
EMC Test Report

Report No.: AGC11034200802AE01

PRODUCT DESIGNATION : IP Camera
BRAND NAME : Reolink
MODEL NAME : RLC-820A, RLC-520A
APPLICANT : REOLINK INNOVATION LIMITED
DATE OF ISSUE : Sep. 04,2020
STANDARD(S) : AS/NZS CISPR 22-2009
REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Sep. 04,2020	Valid	Initial release

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1 VERIFICATION OF CONFORMITY

Applicant	REOLINK INNOVATION LIMITED
Address	Room B, 4th Floor, Kingway Commercial Building, 171-173 Lockhart Road, Wan Chai, Hong Kong
Manufacturer	REOLINK INNOVATION LIMITED
Address	Room B, 4th Floor, Kingway Commercial Building, 171-173 Lockhart Road, Wan Chai, Hong Kong
Factory	Shenzhen Baichuan Security Technology Co., Ltd.
Address	2-4th Floor, Building 4, YuanLing Industrial Park, Shangwu, Shiyan Street, Bao'an District, Shenzhen, China
Product Designation	IP Camera
Brand Name	Reolink
Test Model	RLC-820A
Series Model	RLC-520A
Difference description	All the same except for the model name.
Date of test	Aug. 27,2020 to Sep. 04,2020
Deviation	None
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-RCM-IT/AC

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. for compliance with the requirements set forth in the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements. The test results of this report relate only to the tested sample identified in this report.

Prepared By



Jack Gui(Gui Jiafeng)
Project Engineer

Sep. 04,2020

Reviewed By



Erik Yang(Yang Jianmin)
Reviewer

Sep. 04,2020

Approved By



Forrest Lei(Lei Yonggang)
Authorized Officer

Sep. 04,2020

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2 SYSTEM DESCRIPTION

TEST MODE DESCRIPTION		
NO.	TEST MODE DESCRIPTION	WORST
1	Normal operation	V
Note: 1. V means EMI worst mode.		

3 MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in measurement” (GUM) published by ISO.

- Uncertainty of Conducted Emission, $U_c = \pm 3.1\text{dB}$
- Uncertainty of Radiated Emission, $U_c = \pm 4.0\text{dB}$

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4 PRODUCT INFORMATION

Housing Type	Plastic and metal
EUT Input Rating	DC12V by adapter

I/O Port Information (☒ Applicable ☐ Not Applicable)

I/O Port of EUT			
I/O Port Type	Number	Cable Description	Tested With
DC IN	1	0.3m Unshielded	1
LAN	1	0.3m Unshielded	1

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5 SUPPORT EQUIPMENT

Device Type	Manufacturer	Model Name	Serial No.	Data Cable	Power Cable
Power Adapter	--	--	--	--	1.0m Unshielded
Router	--	--	--	--	1.0m Unshielded

Note:

1 All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.

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6 TEST FACILITY

Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao 'an District, Shenzhen, Guangdong, China

7 TEST EQUIPMENT LIST

TEST EQUIPMENT OF LINE CONDUCTED EMISSION TEST

Description	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	100096	May 15, 2020	May 14, 2021
LISN	R&S	ESH2-Z5	100086	Jul. 03, 2020	Jul. 02, 2022
Test software	R&S	ES-K1(Ver.V1.7.1)	N/A	N/A	N/A

TEST EQUIPMENT OF DISTURBANCE POWER EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	May 15, 2020	May 14, 2021
Absorbing Clamp	Luthi	MDS 21	3671	Mar. 30, 2020	Mar. 29, 2022

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8 TEST ITEMS AND THE RESULTS

Test item	Test Requirement	Test Method	Class/Severity	Result
CONDUCTED EMISSION	AS/NZS CISPR 22-2009	CISPR 22	/	Pass
RADIATED EMISSION	AS/NZS CISPR 22-2009	CISPR 22	/	Pass

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9 LINE CONDUCTED EMISSION TEST

9.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz-500kHz	66-56	59-46
500kHz-5MHz	56	46
5MHz-30MHz	60	50

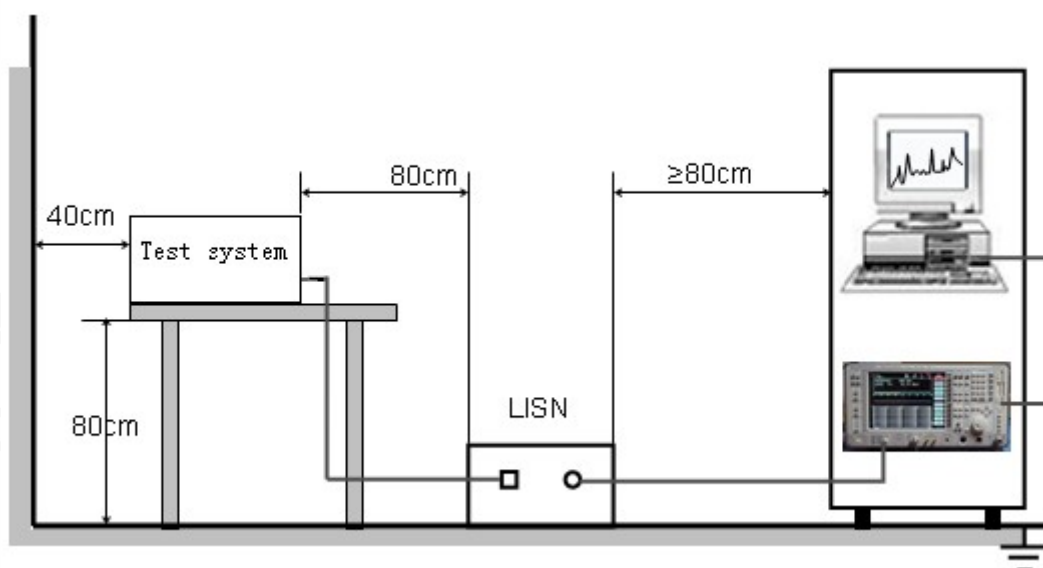
Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

AT telecommunication PORT

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz-500kHz	84-74	74-64
500kHz-30MHz	74	64

9.2. BLOCK DIAGRAM OF TEST SETUP



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9.3. PROCEDURE OF LINE CONDUCTED EMISSION TEST

- (1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per AS/NZS CISPR 22-2009 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- (2) Support equipment, if needed, was placed as per AS/NZS CISPR 22-2009.
- (3) All I/O cables were positioned to simulate typical actual usage as per AS/NZS CISPR 22-2009.
- (4) The EUT received DC12V power from adapter which received AC 230V/50Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- (5) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- (6) Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- (7) During the above scans, the emissions were maximized by cable manipulation.
- (8) A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions.
- (9) Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.

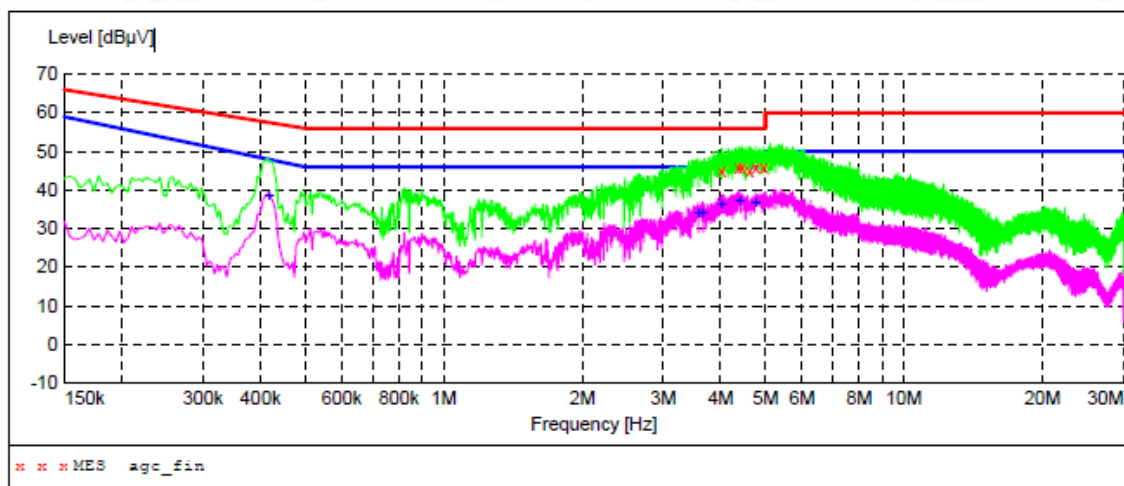
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9.4. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST-L



MEASUREMENT RESULT: "agc_fin"

2020/8/31 22:05

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
4.018000	45.10	9.4	56	10.9	QP	L1
4.370000	46.00	9.4	56	10.0	QP	L1
4.442000	45.90	9.4	56	10.1	QP	L1
4.622000	44.90	9.4	56	11.1	QP	L1
4.766000	46.00	9.4	56	10.0	QP	L1
4.966000	45.80	9.4	56	10.2	QP	L1

MEASUREMENT RESULT: "agc_fin2"

2020/8/31 22:05

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.418000	38.70	9.3	48	9.2	AV	L1
3.574000	34.30	9.4	46	11.7	AV	L1
3.654000	34.20	9.4	46	11.8	AV	L1
4.018000	36.50	9.4	46	9.5	AV	L1
4.394000	37.10	9.4	46	8.9	AV	L1
4.766000	36.90	9.4	46	9.1	AV	L1

RESULT: PASS

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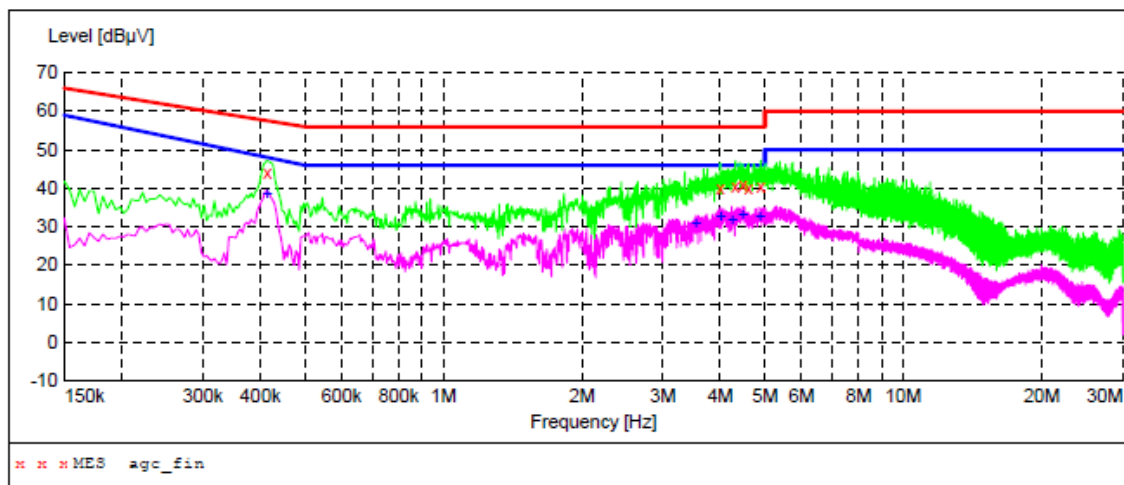
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LINE CONDUCTED EMISSION TEST-N



MEASUREMENT RESULT: "agc_fin"

2020/8/31 22:01

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.414000	43.80	9.3	58	13.8	QP	N
4.002000	40.10	9.4	56	15.9	QP	N
4.318000	40.40	9.4	56	15.6	QP	N
4.474000	40.80	9.4	56	15.2	QP	N
4.610000	39.80	9.4	56	16.2	QP	N
4.898000	40.40	9.4	56	15.6	QP	N

MEASUREMENT RESULT: "agc_fin2"

2020/8/31 22:01

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.414000	38.80	9.3	48	9.2	AV	N
3.542000	31.00	9.4	46	15.0	AV	N
4.002000	32.70	9.4	46	13.3	AV	N
4.238000	31.90	9.4	46	14.1	AV	N
4.474000	33.10	9.4	46	12.9	AV	N
4.878000	33.00	9.4	46	13.0	AV	N

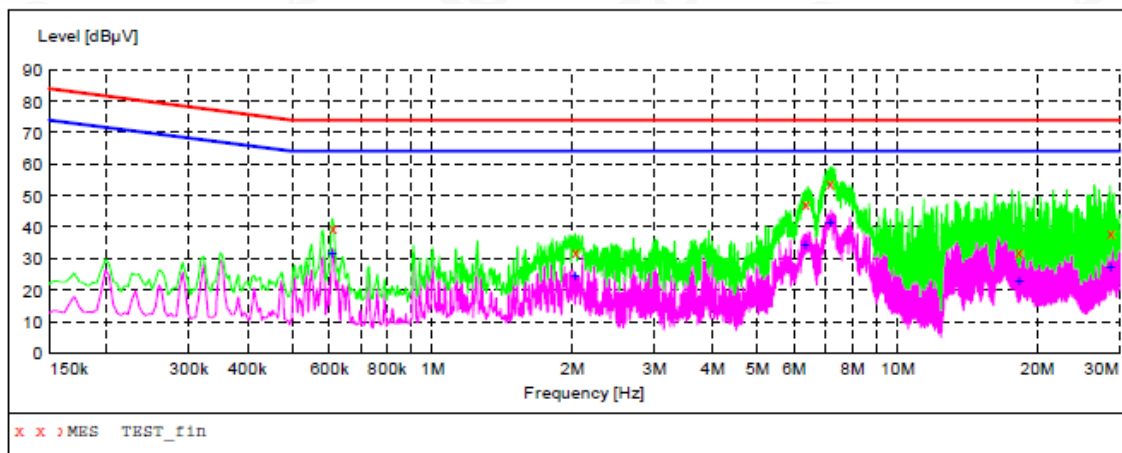
RESULT: PASS

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AT TELECOMMUNICATION PORT



MEASUREMENT RESULT: "TEST_fin"

2020/8/31 11:52AM							
Frequency	Level	Transd	Limit	Margin	Detector	Line	
MHz	dBuV	dB	dBuV	dB			
0.610000	40.10	10.7	74	33.9	QP	LAN	
2.030000	32.30	11.5	74	41.7	QP	LAN	
6.326000	47.80	11.7	74	26.2	QP	LAN	
7.150000	54.40	11.8	74	19.6	QP	LAN	
18.222000	32.60	12.4	74	41.4	QP	LAN	
28.666000	38.50	12.8	74	35.5	QP	LAN	

MEASUREMENT RESULT: "TEST_fin2"

2020/8/31 11:52AM						
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.610000	32.10	10.7	64	31.9	AV	LAN
2.030000	24.60	11.5	64	39.4	AV	LAN
6.322000	34.30	11.7	64	29.7	AV	LAN
7.142000	41.60	11.8	64	22.4	AV	LAN
18.222000	23.20	12.4	64	40.8	AV	LAN
28.666000	27.30	12.8	64	36.7	AV	LAN

RESULT: PASS

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10 RADIATED EMISSION TEST

10.1 LIMITS OF RADIATED DISTURBANCES

AT 10M DISTANCES

Frequency (MHz)	Distance (m)	Maximum Field Strength Limit (dBuV/m Q.P.)
30-230	10	30.00
230-300	10	37.00

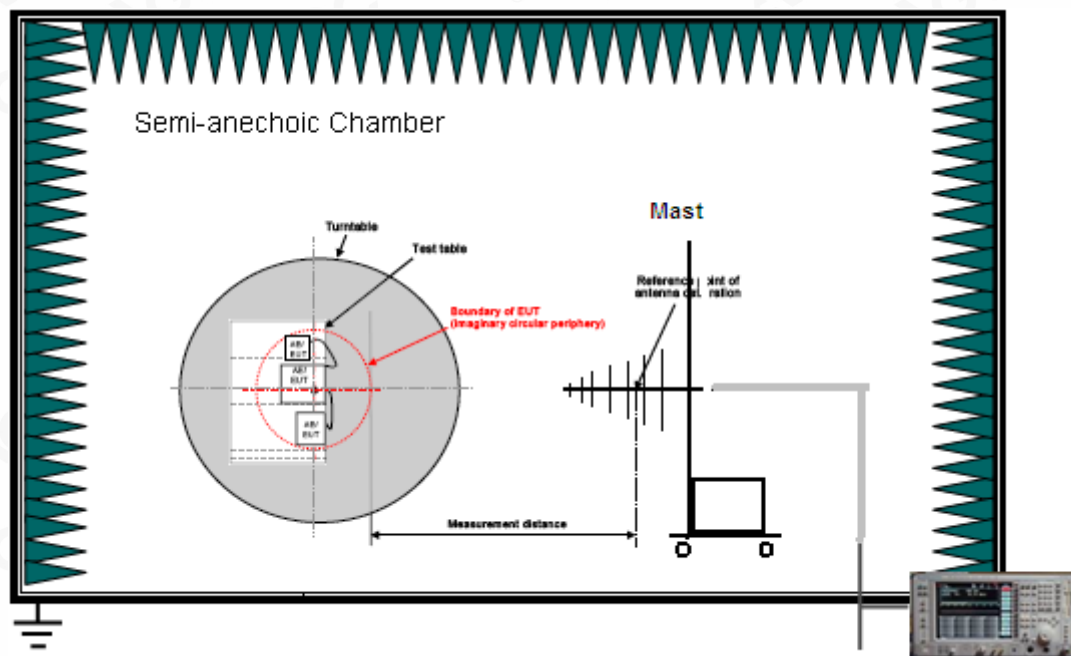
AT 3M DISTANCES

Frequency (MHz)	Distance (m)	Maximum Field Strength Limit (dBuV/m Q.P.)
30-230	3	40.00
230-300	3	47.00

Note: The lower limit shall apply at the transition frequency.

10.2 BLOCK DIAGRAM OF TEST SETUP

System Diagram of Connections between EUT and Simulators



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10.3 PROCEDURE OF RADIATED EMISSION TEST

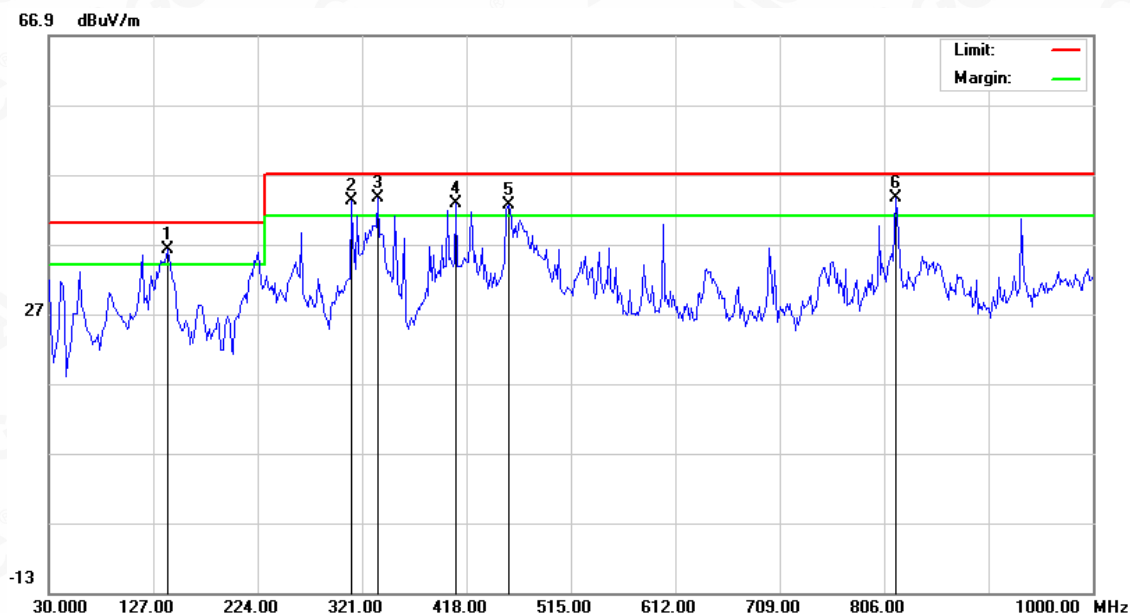
- (1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane as per AS/NZS CISPR 22-2009 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 10cm non-conductive covering to insulate the EUT from the ground plane.
- (2) Support equipment, if needed, was placed as per AS/NZS CISPR 22-2009.
- (3) All I/O cables were positioned to simulate typical actual usage as per AS/NZS CISPR 22-2009.
- (4) The EUT was turned on.
- (5) The antenna was placed at 3 meters away from the EUT as stated in AS/NZS CISPR 22-2009. The antenna connected to the Analyzer via a cable and at times a pre-amplifier would be used.
- (6) The Analyzer / Receiver quickly scanned from 30MHz to 300MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- (7) The test mode(s) were scanned during the test:
- (8) Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and Q.P./Peak reading is presented.

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10.4 TEST RESULT OF RADIATED EMISSION TEST

Radiated Emission Test at 3m Distance-Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	!	139.9333	16.90	19.23	36.13	40.00	-3.87	peak
2	!	311.3000	23.38	19.87	43.25	47.00	-3.75	peak
3	!	335.5500	22.84	20.72	43.56	47.00	-3.44	peak
4	!	408.3000	19.58	23.15	42.73	47.00	-4.27	peak
5	!	456.8000	18.53	24.12	42.65	47.00	-4.35	peak
6	*	817.3165	13.73	29.94	43.67	47.00	-3.33	peak

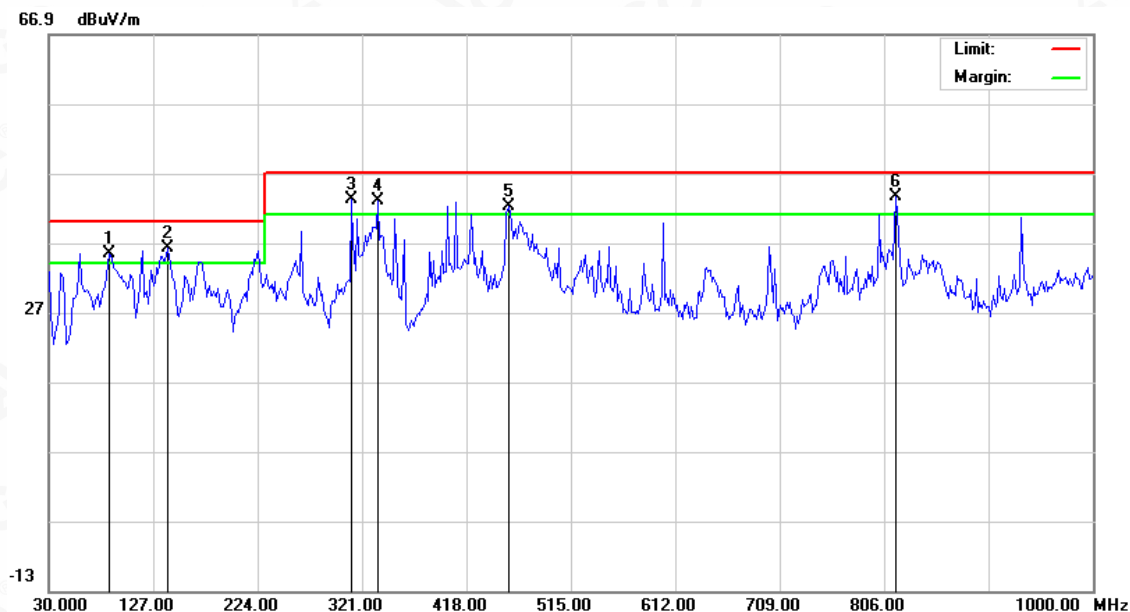
RESULT: PASS

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

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Radiated Emission Test at 3m Distance-Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	!	86.5832	20.47	14.97	35.44	40.00	-4.56	peak
2	!	139.9333	16.90	19.23	36.13	40.00	-3.87	peak
3	!	311.3000	23.38	19.87	43.25	47.00	-3.75	peak
4	!	335.5500	22.34	20.72	43.06	47.00	-3.94	peak
5	!	456.8000	18.03	24.12	42.15	47.00	-4.85	peak
6	*	817.3165	13.73	29.94	43.67	47.00	-3.33	peak

RESULT: PASS

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

LINE CONDUCTED EMISSION TEST SETUP



RADIATED EMISSION TEST SETUP



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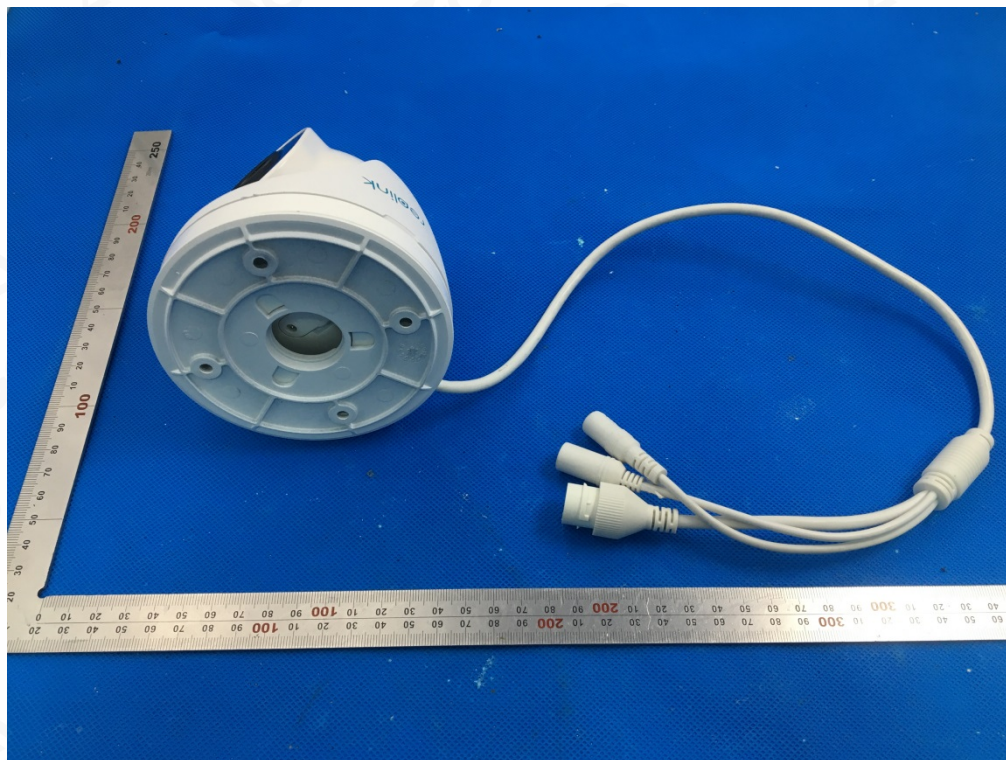


APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT



BOTTOM VIEW OF EUT



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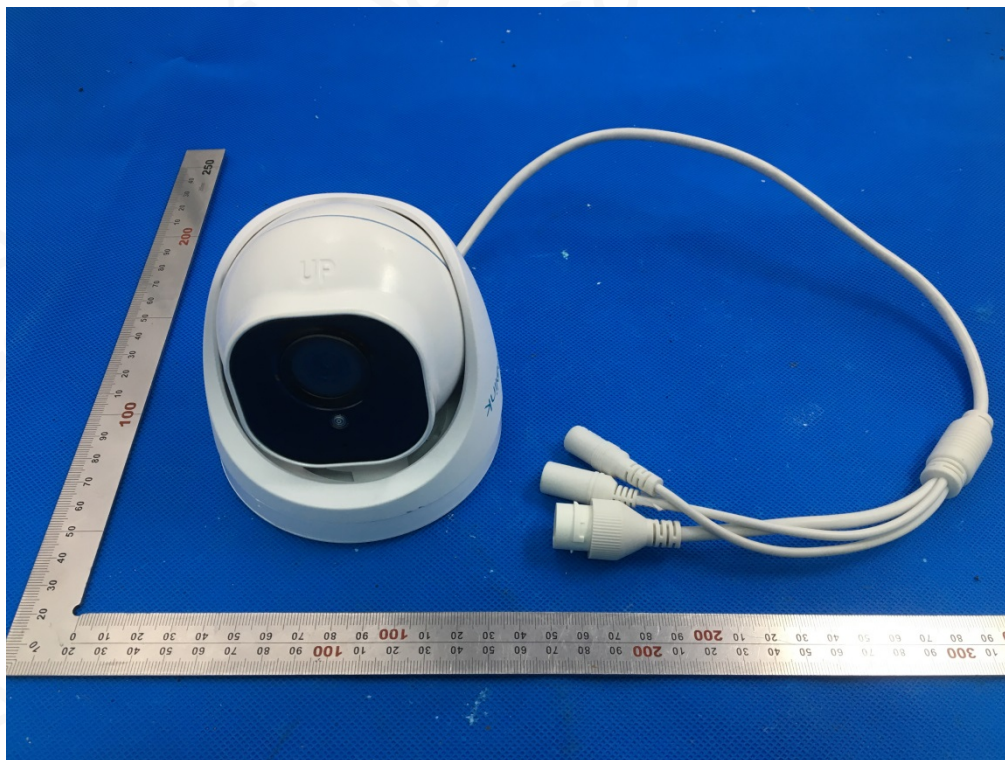
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FRONT VIEW OF EUT



BACK VIEW OF EUT



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LEFT VIEW OF EUT



RIGHT VIEW OF EUT

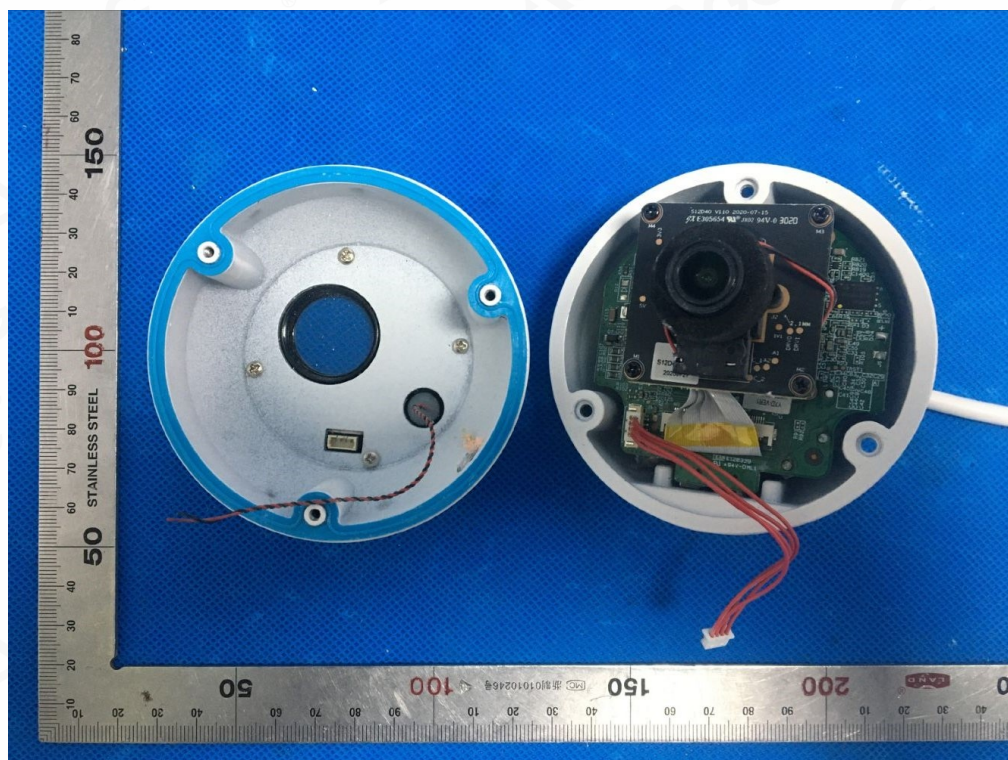


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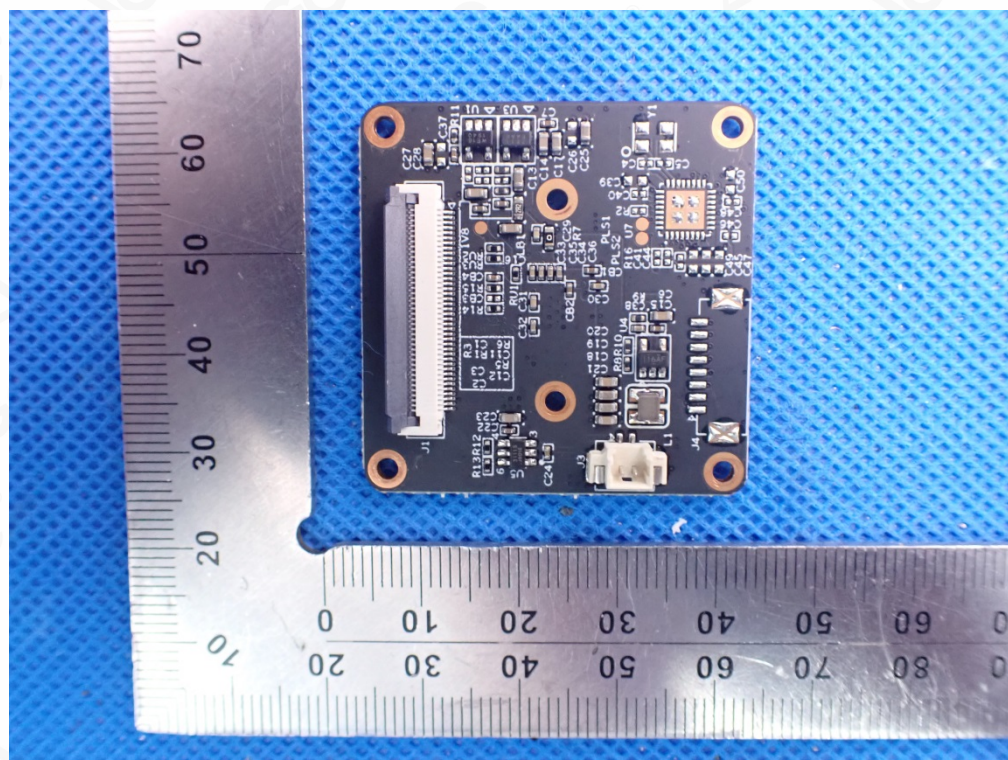
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OPEN VIEW OF EUT



INTERNAL VIEW OF EUT-1

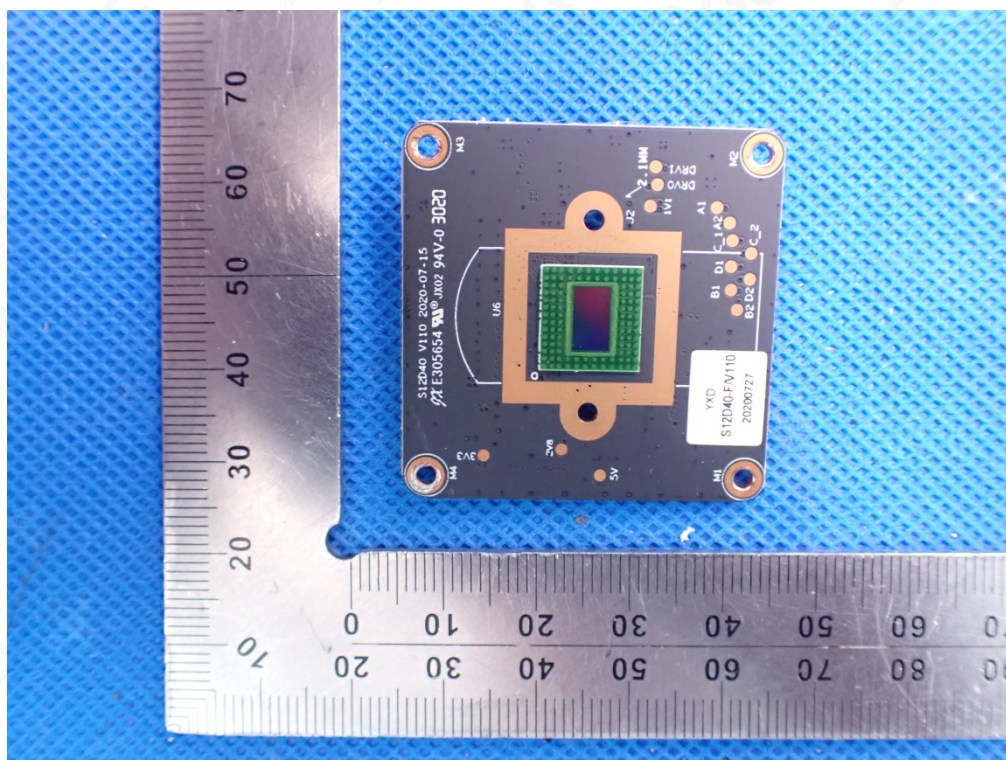


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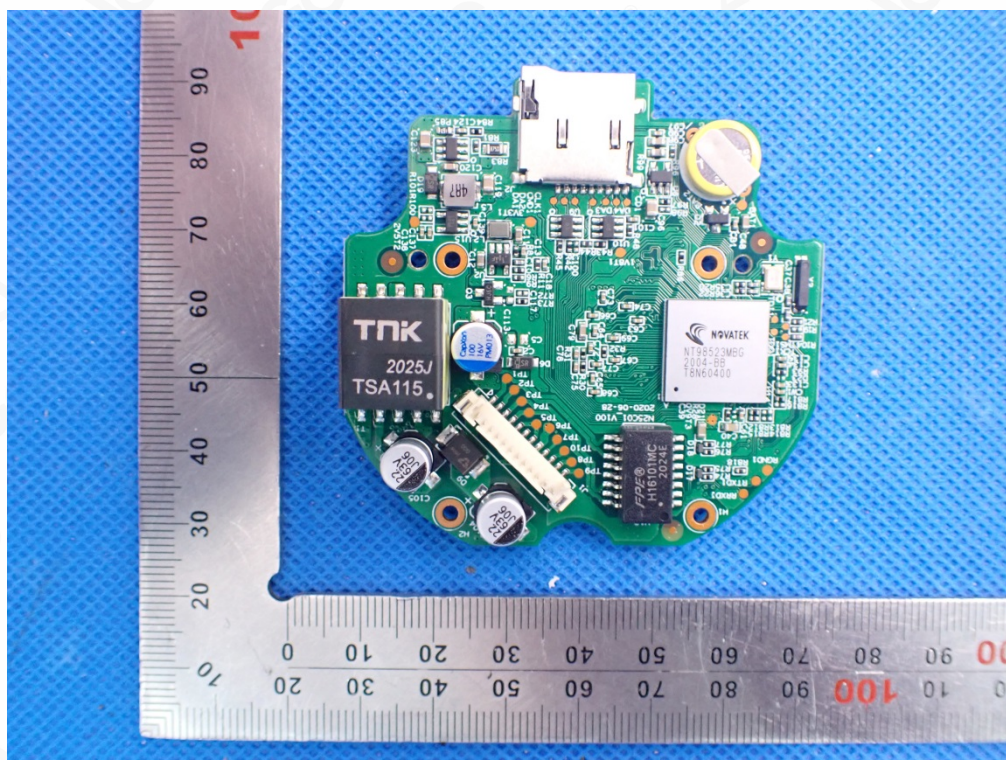
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INTERNAL VIEW OF EUT-2

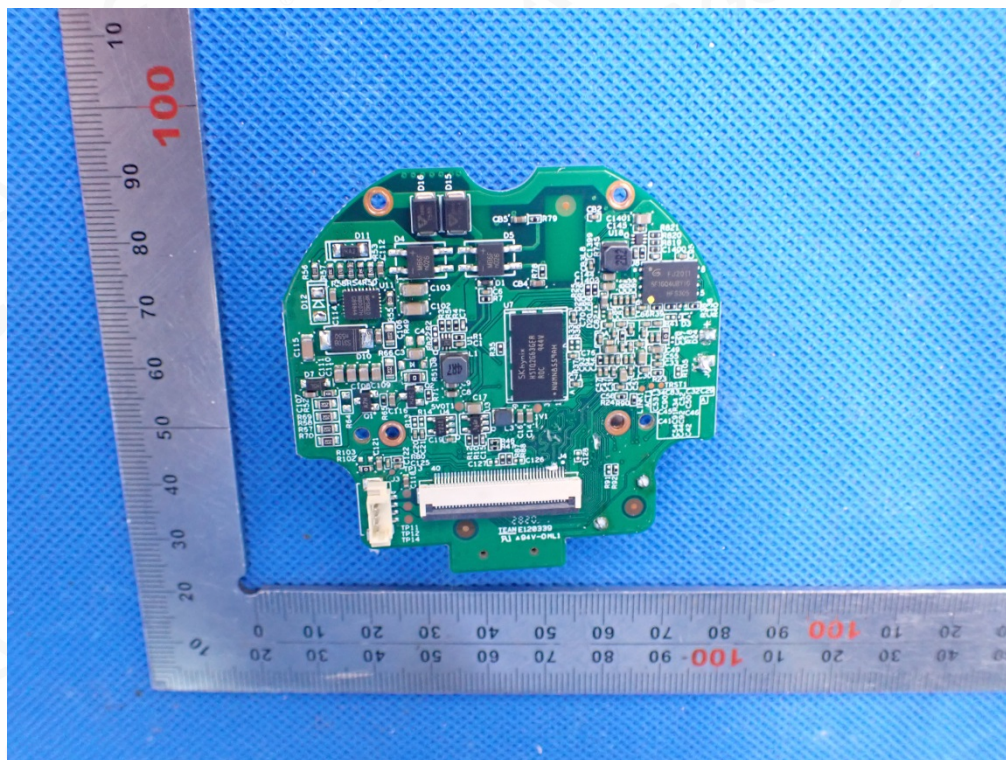


INTERNAL VIEW OF EUT-3



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INTERNAL VIEW OF EUT-4



----END OF REPORT----

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Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.
5. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
6. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
7. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
9. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
10. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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