

TEST REPORT

Application No.: SZCR2511005227AT
Applicant: Xiamen Milesight IoT Co., Ltd.
Address of Applicant: Building C09, Software Park Phase III, Xiamen 361024, Fujian, China
Manufacturer: Xiamen Milesight IoT Co., Ltd.
Address of Manufacturer: Building C09, Software Park Phase III, Xiamen 361024, Fujian, China
Equipment Under Test (EUT):
EUT Name: NeoEyes NE101 Sensing Camera
Model No.: NE101-L02NA , NT101-L02NA ♣
 ♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: Milesight
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2025-11-27
Date of Test: 2025-12-02 to 2025-12-04
Date of Issue: 2025-12-09

Test Result:

Pass*

* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu

Ken Xu
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-12-09		Original

Authorized for issue by:				
		Gebin Sun		
		Gebin Sun/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		



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2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4-2014 +C63.4a-2017	15.109(a);Class B	Pass
Radiated Emissions (Above 1GHz)		ANSI C63.4-2014 +C63.4a-2017	15.109(g);Class B	Pass

Declaration of EUT Family Grouping:

Model No.: NE101-L02NA , NT101-L02NA

Only the model NE101-L02NA was tested. According to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on mode No and appearance logo.



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4 General Information

4.1 Details of E.U.T.

Power supply:	6V DC(1.5V x 4 "AA" Size Batteries)
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Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	L480	REF. No.SEA18C00E
Mouse	Lenovo	M-U0025-O	REF. No.:SEA24A00

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Radiated Emissions (30MHz-1GHz)	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m
Radiated Emissions (Above 1GHz)	$\pm 4.6\text{dB}$

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

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4.4 Test Location

All tests were performed at:

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No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2025-07-25	2026-07-24
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2025-08-29	2027-08-28
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2025-03-04	2026-03-03
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2025-07-05	2026-07-04

Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-05-07	2028-05-06
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025-03-04	2026-03-03
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2025-07-22	2026-07-21
Microwave system amplifier	Agilent	83017A	SEM005-25	2025-09-10	2026-09-09
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2025-07-05	2026-07-04

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2025-07-23	2026-07-22
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2025-07-23	2026-07-22
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2025-03-03	2026-03-02

6 Emission Test Results

6.1 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B
 Test Method: ANSI C63.4-2014 +C63.4a-2017
 Measurement Distance: 3m
 Test Engineer: Mason Wu

Limit:

FREQUENCY (MHz)	dBμV/m (At 10m)	dBμV/m (At 3m)
	Class B	Class B
30MHz -88MHz	29.5	40.0
88MHz-216MHz	33.1	43.5
216MHz-960MHz	35.6	46.0
960MHz-1000MHz	43.5	54.0
Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz		

6.1.1 E.U.T. Operation

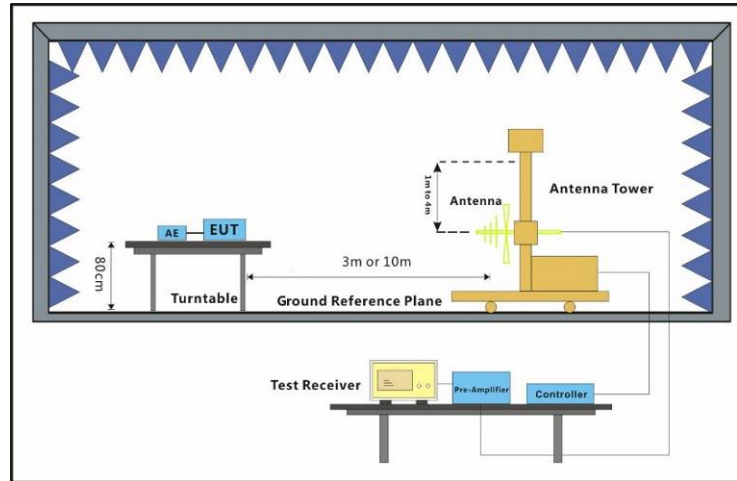
Operating Environment:
 Temperature: 23.3 °C Humidity: 47.6 % RH Atmospheric Pressure: 1020 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	On mode,keep EUT working normally.



6.1.3 Test Setup Diagram



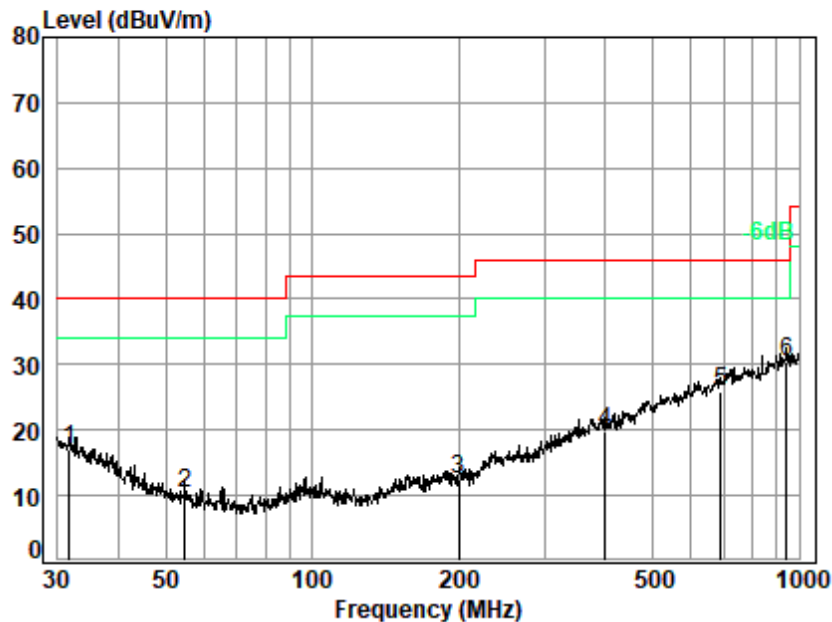
6.1.4 Measurement Procedure and Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



Test Mode: 00; Polarity: Horizontal

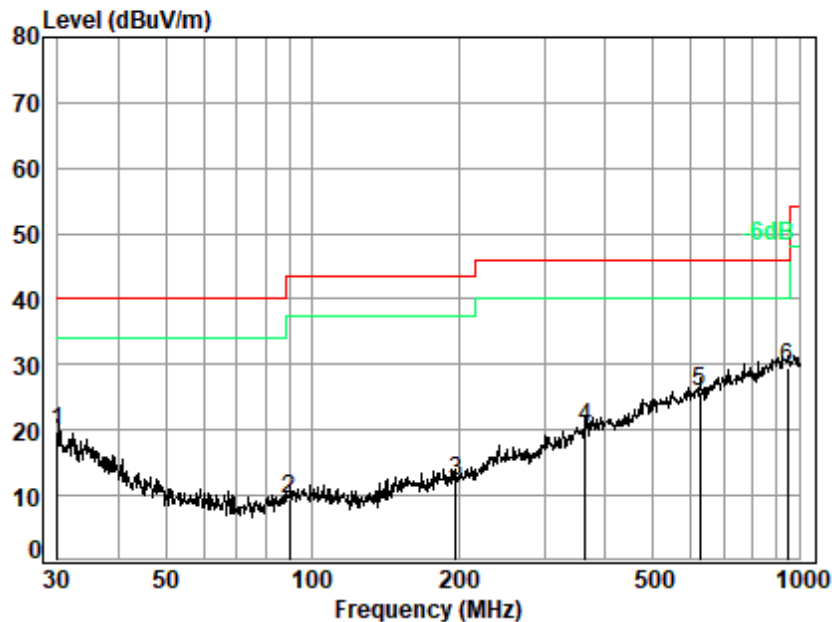


Site : chamber
Condition: 3m HORIZONTAL
Job No. : 05227AT
Test Mode: 00

	Ant	Cable	Preamp	Read		Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	31.620	20.45	0.75	27.65	23.43	16.98	40.00	-23.02 QP
2	54.643	12.02	0.91	27.63	24.98	10.28	40.00	-29.72 QP
3	199.986	14.10	1.70	27.80	24.32	12.32	43.50	-31.18 QP
4	399.030	20.63	2.49	27.75	24.53	19.90	46.00	-26.10 QP
5	689.565	25.69	3.38	27.86	24.71	25.92	46.00	-20.08 QP
6 q	942.131	28.19	4.06	26.72	24.89	30.42	46.00	-15.58 QP



Test Mode: 00; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 05227AT
Test Mode: 00

	Ant	Cable	Preamp	Read		Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.000	21.20	0.74	27.65	25.38	19.67	40.00	-20.33 QP
2	89.905	11.72	1.18	27.60	24.14	9.44	43.50	-34.06 QP
3	197.200	14.10	1.69	27.80	24.05	12.04	43.50	-31.46 QP
4	362.985	20.27	2.36	27.66	25.28	20.25	46.00	-25.75 QP
5	625.078	25.06	3.18	28.03	25.79	26.00	46.00	-20.00 QP
6 q	948.761	28.23	4.08	26.68	23.74	29.37	46.00	-16.63 QP



6.2 Radiated Emissions (Above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B
 Test Method: ANSI C63.4-2014 +C63.4a-2017
 Measurement Distance: 3m
 Test Engineer: Tommy Luo

Limit:
 Above 1GHz 74(dBμV/m) peak, 54(dBμV/m) average at 3m distance
 83.54(dBμV/m) peak, 63.54(dBμV/m) average at 1m distance
 Detector: Peak for pre-scan (1MHz resolution bandwidth) 1GHz to 40GHz

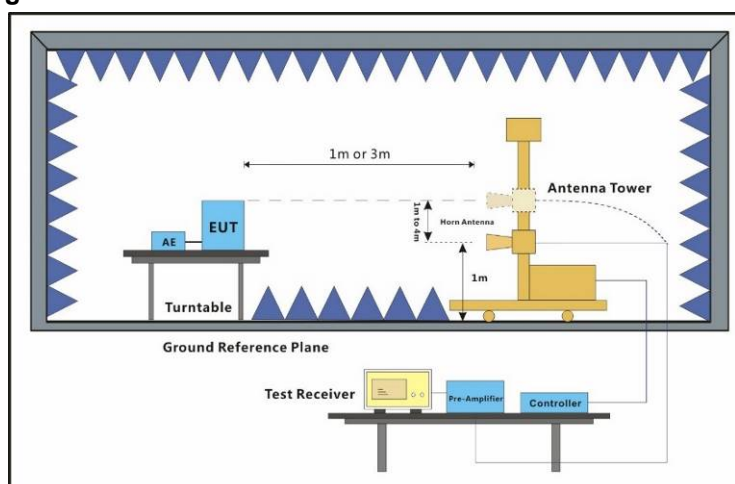
6.2.1 E.U.T. Operation

Operating Environment:
 Temperature: 21.2 °C Humidity: 50.5 % RH Atmospheric Pressure: 1020 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	On mode,keep EUT working normally.

6.2.3 Test Setup Diagram



6.2.4 Measurement Procedure and Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

The red line show in graphic is the limit in standard used in this section.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



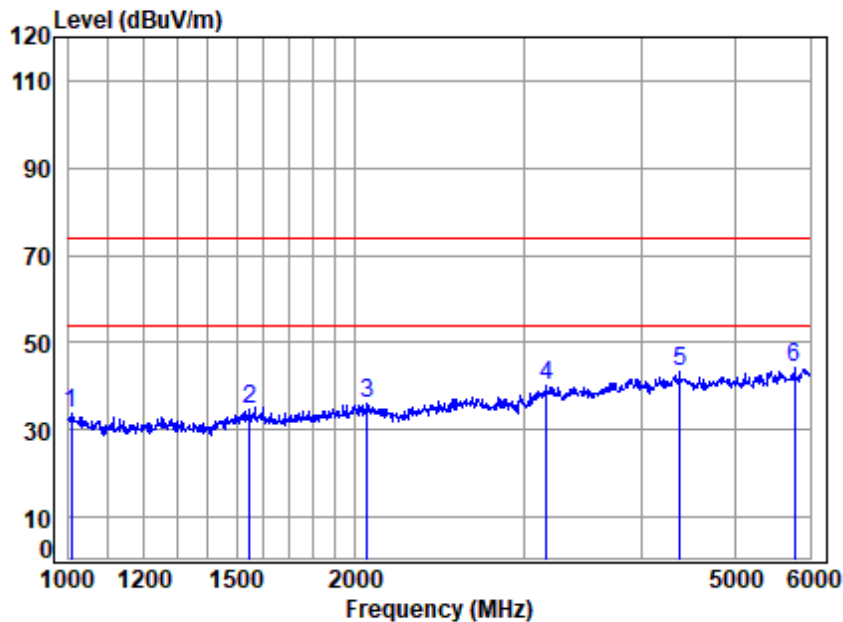
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Test Mode: 00; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05227AT
Mode : 00

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1007.193	5.89	26.07	54.60	56.29	33.65	74.00	-40.35	Peak
2	1548.349	4.99	26.99	54.79	57.37	34.56	74.00	-39.44	Peak
3	2055.023	5.06	28.98	54.91	56.73	35.86	74.00	-38.14	Peak
4	3176.198	6.00	32.71	54.86	56.22	40.07	74.00	-33.93	Peak
5	4377.203	7.11	34.62	54.26	55.85	43.32	74.00	-30.68	Peak
6 p	5778.433	8.60	34.26	53.33	54.54	44.07	74.00	-29.93	Peak



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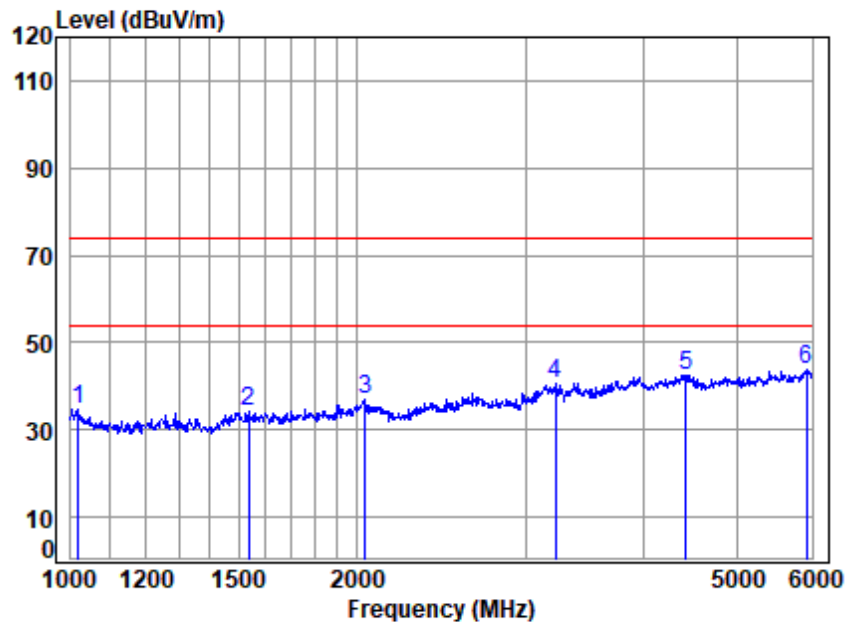
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Test Mode: 00; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 05227AT
Mode : 00

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1018.079	5.87	25.72	54.61	57.70	34.68	74.00	-39.32	Peak
2	1537.292	4.99	26.95	54.79	57.12	34.27	74.00	-39.73	Peak
3	2036.695	5.04	28.95	54.90	58.02	37.11	74.00	-36.89	Peak
4	3227.832	6.03	32.45	54.82	56.82	40.48	74.00	-33.52	Peak
5	4424.514	7.13	34.51	54.25	55.25	42.64	74.00	-31.36	Peak
6 p	5914.609	8.80	34.63	53.19	53.61	43.85	74.00	-30.15	Peak



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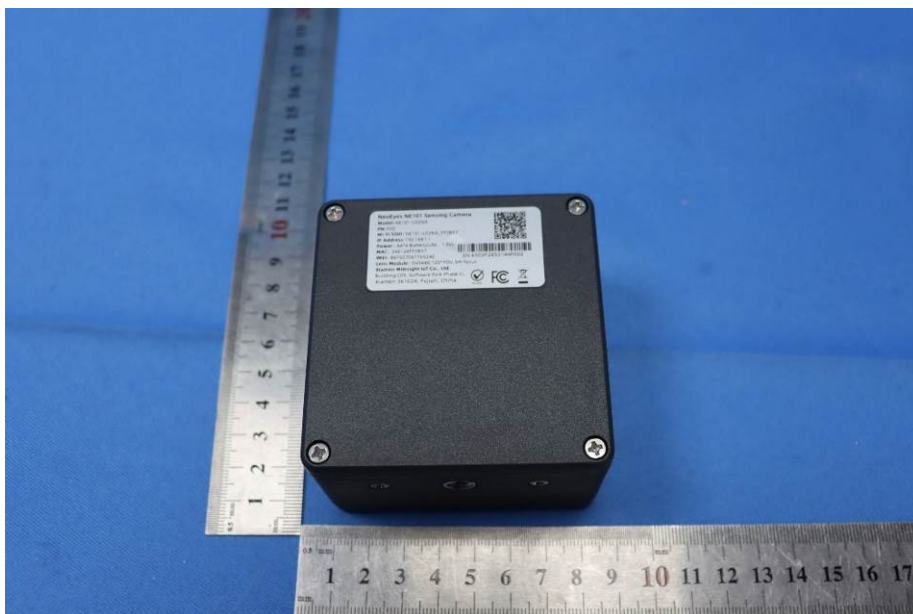
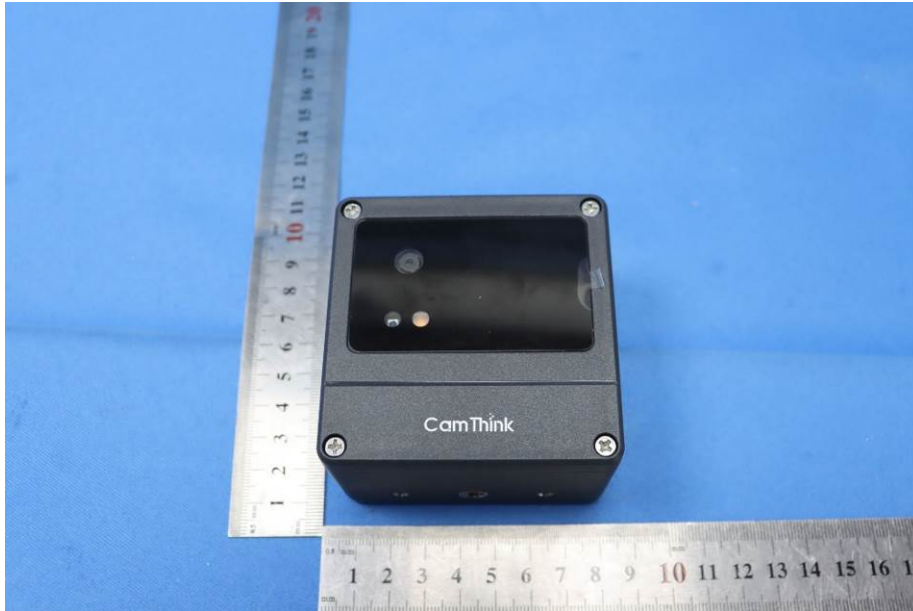
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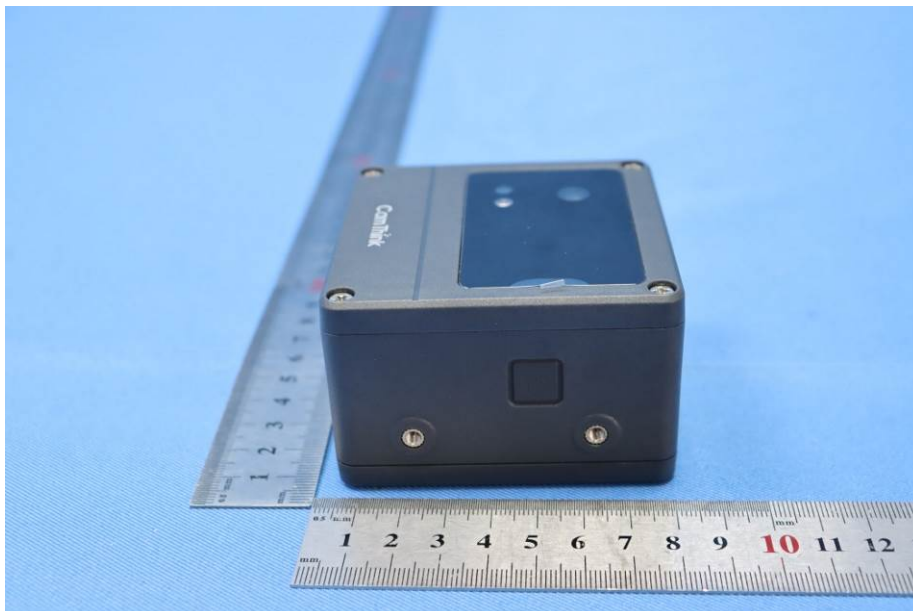
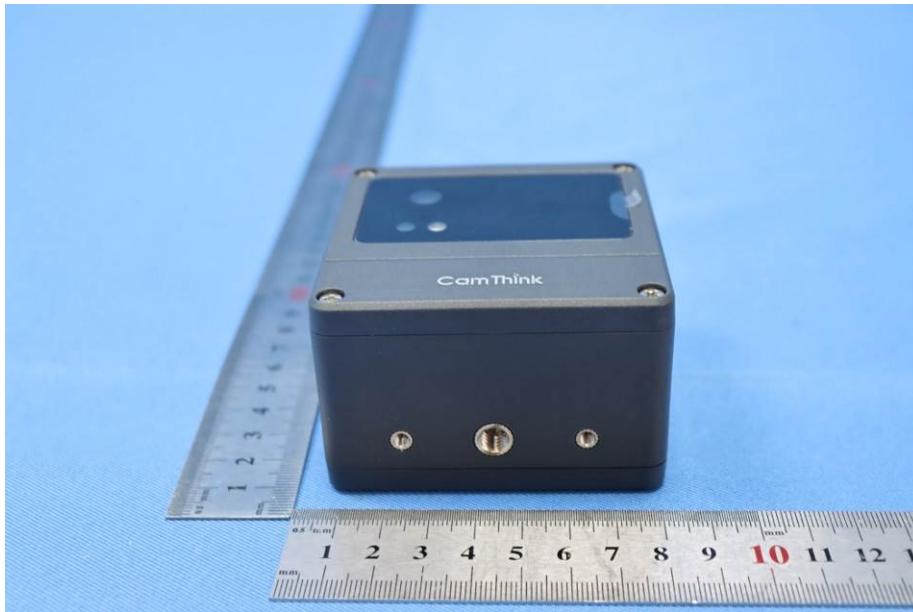
7 Test Setup Photo

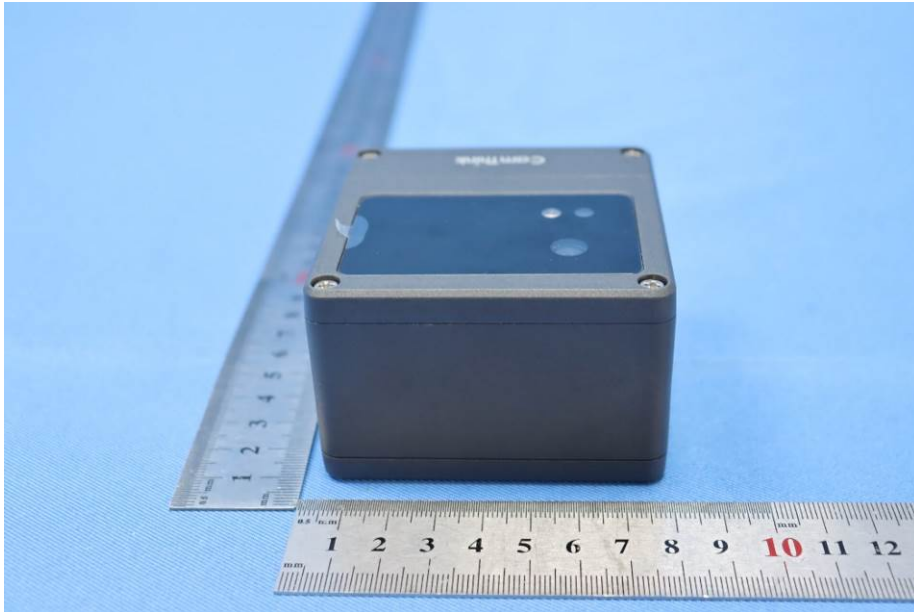
Radiated Emissions (30MHz-1GHz)



8 EUT Constructional Details (EUT Photos)





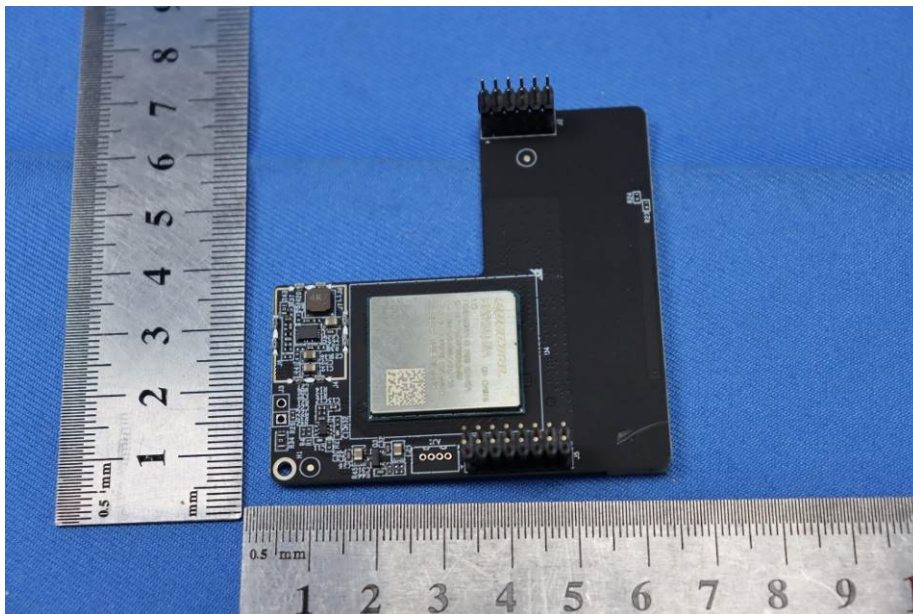


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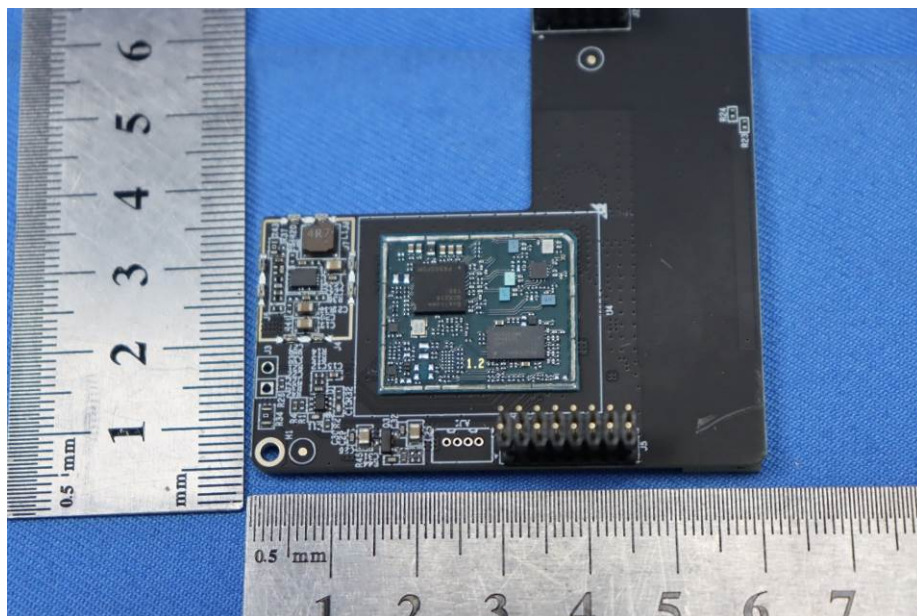
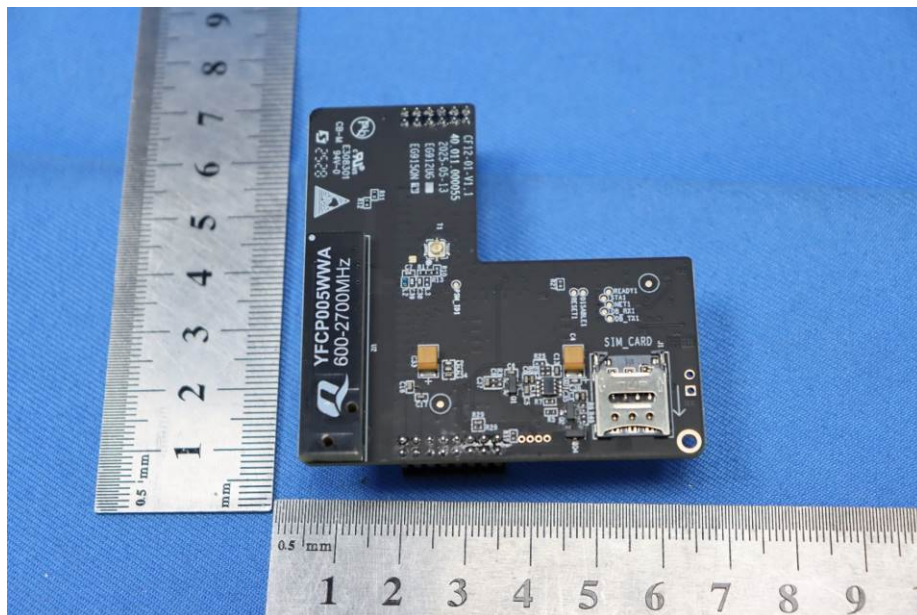


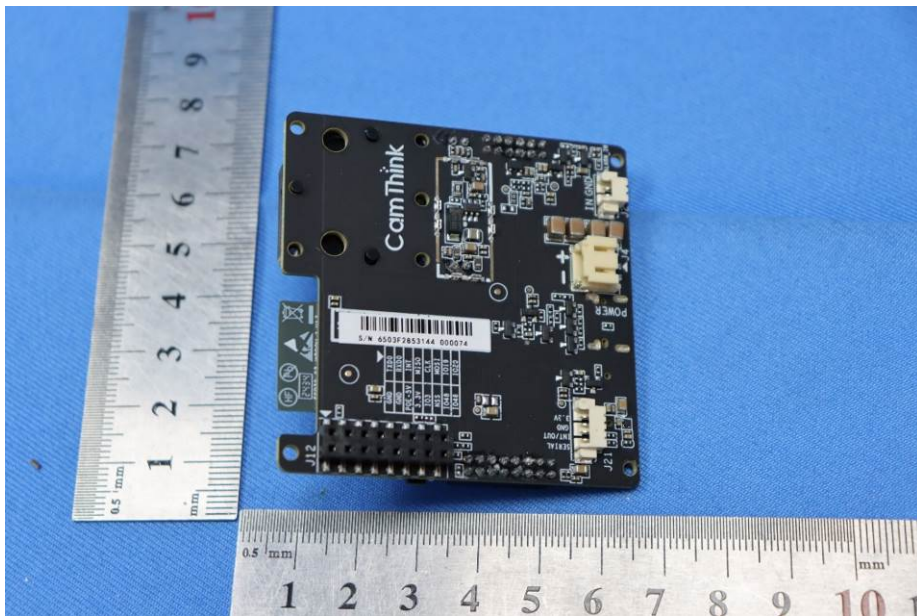
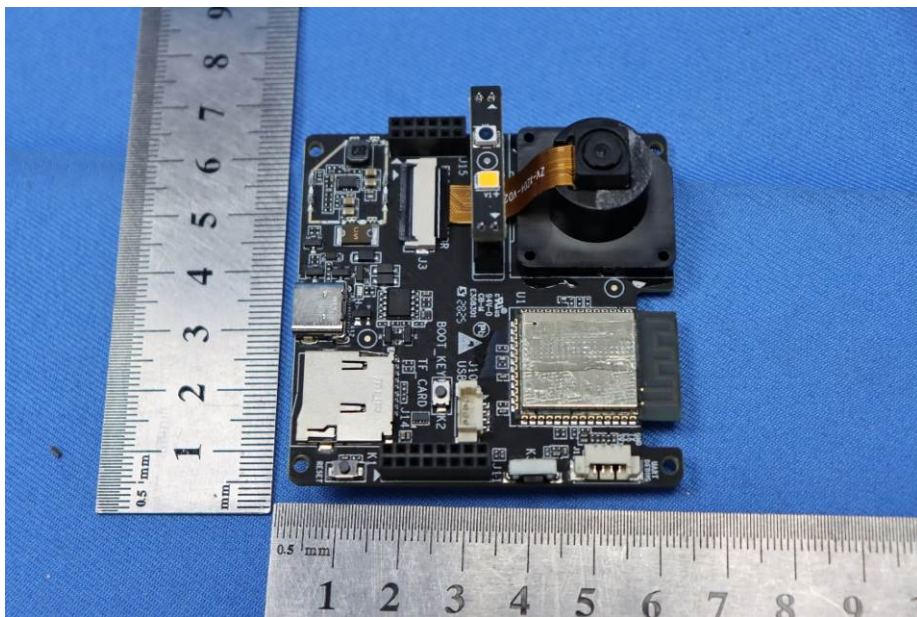
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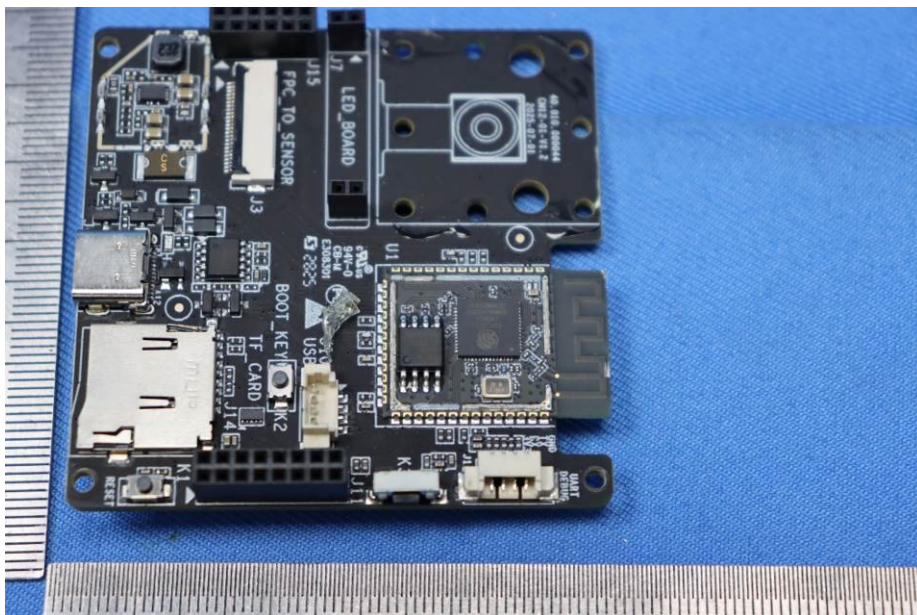
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- End of the Report -

