



Report No.: TW2307472E

Applicant: Zhuhai Wicue Technology Co.Ltd

Product: Colour changing sunglasses

Model No.: Chameло

Trademark: Wicue, Chameло

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: November 18, 2023

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



Special Statement:

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: Zhuhai Wicue Technology Co.Ltd
Address: Room 113, Building 19B, No.1889 East Huandao Road, Hengqin District, Zhuhai, Guangdong, China
Telephone: --
Fax: --

1.3 Description of EUT

Product:	Colour changing sunglasses
Manufacturer:	Zhuhai Wicue Technology Co.Ltd
Address:	Room 113, Building 19B, No.1889 East Huandao Road, Hengqin District, Zhuhai, Guangdong, China
Trademark:	Wicue, Chamelo
Model Number:	Chamelo
Additional Model Name	N/A
Rating:	DC5V, 100mA
Battery:	DC3.85V, 60mAh Li-ion battery
Modulation Type:	GFSK
Operation Frequency:	2402-2480MHz
Channel Number:	40
Channel Separation:	2MHz
Hardware Version:	V01
Software Version:	Right Part: Chamelo-R-V1.5-230728; Left Part: Chamelo-L-V1.5-230728
Serial No.:	1869ZW1000002
Antenna Designation	PCB antenna with gain -0.58dBi Max for left and right parts (Get from the antenna specification)

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1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2023-07-28 to 2023-11-18

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	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

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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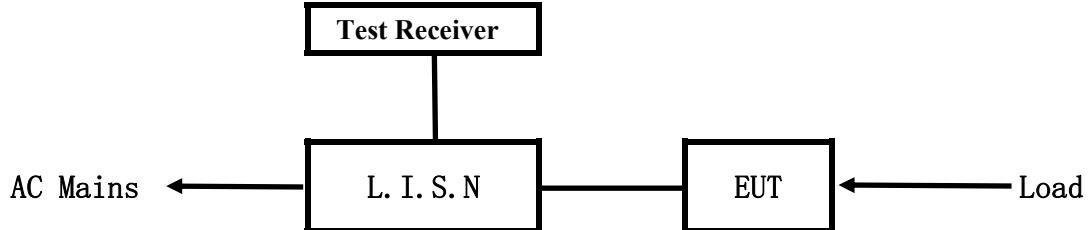
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5.0 Power Line Conducted Emission Test

5.1 Schematics of the test



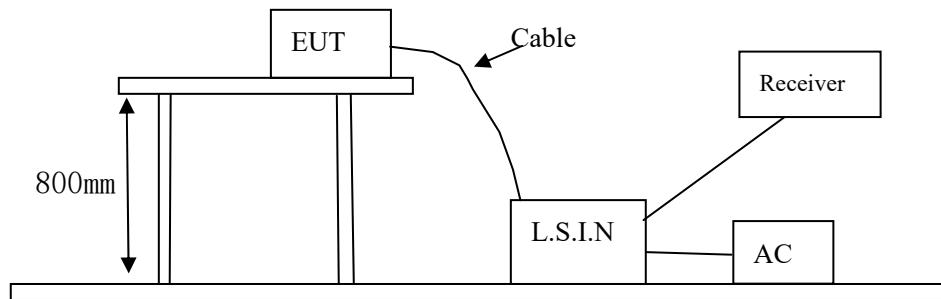
EUT: Equipment Under Test

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.

40 channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
Colour changing sunglasses	Zhuhai Wicue Technology Co.Ltd	Chamelo	2A43V-CHAMELO

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

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

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013

A Setup the EUT and simulators as shown on follow
B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

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

Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The tighter limit shall apply at the transition frequencies

5.6 Test Results:

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

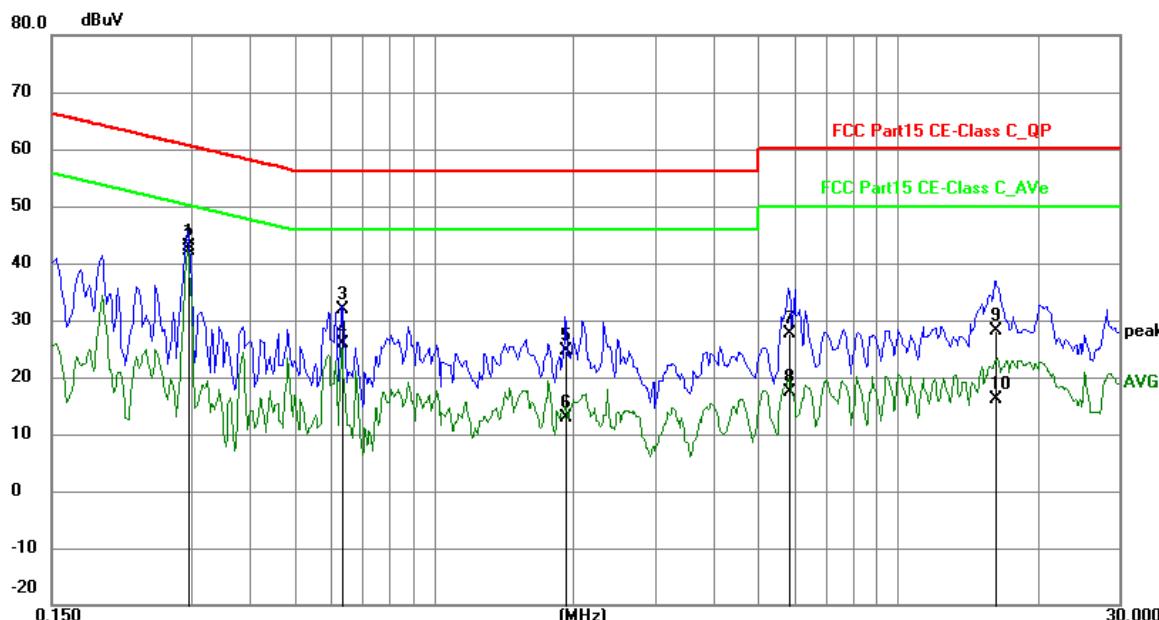
EUT Operating Environment

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

EUT set Condition: Keep Transmitting

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	0.2943	33.10	9.76	42.86	60.40	-17.54	QP	P
2	0.2943	32.32	9.76	42.08	50.40	-8.32	AVG	P
3	0.6336	22.04	9.78	31.82	56.00	-24.18	QP	P
4	0.6336	16.13	9.78	25.91	46.00	-20.09	AVG	P
5	1.9245	14.79	9.80	24.59	56.00	-31.41	QP	P
6	1.9245	3.00	9.80	12.80	46.00	-33.20	AVG	P
7	5.8275	17.63	9.96	27.59	60.00	-32.41	QP	P
8	5.8275	7.50	9.96	17.46	50.00	-32.54	AVG	P
9	16.2132	17.70	10.45	28.15	60.00	-31.85	QP	P
10	16.2132	5.80	10.45	16.25	50.00	-33.75	AVG	P

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

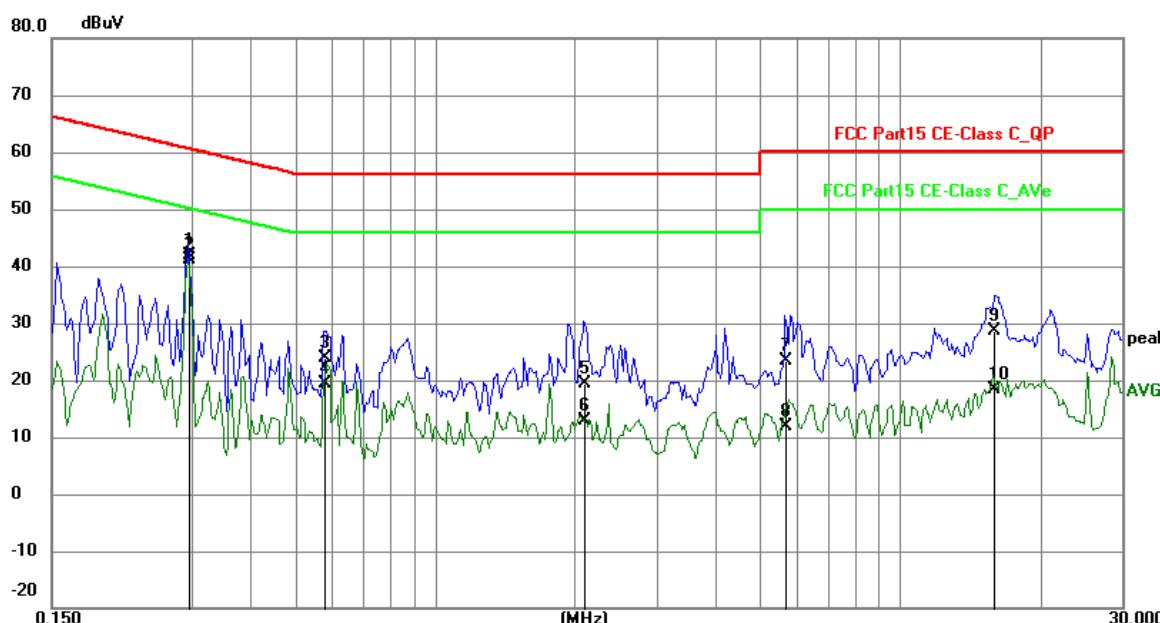
EUT Operating Environment

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

EUT set Condition: Keep Transmitting

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	0.2943	32.10	9.76	41.86	60.40	-18.54	QP	P
2	0.2943	31.34	9.76	41.10	50.40	-9.30	AVG	P
3	0.5790	14.11	9.77	23.88	56.00	-32.12	QP	P
4	0.5790	9.63	9.77	19.40	46.00	-26.60	AVG	P
5	2.0961	9.59	9.80	19.39	56.00	-36.61	QP	P
6	2.0961	2.96	9.80	12.76	46.00	-33.24	AVG	P
7	5.6637	13.35	9.96	23.31	60.00	-36.69	QP	P
8	5.6637	1.86	9.96	11.82	50.00	-38.18	AVG	P
9	15.9363	18.16	10.44	28.60	60.00	-31.40	QP	P
10	15.9363	7.96	10.44	18.40	50.00	-31.60	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:

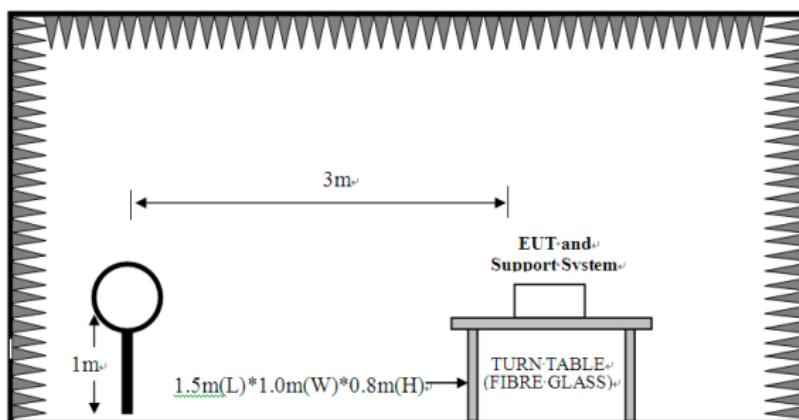
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150Khz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

(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



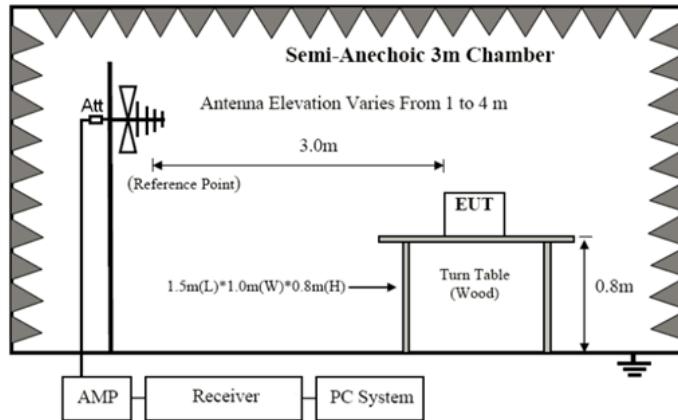
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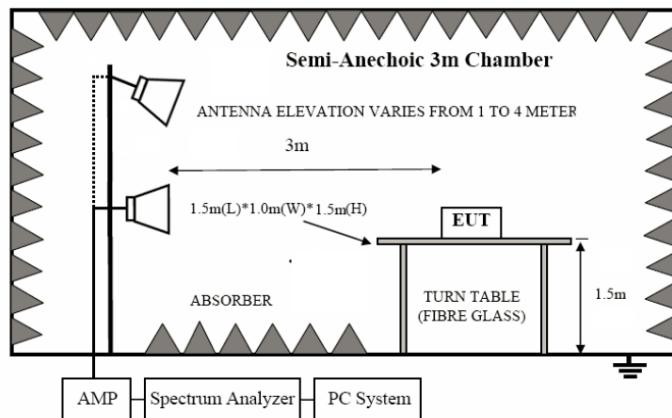
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For radiated emissions from 30MHz to 1GHz



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) = $20 \log_{10} \text{RF Voltage (uV)}$
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	$20\log_{10}(2400/F(\text{kHz})) + 40\log_{10}(300/3)$
0.490-1.705	3	$20\log_{10}(24000/F(\text{kHz})) + 40\log_{10}(30/3)$
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) = $20 \log_{10} \text{RF Voltage (uV)}$
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. This is a portable 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.
6. Battery fully charged was used during the test.

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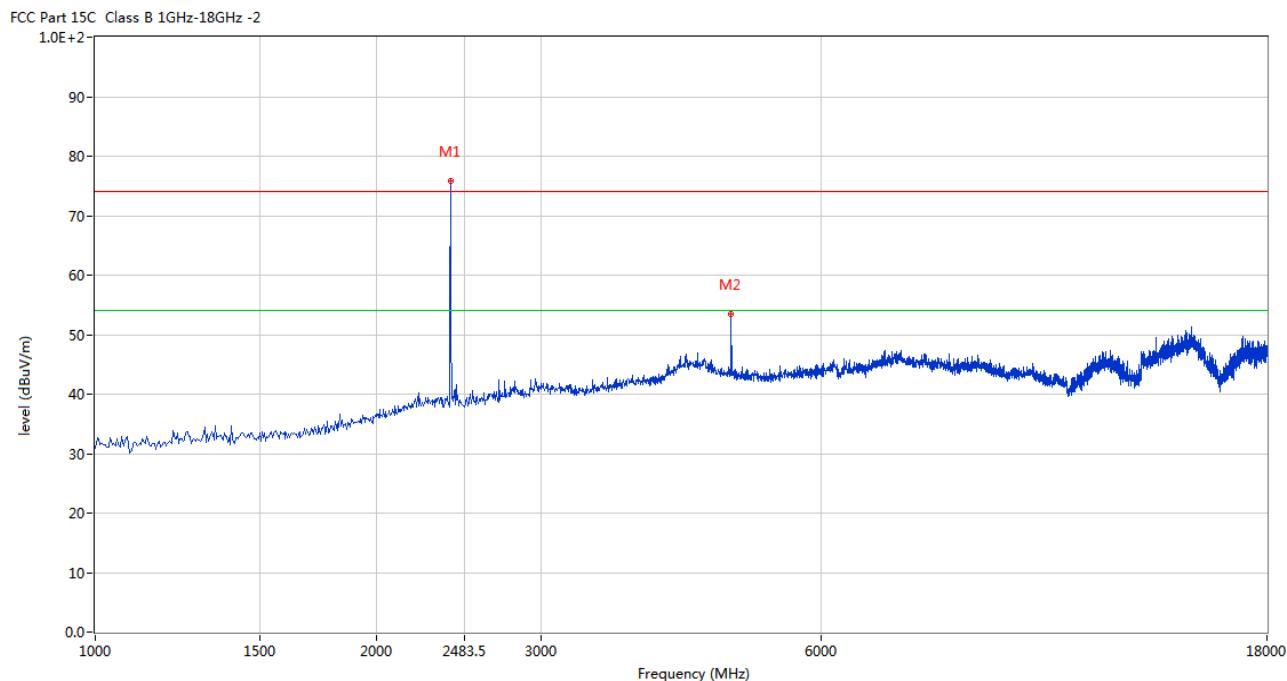
6.5 Test result

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	76.89	-3.57	114.0	-37.11	Peak	360.00	100	Horizontal	Pass
2	4802.799	53.40	3.12	74.0	-20.60	Peak	241.00	100	Horizontal	Pass

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

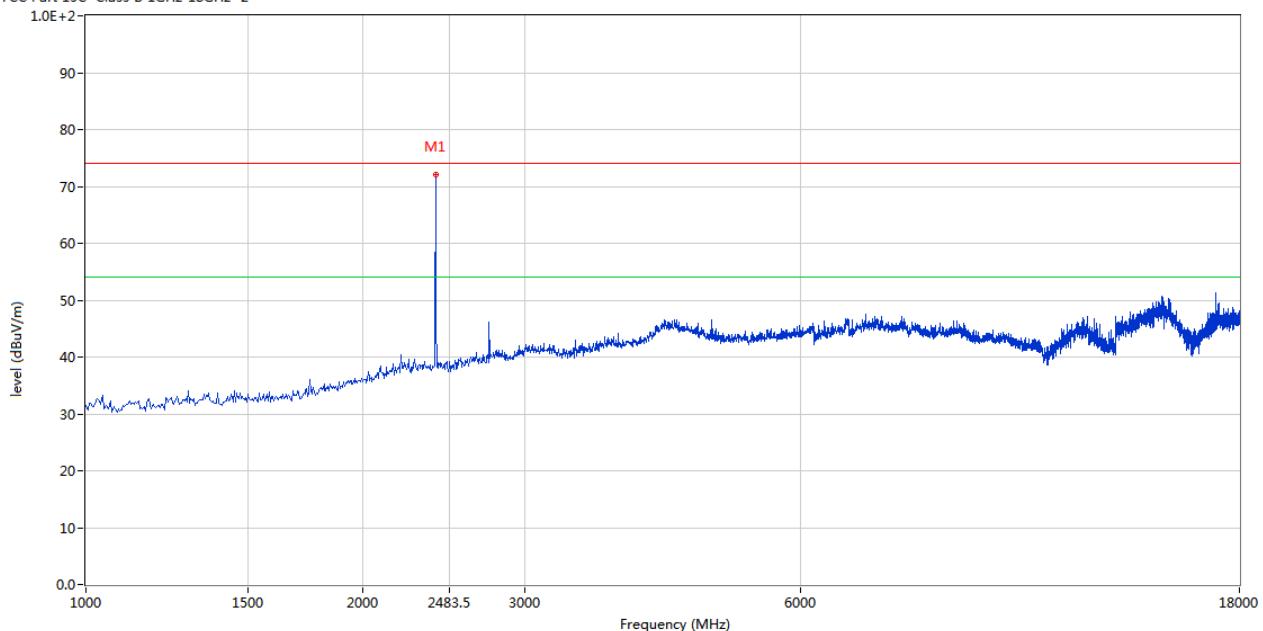
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Vertical

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	2402	72.10	-3.57	114.0	-41.90	Peak	338.00	100	Vertical	Pass

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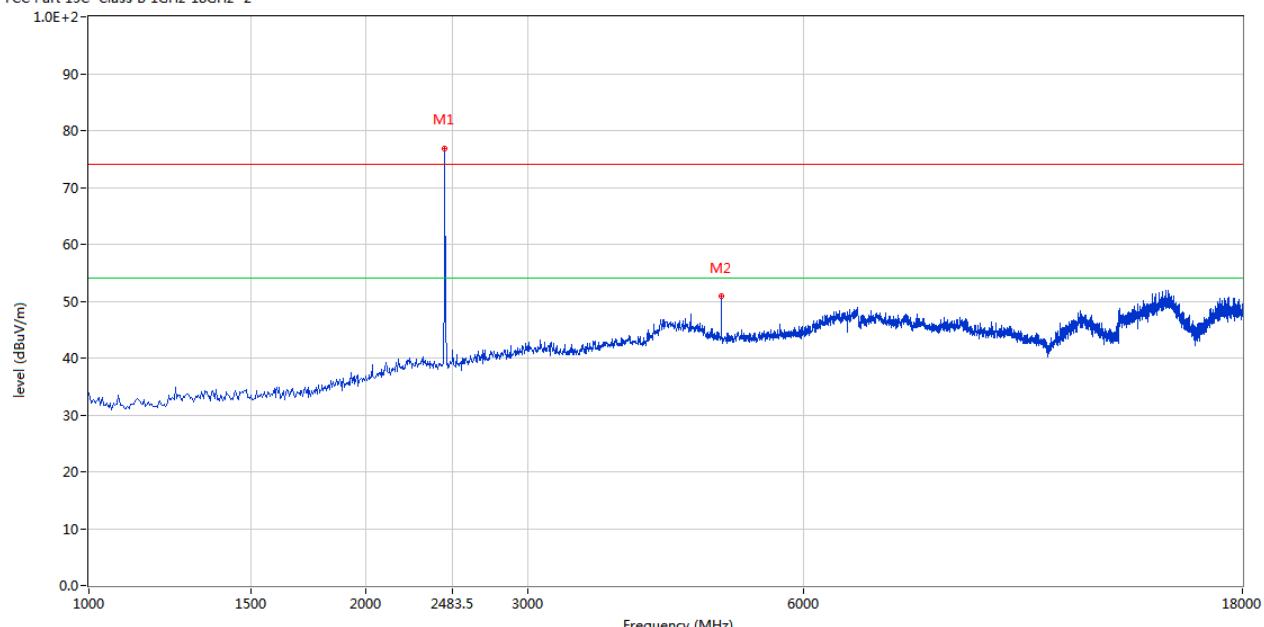
In the event of the improper use of the report, The SHENZHEN TIMEWAY TESTING LABORATORIES reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



Please refer to the following test plots for details: Middle Channel-2440MHz

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	2440	76.83	-3.57	114.0	-37.17	Peak	213.00	100	Horizontal	Pass
2	4879.280	50.85	3.20	74.0	-23.15	Peak	102.00	100	Horizontal	Pass

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

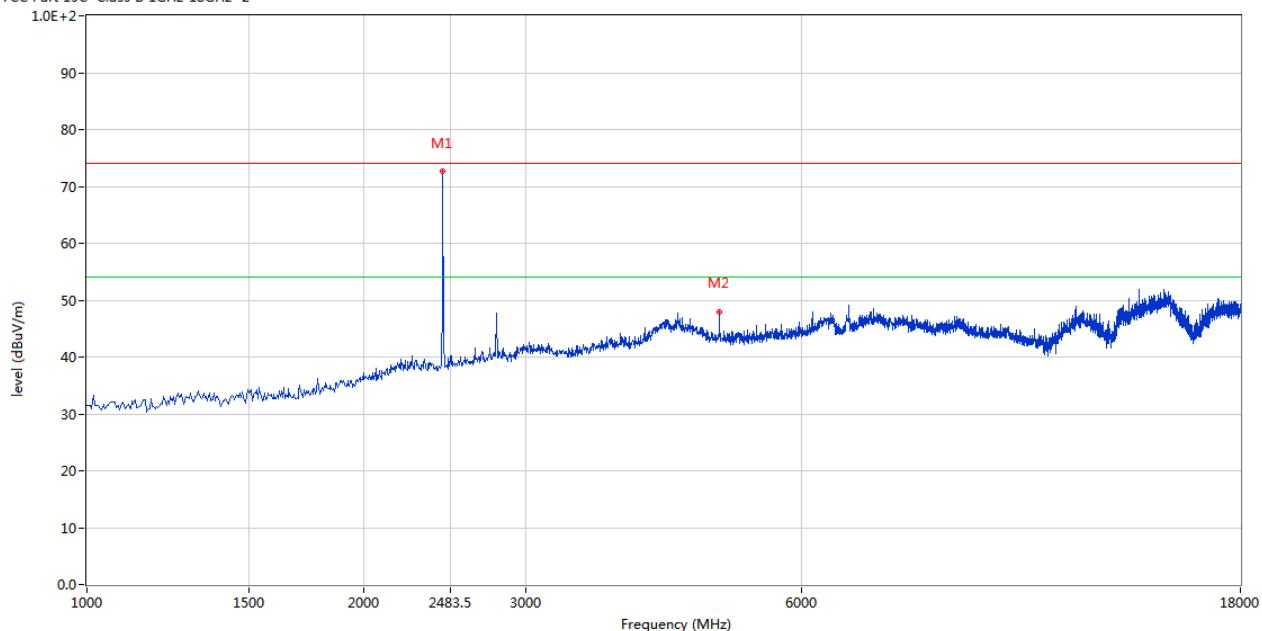
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Vertical

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	2440	72.61	-3.57	114.0	-41.39	Peak	286.00	100	Vertical	Pass
2	4879.280	48.01	3.20	74.0	-25.99	Peak	248.00	100	Vertical	Pass

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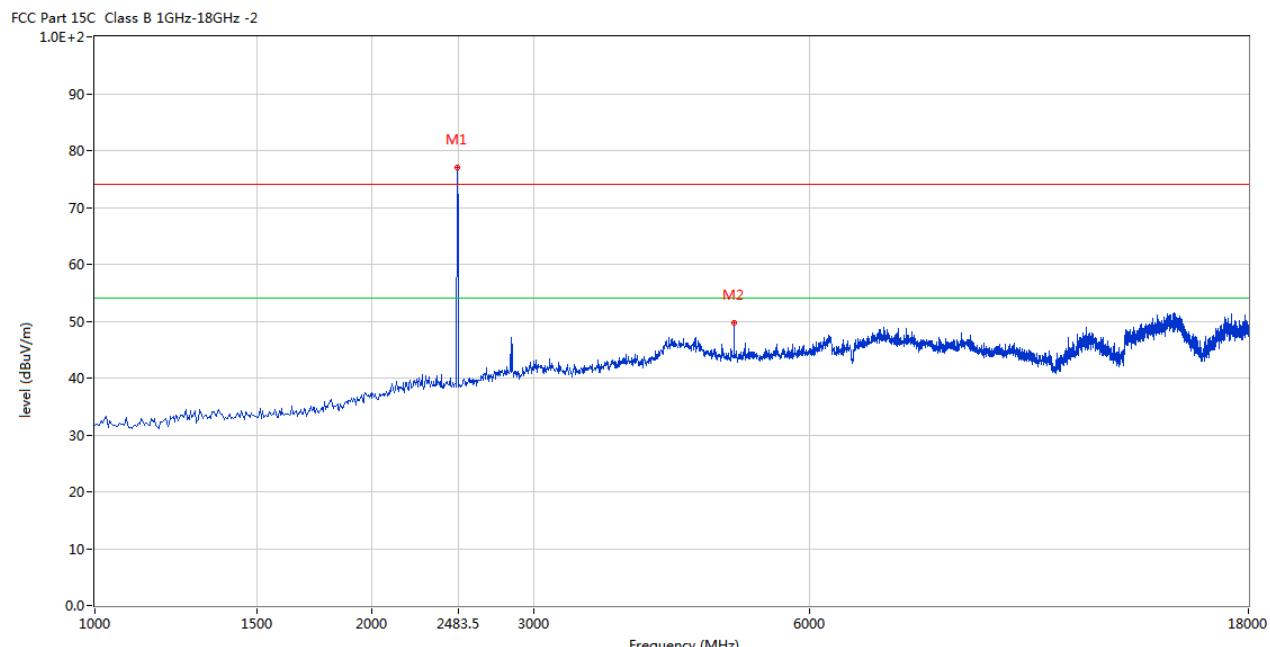
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	76.95	-3.57	114.0	-37.05	Peak	86.00	100	Horizontal	Pass
2	4960.010	49.80	3.36	74.0	-24.20	Peak	346.00	100	Horizontal	Pass

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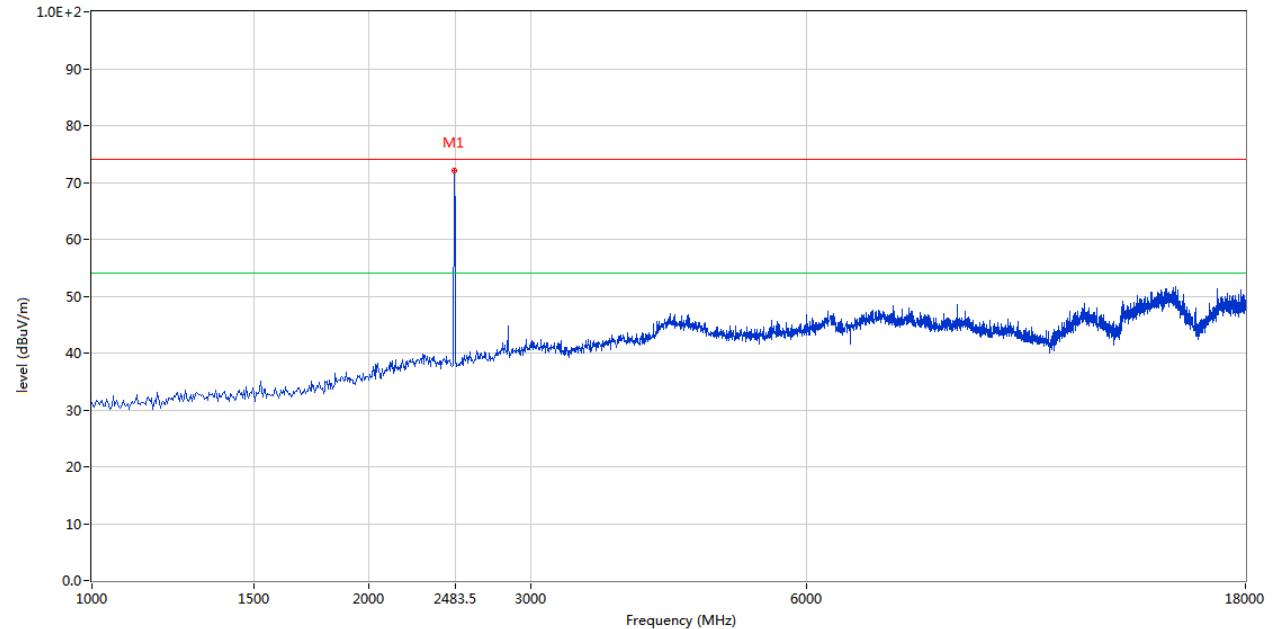
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Vertical

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	72.05	-3.57	114.0	-41.95	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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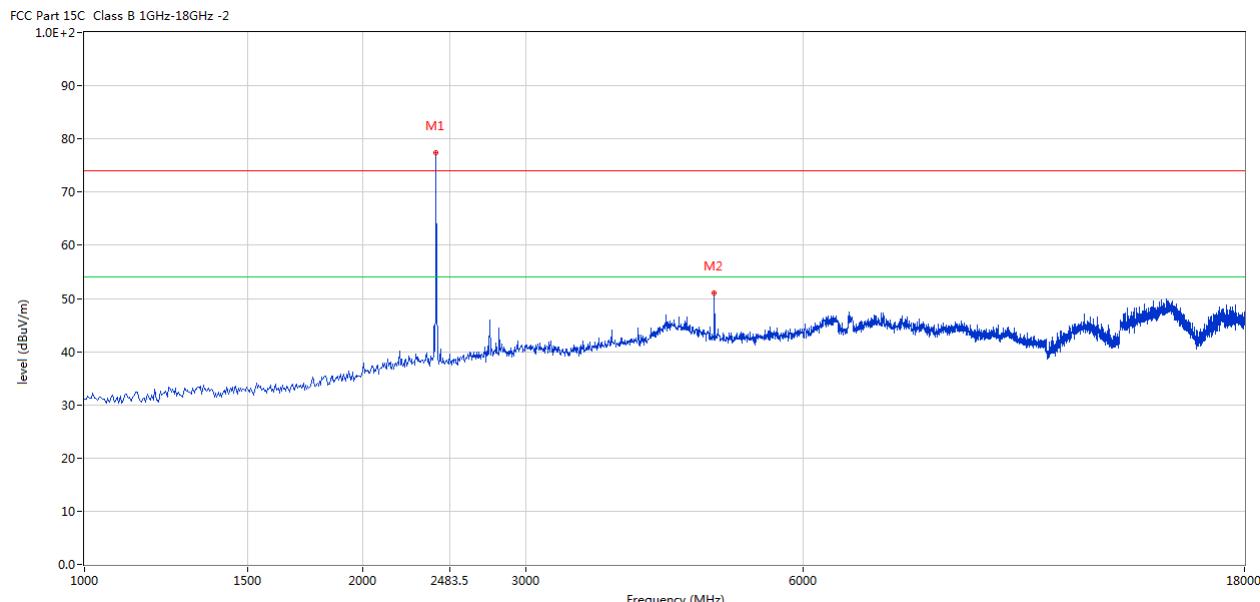
In the event of the improper use of the report, The SHENZHEN TIMEWAY TESTING LABORATORIES reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



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	77.41	-3.57	114.0	-36.59	Peak	215.00	100	Horizontal	Pass
2	4802.799	51.06	3.12	74.0	-22.94	Peak	350.00	100	Horizontal	Pass

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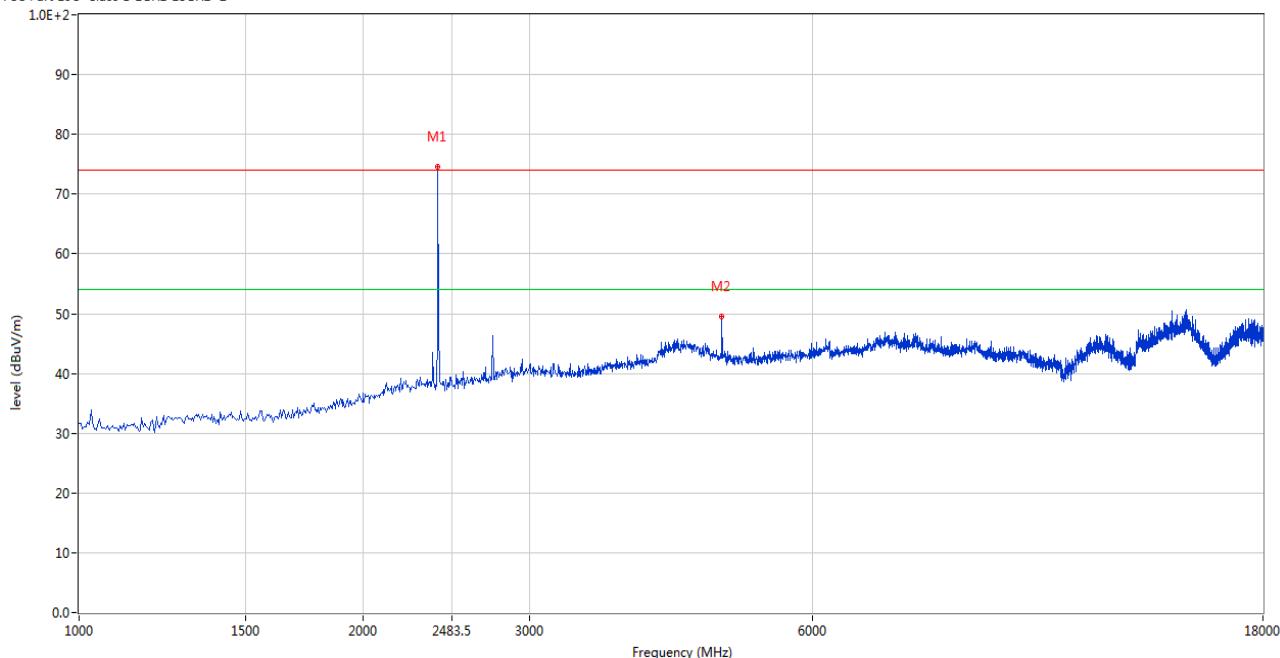
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Vertical

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	74.62	-3.57	114.0	-39.38	Peak	78.00	100	Vertical	Pass
2	4802.799	49.53	3.12	74.0	-24.47	Peak	125.00	100	Vertical	Pass

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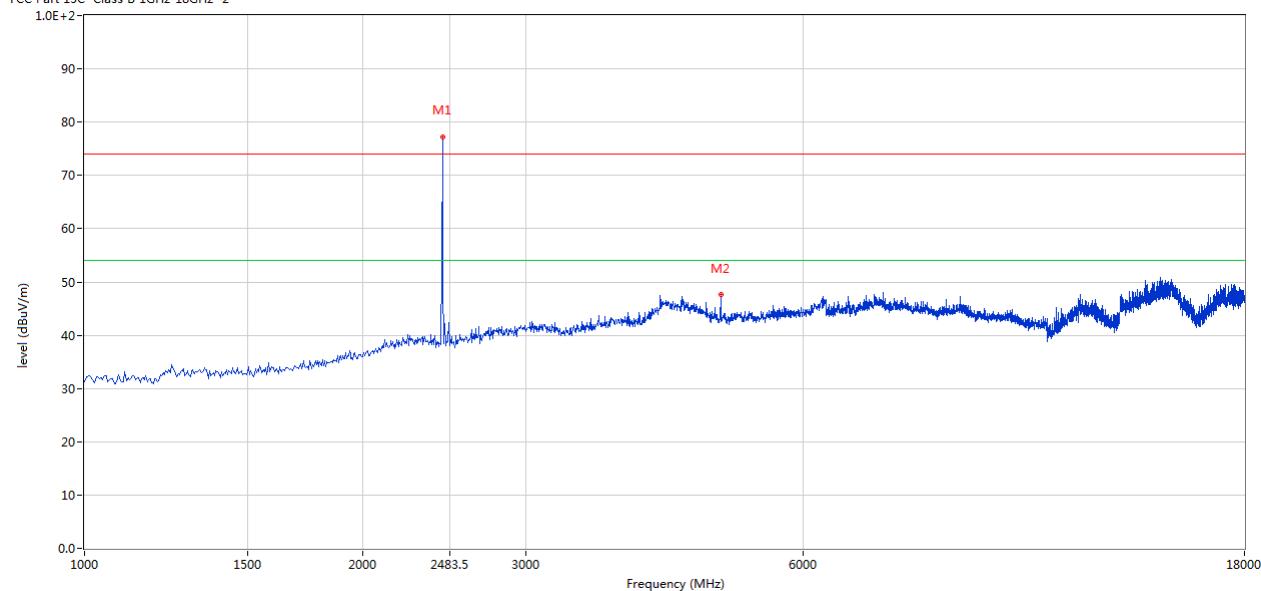
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Please refer to the following test plots for details: Middle Channel-2440MHz

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	2440	77.27	-3.57	114.0	-36.73	Peak	214.00	100	Horizontal	Pass
2	4879.280	46.60	3.20	74.0	-27.40	Peak	91.00	100	Horizontal	Pass

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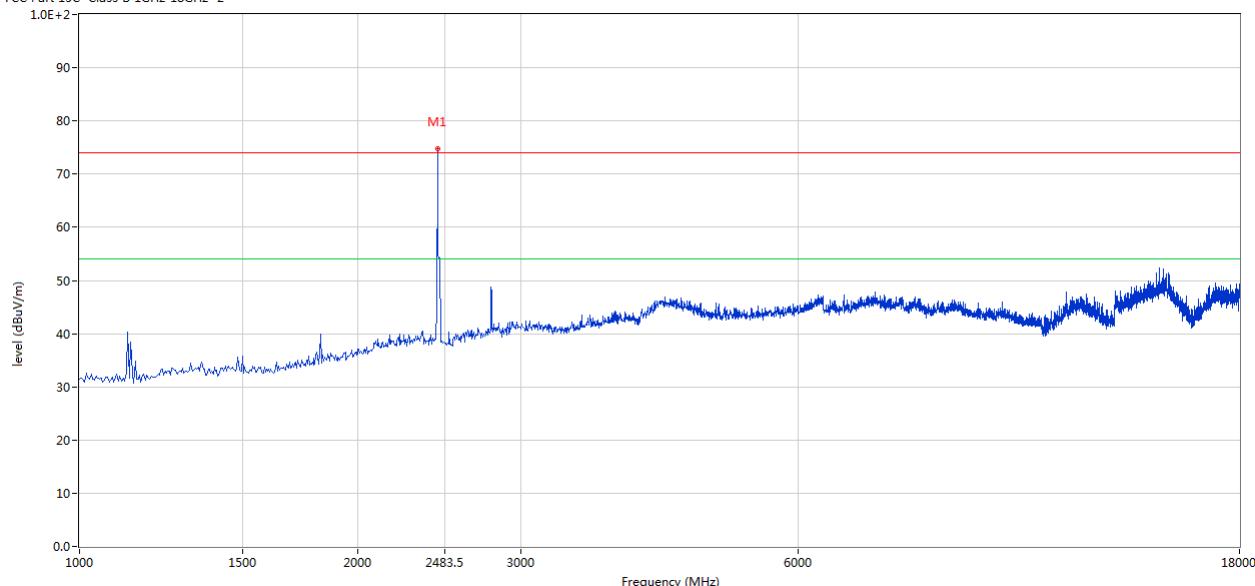
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Vertical

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	2440	74.72	-3.57	114.0	-39.28	Peak	299.00	100	Vertical	Pass

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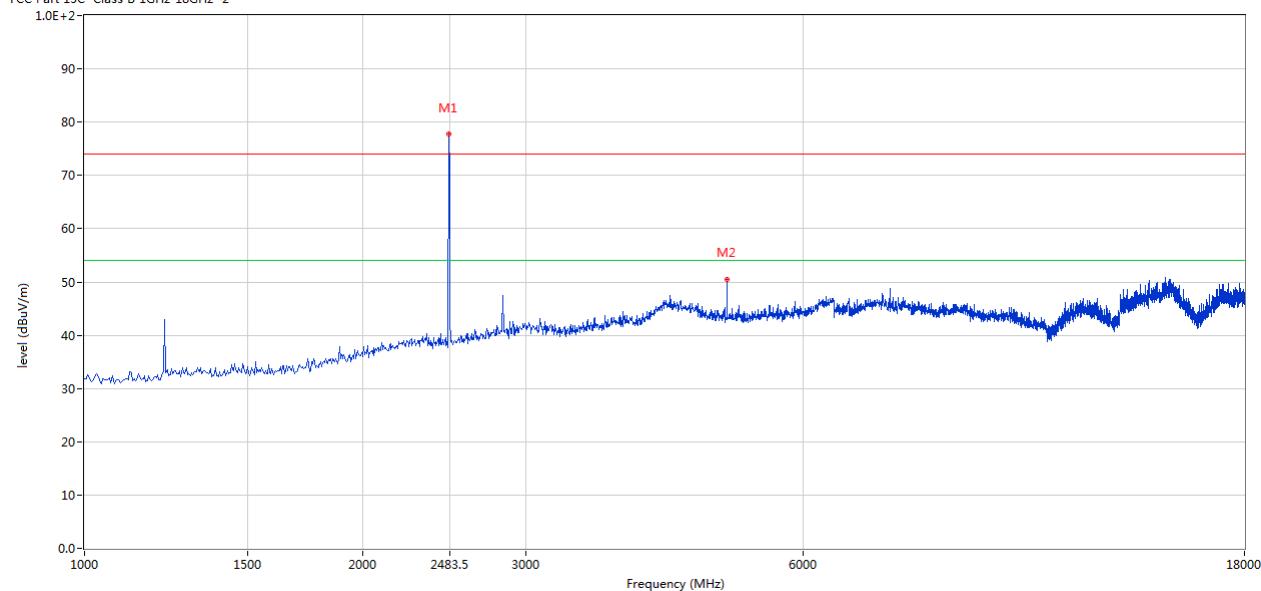
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Please refer to the following test plots for details: High Channel-2480MHz

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	77.84	-3.57	114.0	-36.16	Peak	260.00	100	Horizontal	Pass
2	4960.010	50.49	3.36	74.0	-23.51	Peak	192.00	100	Horizontal	Pass

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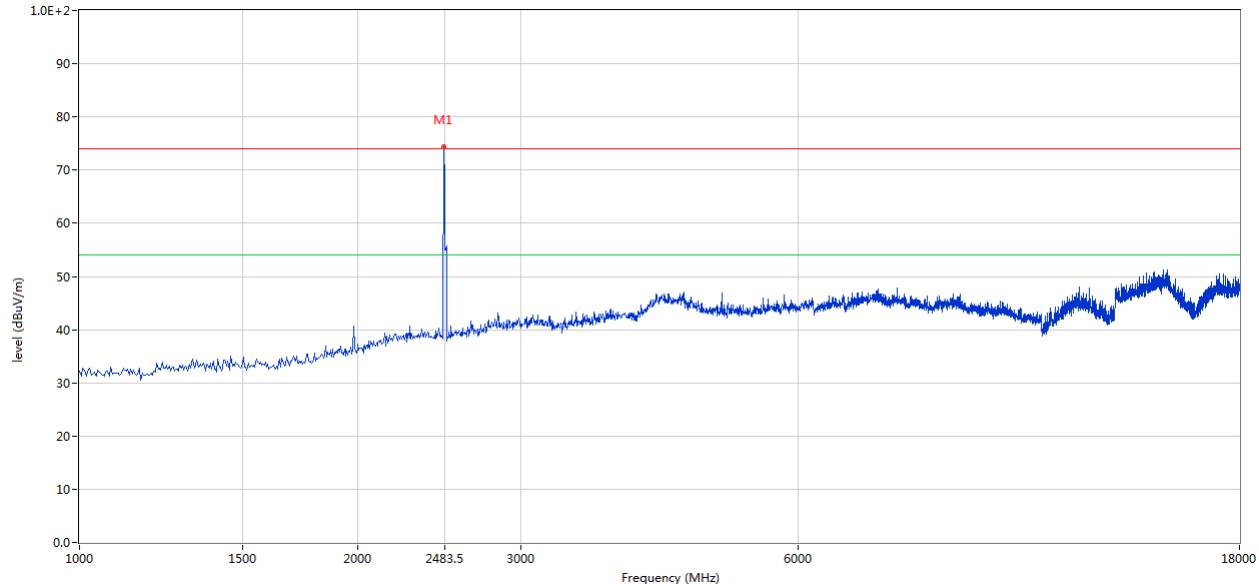
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Vertical

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	74.39	-3.57	114.0	-39.61	Peak	83.00	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

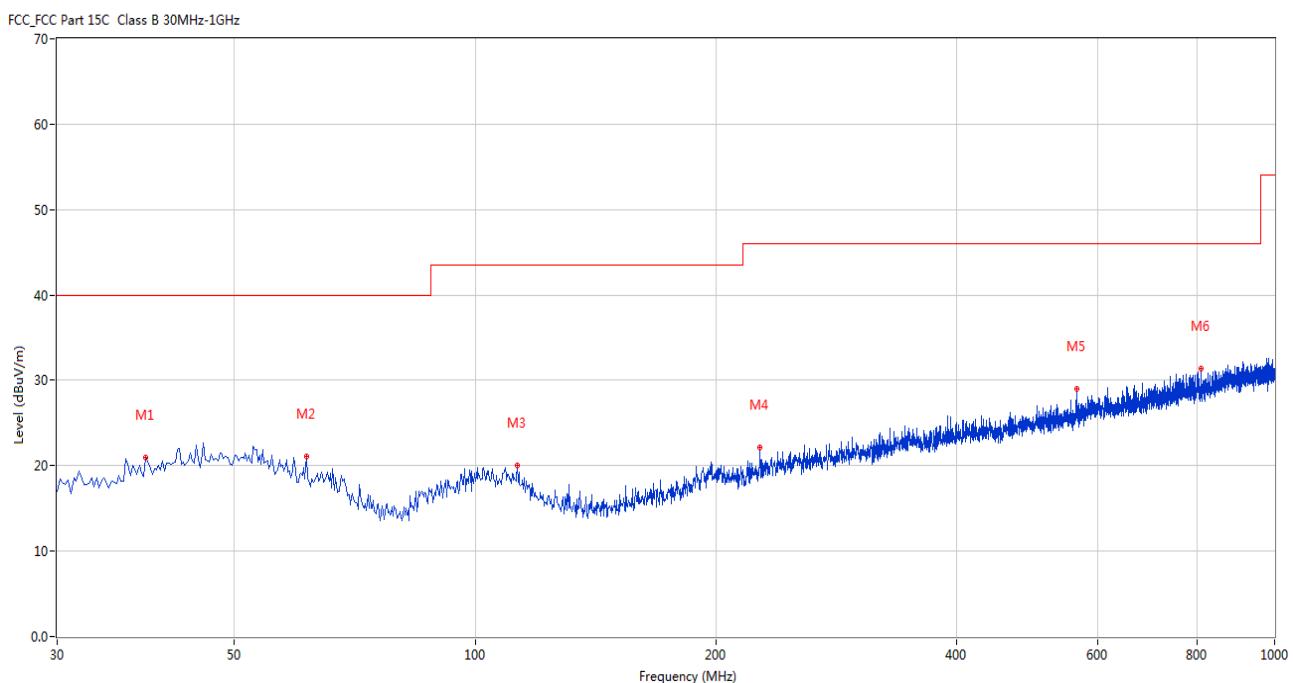
Left Part

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	38.728	20.94	-12.63	40.0	19.06	Peak	44.00	100	Horizontal	Pass
2	61.517	21.08	-13.18	40.0	18.92	Peak	72.00	100	Horizontal	Pass
3	112.914	20.08	-14.01	43.5	23.42	Peak	20.00	100	Horizontal	Pass
4	227.103	22.13	-12.80	46.0	23.87	Peak	54.00	100	Horizontal	Pass
5	565.791	29.06	-6.00	46.0	16.94	Peak	320.00	100	Horizontal	Pass
6	808.958	31.38	-3.00	46.0	14.62	Peak	189.00	100	Horizontal	Pass

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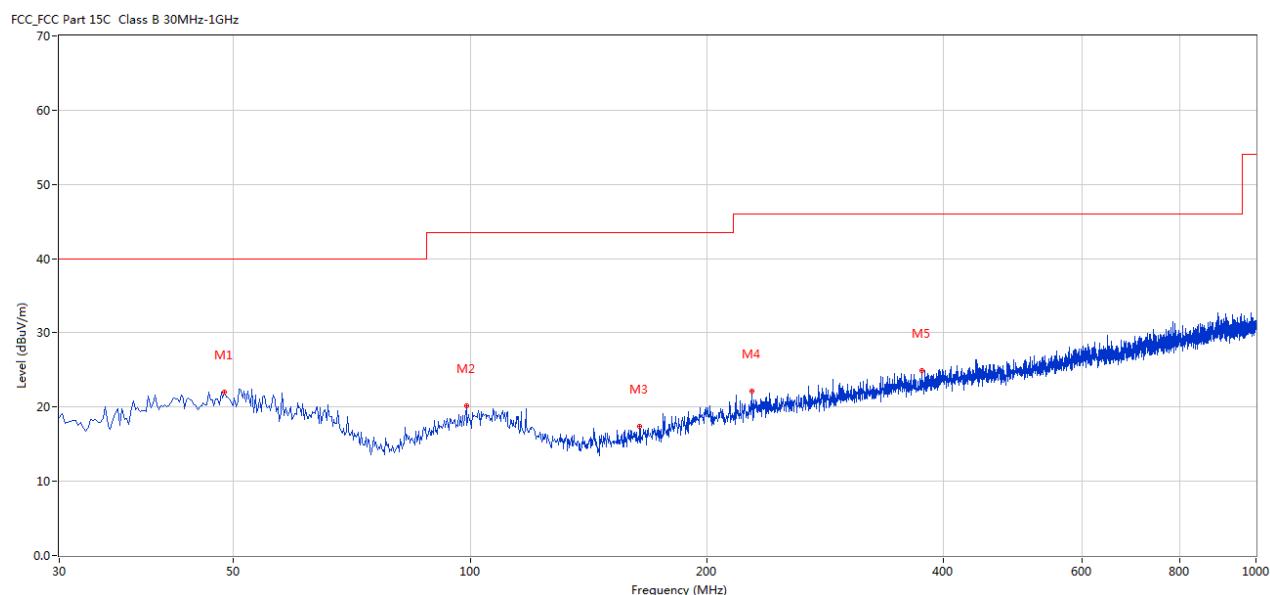


Radiated Emission In Vertical (30MHz----1000MHz)

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	48.668	22.03	-11.22	40.0	17.97	Peak	180.00	100	Vertical	Pass
2	98.853	20.21	-13.68	43.5	23.29	Peak	278.00	100	Vertical	Pass
3	164.311	17.38	-16.27	43.5	26.12	Peak	318.00	100	Vertical	Pass
4	228.315	22.17	-12.75	46.0	23.83	Peak	249.00	100	Vertical	Pass
5	375.961	24.94	-9.38	46.0	21.06	Peak	348.00	100	Vertical	Pass

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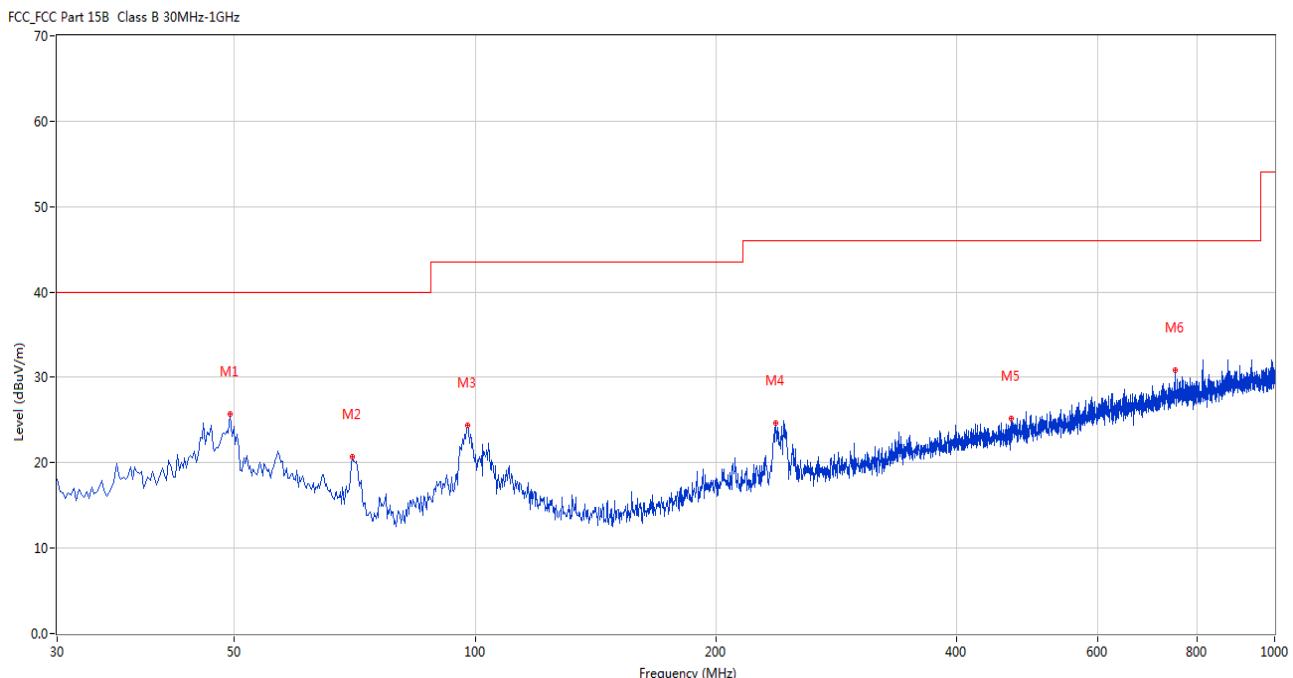
Right Part

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	49.395	25.66	-11.28	40.0	14.34	Peak	338.00	100	Horizontal	Pass
2	70.245	20.69	-15.77	40.0	19.31	Peak	247.00	100	Horizontal	Pass
3	97.883	24.41	-13.75	43.5	19.09	Peak	89.00	100	Horizontal	Pass
4	237.528	24.62	-12.41	46.0	21.38	Peak	302.00	100	Horizontal	Pass
5	468.330	25.12	-7.53	46.0	20.88	Peak	156.00	100	Horizontal	Pass
6	750.045	30.86	-3.43	46.0	15.14	Peak	170.00	100	Horizontal	Pass

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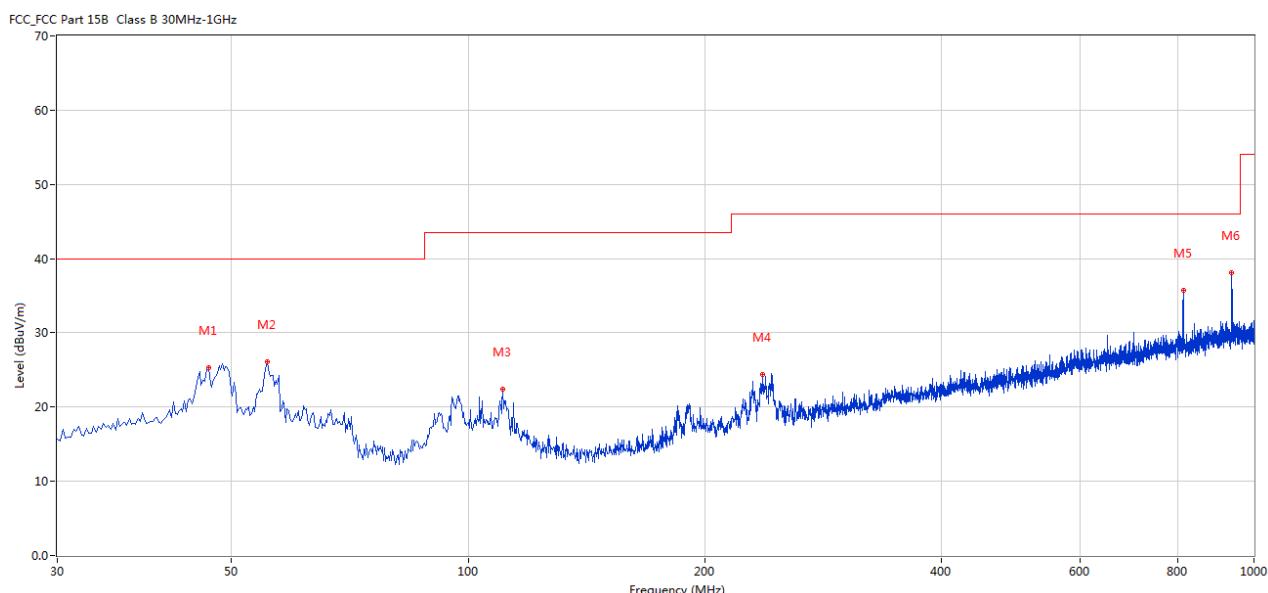


Radiated Emission In Vertical (30MHz----1000MHz)

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	46.728	25.29	-11.44	40.0	14.71	Peak	320.00	100	Vertical	Pass
2	55.456	26.05	-11.89	40.0	13.95	Peak	311.00	100	Vertical	Pass
3	110.732	22.42	-13.64	43.5	21.08	Peak	42.00	100	Vertical	Pass
4	237.286	24.38	-12.39	46.0	21.62	Peak	278.00	100	Vertical	Pass
5	812.594	35.69	-2.94	46.0	10.31	Peak	338.00	100	Vertical	Pass
6	937.451	38.07	-1.78	46.0	7.93	Peak	152.00	100	Vertical	Pass

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

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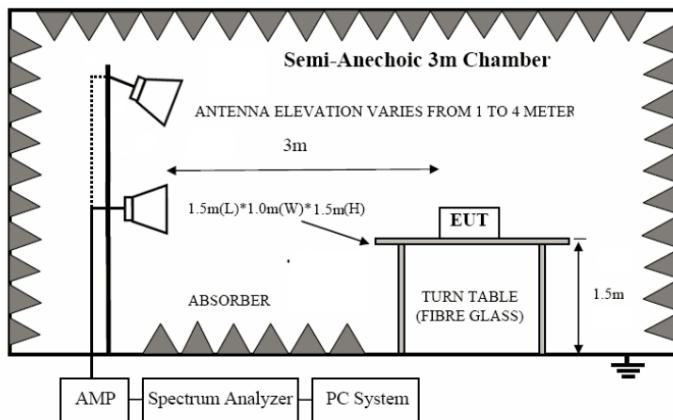


7. Band Edge

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:	Colour changing sunglasses	Polarity	Horizontal							
Mode	Keeping Transmitting	Test Voltage	DC3.85V							
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	2401.932	76.08	-3.57	74.0	2.08	Peak	91.00	100	Horizontal	N/A
2	2400.000	50.71	-3.57	74.0	-23.29	Peak	97.00	100	Horizontal	Pass
3	2390.000	37.09	-3.53	74.0	-36.91	Peak	120.00	100	Horizontal	Pass
4	2392.424	49.86	-3.54	74.0	-24.14	Peak	86.00	100	Horizontal	Pass
5	2394.464	50.45	-3.55	74.0	-23.55	Peak	102.00	100	Horizontal	Pass
6	2386.396	48.57	-3.52	74.0	-25.43	Peak	91.00	100	Horizontal	Pass

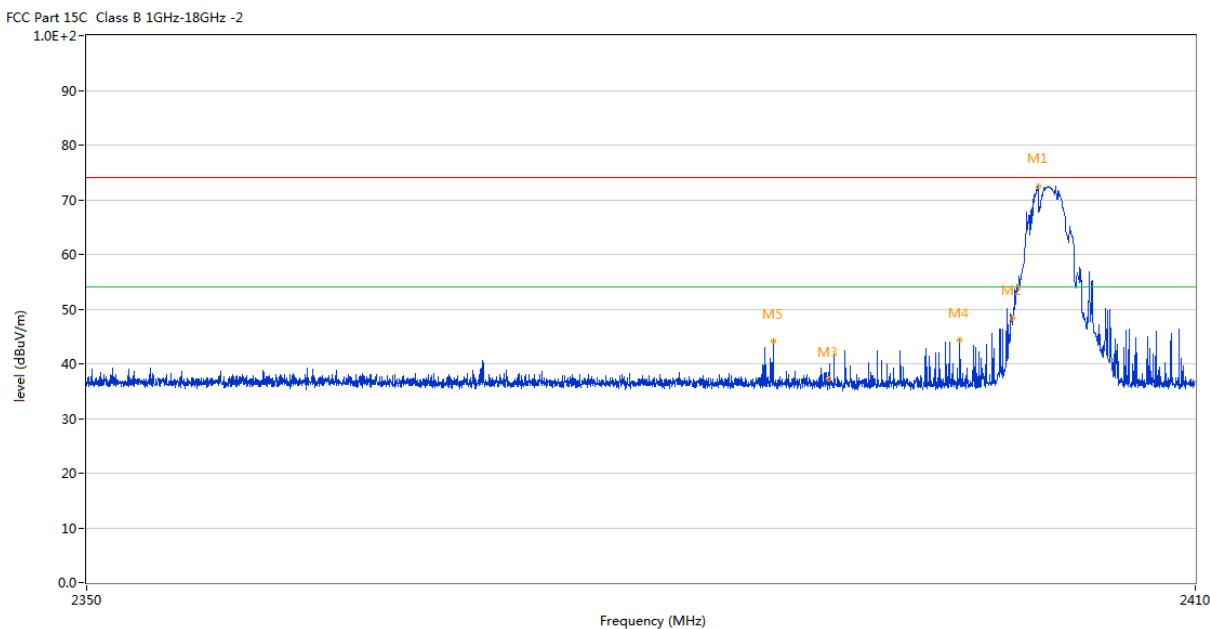
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Product:	Colour changing sunglasses	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.85V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2401.392	72.53	-3.57	74.0	-1.47	Peak	3.00	100	Vertical	Pass
2	2400.000	48.37	-3.57	74.0	-25.63	Peak	211.00	100	Vertical	Pass
3	2390.000	37.17	-3.53	74.0	-36.83	Peak	195.33	100	Vertical	Pass
4	2397.133	44.33	-3.56	74.0	-29.67	Peak	69.00	100	Vertical	Pass
5	2386.966	44.18	-3.52	74.0	-29.82	Peak	333.00	100	Vertical	Pass

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Product:	Colour changing sunglasses		Polarity	Horizontal						
Mode	Keeping Transmitting		Test Voltage	DC3.85V						
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	2480.205	76.47	-3.57	74.0	2.47	Peak	204.00	100	Horizontal	N/A
2	2483.500	49.52	-3.57	74.0	-24.48	Peak	114.29	100	Horizontal	Pass

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Product:	Colour changing sunglasses	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.85V
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	2480.160	72.01	-3.57	74.0	-1.99	Peak	360.00	100	Vertical	N/A
2	2483.500	41.90	-3.57	74.0	-32.10	Peak	191.00	100	Vertical	Pass

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

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Right Part

Product:	Colour changing sunglasses	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.85V
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	2402.292	77.40	-3.57	74.0	9.40	Peak	203.00	100	Horizontal	N/A
2	2400.087	48.04	-3.57	74.0	-25.96	Peak	248.00	100	Horizontal	Pass
3	2390.025	35.74	-3.53	74.0	-38.26	Peak	325.00	100	Horizontal	Pass
4	2390.280	49.33	-3.53	74.0	-24.67	Peak	244.00	100	Horizontal	Pass
5	2395.289	51.40	-3.55	74.0	-22.60	Peak	218.00	100	Horizontal	Pass

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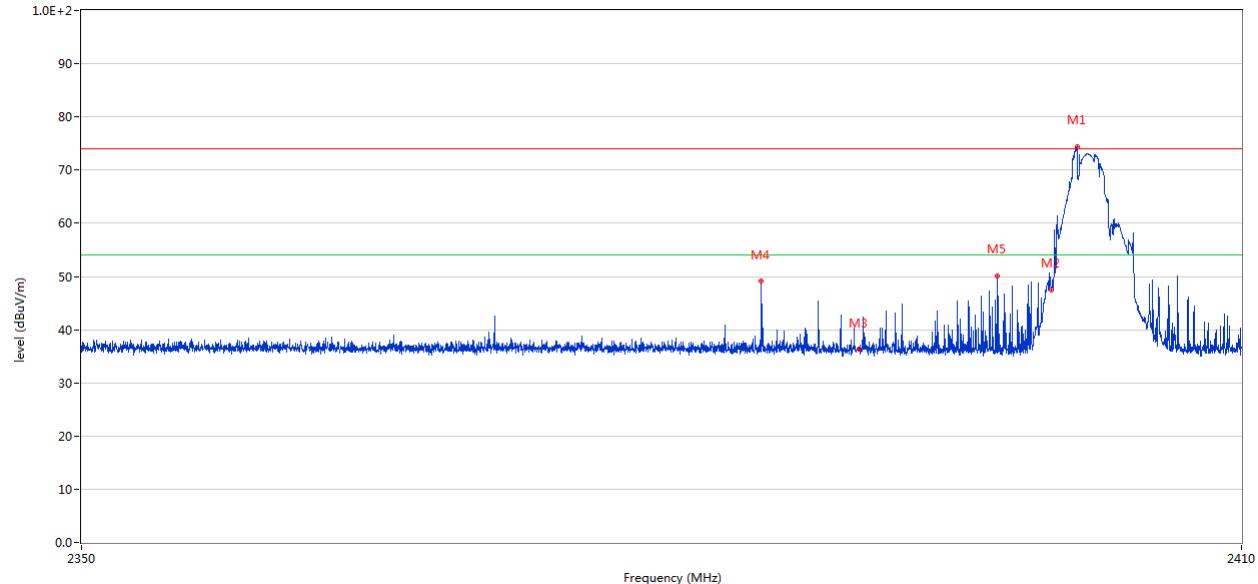
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Product:	Colour changing sunglasses	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.85V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--

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	2401.407	74.34	-3.57	74.0	0.34	Peak	86.00	100	Vertical	N/A
2	2400.042	48.36	-3.57	74.0	-25.64	Peak	12.00	100	Vertical	Pass
3	2390.055	36.28	-3.53	74.0	-37.72	Peak	12.00	100	Vertical	Pass
4	2384.986	49.11	-3.51	74.0	-24.89	Peak	359.00	100	Vertical	Pass
5	2397.268	50.10	-3.56	74.0	-23.90	Peak	91.00	100	Vertical	Pass

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

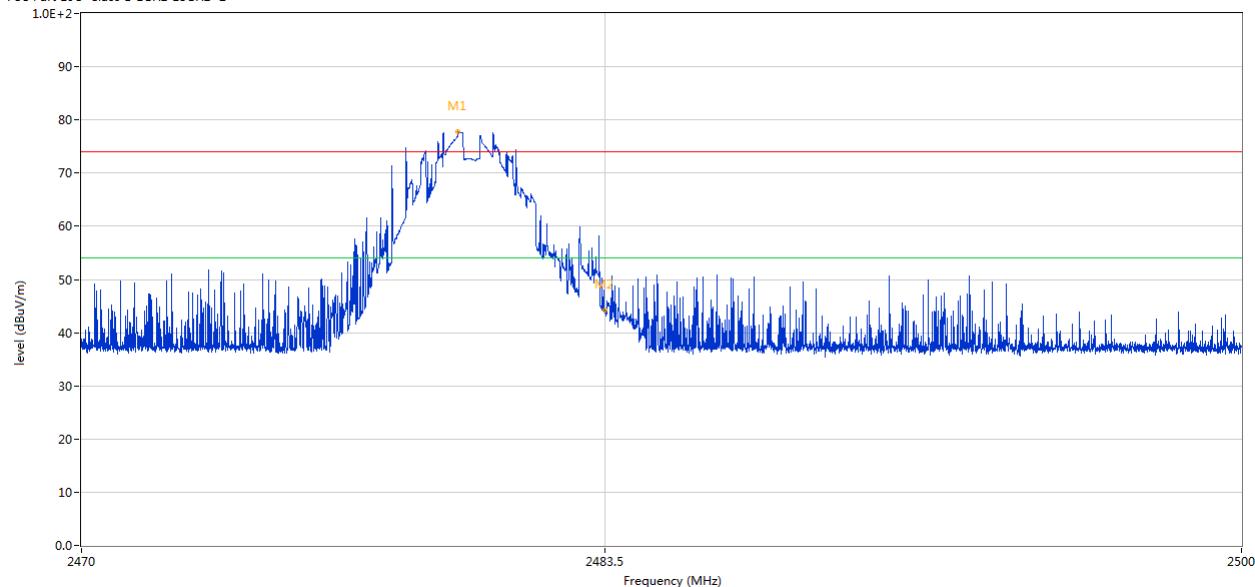
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Product:	Colour changing sunglasses	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.85V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--

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	2479.703	77.71	-3.57	74.0	3.71	Peak	305.00	100	Horizontal	N/A
2	2483.500	44.18	-3.57	74.0	-29.82	Peak	246.00	100	Horizontal	Pass

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Product:	Colour changing sunglasses	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.85V
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	2479.958	74.14	-3.57	74.0	0.14	Peak	316.00	100	Vertical	N/A
2	2483.500	40.04	-3.57	74.0	-33.96	Peak	233.43	100	Vertical	Pass

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

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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 uses PCB antenna. The antenna gain is -0.58dBi Max for both right and Left Parts. It fulfills the requirement of this section.

Test Result: Pass

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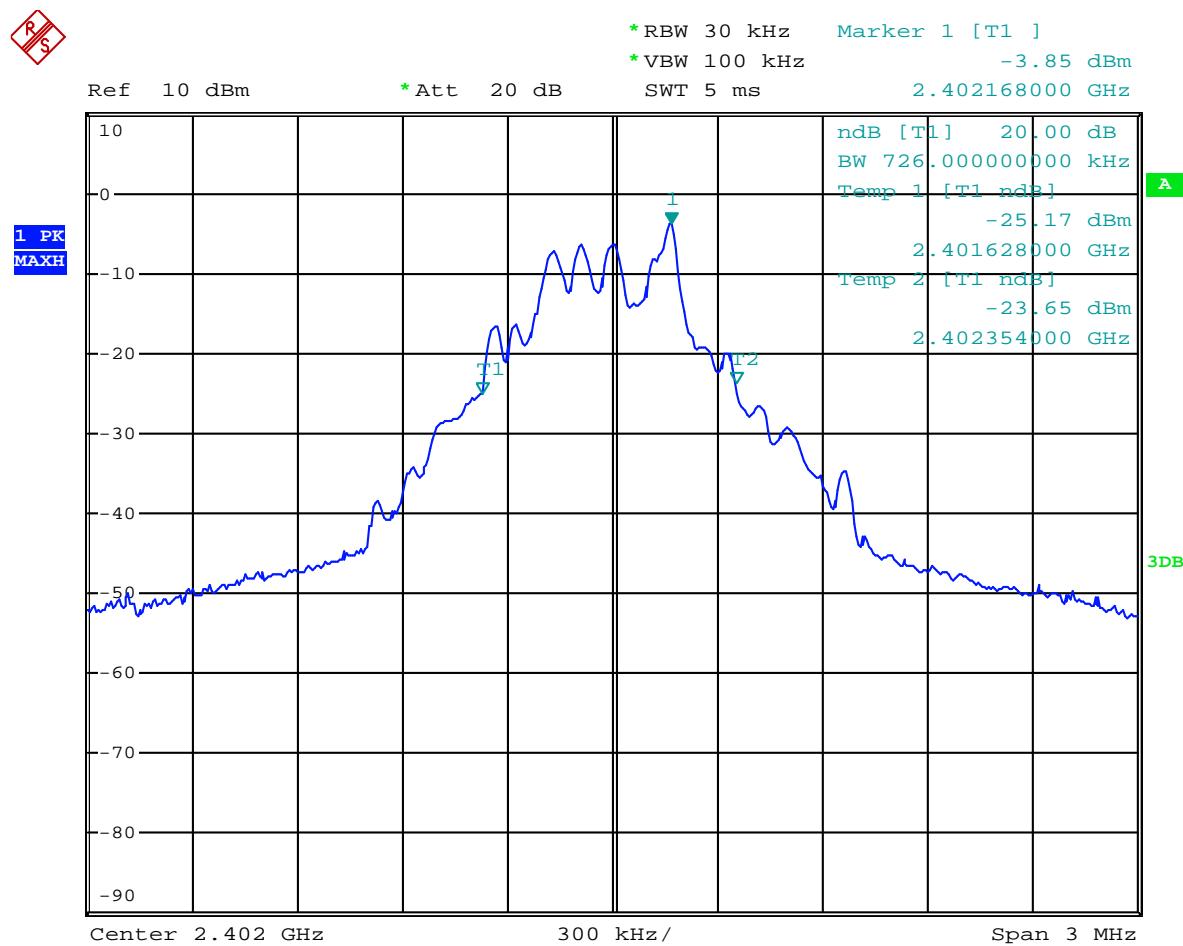
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9.0 20dB Bandwidth Measurement

Left Part

Product:	Colour changing sunglasses	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.85V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	726.00kHz	--	--



Date: 9.NOV.2023 09:47:40

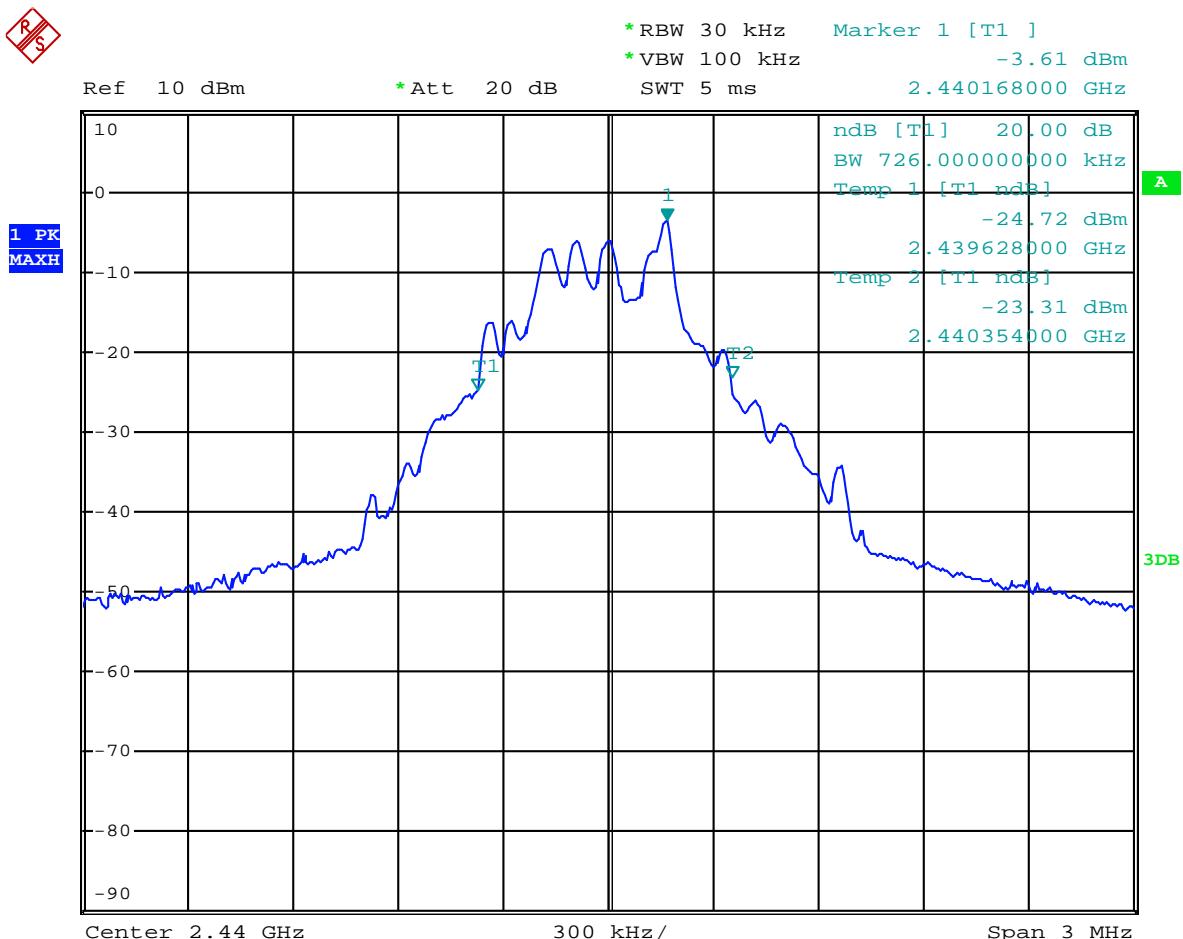
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Product:	Colour changing sunglasses	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.85V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	726.00kHz	--	--



Date: 9.NOV.2023 09:47:11

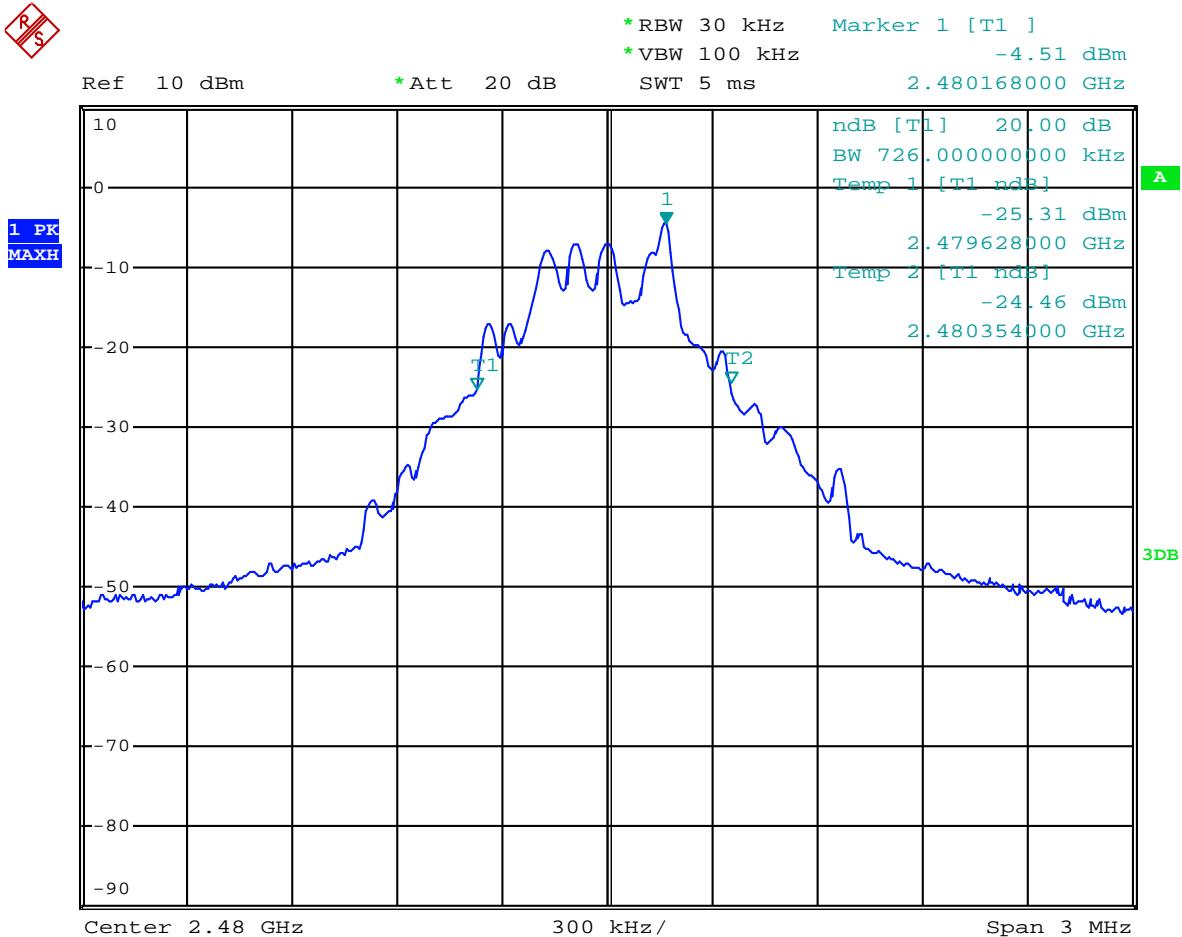
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Product:	Colour changing sunglasses	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.85V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	726.00kHz	--	--



Date: 9.NOV.2023 09:45:55

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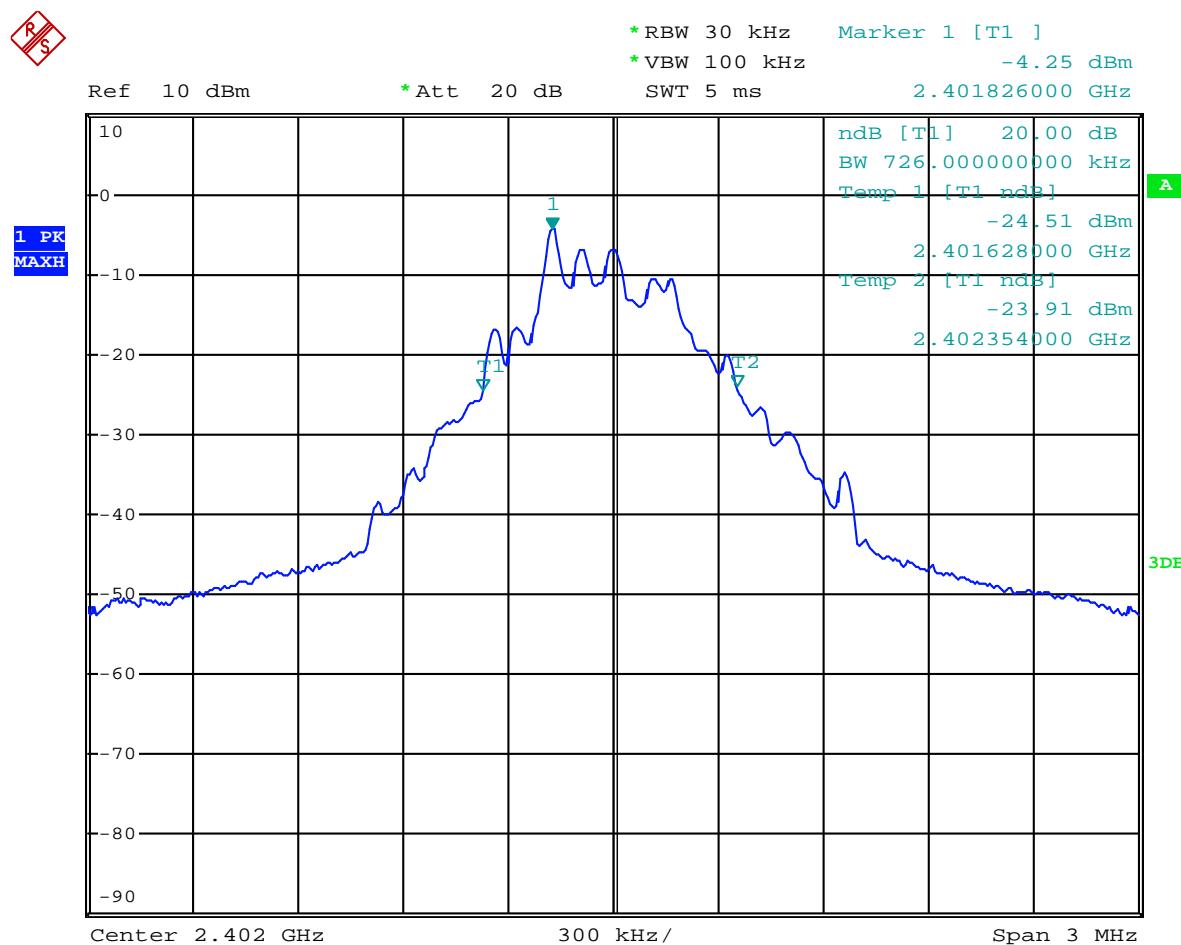
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Right Part

Product:	Colour changing sunglasses	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.85V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	726.00kHz	--	--



Date: 16.NOV.2023 09:48:07

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

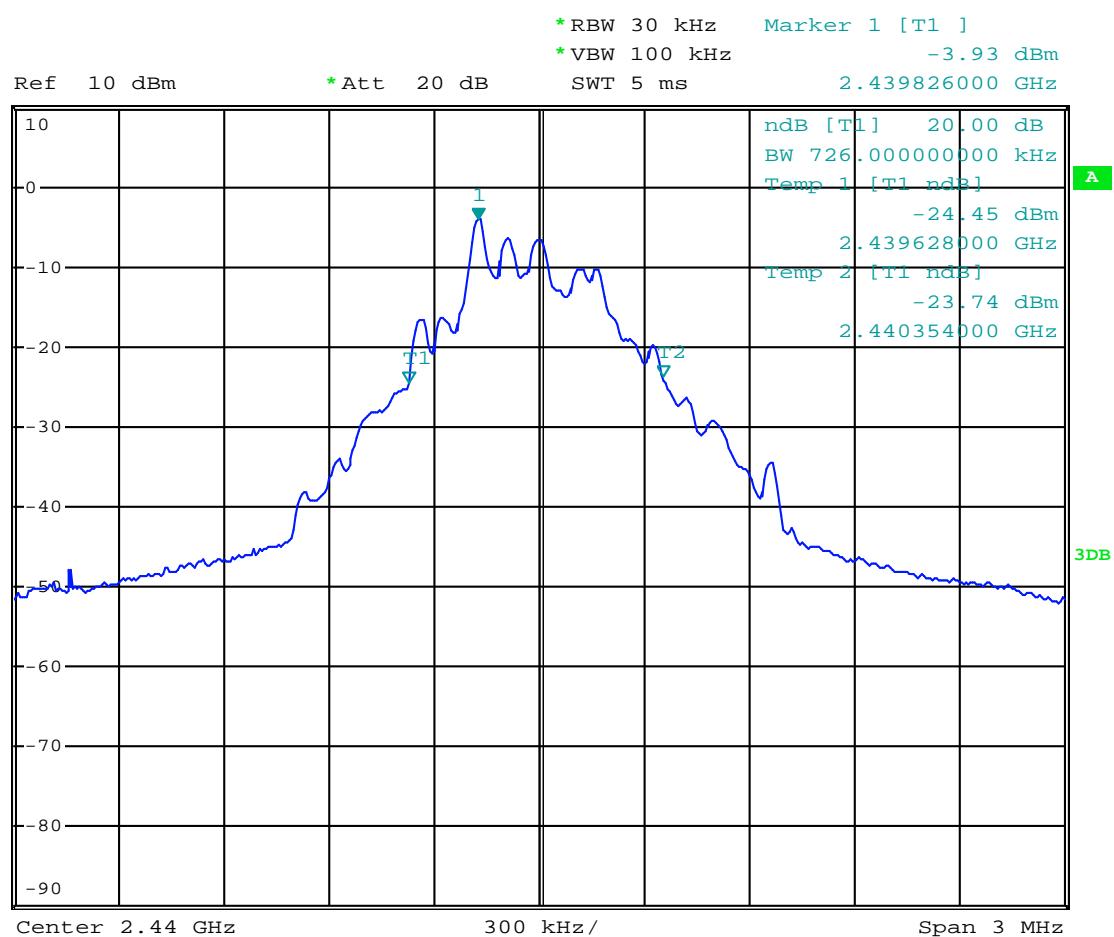
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Product:	Colour changing sunglasses	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.85V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	726.00kHz	--	--

RS



Date: 16.NOV.2023 09:46:18

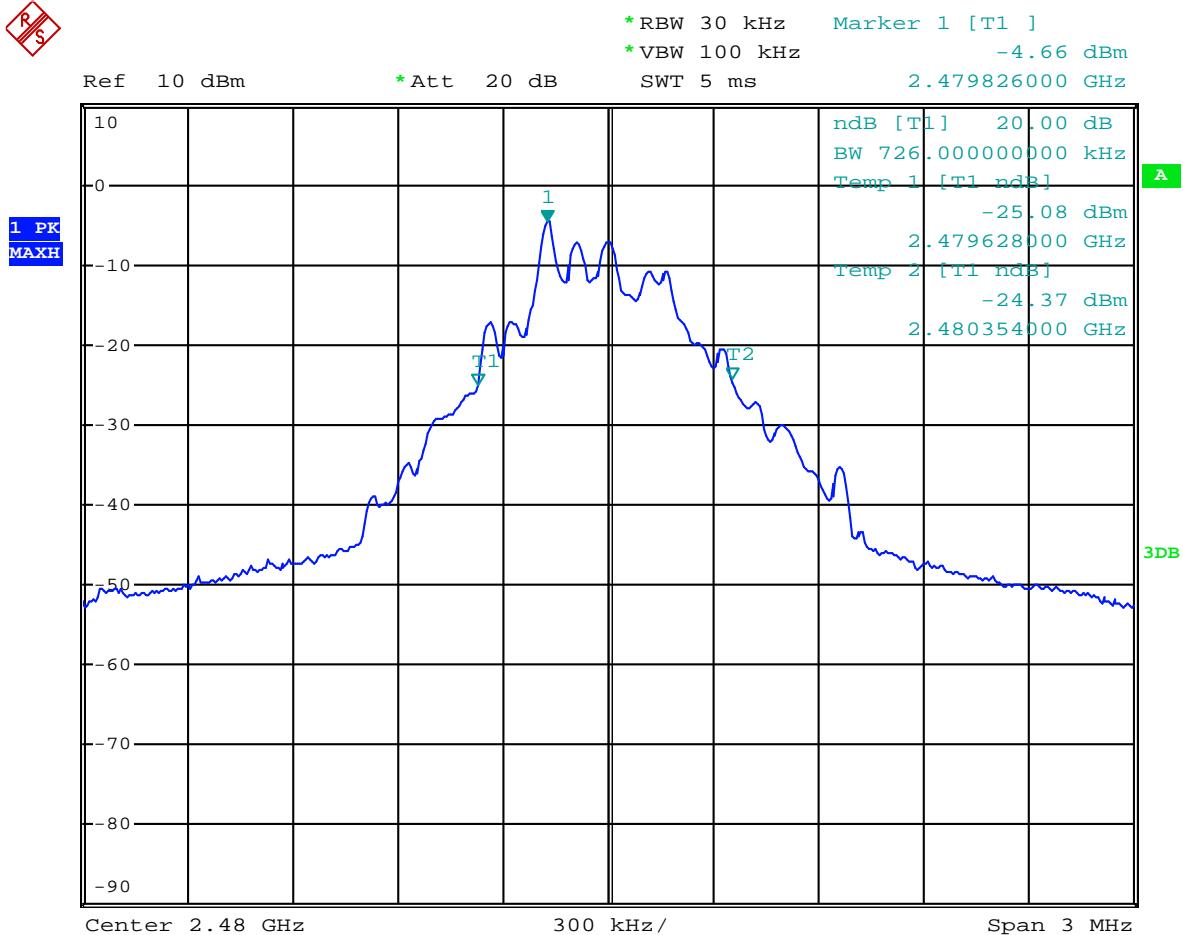
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Product:	Colour changing sunglasses	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.85V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	726.00kHz	--	--



Date: 16.NOV.2023 09:37:35

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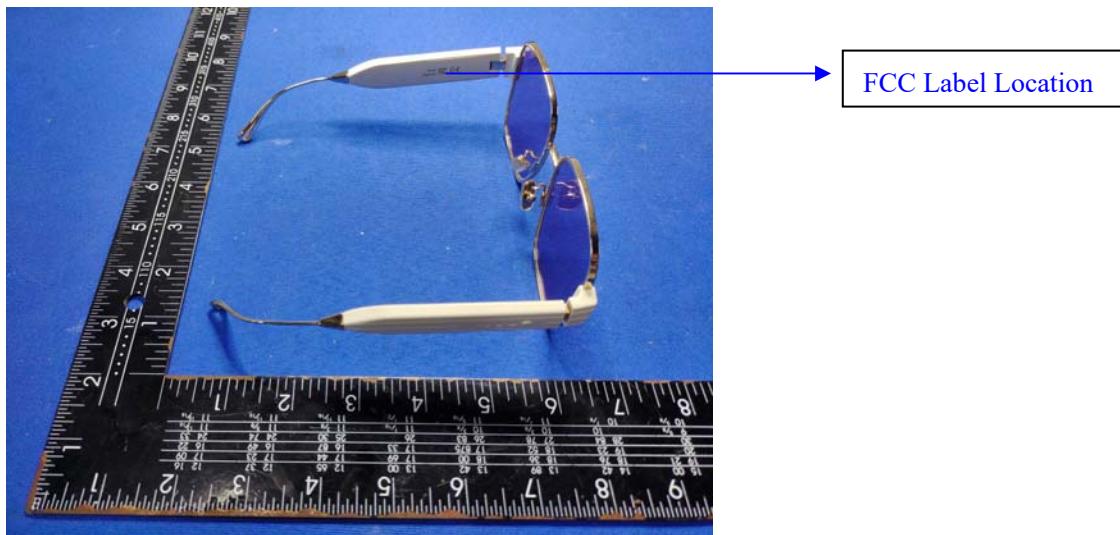


10.0 FCC ID Label

FCC ID: 2A43V-CHAMELO

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

Mark Location:



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11.0 Photo of testing

11.1 Conducted test View



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Radiated emission test view



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11.2 Photographs – EUT

Outside View



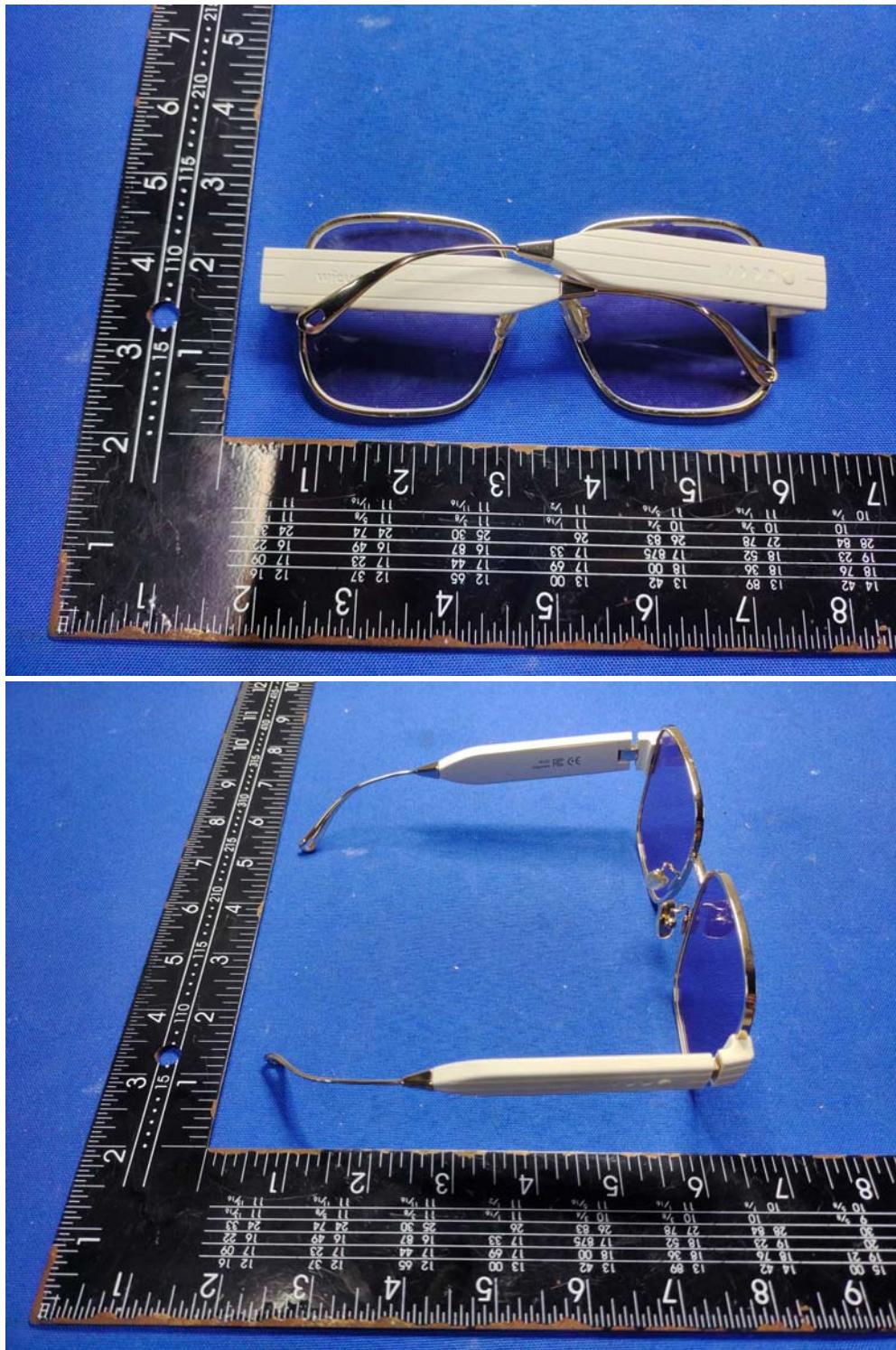
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Outside View



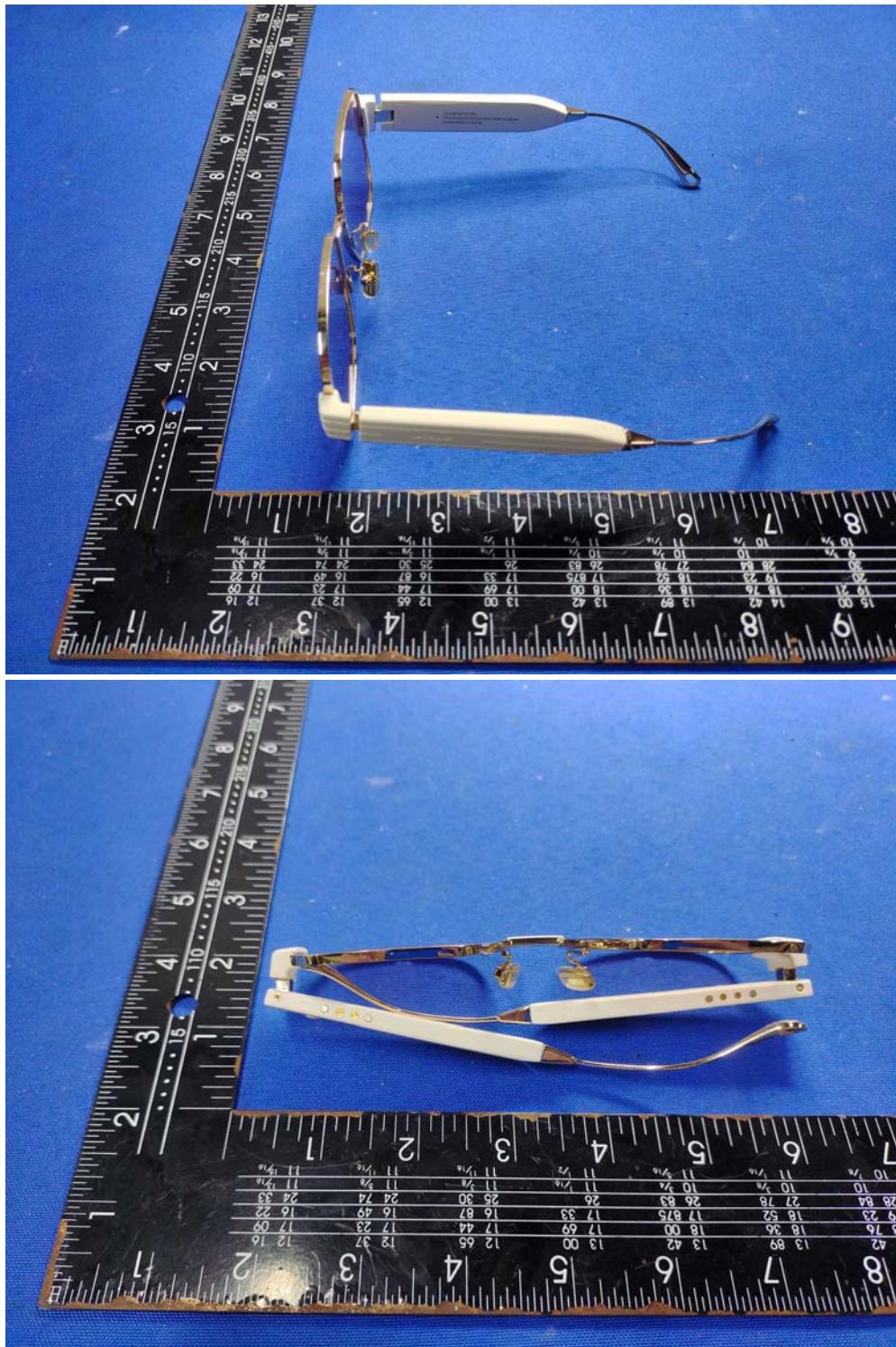
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Outside View



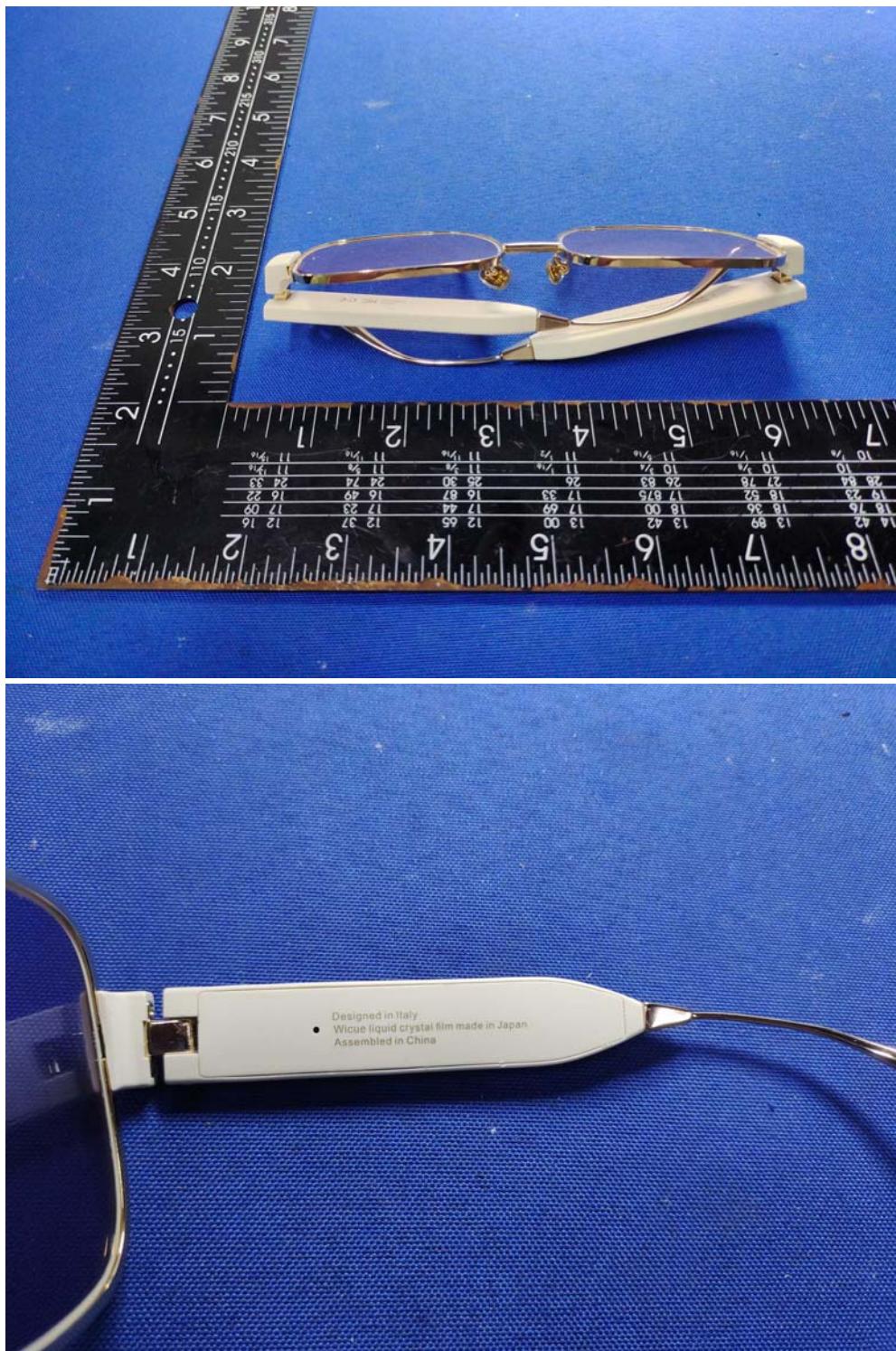
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Outside View



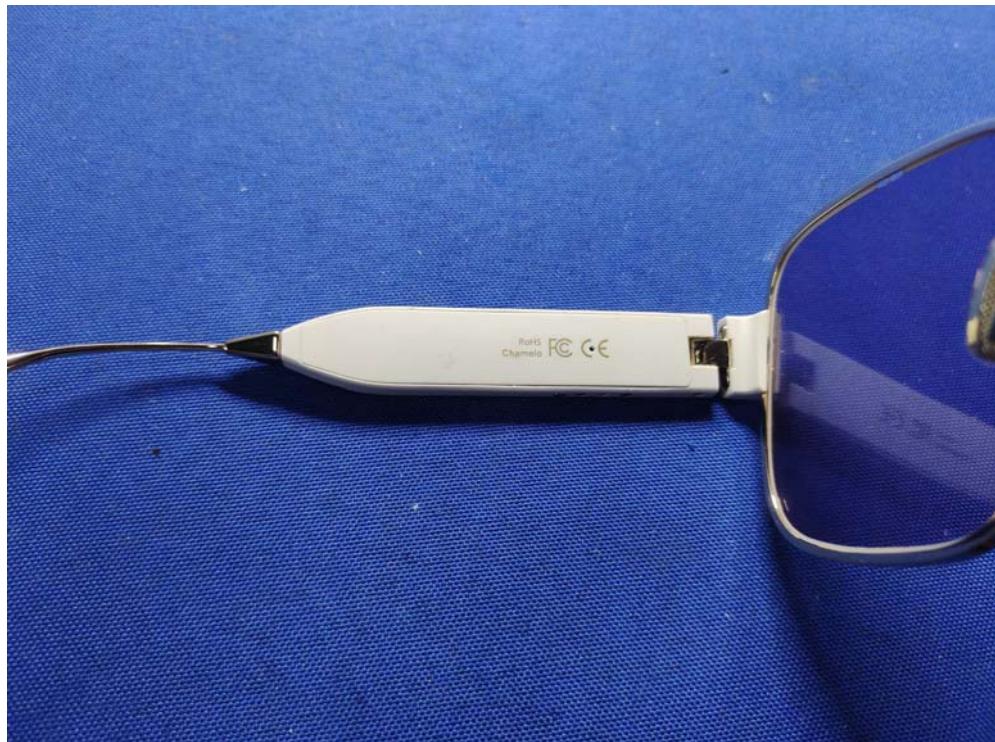
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Inside View



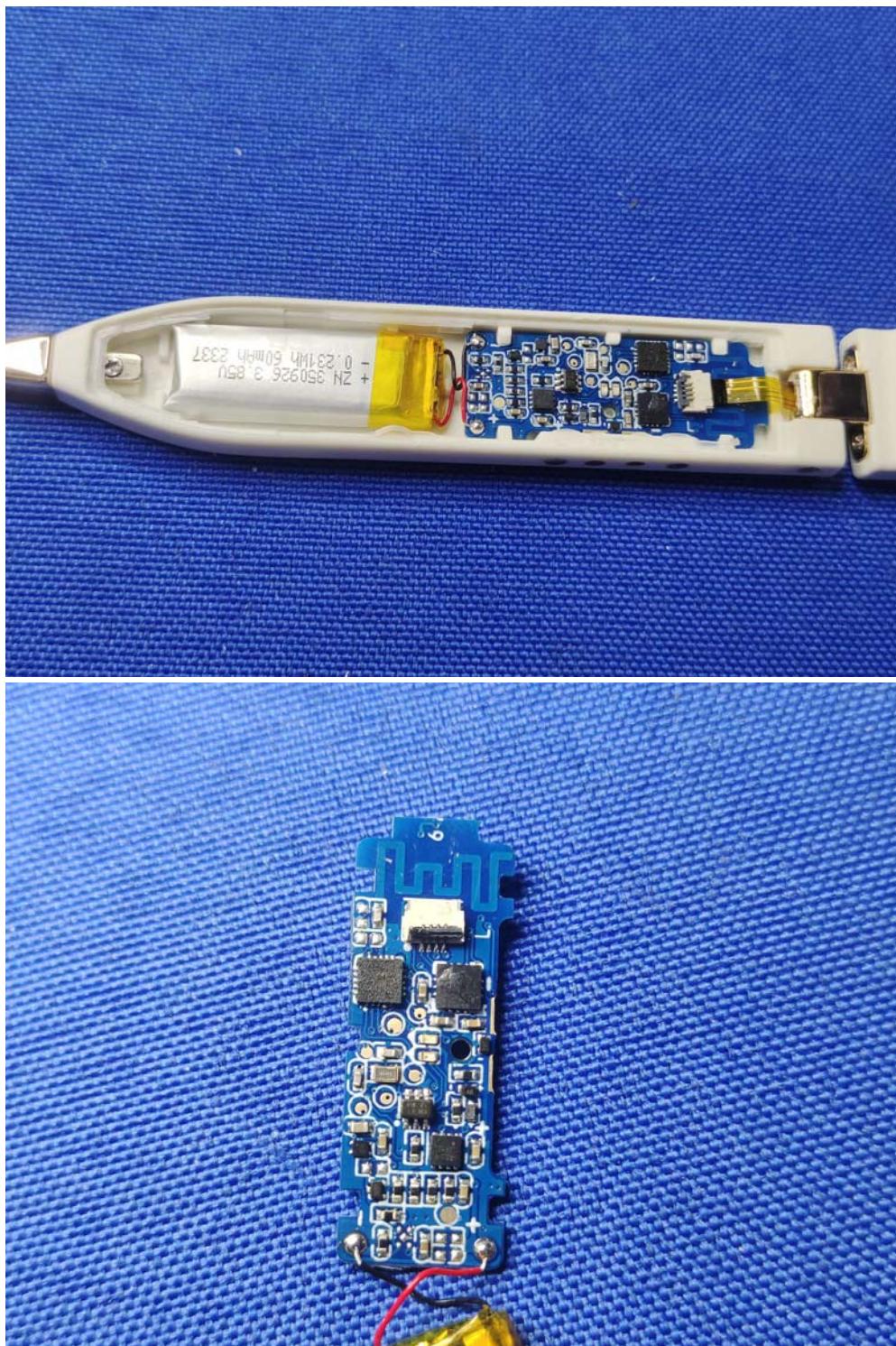
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Inside View - Left Part



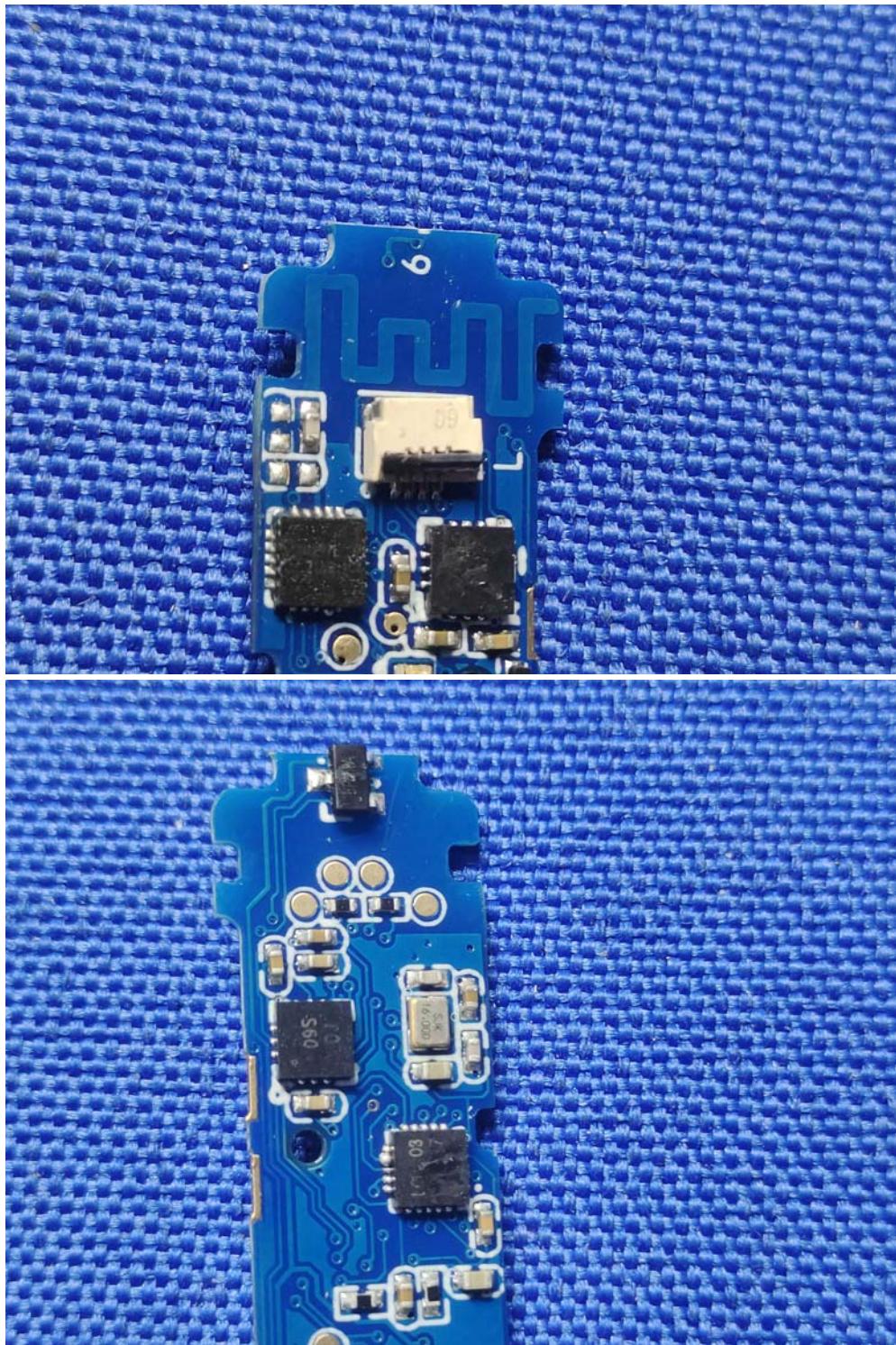
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Inside View - Left Part



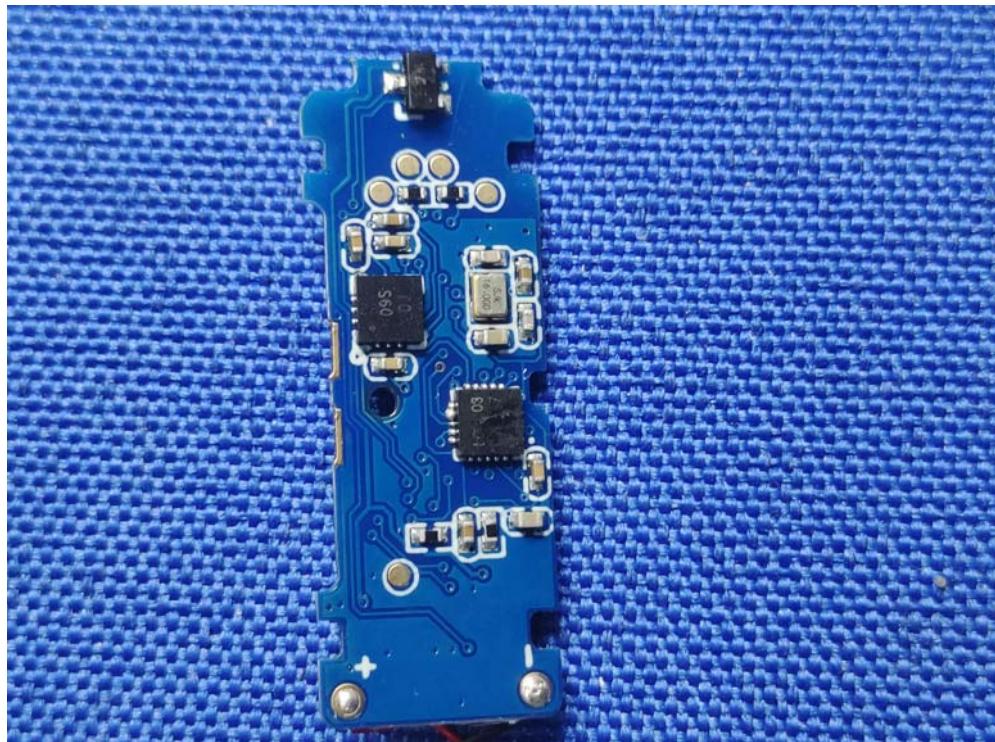
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Inside View - Left Part



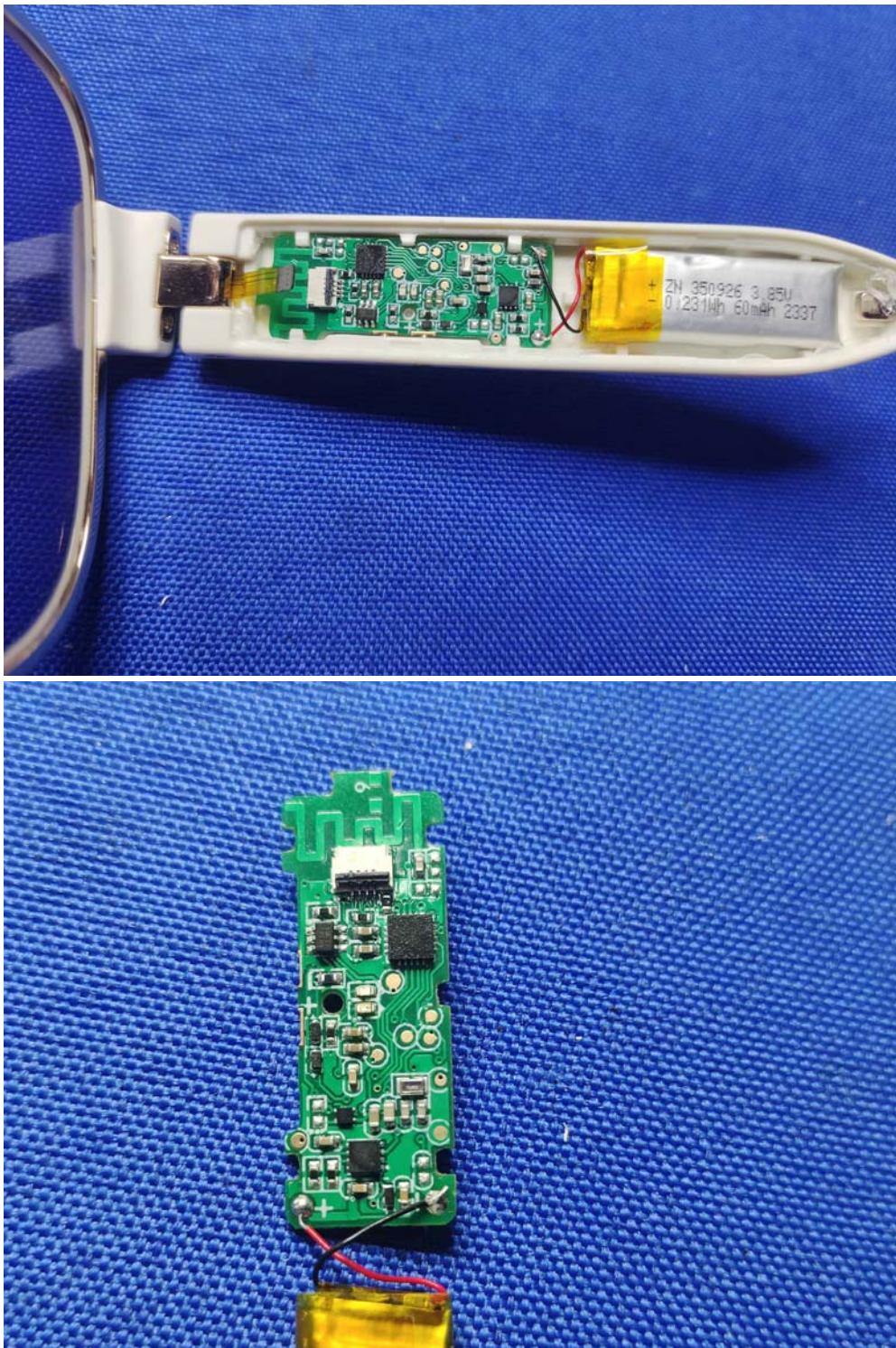
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Inside View - Right Part



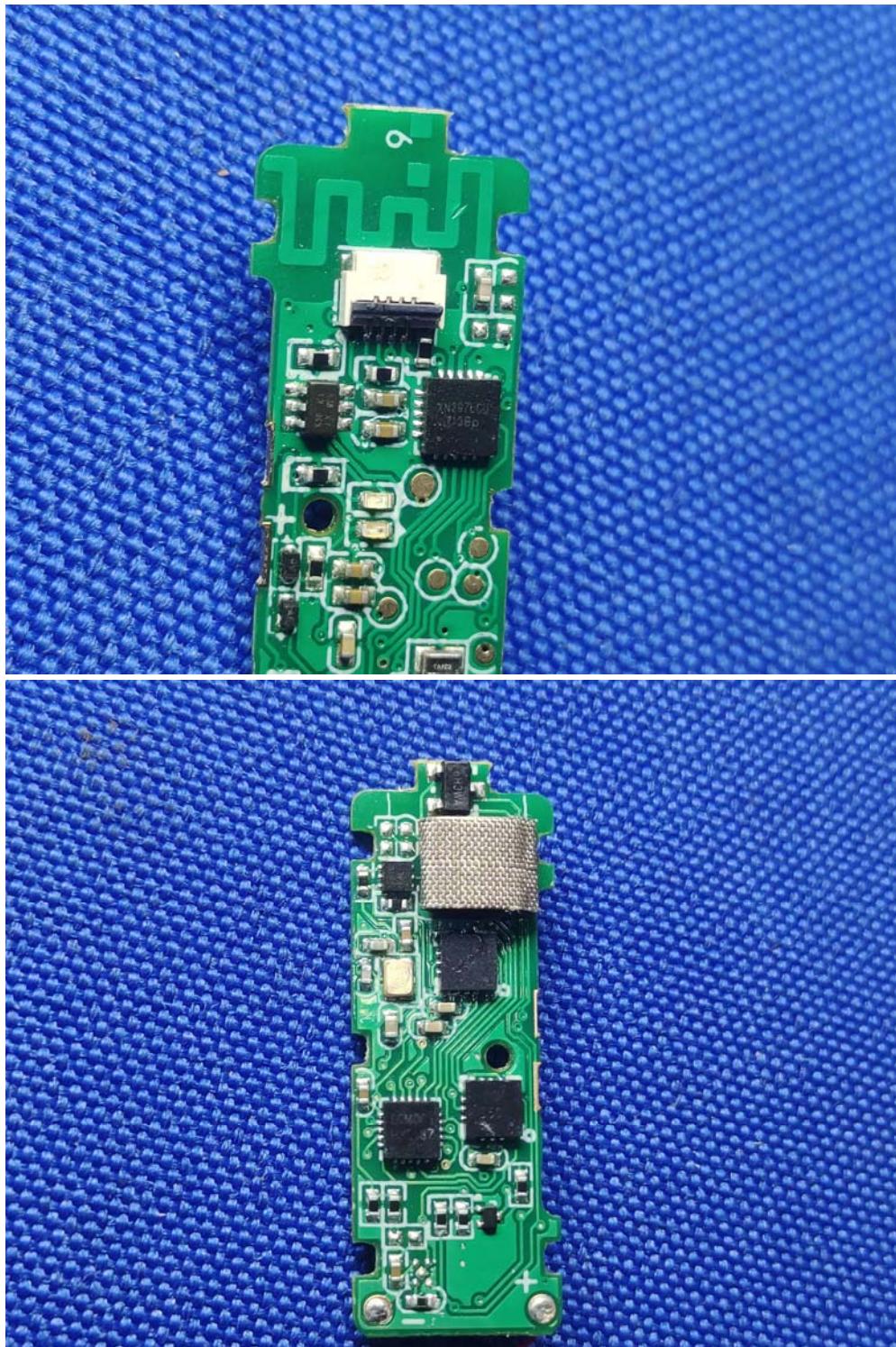
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Inside View - Right Part



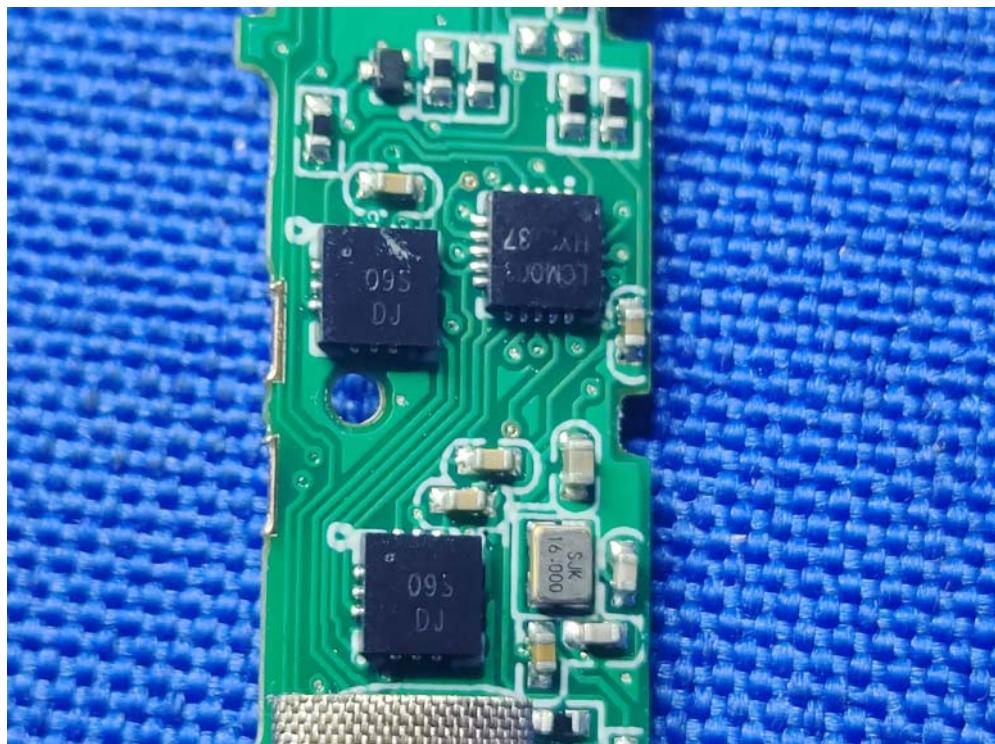
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Inside View - Right Part



--End of the report--

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