

TEST REPORT

Report No.	CISRR24040804701
Project No.	CISR240408047
FCC ID	2BFQ8-YIIOT-T23
Applicant	Shenzhen Huayang An Technology Co., LTD
Address	Factory 601, No.181 Zhangbei Road, Longcheng Street, Longgang District, Shenzhen, China
Manufacturer	Shenzhen Huayang An Technology Co., LTD
Address	Factory 601, No.181 Zhangbei Road, Longcheng Street, Longgang District, Shenzhen, China
Product Name	camera
Trade Mark	
Model/Type reference	YIIOT-T23
Listed Model(s)	YIIOT-T02, YIIOTT-03, YIIOT-T04, YIIOT-T05, YIIOT-T06, YIIOT-T07, YIIOT- T08, YIIOT-T09, YIIOT-T10, YIIOT-T11, YIIOT-T12, YIIOT-T13, YIIOT-T14, YIIOT-T15, YIIOT-T16, YIIOT-T17, YIIOT-T18, YIIOT-T19, YIIOT-T20, YIIOT- T21, YIIOT-T22, YIIOT-T24, YIIOT-T25, YIIOT-T26-8, YIIOT-T26-36, YIIOT- T27, YIIOT-T28, YIIOT-T29, YIIOT-T30, YIIOT-T27-A
Standard	Part 15 Subpart C Section 15.247
Test date	April 08, 2024 ~ April 17, 2024
Issue date	April 17, 2024
Test result	Complied

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GenryLong

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Approved by: Genry Long

The test results relate only to the tested samples.

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1. <u>REPORT VERSION</u>

Version No.	Issue date	Description
00	April 17, 2024	Original



2. SUMMARY OF TEST RESULT

Report clause	Test Item	Standard Requirement	Result
5.1	Antenna Requirement	15.203/15.247 (c)	PASS
5.2	AC Conducted Emission	15.207	PASS
5.3	Peak Output Power	15.247 (b)(1)	PASS
5.4	6 dB Bandwidth	15.247 (a)(2)	PASS
5.5	99% Occupied Bandwidth	-	PASS ^{*1}
5.6	Power spectral density	15.247 (e)	PASS
5.7	Conducted Band Edge and Spurious Emission	15.247(d)/15.205	PASS
5.8	Radiated Band Edge Emission	15.205/15.209	PASS
5.9	Radiated Spurious Emission	15.247(d)/15.205/15.209	PASS

Note:

- The measurement uncertainty is not included in the test result.

- *1: No requirement on standard, only report these test data.



3. <u>SUMMARY</u>

3.1. Product Description

Main unit information:	
Product Name:	camera
Trade Mark:	
Model No.:	YIIOT-T23
Listed Model(s):	YIIOT-T02, YIIOTT-03, YIIOT-T04, YIIOT-T05, YIIOT-T06, YIIOT-T07, YIIOT-T08, YIIOT-T09, YIIOT-T10, YIIOT-T11, YIIOT-T12, YIIOT-T13, YIIOT-T14, YIIOT-T15, YIIOT-T16, YIIOT-T17, YIIOT-T18, YIIOT-T19, YIIOT-T20, YIIOT-T21, YIIOT-T22, YIIOT-T24, YIIOT-T25, YIIOT-T26-8, YIIOT-T26-36,YIIOT-T27, YIIOT-T28, YIIOT-T29, YIIOT-T30, YIIOT-T27-A
Power supply:	Input: AC 120V
Hardware version:V1.0Software version:V1.0	

3.2. Radio Specification Description

Technology:	802.11b/802.11g/802.11n(HT20), 802.11n(HT40)	
Modulation:	802.11b: DSSS 802.11g/802.11n(HT20/HT40): OFDM	
Operation frequency:	802.11b/802.11g/802.11n: 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz	
Channel number:	802.11b/802.11g/802.11n(HT20): 11 802.11n(HT40): 9	
Channel separation:	5MHz	
Antenna type:	FPC Antenna	
Antenna gain:	3.88 dBi for 2.4GWIFI	



3.3. Modification of EUT

No modifications are made to the EUT during all test items.

3.4. Testing Site

Laboratory Name Shenzhen Bangce Testing Technology Co., Ltd.		Shenzhen Bangce Testing Technology Co., Ltd.
	Laboratory Location	101, building 10, Yunli Intelligent Park, Shutianpu community, Matian Street, Guangming District, Shenzhen, Guangdong, China
	FCC registration number	736346

3.5. Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS (dBuV/m) = RA (dBuV) + AF (dB/m) + CL (dB) - AG (dB)

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)	
RA = Reading Amplitude	AG = Amplifier Gain	
AF = Antenna Factor		

3.6. DISTURBANCE Calculation

The AC mains conducted disturbance is calculated by adding the 10dB Pulse Limiter and Cable Factor and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

CD (dBuV) = RA (dBuV) + PL (dB) + CL (dB)

Where CD = Conducted Disturbance	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	PL = 10 dB Pulse Limiter Factor

4. TEST CONFIGURATION

4.1. Test frequency list

Channel	Frequency (MHz)	
	802.11b/g/n(H20)	802.11n(H40)
CH-L	2412	2422
CH-M	2437	2437
СН-Н	2462	2452

4.2. Test mode

For RF test items:			
The engineering test program(sscom5.1.3) was provided and enabled to make EUT continuous transmitting.			
Test Item Modulation			
Conducted test item DSSS			
Radiated test item DSSS			
Remark:			

- For radiated test item, the worst mode 802.11B was reported only, because this data rate has the highest RF output power at preliminary tests.
- The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

4.3. Support unit used in test configuration and system

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

Item	Equipment name	Trade Name	Model No.
1			

4.4. Test sample information

Туре	sample no.
Engineer sample	CISR240408047-1#
Normal sample	CISR240408047-2#



4.5. Testing environmental condition

Туре	Requirement	Actual
Temperature:	15~35°C	25°C
Relative Humidity:	25~75%	50%
Air Pressure:	860~1060mbar	1000mbar

4.6. Statement of the measurement uncertainty

No.	Test Items	Measurement Uncertainty
1	AC Conducted Emission	1.63dB
2	Peak Output Power	1.34dB
3	Power Spectral Density	1.34dB
4	6dB Bandwidth	0.002%
5	99% Occupied Bandwidth	0.002%
6	Conducted Band Edge and Spurious Emission	1.93dB
7	Radiated Band Edge Emission	3.76dB for 30MHz-1GHz
		3.80dB for above 1GHz
8	Padiated Spurious Emission	3.76dB for 30MHz-1GHz
	Radiated Spurious Emission	3.80dB for above 1GHz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.



4.7. Equipment Used during the Test

Equipment	Manufacture	Model No.	Serial No.	Last cal.	Cal Interval
9*6*6 anechoic chamber	SKET	9.3*6.3*6	N/A	2021.10.15	3Year
Spectrum analyzer	Agilent	N9020A	MY50530263	2024.01.08	1Year
Receiver	ROHDE&SCHWARZ	ESCI	100853	2024.01.08	1Year
Spectrum analyzer	R&S	FSV-40N	/	2024.01.08	1Year
Bilog Antenna	Schwarzbeck	VULB 9163	1463	2023.01.09	2Year
Horn Antenna	SCHWARZBECK	BBHA 9120 D	2487	2023.01.09	2Year
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	/	2023.01.09	2Year
RF Cable	Tonscend	Cable 1	/	2024.01.08	1Year
RF Cable	Tonscend	Cable 2	/	2024.01.08	1Year
RF Cable	SKET	Cable 3	/	2024.01.08	1Year
Pre-amplifier	Tonscend	TAP9K3G32	AP21G806153	2024.01.08	1Year
Pre-amplifier	Tonscend	TAP01018050	AP22E806229	2024.01.08	1Year
L.I.S.N.#1	Schwarzbeck	NSLK8127	/	2024.01.08	1Year
L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	1	2024.01.08	1 Year
Horn Antenna	SCHWARZBECK	BBHA9170	1130	2023.01.09	2 Year
Preamplifier	Tonscend	TAP18040048	AP21C806126	2024.01.08	1 Year
variable-frequency power source	Pinhong	PH1110	/	2024.01.08	1 Year
6dB Attenuator	SKET	DC-6G	/	N/A	N/A
Artificial power network	Schwarzbeck	NSLK8127	8127-01096	2024.01.08	1 Year
EMI Test Receiver	Rohde&schwarz	ESCI7	100853	2024.01.08	1 Year
8-wire Impedance Stabilization Network	Schwarzbeck	NTFM 8158	8158-00337	2024.01.08	1 Year
Artificial power network	Schwarzbeck	ENV216	/	2024.01.08	1 Year
Antenna tower	SKET	Bk-4AT-BS	AT2021040101- V1	N/A	N/A



5. TEST CONDITIONS AND RESULTS

5.1. Antenna Requirement

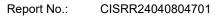
Standard Applicable	FCC CFR Title 47 Part 15 Subpart C Section 15.203:
	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the response-ble party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
	FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1) (I):
	(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively
	for fixed. Point-to-point operations may employ transmitting antennas with
	directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the
	directional gain of the antenna exceeds 6dBi.
Description	The antenna type is a FPC antenna, Refer to the below antenna photo.

Remark: The antenna gain is provided by the customer , if the data provided by the customer is not accurate, Shenzhen Bangce Testing Technology Co., Ltd. does not assume any responsibility.

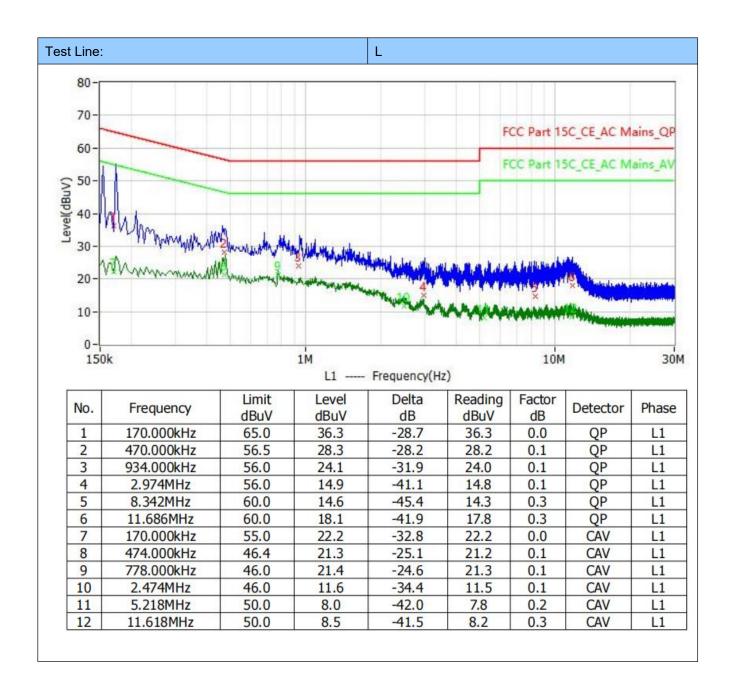
5.2. AC Conducted Emission

Limit:	FCC CFR Title 47 Part 15 Subpart C Section 15.207		
	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	* Decreases with the logarith	m of the frequency.	
<u>Test configuration:</u>	Shielding Room Vertical Reference Ground Plane		eiver
		Ground Reference Plane 🛩	
<u>Test procedure:</u>	 The EUT was setup according and the eutropy of the eu	a platform of nominal conducting ground pla cated 40 cm to the rea least 80 cm from any	size, 1 m by 1.5 m, ane. The vertical ar of the EUT. All other other grounded
	line impedances stabiliza ohm /50uH coupling impe	tion network (LISN).	The LISN provides a 5
	4. The peripheral devices a LISN. (Refer to the block		
	 Each current-carrying co ground (safety) conducto to the input power source 	r, was individually co	
	 The excess length of the receptacle were folded by bundle not exceeding 40 	ack and forth at the c	
	7. Conducted emissions we 0.15MHz to 30MHz using		
	8. During the above scan manipulation.	is, the emissions w	ere maximized by ca
<u>Test mode:</u>	Refer to the clause 4.3		
Result:	Passed		

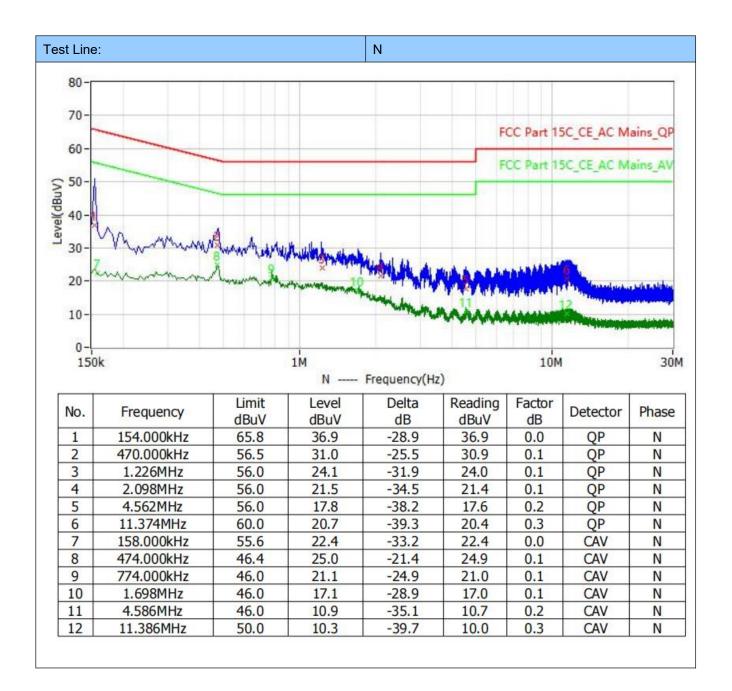
Have pre-scan all test channel, found 11B mode CH1 which it was worst case, so only show the worst case's data on this report.













5.3. Peak Output Power

<u>Limit:</u>	FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(1): For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
<u>Test configuration:</u>	Spectrum Analyzer EUT Non-Conducted Table Ground Reference Plane
<u>Test procedure:</u>	 The transmitter output was connected to the spectrum analyzer through an attenuator, the pathloss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously Use the following spectrum analyzer settings: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel RBW≥ the 20 dB bandwidth of the emission being measured, VBW≥RBW Sweep = auto, Detector function = peak, Trace = max hold Measure and record the results in the test report.
<u>Test mode:</u>	Refer to the clause 4.3
<u>Test data:</u>	Refer to the Appendix A
Result:	Passed



5.4. 6 dB Bandwidth

Limit:	
Test configuration:	Spectrum Analyzer
	EUT
	Non-Conducted Table
	Ground Reference Plane
Test procedure:	 The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
	Set to the maximum power setting and enable the EUT transmit continuously
	3. Use the following spectrum analyzer settings:
	Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel
	RBW ≥ 1% of the 20 dB bandwidth, VBW ≥ RBW
	Sweep = auto, Detector function = peak, Trace = max hold
	4. Measure and record the results in the test report.
Test mode:	Refer to the clause 4.3
Test data:	Refer to the Appendix A
Result:	Passed



5.5. 99% Occupied Bandwidth

Limit:	-
<u>Test configuration:</u>	Spectrum Analyzer EUT Non-Conducted Table
<u>Test procedure:</u>	 Ground Reference Plane ← Connect the antenna port(s) to the spectrum analyzer input. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output andthe spectrum analyzer). Center Frequency =channel center frequency Span≥1.5 x OBW RBW = 1%~5%OBW, VBW ≥ 3 × RBW Sweep time= auto couple Detector = Peak, Trace mode = max hold Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
<u>Test mode:</u>	Refer to the clause 4.3
<u>Test data:</u>	Refer to the Appendix A
Result:	Passed



5.6. Power spectral density

<u>Limit:</u>	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.
Test configuration:	Spectrum Analyzer EUT Non-Conducted Table Ground Reference Plane
<u>Test procedure:</u>	 Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance. Set the RBW ≥ 3 kHz. Set the VBW ≥ 3 × RBW. Set the span to 1.5 times the DTS channel bandwidth. Detector = peak. Sweep time = auto couple. Trace mode = max hold. Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat. The resulting peak PSD level must be 8dBm.
Test mode:	Refer to the clause 4.3
<u>Test data:</u>	Refer to the Appendix A
<u>Result:</u>	Passed



5.7. Conducted Band edge and Spurious Emission

1 5	FCC CFR Title 47 Part 15 Subpart C Section15.247 (d):
<u>Limit:</u>	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test configuration:	Spectrum Analyzer
	EUT Non-Conducted Table
	Ground Reference Plane
Test procedure:	 Connect the antenna port(s) to the spectrum analyzer input. Emission level measurement Set the center frequency and span to encompass frequency range to be measured RBW = 100 kHz, VBW ≥ 3 x RBW Detector = peak, Sweep time = auto couple, Trace mode = max hold Allow trace to fully stabilize Use the peak marker function to determine the maximum amplitude level. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer. Ensure that the amplitude of all unwanted emission outside of the authorized frequency band excluding restricted frequency bands) are attenuated by at least the minimum requirements specified (at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz). Report the three highest emission relative to the limit.
<u>Test mode:</u>	Refer to the clause 4.3
Test data:	Refer to the Appendix A
Result:	Passed



5.8. Radiated Band edge Emission

Limit:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):
	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, Radiated Emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the Radiated Emissions limits specified in §15.209(a) (see §15.205(c)).
<u>Test configuration:</u>	EUT 1 ~ 4m Turntable 1.5m 30cm 4nterna (Boresight) tower Hom anterna Spectrum analyzer Pre-amp
Test procedure:	1. The EUT was setup and tested according to ANSI YIIOT-T233.10.
	2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
	3. The EUT waspositioned such that the distance from antenna to the EUT was 3 meters.
	4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. Thisis repeated for both horizontal and vertical polarization of the antenna. In order to find themaximum emission, all of the interface cables were manipulated according to ANSI YIIOT-T233.10 on radiated measurement.
	5. Use the following spectrum analyzer settings:
	a) Span shall wide enough to fully capture the emission being measured
	 b) Set RBW=100kHz for <1GHz, VBW=3*RBW, Sweep time=auto, Detector=peak, Trace=max hold
	 c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement
	For average measurement: use duty cycle correction factor method (DCCF)
	Averager level = Peak level + DCCF
<u>Test mode:</u>	Refer to the clause 4.3
Result:	Passed

Note:

- 1) Level= Reading + Factor; Factor = Antenna Factor+ Cable Loss- Preamp Factor
- 2) Margin = Limit Level
- 3) Average measurement was not performed if peak level is lower than average limit
- 4) The other emission levels were very low against the limit.

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Test channel:CH1										
Freq. (MHz)	Reading (dBuv)	Ant. Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Remark	Polarity	
2390.00	67.54	28.62	4.08	38.62	-5.92	74	12.38	Peak	Horizontal	
2390.00	51.68	28.62	4.08	38.62	-5.92	54	8.24	Average	Horizontal	
2390.00	71.15	28.62	4.08	38.62	-5.92	74	8.77	Peak	Vertical	
2390.00	49.14	28.62	4.08	38.62	-5.92	54	10.78	Average	Vertical	

Test channel:CH11										
Freq. (MHz)	Reading (dBuv)	Ant. Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Remark	Polarity	
2483.50	70.00	29.45	3.91	40.17	-6.81	74	10.81	Peak	Horizontal	
2483.50	49.30	29.45	3.91	40.17	-6.81	54	11.51	Average	Horizontal	
2483.50	68.53	29.45	3.91	40.17	-6.81	74	12.28	Peak	Vertical	
2483.50	50.61	29.45	3.91	40.17	-6.81	54	10.20	Average	Vertical	



5.9. Radiated Spurious Emission

Limit:

FCC CFR Title 47 Part 15 Subpart C Section 15.209

Frequency	Limit (dBuV/m)	Value
0.009 MHz ~0.49 MHz	2400/F(kHz) @300m	Quasi-peak
0.49 MHz ~ 1.705 MHz	24000/F(kHz) @30m	Quasi-peak
1.705 MHz ~30 MHz	30 @30m	Quasi-peak

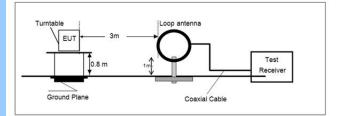
Limit dBuV/m @3m = Limit dBuV/m @300m + 40*log(300/3

Limit dBuV/m @3m = Limit dBuV/m @30m +40*log(30/3)

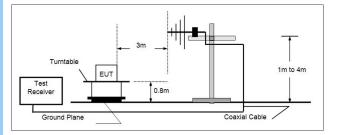
Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
Above IGHZ	74.00	Peak

Test configuration:

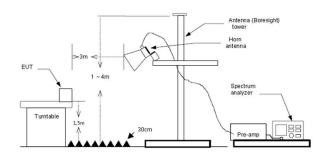
9kHz~30MHz



30 MHz ~ 1 GHz



Above 1 GHz





Test procedure:	1. The EUT was setup and tested according to ANSI YIIOT-T233.10.
	2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
	The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
	4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
	Set to the maximum power setting and enable the EUT transmit continuously.
	6. Use the following spectrum analyzer settings
	 Span shall wide enough to fully capture the emission being measured;
	b) Below 1 GHz:
	RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;
	If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
	 c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement
	For average measurement: use duty cycle correction factor method (DCCF)
	Averager level = Peak level + DCCF
<u>Test mode:</u>	Refer to the clause 4.3
Result:	Passed

Note:

- 1) Level= Reading + Factor/Transd; Factor/Transd =Antenna Factor+ Cable Loss- Preamp Factor
- 2) Margin = Limit Level
- Average measurement was not performed if peak level is lower than average limit(54 dBuV/m) for above 1GHz.
- 4) The other emission levels were very low against the limit.
- 5) This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position.

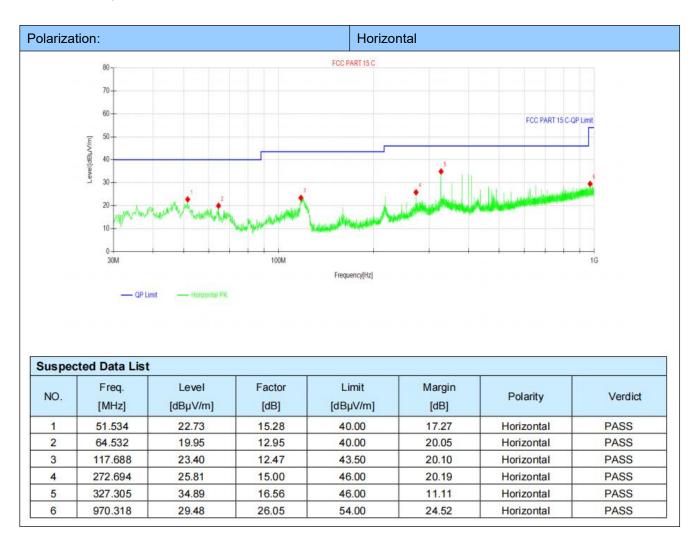
<u> For 9 kHz ~ 30 MHz</u>

The EUT was pre-scanned this frequency band, found the radiated level 20dB lower than the limit, so don't show data on this report.

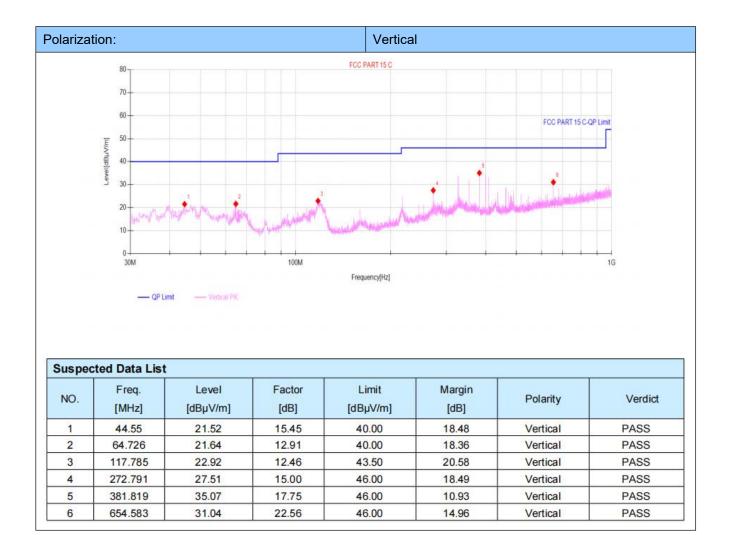


For 30 MHz ~ 1000 MHz

Have pre-scan all test channel, found 11B mode CH1 which it was worst case, so only show the worst case's data on this report.









For 1 GHz ~ 25 GHz

Test channel:CH01										
Freq. (MHz)	Reading (dBuv)	Ant. Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Remark	Polarity	
4842.00	67.94	31.33	4.23	38.62	-3.06	74	9.12	Peak	Horizontal	
4842.00	50.52	31.33	4.23	38.62	-3.06	54	6.54	Average	Horizontal	
4842.00	66.10	31.33	4.23	38.62	-3.06	74	10.96	Peak	Vertical	
4842.00	50.24	31.33	4.23	38.62	-3.06	54	6.82	Average	Vertical	

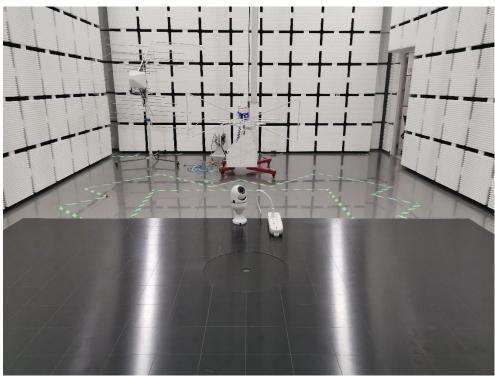
Test channel:CH06 Ant. Cable Pre-Correction Freq. Reading Limit Margin Factor amplifier Factor Factor Remark Polarity (dBuV/m) (dB) (MHz) (dBuv) (dB/m) (dB) (dB) (dB/m) 4872.00 Horizontal 68.93 30.26 4.09 38.29 -3.94 74 9.01 Peak 4872.00 51.26 30.26 4.09 38.29 -3.94 54 6.68 Average Horizontal 4872.00 67.18 30.26 4.09 38.29 -3.94 74 10.76 Peak Vertical 4872.00 49.82 30.26 4.09 38.29 -3.94 54 8.12 Average Vertical

Test channel:CH11										
Freq. (MHz)	Reading (dBuv)	Ant. Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Remark	Polarity	
4924.00	63.61	31.97	4.11	38.47	-2.39	74	12.78	Peak	Horizontal	
4924.00	51.39	31.97	4.11	38.47	-2.39	54	5.00	Average	Horizontal	
4924.00	66.35	31.97	4.11	38.47	-2.39	74	10.04	Peak	Vertical	
4924.00	50.87	31.97	4.11	38.47	-2.39	54	5.52	Average	Vertical	

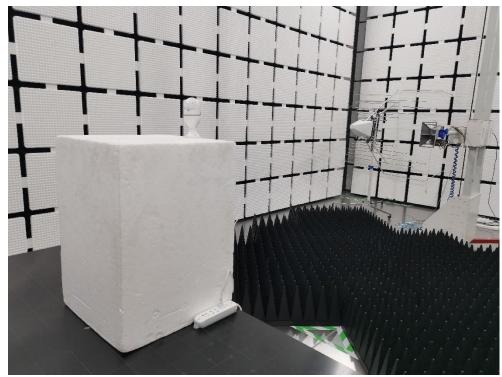


6. TEST SETUP PHOTOS

Radiated Emission Below 1GHz:

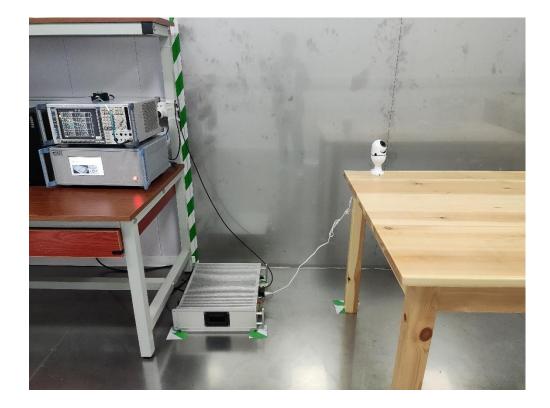


Above 1GHz:





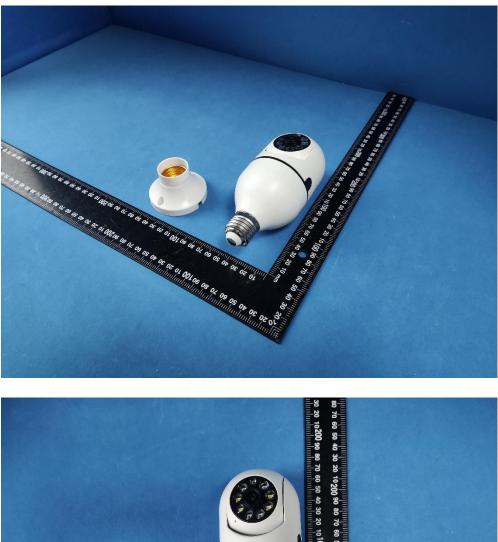
AC Conducted Emission





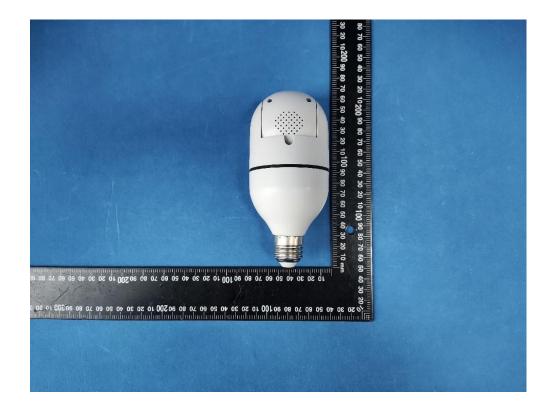
7. EXTERNAL AND INTERNAL PHOTOS

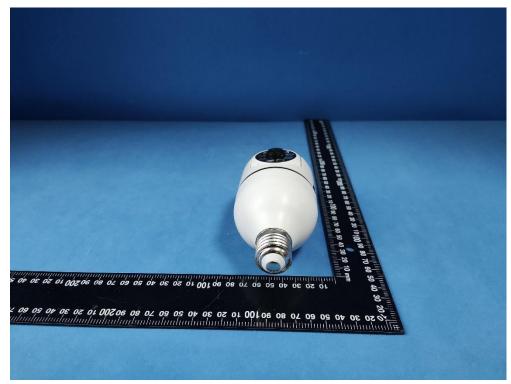
7.1. External Photos















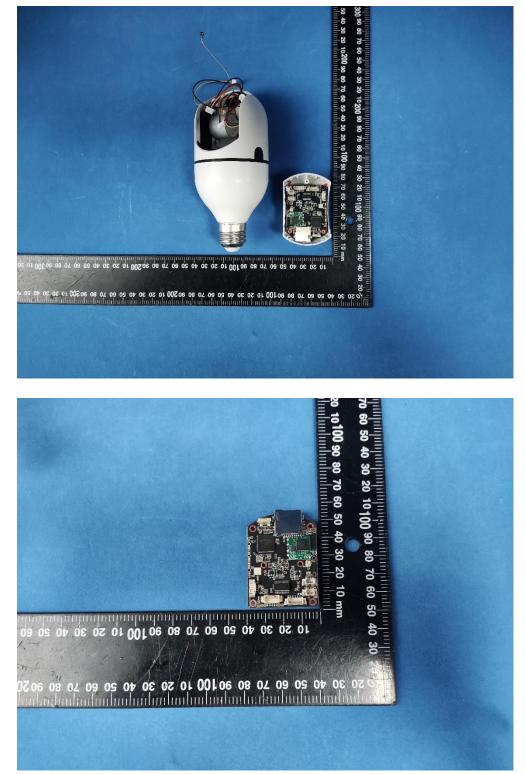




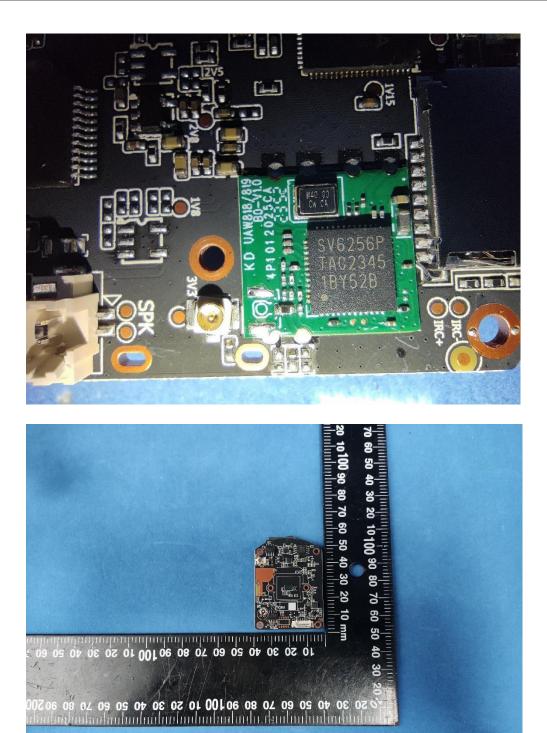




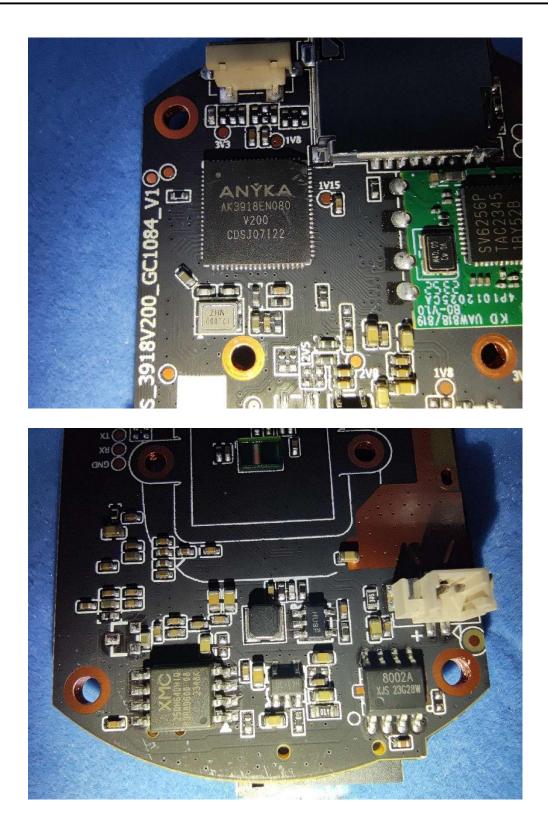
7.2. Internal photos



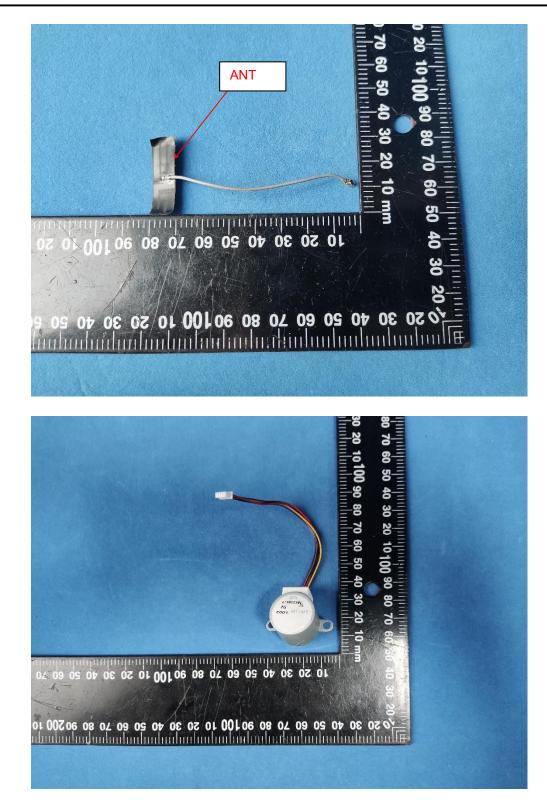












-----End of the report-----