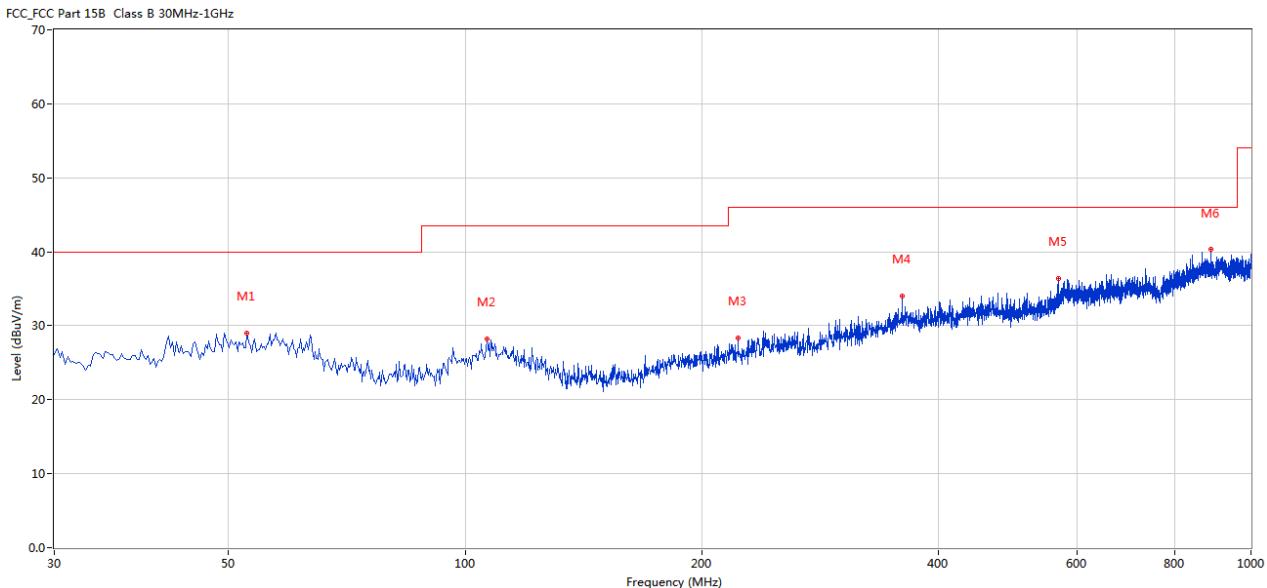


Radiated Emission In Vertical (30MHz----1000MHz)

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	52.789	29.04	-4.99	40.0	10.96	Peak	290.00	100	Vertical	Pass
2	106.611	28.20	-6.14	43.5	15.30	Peak	269.00	100	Vertical	Pass
3	222.497	28.32	-6.46	46.0	17.68	Peak	279.00	100	Vertical	Pass
4	359.718	33.96	-1.86	46.0	12.04	Peak	33.00	100	Vertical	Pass
5	568.700	36.36	0.66	46.0	9.64	Peak	194.00	100	Vertical	Pass
6	888.478	40.27	4.93	46.0	5.73	Peak	158.00	100	Vertical	Pass

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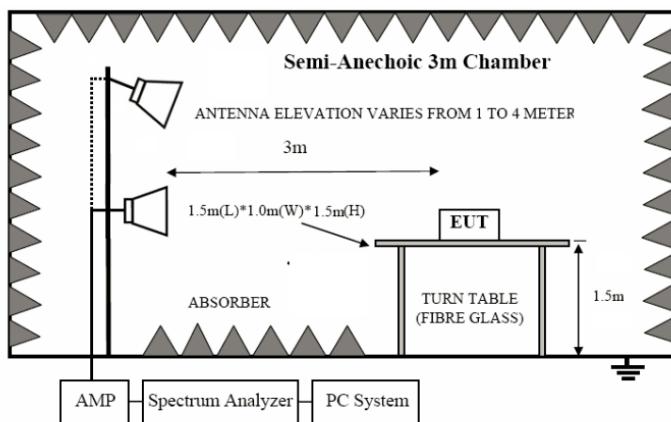


7. Band Edge

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

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

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level (dBuV/m)

Frequency (MHz)

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2401.752	91.28	-3.57	74.0	17.28	Peak	149.00	100	Horizontal	N/A
2	2400.042	68.14	-3.57	74.0	-5.86	Peak	234.00	100	Horizontal	Pass
2**	2400.042	52.85	-3.57	54.0	-1.15	AV	234.00	100	Horizontal	Pass
3	2390.010	38.81	-3.53	74.0	-35.19	Peak	239.00	100	Horizontal	Pass

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

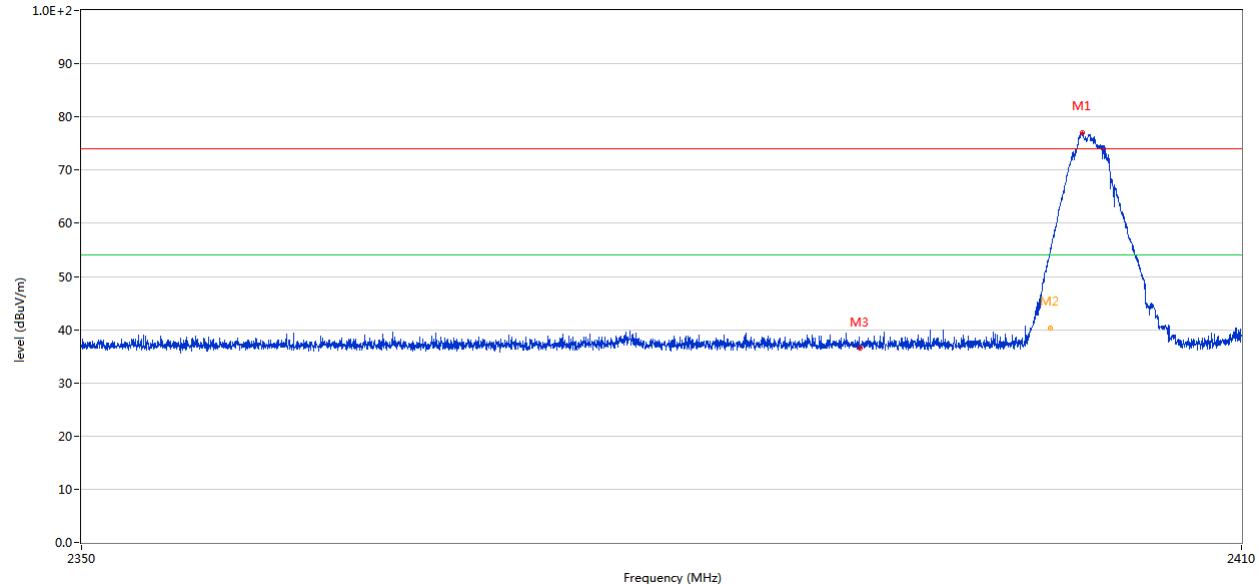
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Product:	Wireless Headphone	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--

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	2401.692	76.96	-3.57	74.0	2.96	Peak	147.00	100	Vertical	N/A
2	2400.027	55.43	-3.57	74.0	-18.57	Peak	147.00	100	Vertical	Pass
2**	2400.027	40.31	-3.57	54.0	-13.69	AV	147.00	100	Vertical	Pass
3	2390.085	36.58	-3.53	74.0	-37.42	Peak	183.00	100	Vertical	Pass

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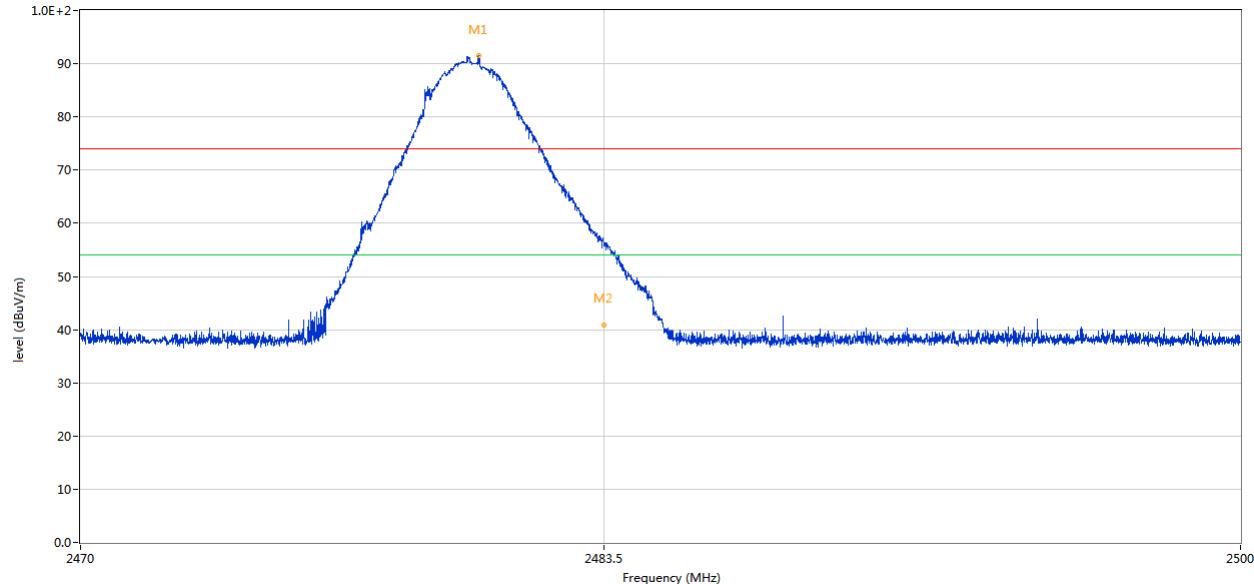
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Product:	Wireless Headphone	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--

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	2480.250	91.55	-3.57	74.0	17.55	Peak	193.00	100	Horizontal	N/A
2	2483.500	56.02	-3.57	74.0	-17.98	Peak	240.14	100	Horizontal	Pass
2*	2483.500	40.78	-3.57	54.0	-13.22	AV	240.14	100	Horizontal	Pass

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

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

Level (dBuV/m)

Frequency (MHz)

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480.040	76.72	-3.57	74.0	2.72	Peak	55.00	100	Vertical	N/A
2	2483.500	42.82	-3.57	74.0	-31.18	Peak	52.86	100	Vertical	Pass

Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.
 2. 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.

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

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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 PCB antenna with gain -0.58dBi 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

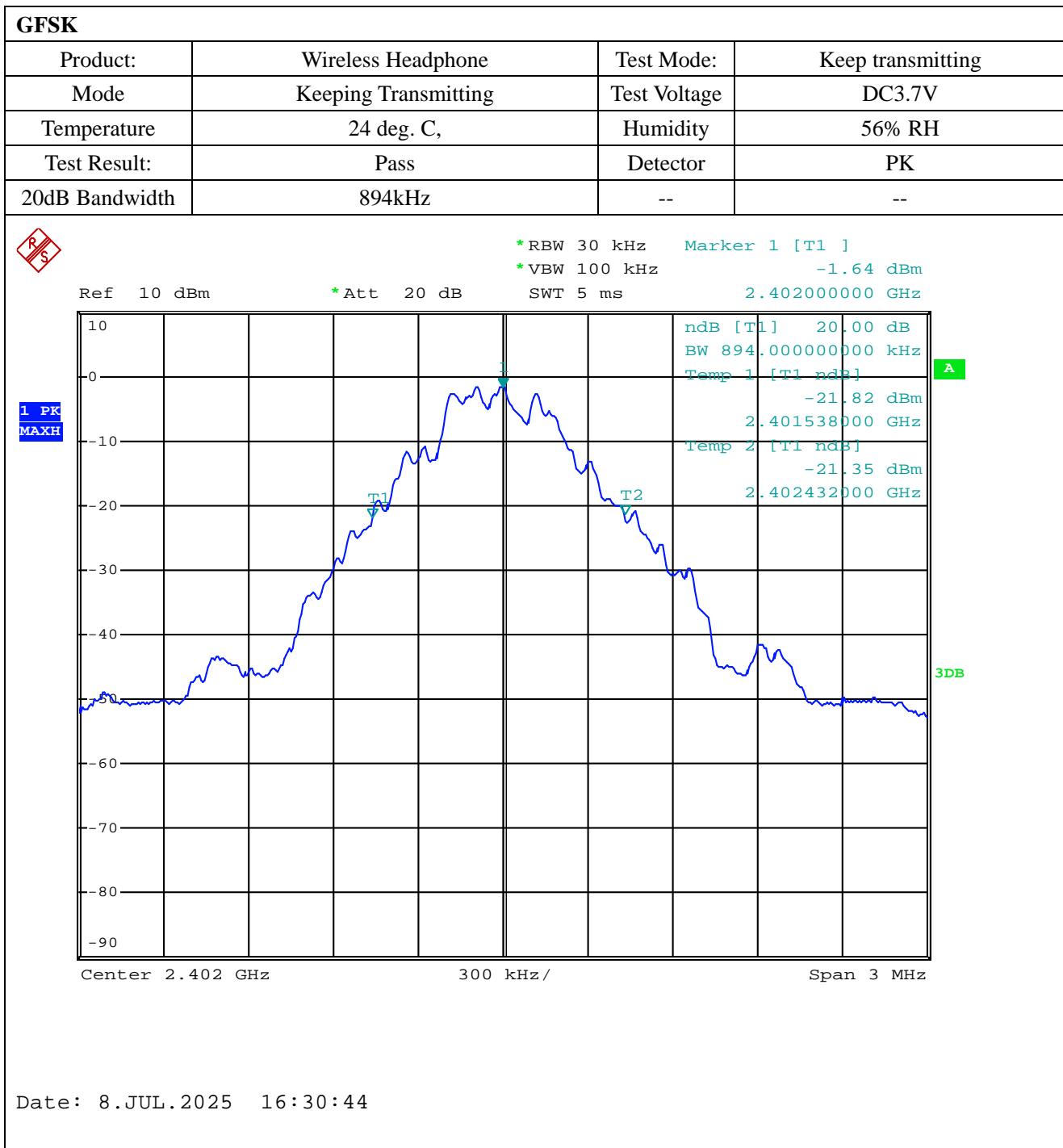
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Test Result



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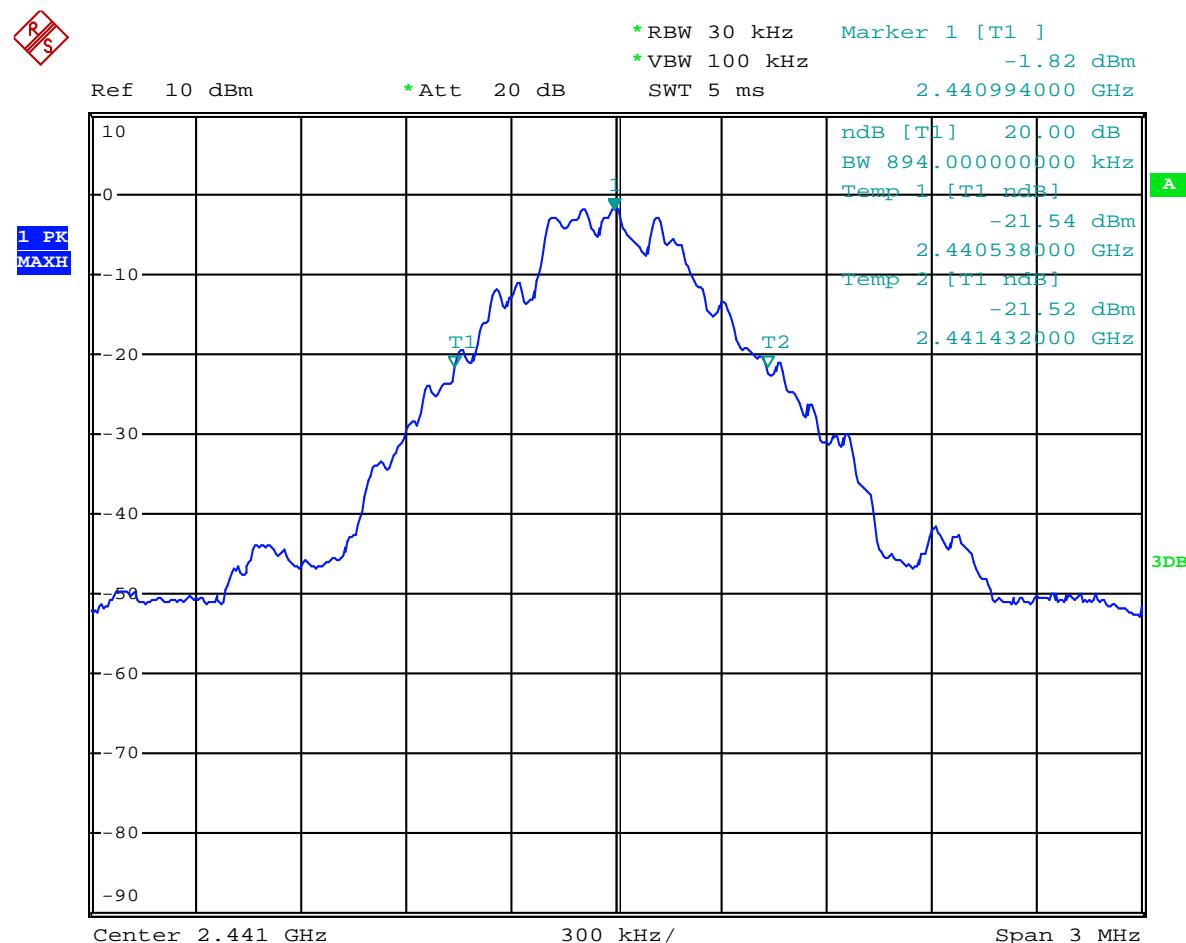
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GFSK

Product:	Wireless Headphone	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	894kHz	--	--



Date: 8.JUL.2025 16:26:52

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

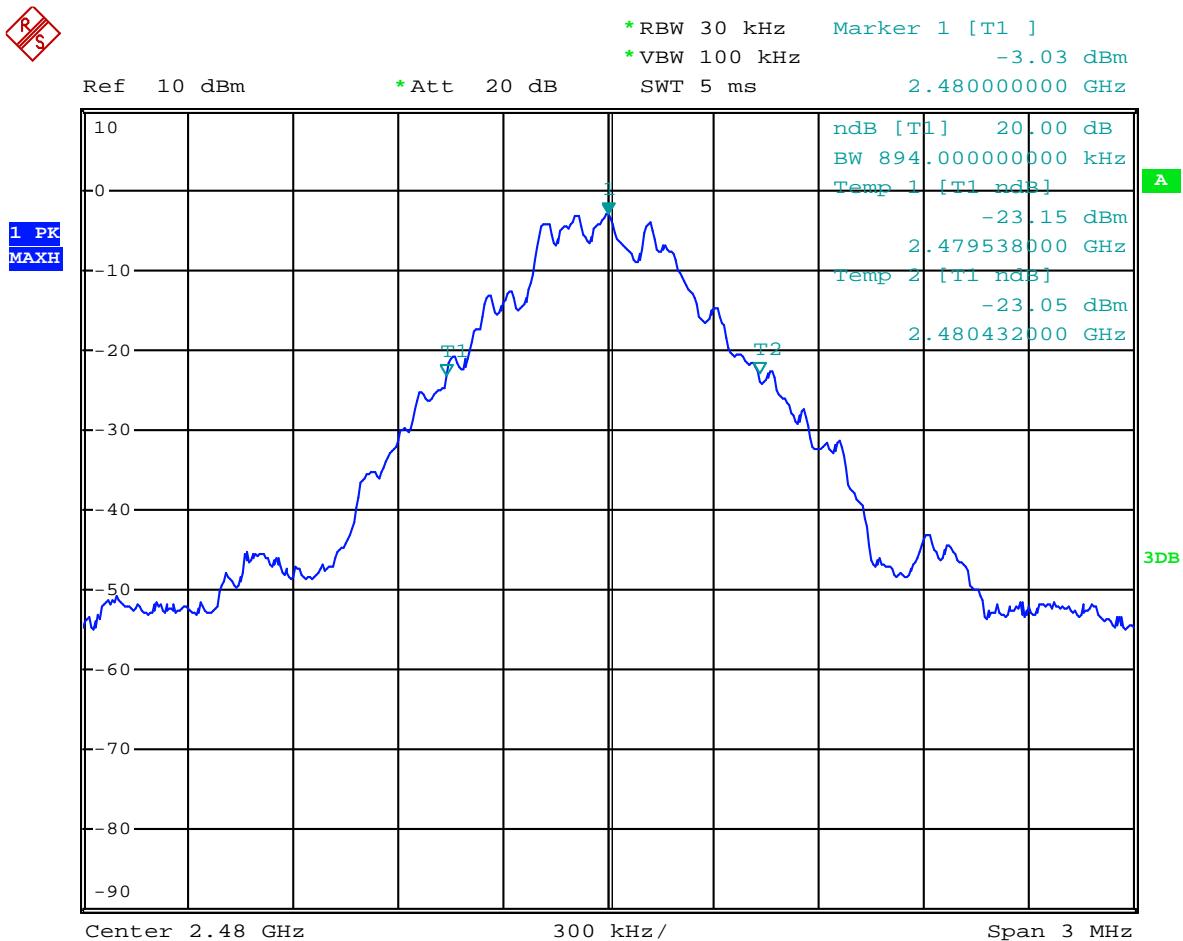
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Test Result:	Pass	Detector	PK
20dB Bandwidth	894kHz	--	--

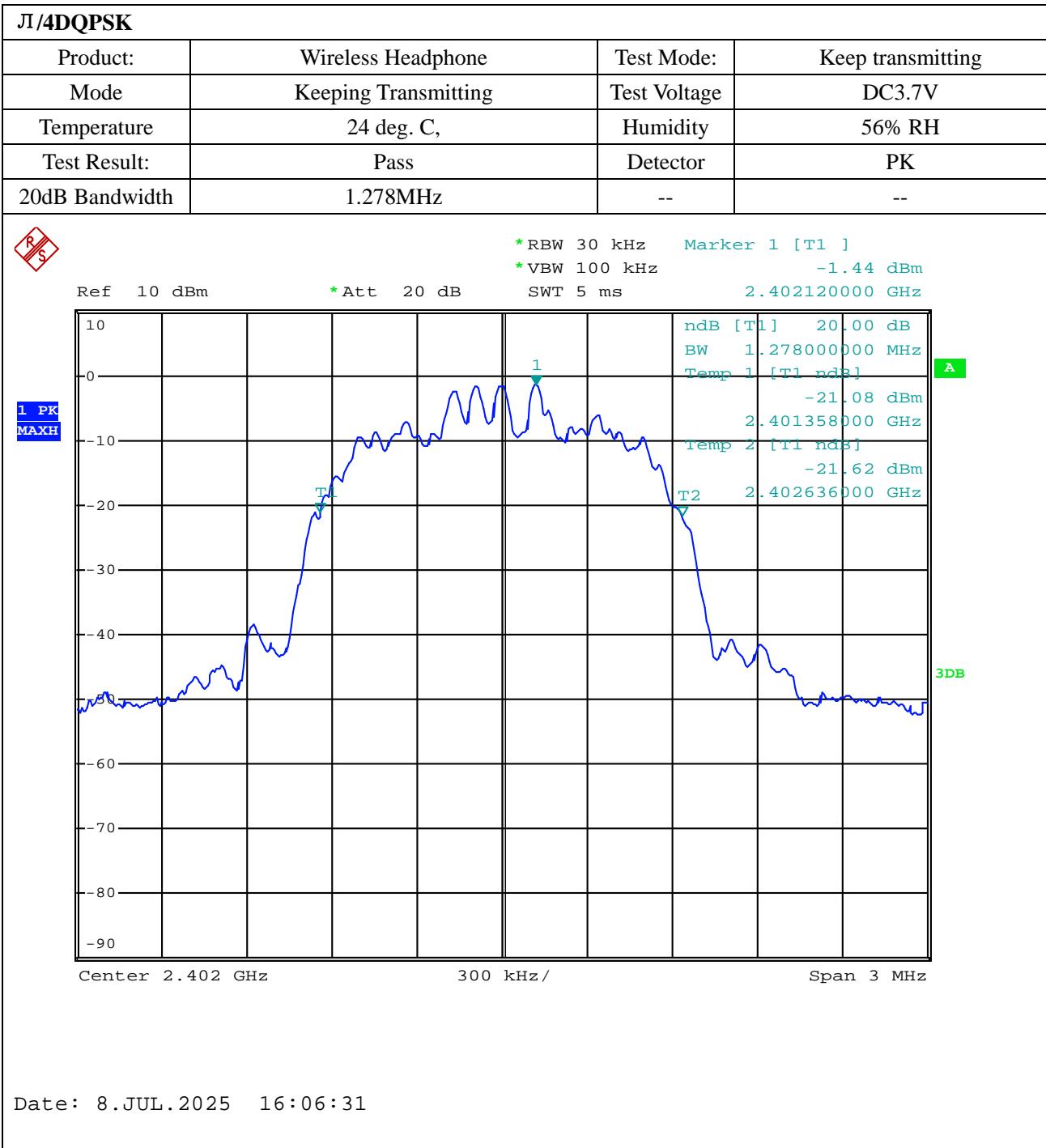


Date: 8.JUL.2025 16:27:30

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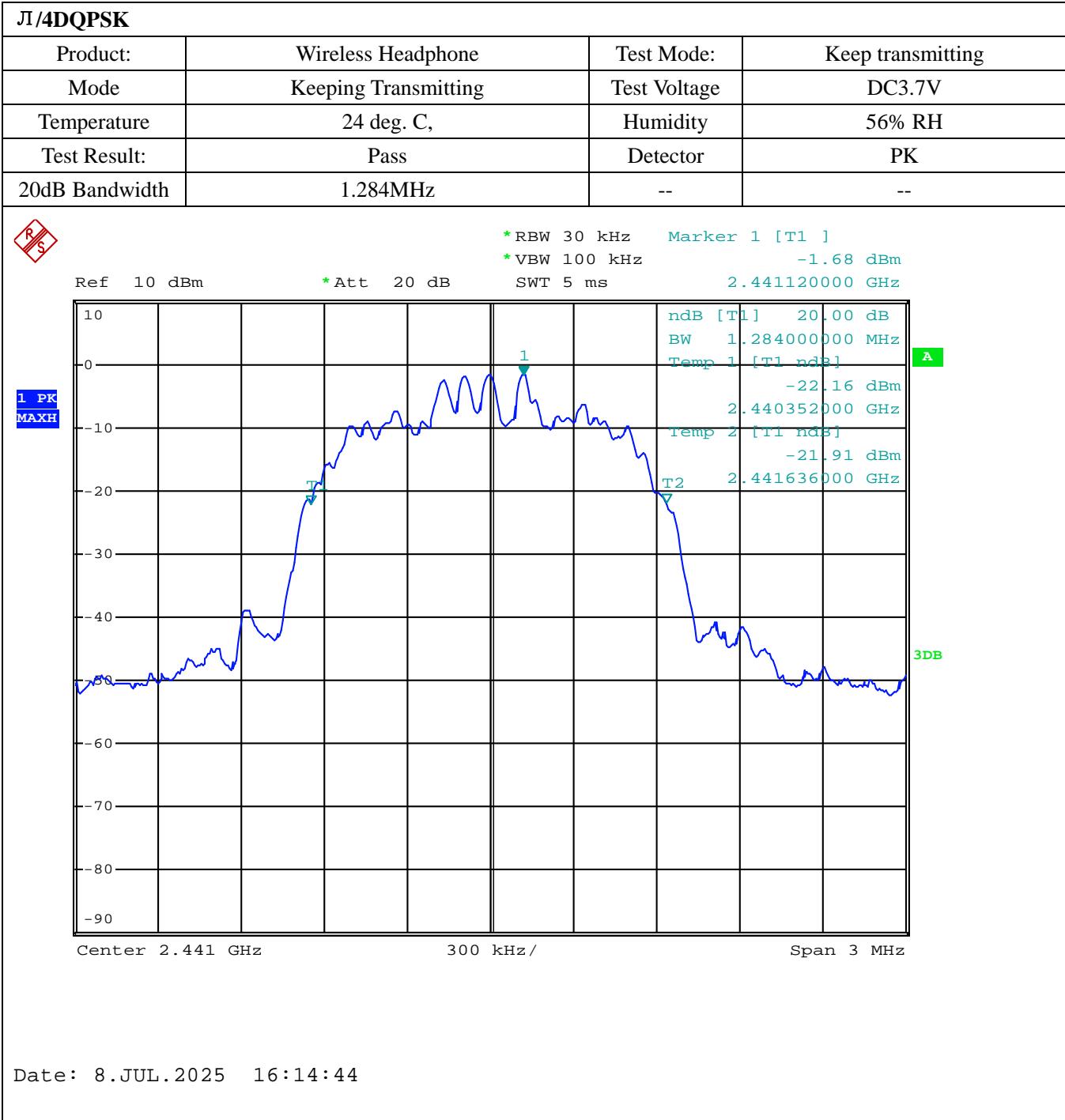
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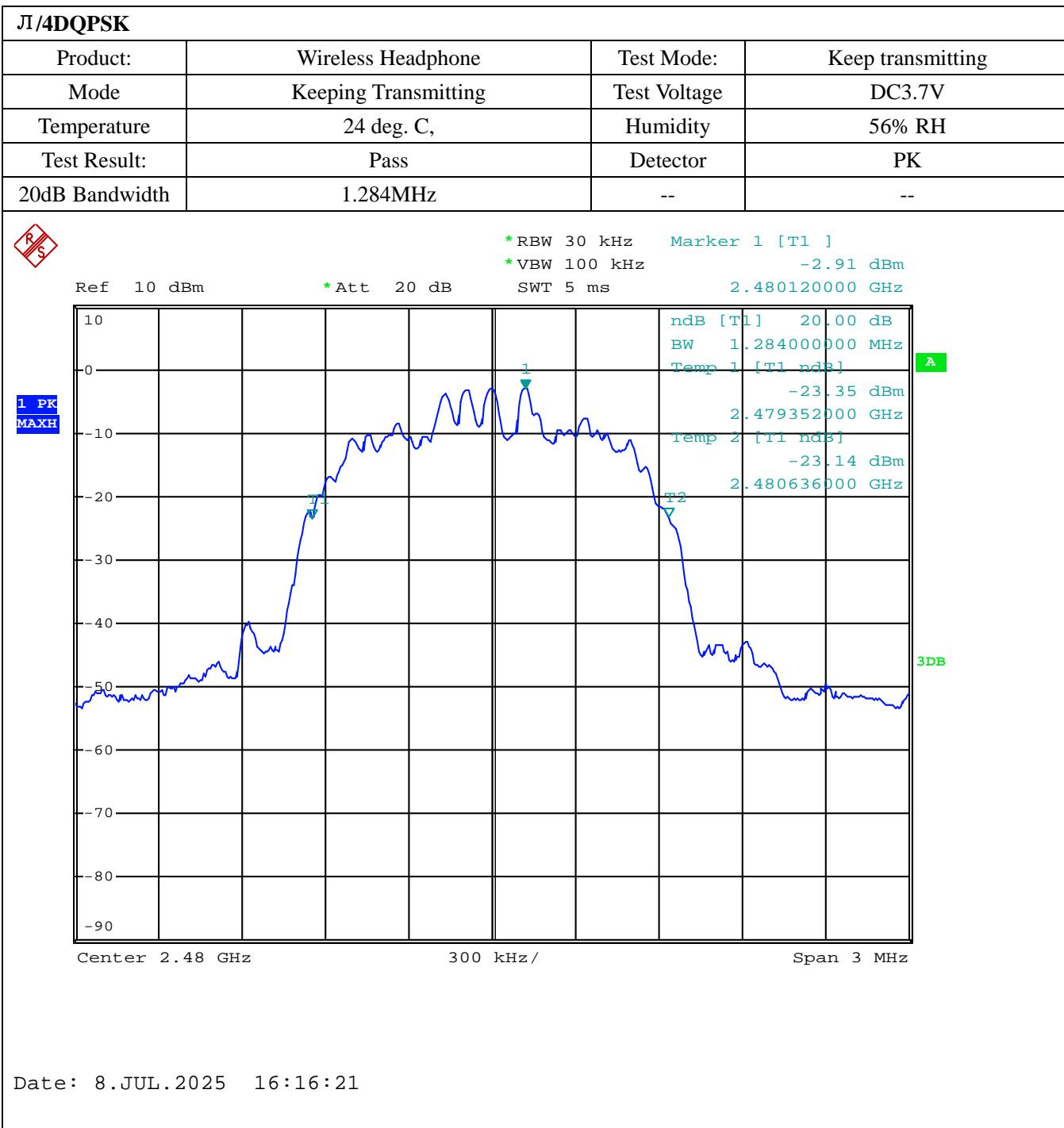
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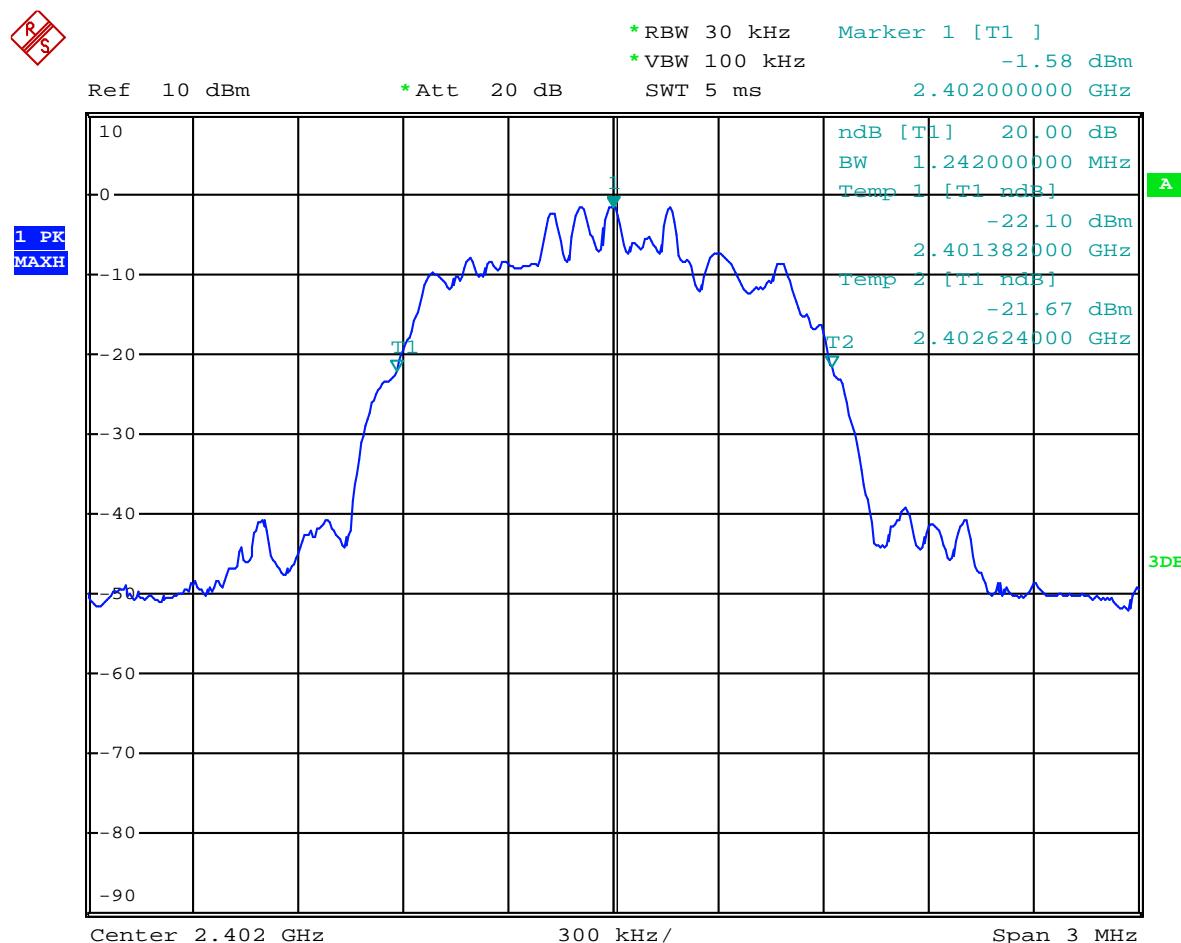
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8DPSK

Product:	Wireless Headphone	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	1.242MHz	--	--



Date: 8.JUL.2025 16:05:02

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

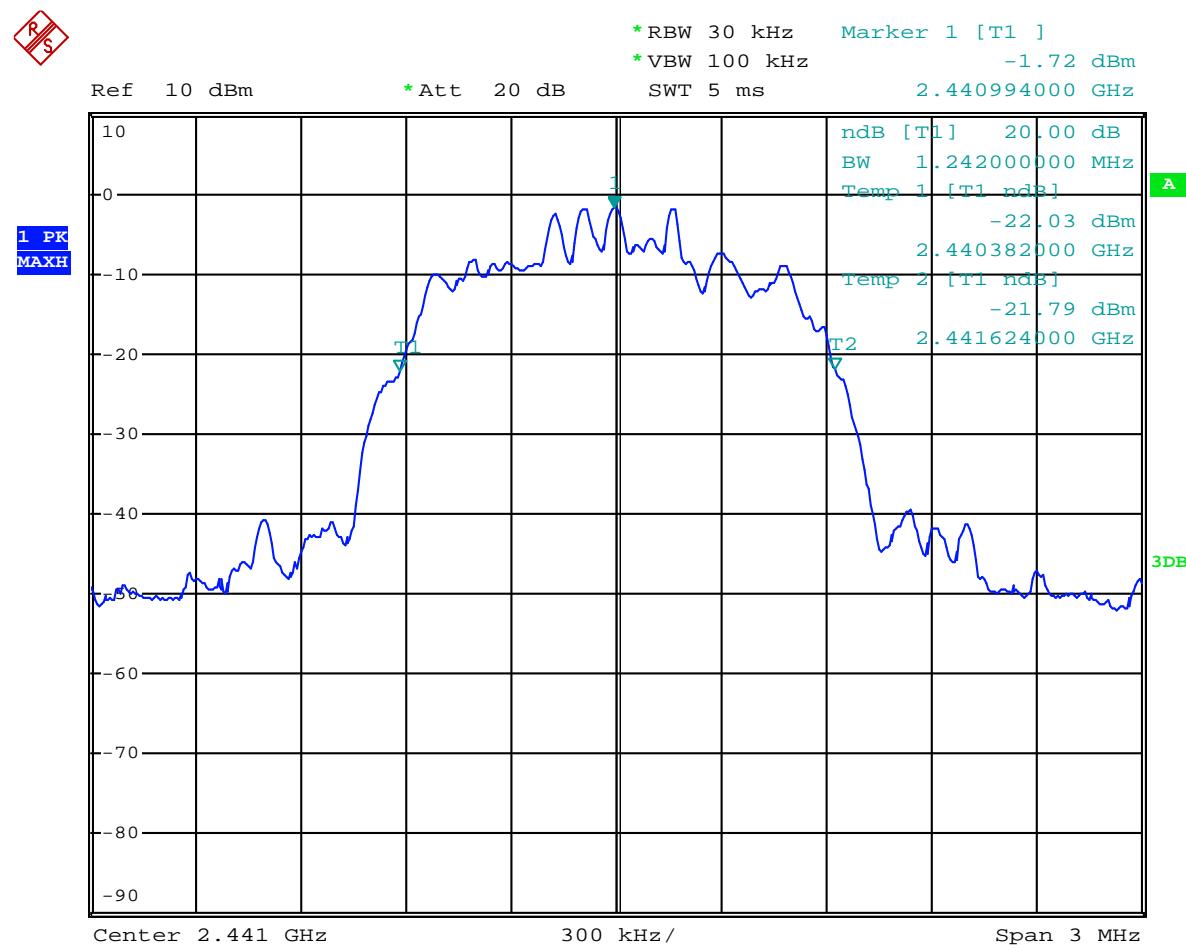
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8DPSK

Product:	Wireless Headphone	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	1.242MHz	--	--



Date: 8.JUL.2025 15:53:57

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

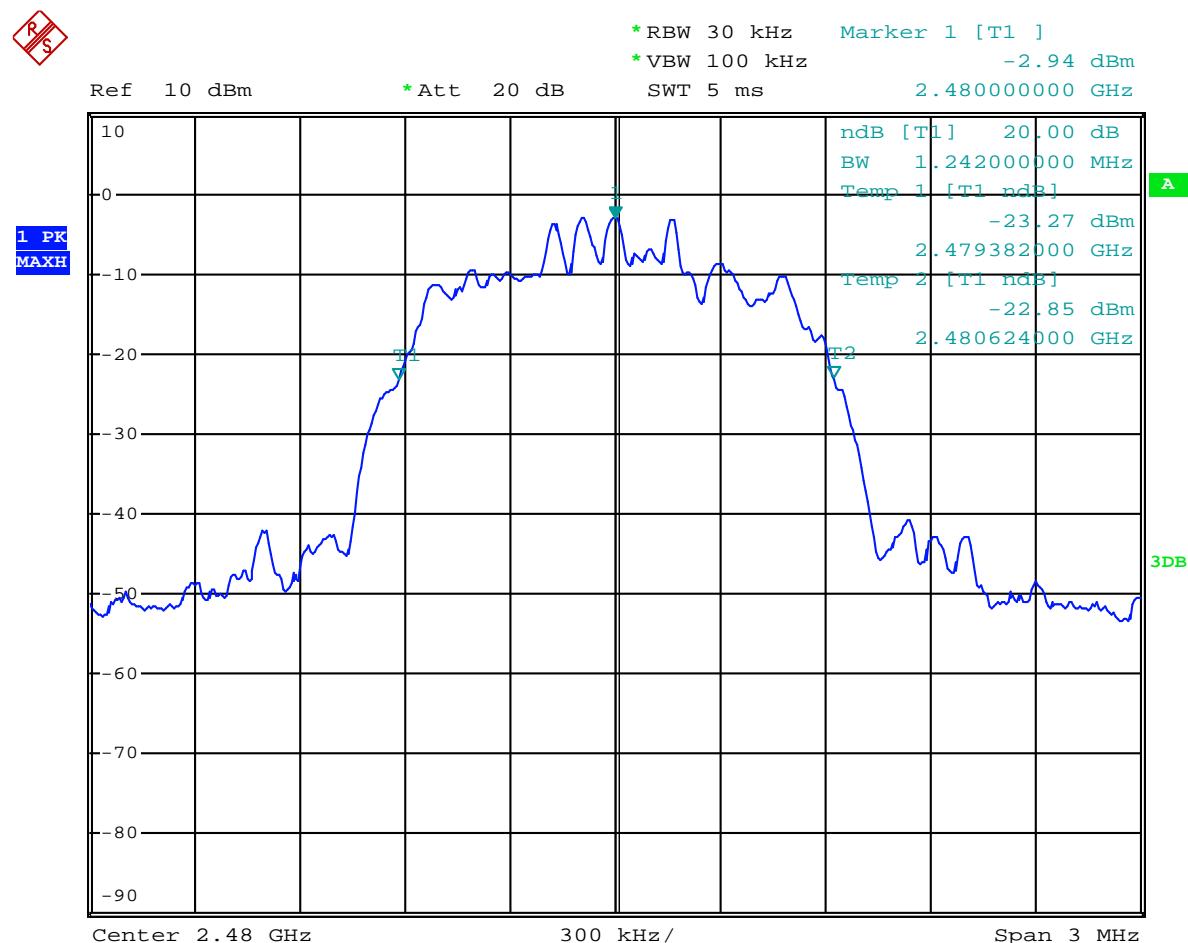
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8DPSK

Product:	Wireless Headphone	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	1.242MHz	--	--



Date: 8.JUL.2025 15:51:43

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10.0 FCC ID Label

FCC ID: 2A7J2-GUBHC15

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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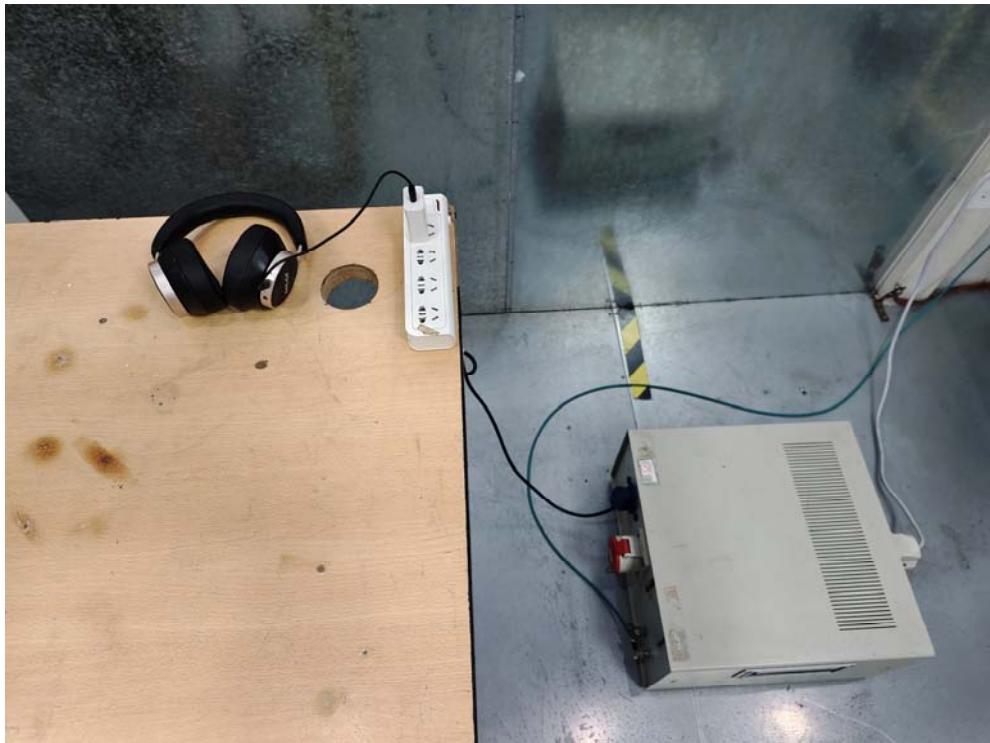
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11.0 Photo of testing

11.1 Conducted test View



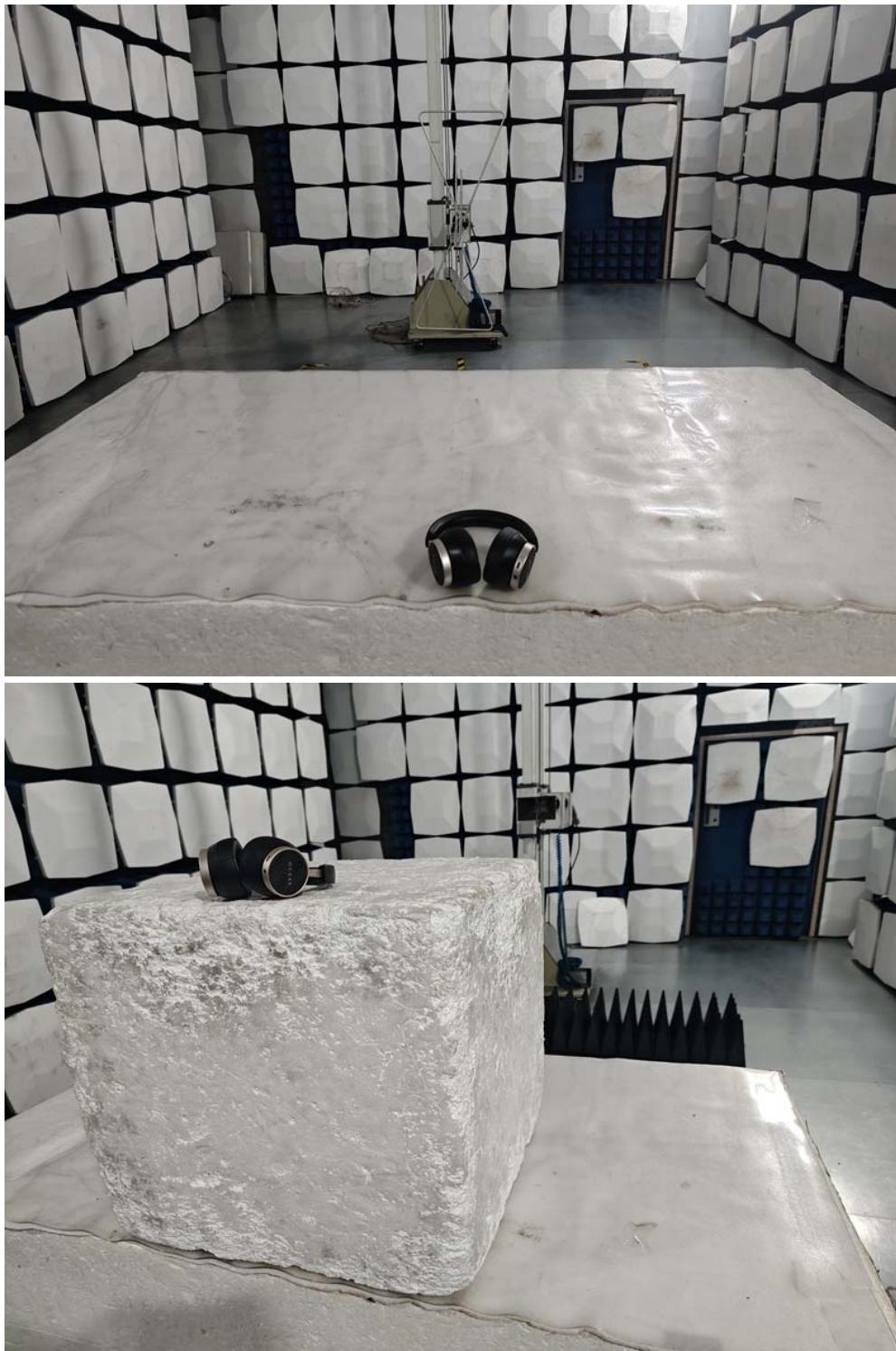
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Radiated emission test view



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11.2 Photographs – EUT

Outside View



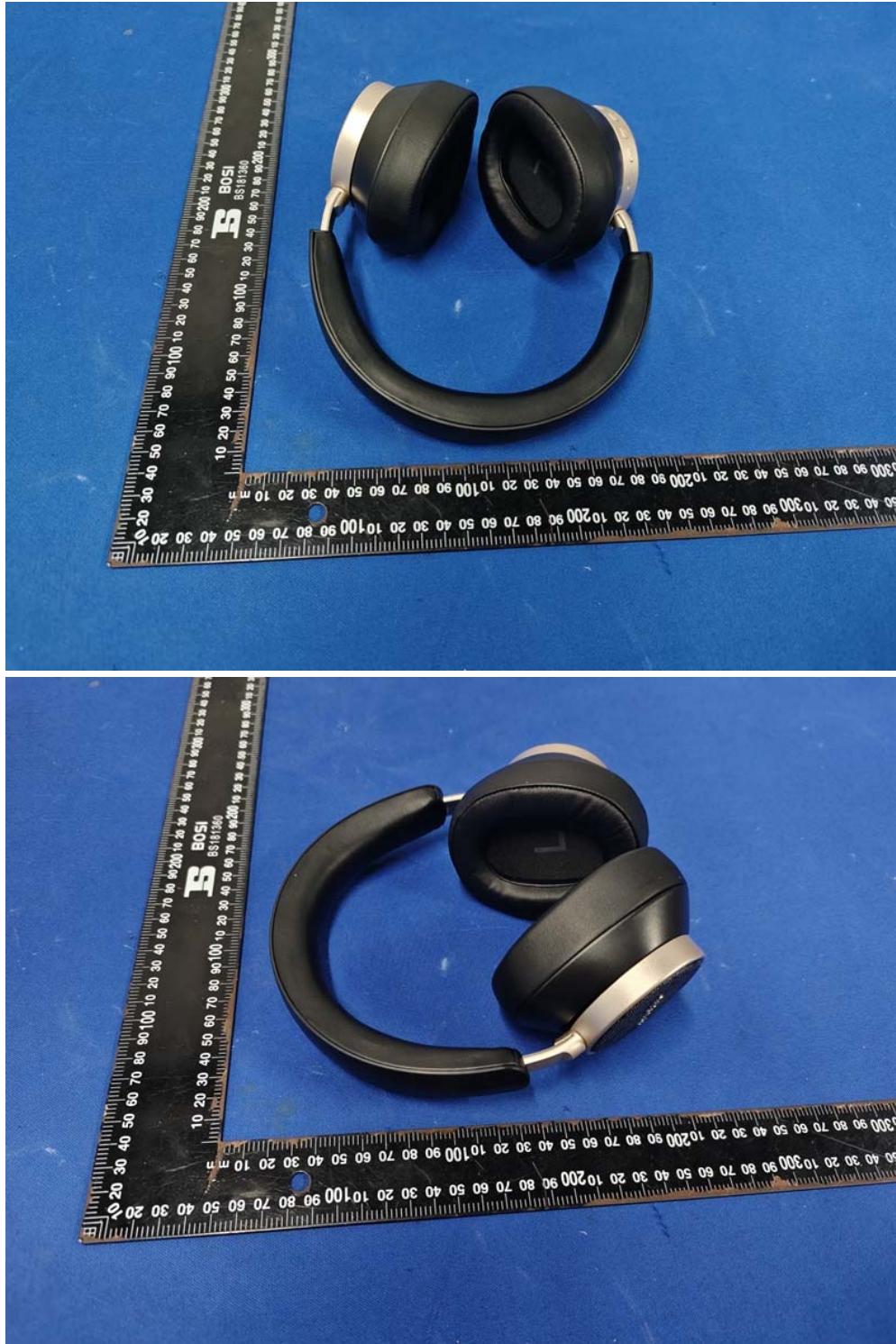
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Outside View



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Inside View



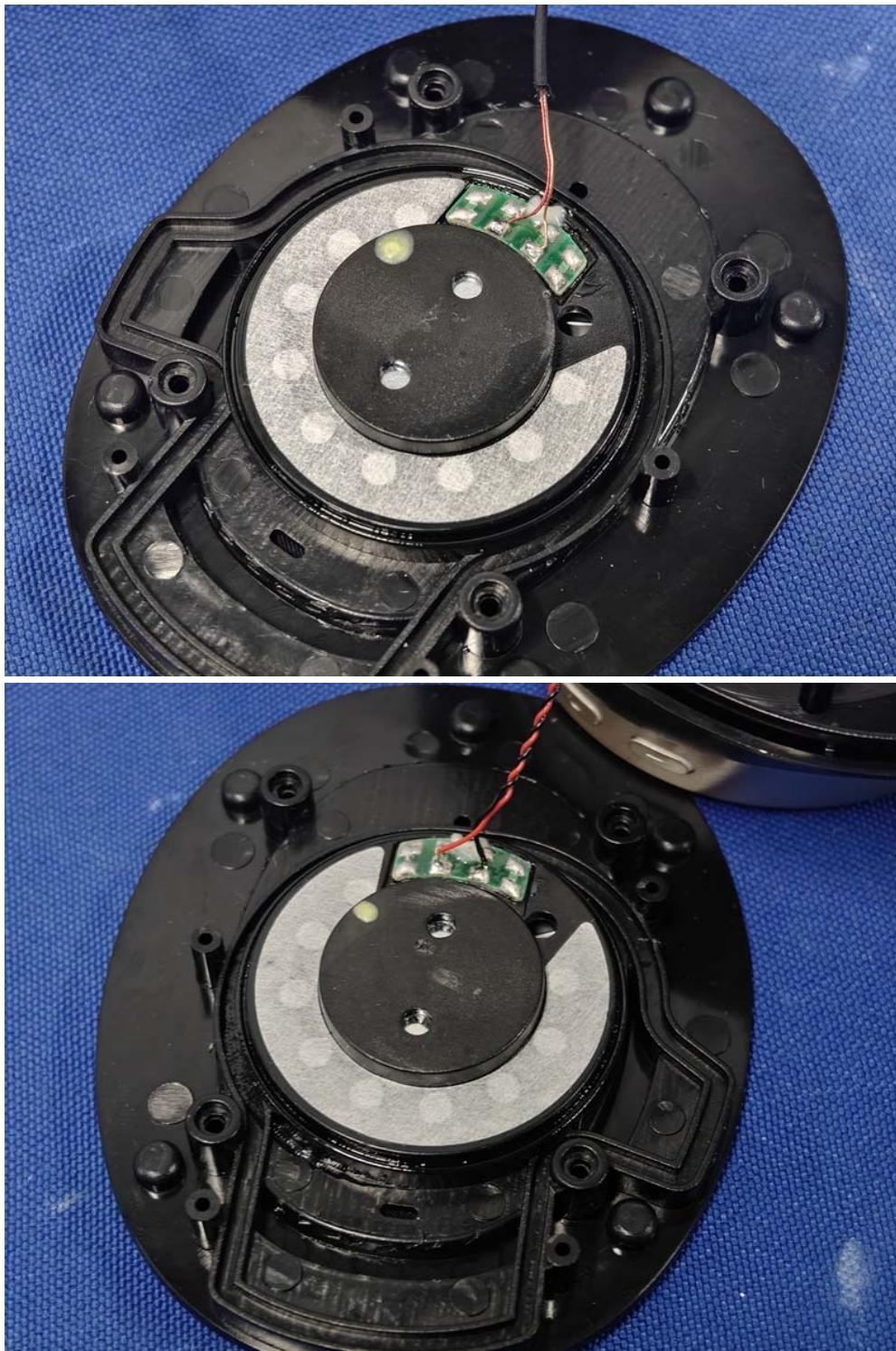
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Inside View



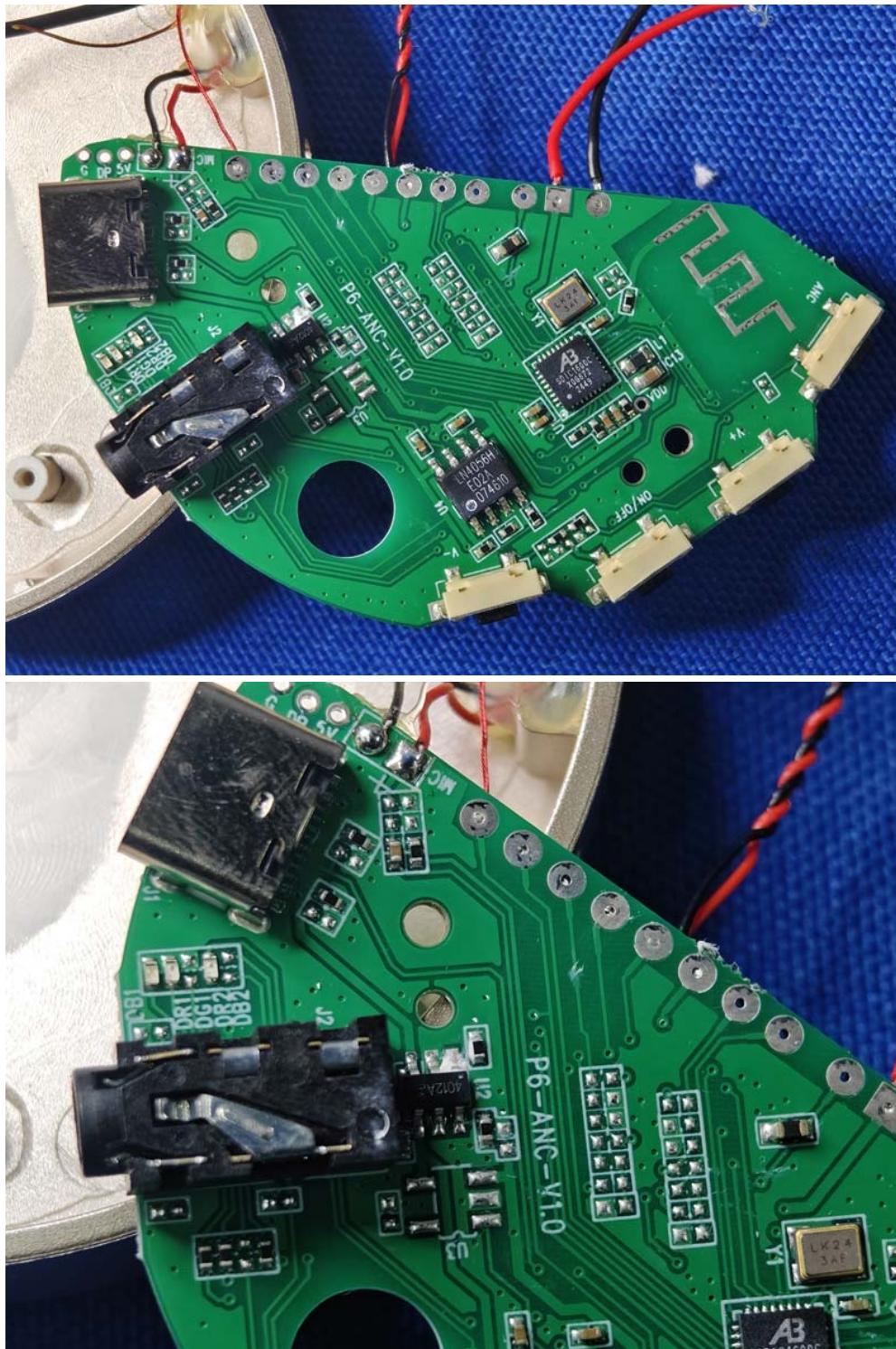
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Inside View



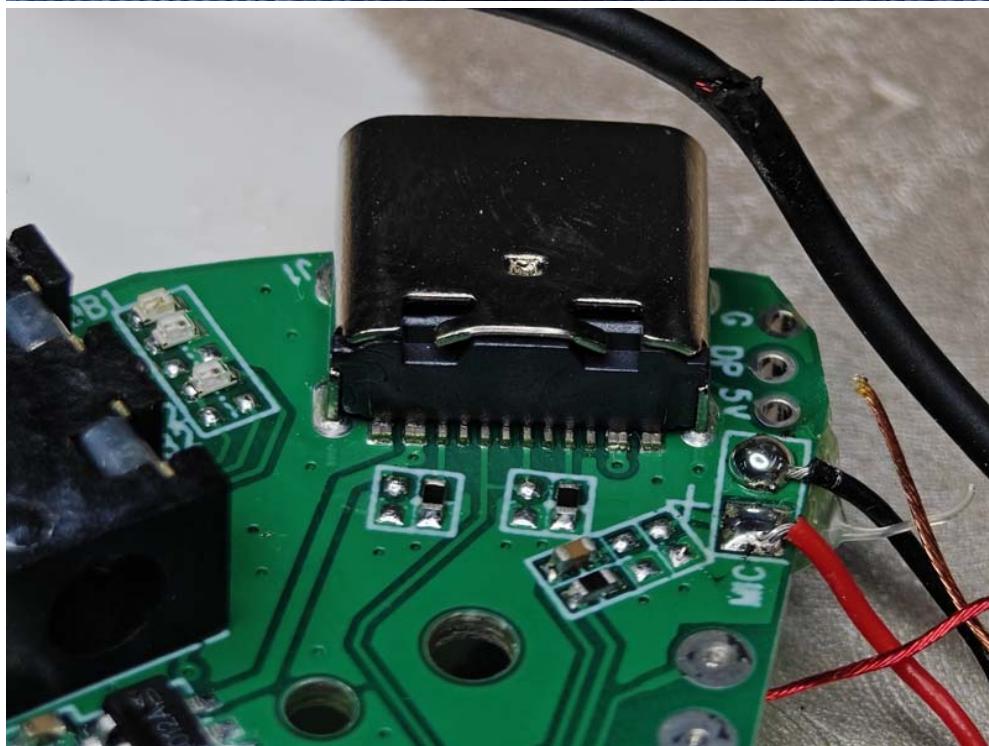
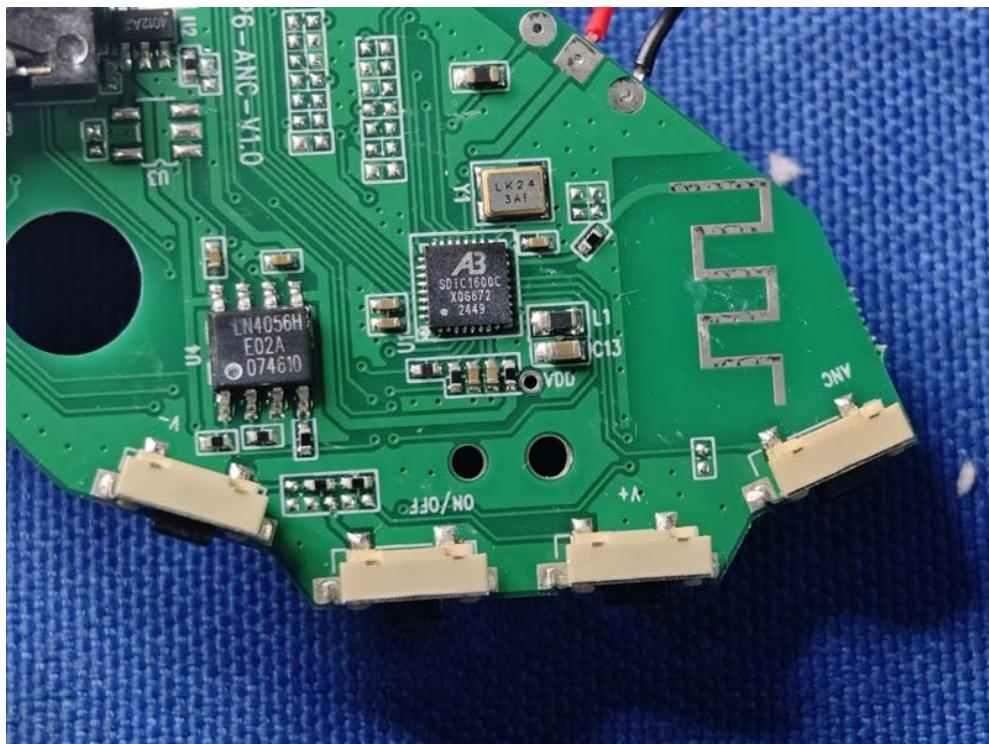
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Inside View



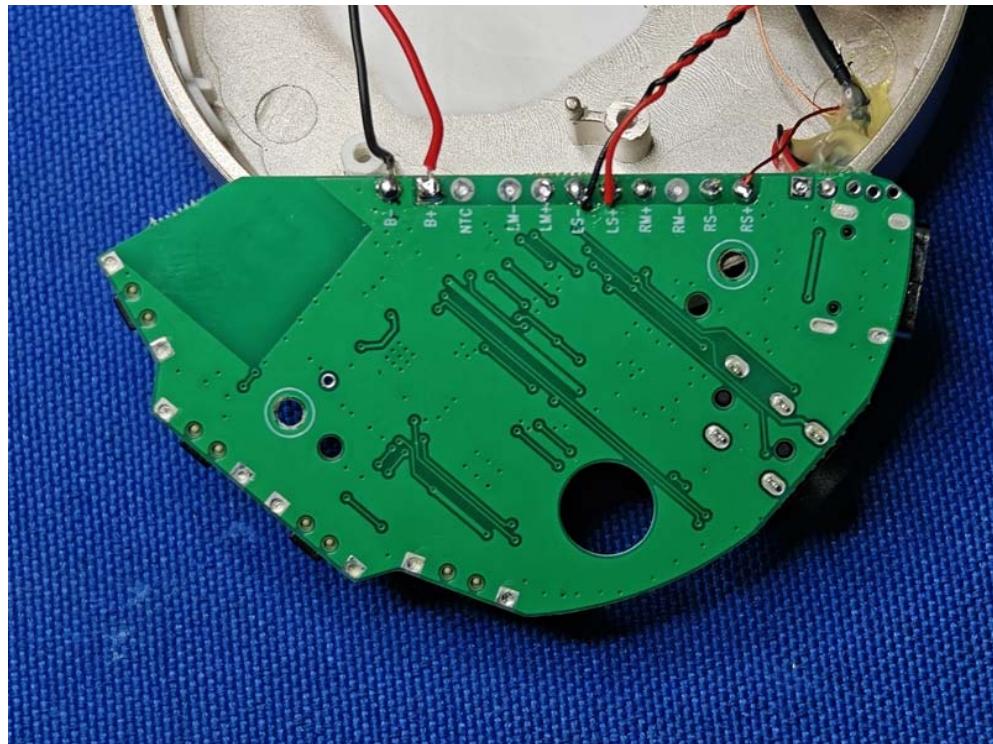
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Inside View



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