FCC Test Report

Compliance with Canada Interference-Causing Equipment Standard ICES-003

Product Name ： Network Camera

Model No. ： IB9387-EH, IB9387-H

Applicant ： VIVOTEK INC.

Address ： 6F, No.192, Lien-Cheng Rd., Chung-Ho , New Taipei City, 235, Taiwan, R.O.C.

Date of Receipt ： 2018/10/24

Issued Date ： 2018/11/14

Report No. ： 18A0322R-ITUSP01V00

Report Version ： V1.0

Testing Laboratory
3023

Test Report

Issued Date: 2018/11/14
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Product Name	:	Network Camera
Applicant	:	VIVOTEK INC.
Address	:	6F, No.192, Lien-Cheng Rd., Chung-Ho , New Taipei City, 235, Taiwan, R.O.C.
Manufacturer	:	VIVOTEK INC.
Model No.	:	IB9387-EH, IB9387-H
EUT Rated Voltage	:	DC 12V, By PoE
EUT Test Voltage	:	AC 120V / 60Hz, By PoE
Trade Name	:	VIVOTEK
Applicable Standard	:	FCC CFR Title 47 Part 15 Subpart B: 2017, Class A CISPR 22: 2008, ANSI C63.4: 2014 ICES-003 Issue 6: 2016, Class A
Test Result	:	Complied
Performed Location	:	DEKRA Testing and Certification Co., Ltd. Linkou Laboratory No. 5-22, Ruishukeng Linkou District, New Taipei City, 24451, Taiwan TEL:+866-2-8601-3788 / FAX:+886-2-8601-3789

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Approved By :

(Director / Vincent Lin)

Laboratory Information

We, **DEKRA Testing and Certification Co., Ltd.**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted (audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scopes:

Taiwan R.O.C.	**:**	**BSMI, NCC, TAF**
Norway	**:**	**DNV**
USA	**:**	**FCC**
Japan	**:**	**VCCI**

The related certificate for our laboratories about the test site and management system can be downloaded from DEKRA Testing and Certification Co., Ltd. Web Site :
http://www.dekra.com.tw/english/about/certificates.aspx?bval=5
The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site : http://www.dekra.com.tw/index_en.aspx
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TABLE OF CONTENTS

1. General Information

1.1. EUT Description

Product Name	Network Camera
Trade Name	VIVOTEK
Model No.	IB9387-EH, IB9387-H
EUT Max Frequency	1600MHz

Note: The EUT is including series models for different is marketing requirement.

1.2. Mode of Operation

DEKRA has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Pre-Test Mode	
Mode 1: IB9387-EH , DC Mode 2: IB9387-EH , PoE Mode 3: IB9387-H , DC Mode 4: IB9387-H , PoE	
Final Test Mode	
Emission	Mode 1: IB9387-EH , DC Mode 2: IB9387-EH , PoE

Note: According to pre-test data, we choose the worst case mode 1, 2 as the final and full testing.

1.3. Tested System Details

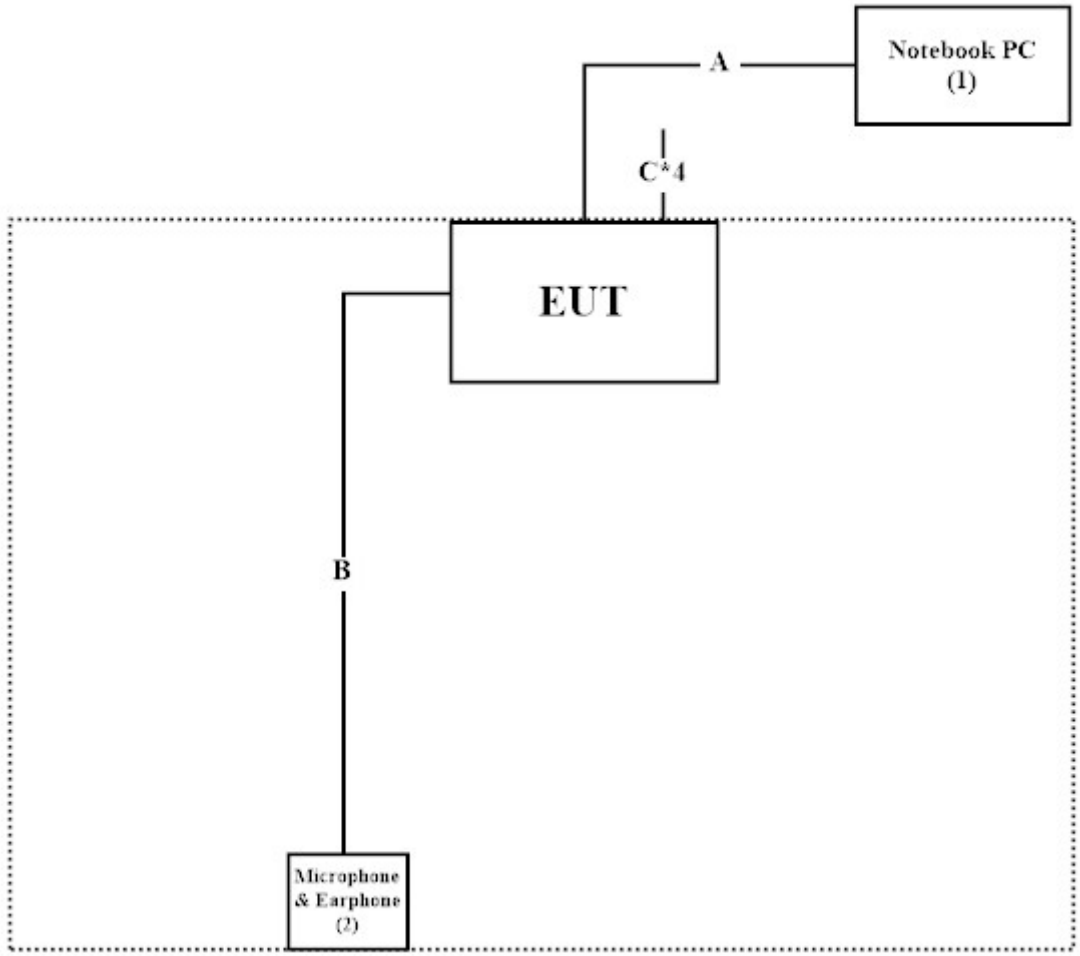
The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Test Mode		**Mode 1**			
Product		Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook PC	DELL	E5530	24QPXW1	Non-shielded, 0.8m
2	Microphone & Earphone	RONEVER	MOE240	N/A	N/A

Test Mode		**Mode 2**			
Product		Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook PC	DELL	E5530	24QPXW1	Non-shielded, 0.8m
2	Microphone & Earphone	RONEVER	MOE240	N/A	N/A
3	PoE	N/A	N/A	N/A	Non-shielded, 1.8m

1.4. Configuration of Tested System

Test Mode	Mode 1
Connection Diagram	



Signal Cable Type		Signal cable Description
A	LAN Cable	Non-shielded, 6m
B	Microphone & Earphone Cable	Non-shielded, 1.2m
C	DI / DO Cable	Non-shielded, 0.5m, four PCS.

Note:

☒ Use Full system setup configuration determines Worst-Case Mode.

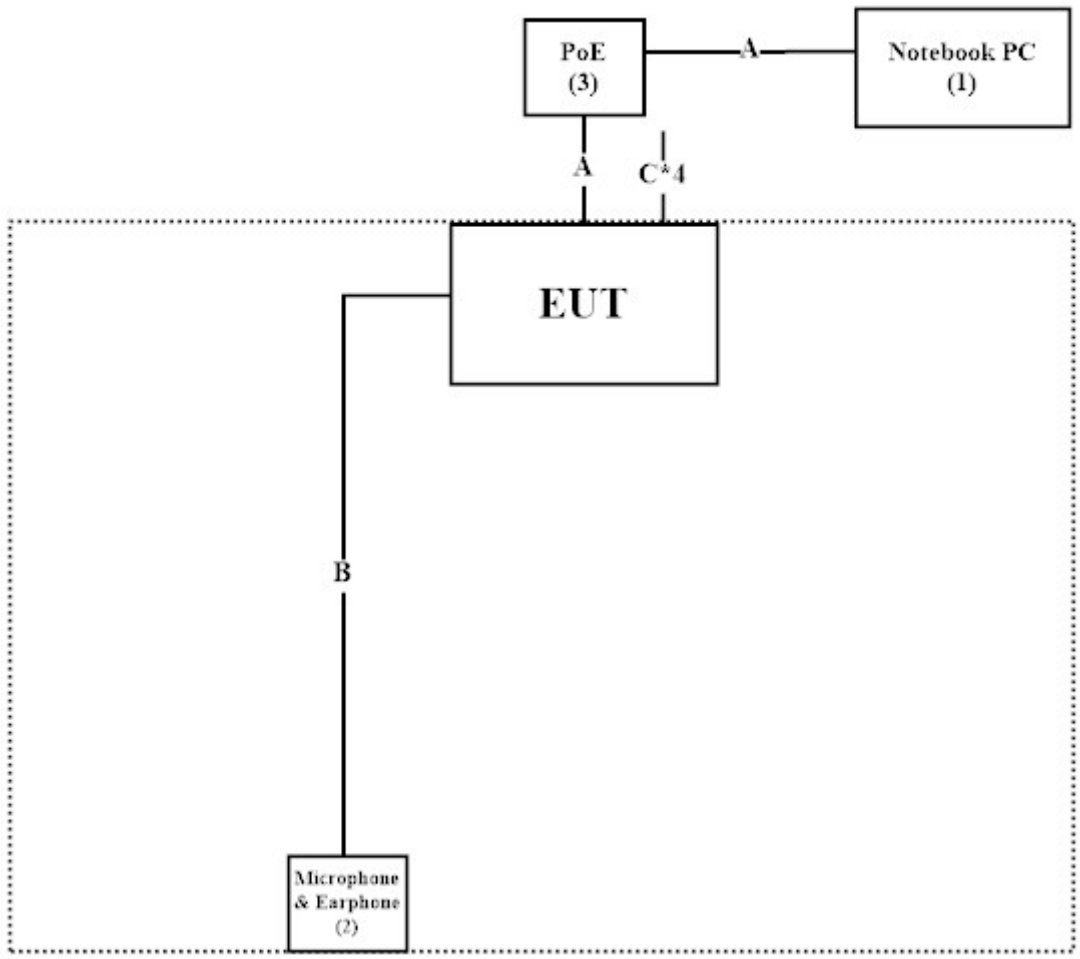
☐ Use 2dB law program determines Max. Cable Configuration and Worst-Case Mode.

☒ Radiated emission item test: Performed using the Horn Antenna 3dB Beamwidth to 3m from the EUT size sufficient to cover the procedure.

☐ Radiated emission item test: Performed using the Horn Antenna 3dB Beamwidth non 3m distance sufficient to cover the size of the EUT program.

Test Mode	Mode 2

Connection Diagram



Signal Cable Type		Signal cable Description
A	LAN Cable	Non-shielded, 6m, two PCS
B	Microphone & Earphone Cable	Non-shielded, 1.2m
C	DI / DO Cable	Non-shielded, 0.5m, four PCS.

Note:

☒ Use Full system setup configuration determines Worst-Case Mode.

☐ Use 2dB law program determines Max. Cable Configuration and Worst-Case Mode.

☒ Radiated emission item test: Performed using the Horn Antenna 3dB Beamwidth to 3m from the EUT size sufficient to cover the procedure.

☐ Radiated emission item test: Performed using the Horn Antenna 3dB Beamwidth non 3m distance sufficient to cover the size of the EUT program.

1.5. EUT Exercise Software

1	Setup the EUT and simulators as shown on 1.4.
2	Turn on the power of all equipment.
3	The EUT will start to operate and display the video figure from the signal source.
4	The EUT will display “video figure” on monitor.
5	SD card works while the EUT is recording.
6	Repeat the above procedure (3) to (5).

2. Technical Test

2.1. Summary of Test Result

☒ No deviations from the test standards

☐ Deviations from the test standards as below description:

Emission			
Performed Item	Normative References	Test Performed	Deviation
Conducted Emission	FCC CFR Title 47 Part 15 Subpart B: 2017 Class A, ANSI C63.4: 2014	Yes	No
Radiated Emission	FCC CFR Title 47 Part 15 Subpart B: 2017 Class A, ANSI C63.4: 2014	Yes	No

Note : Test Procedure ☒ANSI C63.4:2014 ☐MP-5:1986

2.2. List of Test Equipment

Conducted Emission / SR1

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
EMI Test Receiver	R&S	ESCS 30	100367	2018/01/23
LISN	R&S	ENV216	100085	2018/03/09
LISN	R&S	ESH2-Z5	836679/023	2018/08/06
Coaxial Cable	DEKRA	RG 400	LC016-RG	2018/06/21

Note:Test Receiver Detector:Quasipeak and Average Bandwidth:9KHz

Radiated Emission / Site 7

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Broadband Antenna	Schwarzbeck	VULB 9168	0853	2018/04/11
EMI Test Receiver	R&S	ESCI	100649	2018/07/20
Coaxial Cable	DEKRA	RG 214	LC007-RG	2018/06/18
Pre-Amplifier	DEKRA	AP/0100A	CHM/1009094	2018/06/18
Site7 NSA	DEKRA	N/A	N/A	2018/06/18

Note:Test Receiver Detector:Quasipeak Bandwidth:120KHz

Radiated Emission / CB7

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
EMI Test Receiver	R&S	ESU26	100433	2018/11/02
Horn Antenna	ETS-Lindgren	3117	00202723	2018/08/08
Horn Antenna	SCHWARZBECK	9120D	576	2017/12/07
Pre-Amplifier	EMCI	EMC051845SE	980359	2018/10/12
CB7 VSWR	DEKRA	N/A	N/A	2018/06/25

2.3. Measurement Uncertainty

Conducted Emission

The measurement uncertainty is evaluated as ± 3.44 dB.

Radiated Emission

The measurement uncertainty is evaluated as ± 4.22 dB.

Radiated Emission Above 1GHz

The measurement uncertainty is evaluated as ± 5.08 dB.

2.4. Test Environment

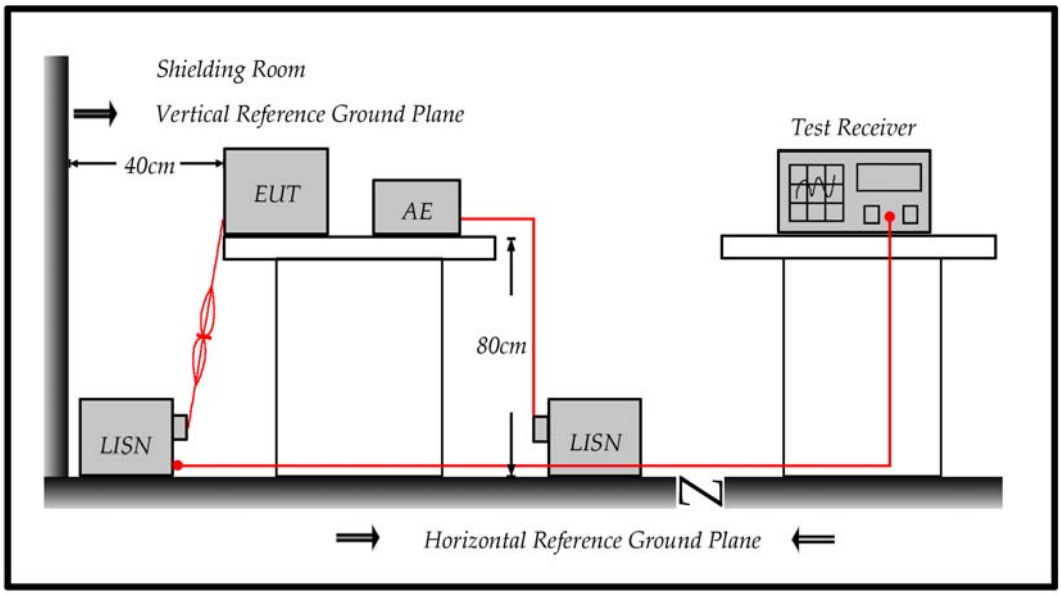
Performed Item	Items	Required	Actual
Conducted Emission	Temperature (°C)	15-35	27
	Humidity (%RH)	25-75	57
	Barometric pressure (mbar)	860-1060	950-1000
Radiated Emission	Temperature (°C)	15-35	25.9
	Humidity (%RH)	25-75	59
	Barometric pressure (mbar)	860-1060	950-1000

3. Conducted Emission

3.1. Test Specification

According to Standard : FCC Part 15 Subpart B, ANSI C63.4

3.2. Test Setup



3.3. Limit

Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	79	66
0.50-5.0	73	60
5.0 - 30	73	60

Remarks: In the above table, the tighter limit applies at the band edges.

3.4. Test Procedure

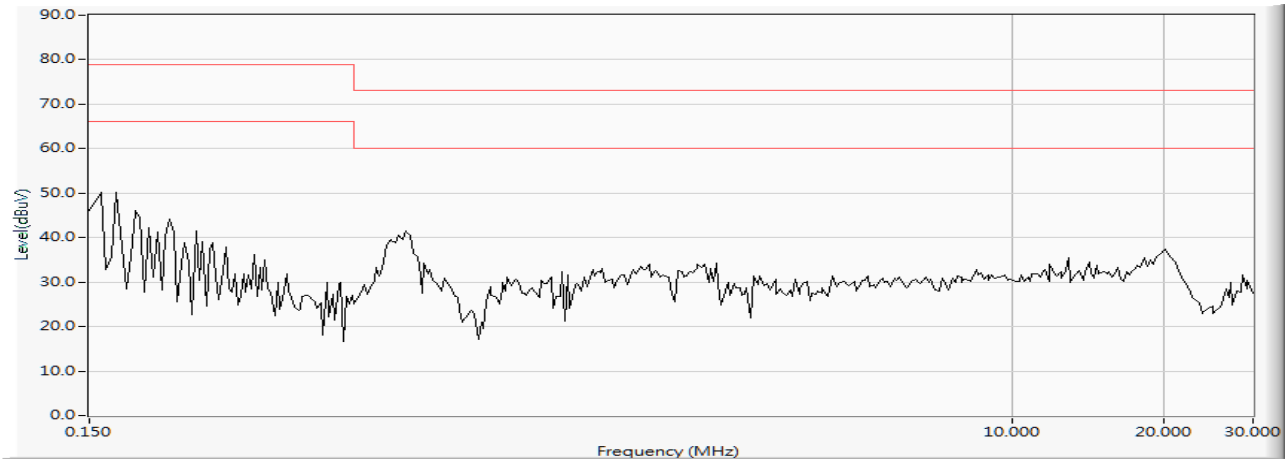
The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed on conducted measurement.

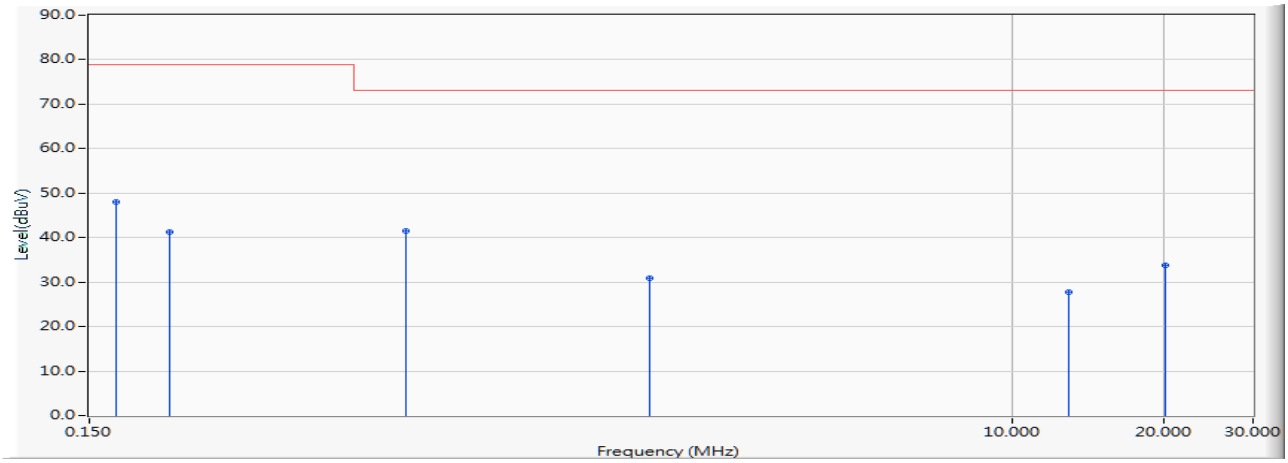
Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

3.5. Test Result

Site : SR1	**Time : 2018/10/29 - 11:56**
Limit : CISPR_A_00M_QP	**Margin : 13**
EUT : Network Camera	**Probe : ENV216_L1_1044 - Line1**
Power : AC 120V/60Hz	**Note: Mode 1**



Site : SR1	**Time : 2018/10/29 - 11:58**
Limit : CISPR_A_00M_QP	**Margin : 0**
EUT : Network Camera	**Probe : ENV216_L1_1044 - Line1**
Power : AC 120V/60Hz	**Note: Mode 1**

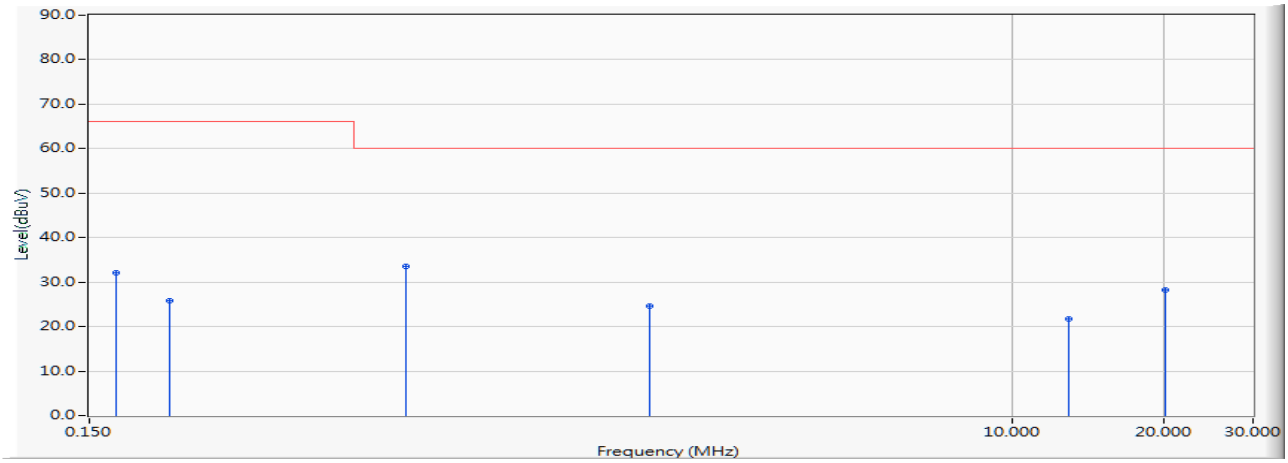


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.170	9.705	38.290	47.995	-31.005	79.000	QUASIPEAK
2		0.216	9.707	31.600	41.307	-37.693	79.000	QUASIPEAK
3		0.634	9.710	31.700	41.410	-31.590	73.000	QUASIPEAK
4		1.920	9.771	21.150	30.921	-42.079	73.000	QUASIPEAK
5		12.943	10.076	17.600	27.676	-45.324	73.000	QUASIPEAK
6		20.107	10.213	23.480	33.693	-39.307	73.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor (LISN factor + cable loss).

Site : SR1	**Time : 2018/10/29 - 11:58**
Limit : CISPR_A_00M_AV	**Margin : 0**
EUT : Network Camera	**Probe : ENV216_L1_1044 - Line1**
Power : AC 120V/60Hz	**Note: Mode 1**

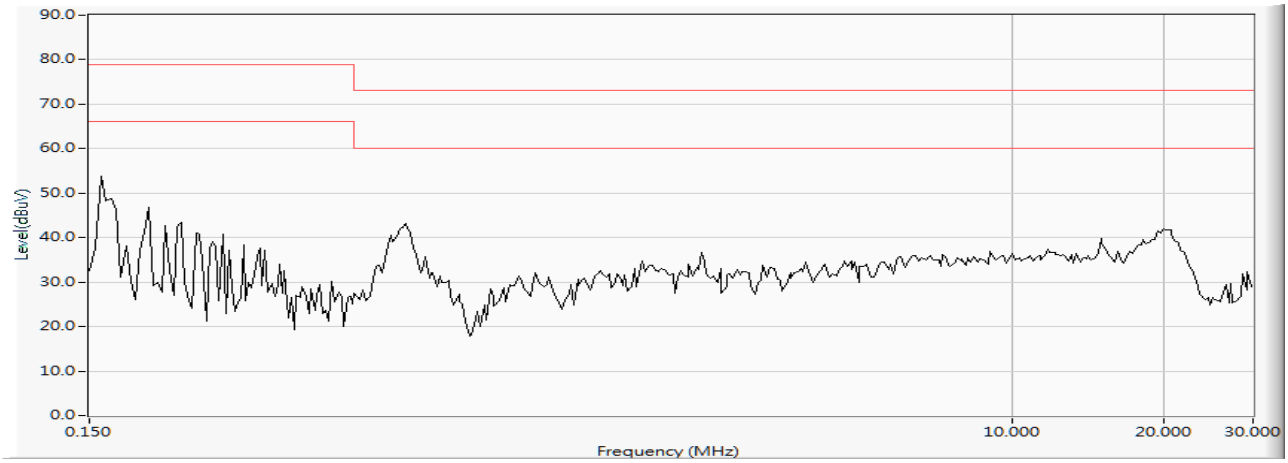


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.170	9.705	22.270	31.975	-34.025	66.000	AVERAGE
2		0.216	9.707	16.130	25.837	-40.163	66.000	AVERAGE
3	*	0.634	9.710	23.860	33.570	-26.430	60.000	AVERAGE
4		1.920	9.771	14.820	24.591	-35.409	60.000	AVERAGE
5		12.943	10.076	11.660	21.736	-38.264	60.000	AVERAGE
6		20.107	10.213	18.130	28.343	-31.657	60.000	AVERAGE

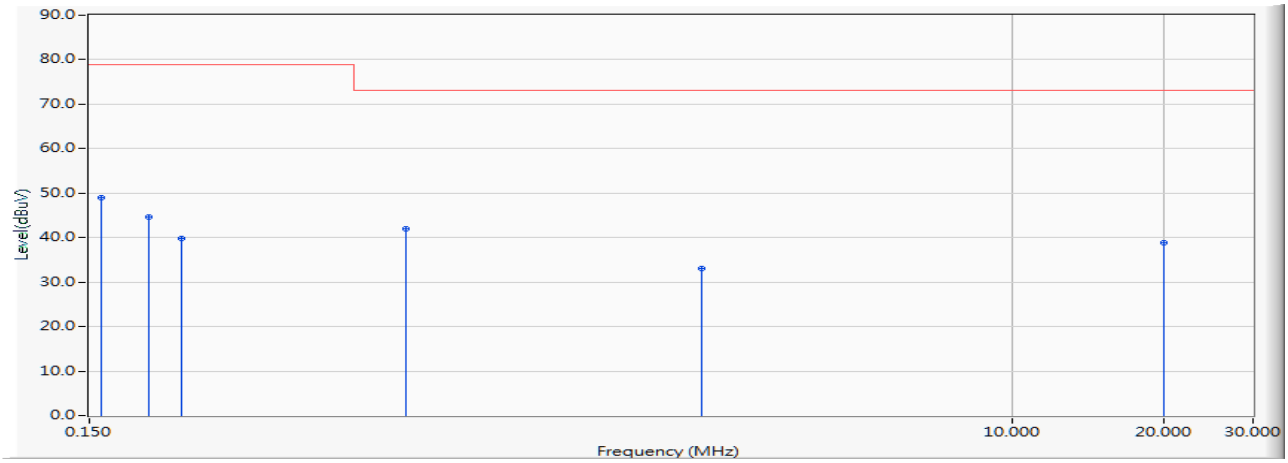
Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor (LISN factor + cable loss).

Site : SR1	**Time : 2018/10/29 - 12:00**
Limit : CISPR_A_00M_QP	**Margin : 13**
EUT : Network Camera	**Probe : ENV216_N_1044 - Line2**
Power : AC 120V/60Hz	**Note: Mode 1**



Site : SR1	**Time : 2018/10/29 - 12:01**
Limit : CISPR_A_00M_QP	**Margin : 0**
EUT : Network Camera	**Probe : ENV216_N_1044 - Line2**
Power : AC 120V/60Hz	**Note: Mode 1**

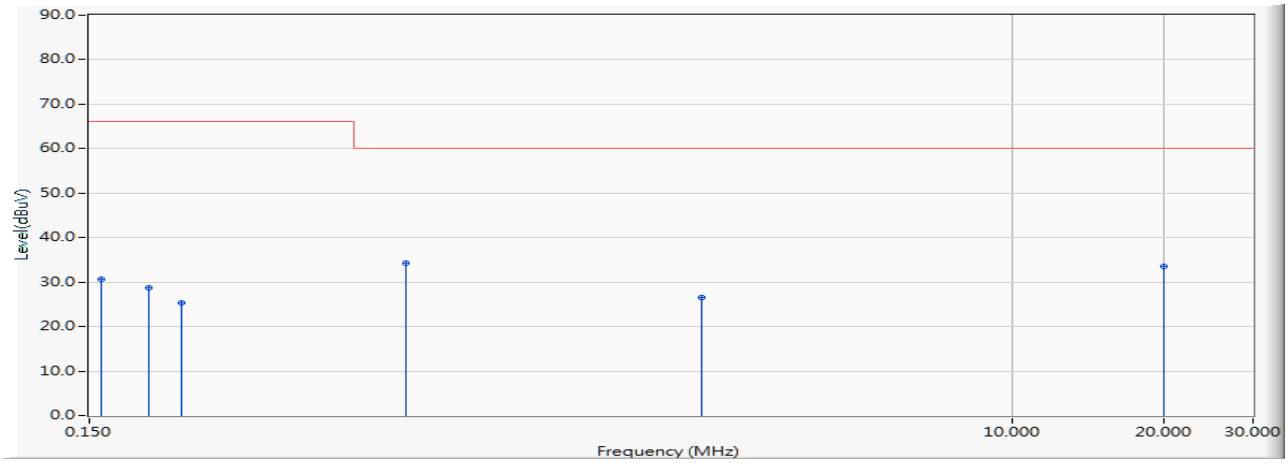


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.158	9.685	39.240	48.925	-30.075	79.000	QUASIPEAK
2		0.197	9.686	34.920	44.606	-34.394	79.000	QUASIPEAK
3		0.228	9.687	30.170	39.857	-39.143	79.000	QUASIPEAK
4		0.634	9.690	32.270	41.960	-31.040	73.000	QUASIPEAK
5		2.439	9.766	23.340	33.106	-39.894	73.000	QUASIPEAK
6		19.927	10.341	28.510	38.851	-34.149	73.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor (LISN factor + cable loss).

Site : SR1	**Time : 2018/10/29 - 12:01**
Limit : CISPR_A_00M_AV	**Margin : 0**
EUT : Network Camera	**Probe : ENV216_N_1044 - Line2**
Power : AC 120V/60Hz	**Note: Mode 1**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.158	9.685	20.840	30.525	-35.475	66.000	AVERAGE
2		0.197	9.686	19.030	28.716	-37.284	66.000	AVERAGE
3		0.228	9.687	15.660	25.347	-40.653	66.000	AVERAGE
4	*	0.634	9.690	24.690	34.380	-25.620	60.000	AVERAGE
5		2.439	9.766	16.860	26.626	-33.374	60.000	AVERAGE
6		19.927	10.341	23.170	33.511	-26.489	60.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor (LISN factor + cable loss).

3.6. Test Photograph

Test Mode : Mode 1: IB9387-EH , DC

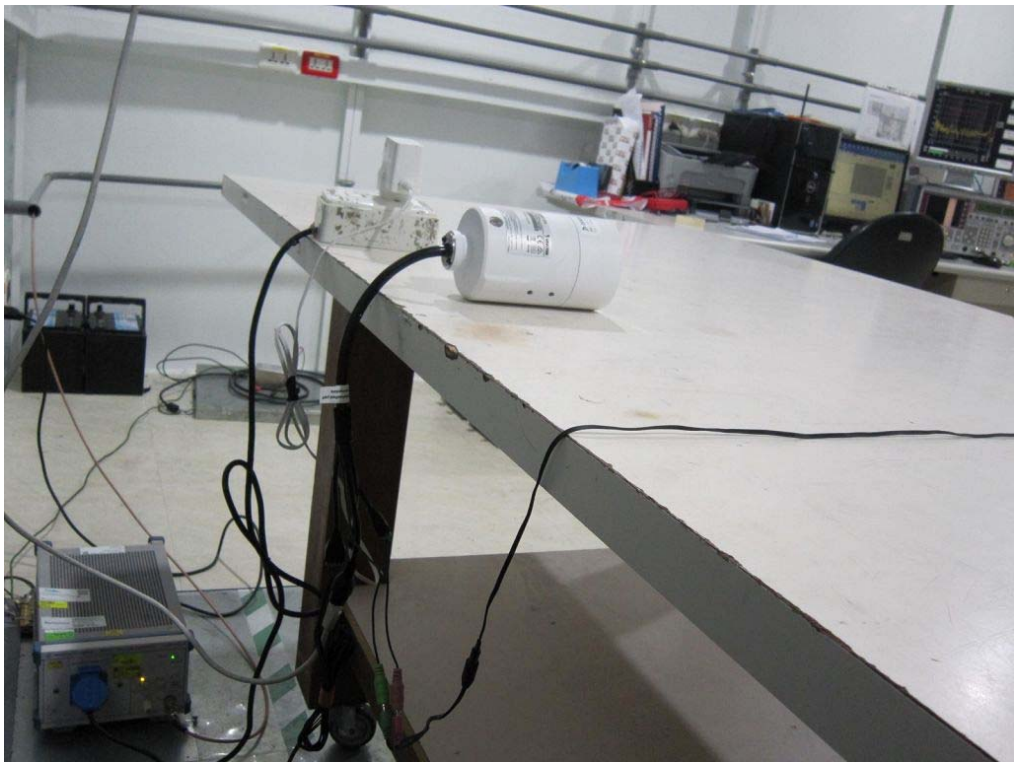
Description : Front View of Conducted Test

Test Mode : Mode 1: IB9387-EH , DC

Description : Back View of Conducted Test

Test Mode : Mode 1: IB9387-EH , DC

Description : Back View of Conducted Test



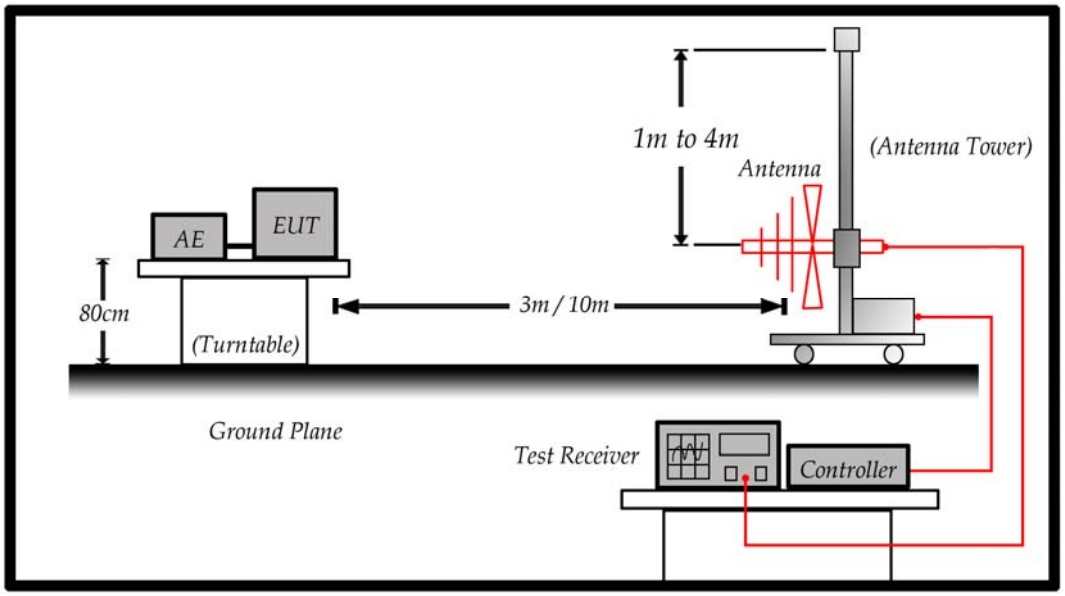
4. Radiated Emission

4.1. Test Specification

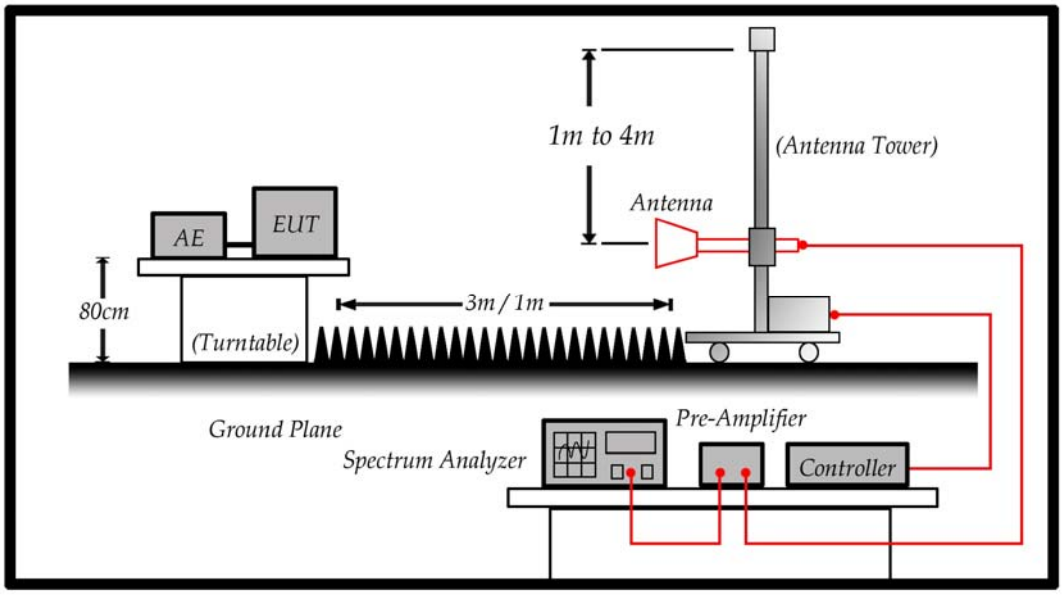
According to EMC Standard : FCC Part 15 Subpart B, ANSI C63.4

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limit

Under 1GHz test shall not exceed the following value:

Limits		
Frequency (MHz)	Distance (m)	dBuV/m
30 – 230	10	40
230 – 1000	10	47

Remark:

1. The tighter limit shall apply at the edge between two frequency bands.
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.

Above 1GHz test shall not exceed the following value:

FCC Part 15 Subpart B Paragraph 15.109 Limits (dBuV/m)		
Frequency (MHz)	Distance(m)	dBuV/m
30-88	10	39
88-216	10	43.5
216-960	10	46.4
Above 960	10	49.5
1000 to 18000	3	59.5
Above 18000	1	69.54

Remark:

1. The tighter limit shall apply at the edge between two frequency bands.
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. RF Voltage (dBuV/m) = 20 log RF Voltage (uV/m)

4.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground.

The turn table can rotate 360 degrees to determine the position of the maximum emission level and the antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated on radiated measurement.

For an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the folowing table:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5^{th} harmonic of the highest frequency or 40 GHz, whichever is lower

On any frequency or frequencies below or equal to 1000 MHz, the radiated limits shown are based on measuring equipment employing a quasi-peak detector function and above 1000 MHz, the radiated limits shown are based measuring equipment employing an average detector function.

When average radiated emission measurement are included emission measurement Above 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

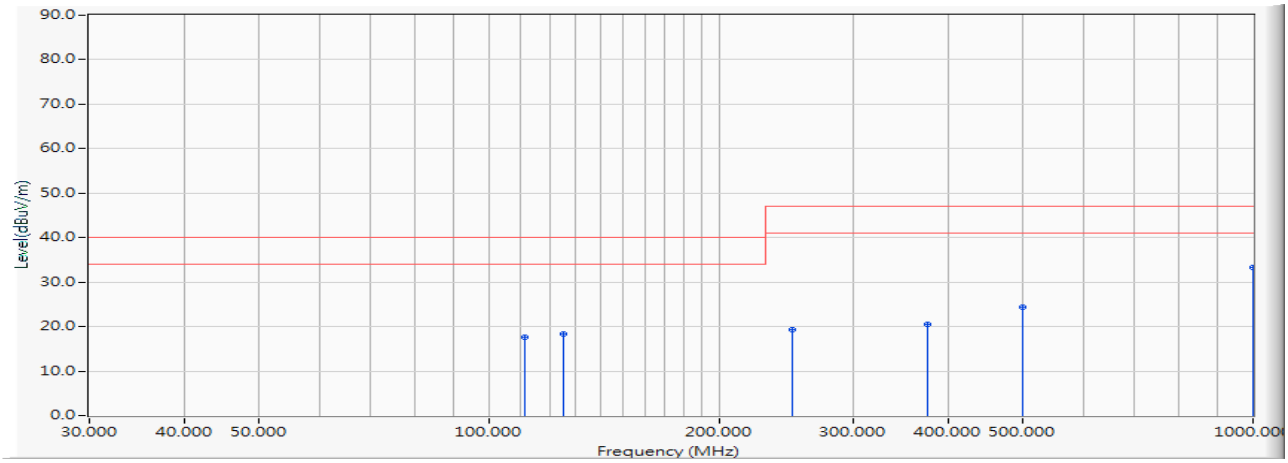
For class A, the measurement distance between the EUT and antenna is 10 meters for under 1GHz and above 1GHz.

For class B, the measurement distance between the EUT and antenna is 10 meters for under 1GHz and 3 meters for above 1GHz.

The bandwidth below 1GHz setting on the field strength meter (R&S Test Receiver ESCS 30) is 120 kHz and above 1GHz is 1MHz.

4.5. Test Result

Site : SITE7	**Time : 2018/10/29 - 19:39**
Limit : CISPR_A_10M_QP	**Margin : 6**
EUT : Network Camera	**Probe : Site7_VULB9168_10m_1804 - HORIZONTAL**
Power : AC 120V/60Hz	**Note: Mode 1**

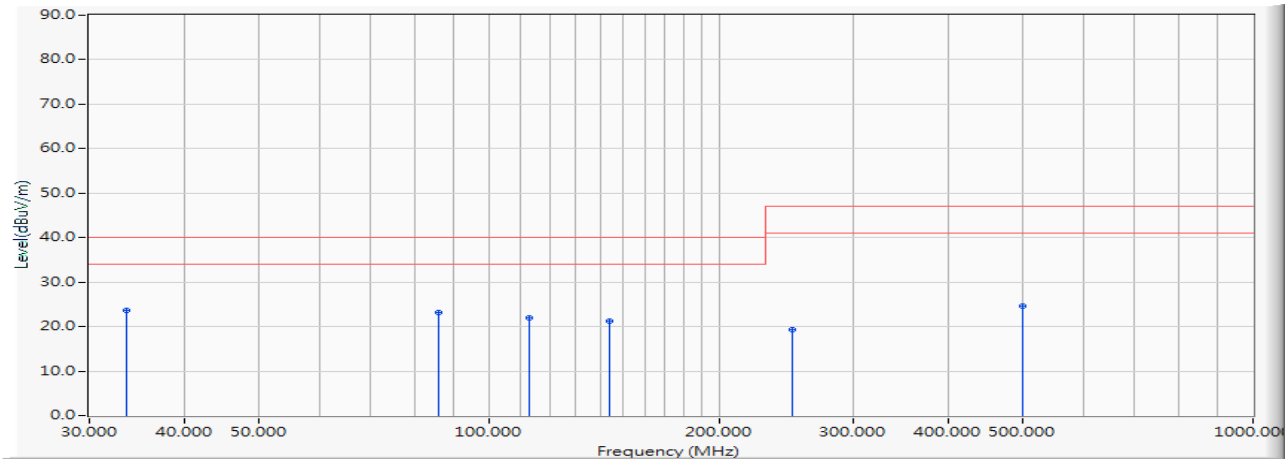


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		111.300	-13.829	31.400	17.571	-22.429	40.000	QUASIPEAK	390.000	-51.000
2		125.000	-12.407	30.800	18.394	-21.606	40.000	QUASIPEAK	390.000	-49.000
3		250.000	-10.388	29.600	19.212	-27.788	47.000	QUASIPEAK	370.000	66.000
4		375.000	-5.843	26.300	20.457	-26.543	47.000	QUASIPEAK	300.000	-102.000
5		500.000	-1.909	26.200	24.291	-22.709	47.000	QUASIPEAK	200.000	-59.000
6	*	1000.000	7.730	25.500	33.230	-13.770	47.000	QUASIPEAK	100.000	-47.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor (ant factor + cable loss - amp).

Site : SITE7	**Time : 2018/10/29 - 19:39**
Limit : CISPR_A_10M_QP	**Margin : 6**
EUT : Network Camera	**Probe : Site7_VULB9168_10m_1804 - VERTICAL**
Power : AC 120V/60Hz	**Note: Mode 1**

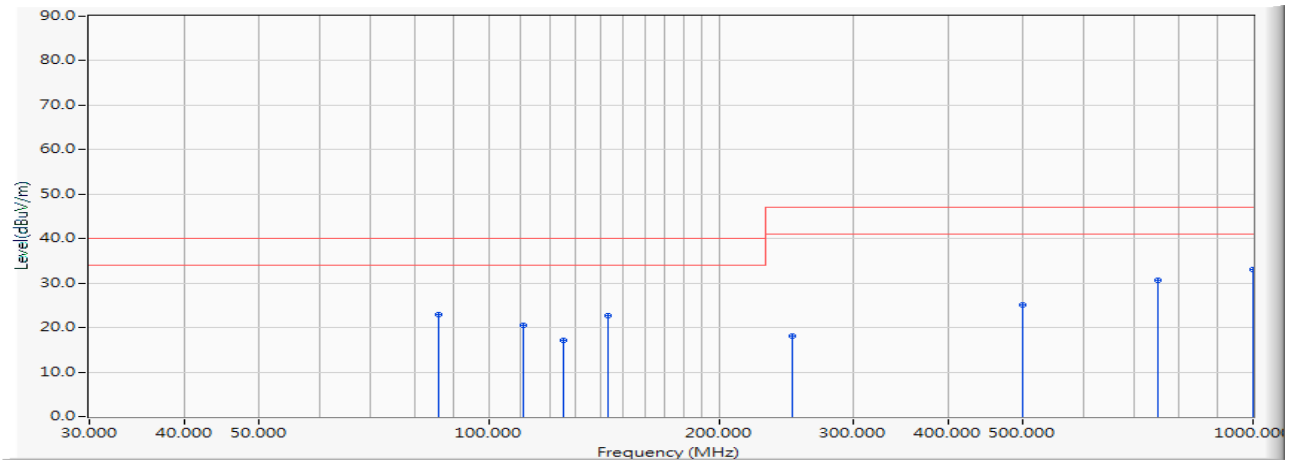


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	33.600	-12.850	36.600	23.750	-16.250	40.000	QUASIPEAK	100.000	-51.000
2		86.000	-16.384	39.600	23.217	-16.783	40.000	QUASIPEAK	100.000	-47.000
3		113.000	-13.653	35.600	21.947	-18.053	40.000	QUASIPEAK	100.000	86.000
4		143.600	-10.674	31.800	21.126	-18.874	40.000	QUASIPEAK	100.000	69.000
5		250.000	-10.388	29.600	19.212	-27.788	47.000	QUASIPEAK	100.000	-21.000
6		500.000	-1.909	26.400	24.491	-22.509	47.000	QUASIPEAK	300.000	-48.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor (ant factor + cable loss - amp).

Site : SITE7	**Time : 2018/10/29 - 17:09**
Limit : CISPR_A_10M_QP	**Margin : 6**
EUT : Network Camera	**Probe : Site7_VULB9168_10m_1804 - HORIZONTAL**
Power : By PoE	**Note: Mode 2**

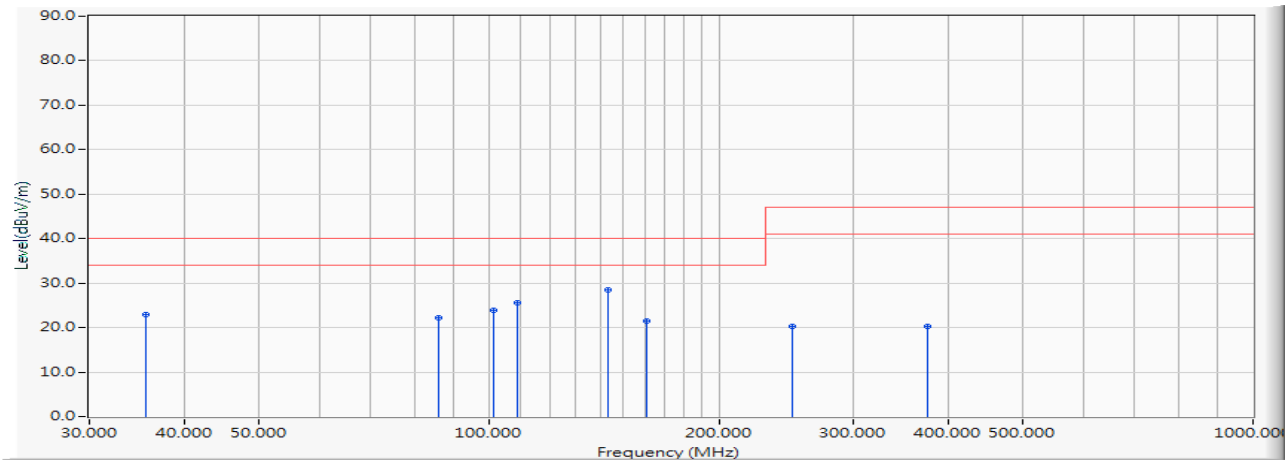


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		86.040	-16.387	39.300	22.913	-17.087	40.000	QUASIPEAK	400.000	67.000
2		110.700	-13.890	34.300	20.410	-19.590	40.000	QUASIPEAK	400.000	-47.000
3		125.000	-12.407	29.600	17.194	-22.806	40.000	QUASIPEAK	400.000	-4.000
4		143.300	-10.692	33.300	22.608	-17.392	40.000	QUASIPEAK	400.000	62.000
5		250.000	-10.388	28.500	18.112	-28.888	47.000	QUASIPEAK	360.000	67.000
6		500.000	-1.909	27.000	25.091	-21.909	47.000	QUASIPEAK	200.000	-134.000
7		750.000	4.566	26.000	30.565	-16.435	47.000	QUASIPEAK	130.000	-23.000
8	*	1000.000	7.730	25.400	33.130	-13.870	47.000	QUASIPEAK	100.000	114.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor (ant factor + cable loss - amp).

Site : SITE7	**Time : 2018/10/29 - 17:09**
Limit : CISPR_A_10M_QP	**Margin : 6**
EUT : Network Camera	**Probe : Site7_VULB9168_10m_1804 - VERTICAL**
Power : By PoE	**Note: Mode 2**

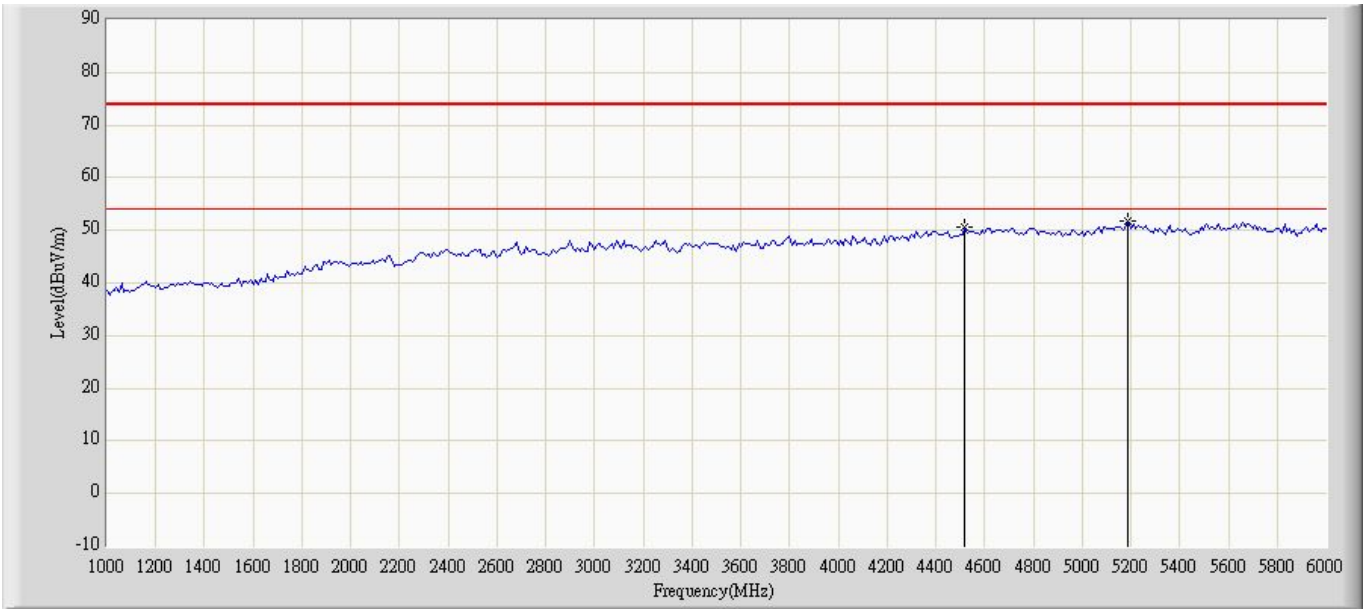


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		35.600	-12.663	35.600	22.937	-17.063	40.000	QUASIPEAK	100.000	96.000
2		86.080	-16.392	38.600	22.209	-17.791	40.000	QUASIPEAK	100.000	-4.000
3		101.200	-15.326	39.200	23.874	-16.126	40.000	QUASIPEAK	100.000	108.000
4		108.800	-14.152	39.800	25.648	-14.352	40.000	QUASIPEAK	100.000	62.000
5	*	143.200	-10.698	39.100	28.402	-11.598	40.000	QUASIPEAK	100.000	63.000
6		161.100	-10.132	31.600	21.467	-18.533	40.000	QUASIPEAK	100.000	-58.000
7		250.000	-10.388	30.600	20.212	-26.788	47.000	QUASIPEAK	100.000	-47.000
8		375.000	-5.843	26.000	20.157	-26.843	47.000	QUASIPEAK	100.000	64.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor (ant factor + cable loss - amp).

Site: CB7	Time: 2018/10/30 - 19:51
Limit: FCC_B_(Above_1G)	Margin: 0
Probe: CB7_Horn_3117_1808	Polarity: Horizontal
EUT : Network Camera	Power: AC 120V/60Hz
Note: Mode 1	

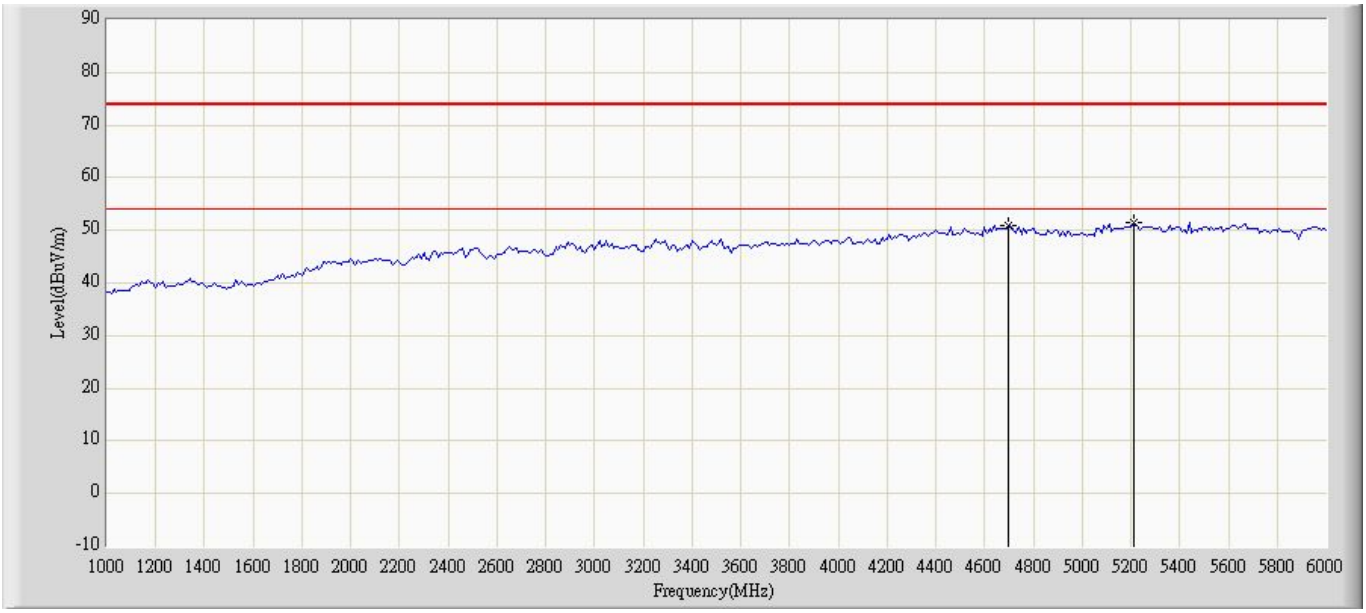


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Ant Pos (cm)	Table Pos (deg)	Type
1			4520.000	50.611	34.971	-23.389	74.000	15.641	100	91	PK
2		*	5190.000	51.794	35.505	-22.206	74.000	16.289	100	-169	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor (ant factor + cable loss - amp).

Site: CB7	Time: 2018/10/30 - 19:54
Limit: FCC_B_(Above_1G)	Margin: 0
Probe: CB7_Horn_3117_1808	Polarity: Vertical
EUT : Network Camera	Power: AC 120V/60Hz
Note: Mode 1	

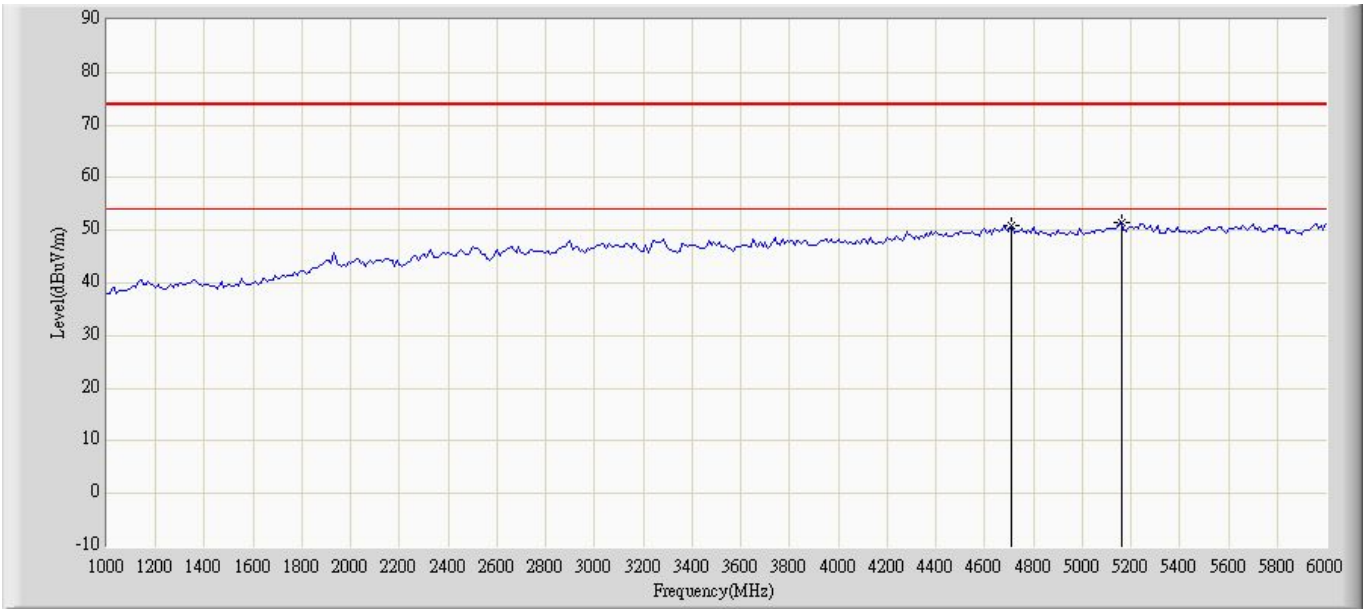


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Ant Pos (cm)	Table Pos (deg)	Type
1			4700.000	50.914	35.275	-23.086	74.000	15.638	100	195	PK
2		*	5210.000	51.579	35.237	-22.421	74.000	16.342	100	-133	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor (ant factor + cable loss - amp).

Site: CB7	Time: 2018/10/30 - 20:14
Limit: FCC_B_(Above_1G)	Margin: 0
Probe: CB7_Horn_3117_1808	Polarity: Horizontal
EUT : Network Camera	Power : By PoE
Note: Mode 2	

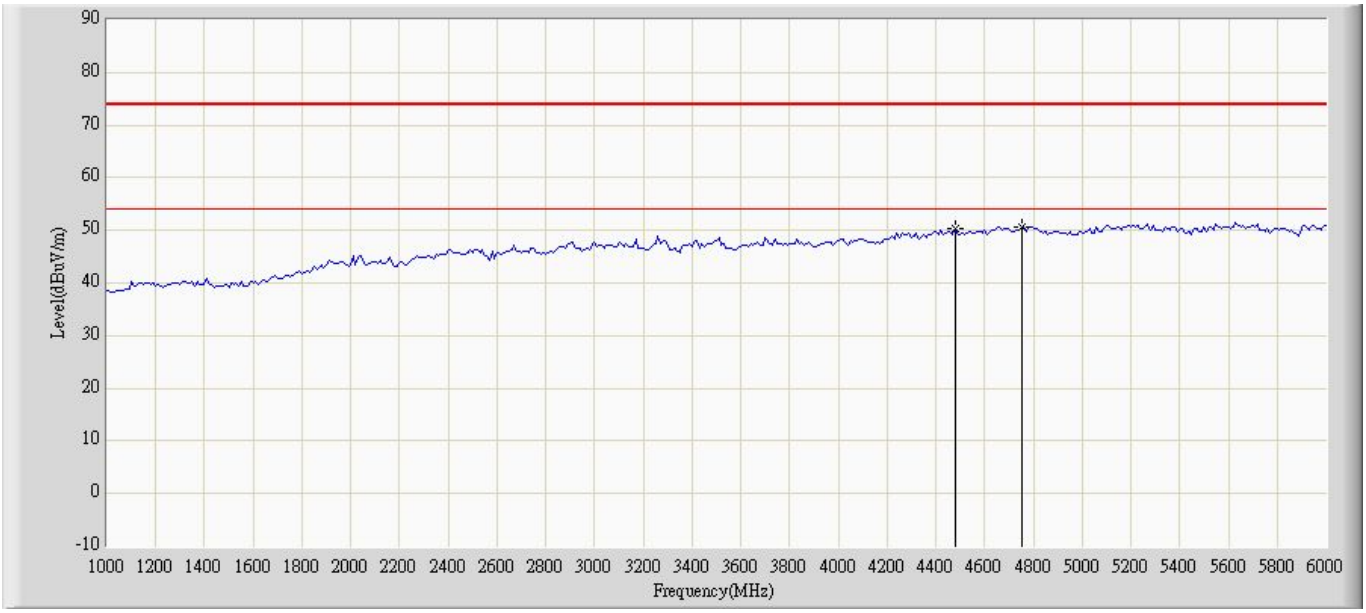


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Ant Pos (cm)	Table Pos (deg)	Type
1			4710.000	50.868	35.251	-23.132	74.000	15.616	100	-196	PK
2		*	5160.000	51.358	35.174	-22.642	74.000	16.184	100	38	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor (ant factor + cable loss - amp).

Site: CB7	Time: 2018/10/30 - 20:17
Limit: FCC_B_(Above_1G)	Margin: 0
Probe: CB7_Horn_3117_1808	Polarity: Vertical
EUT : Network Camera	Power : By PoE
Note: Mode 2	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Ant Pos (cm)	Table Pos (deg)	Type
1			4480.000	50.444	34.843	-23.556	74.000	15.600	100	-123	PK
2		*	4750.000	50.763	35.008	-23.237	74.000	15.755	100	-52	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor (ant factor + cable loss - amp).

4.6. Test Photograph

Test Mode : Mode 1: IB9387-EH , DC

Description : Front View of Radiated Test

Test Mode : Mode 1: IB9387-EH , DC

Description : Back View of Radiated Test

Test Mode : Mode 1: IB9387-EH , DC

Description : Front View of High Frequency Radiated Test

Test Mode : Mode 2: IB9387-EH , PoE

Description : Front View of Radiated Test

Test Mode : Mode 2: IB9387-EH , PoE

Description : Back View of Radiated Test

Test Mode : Mode 2: IB9387-EH , PoE

Description : Back View of Radiated Test

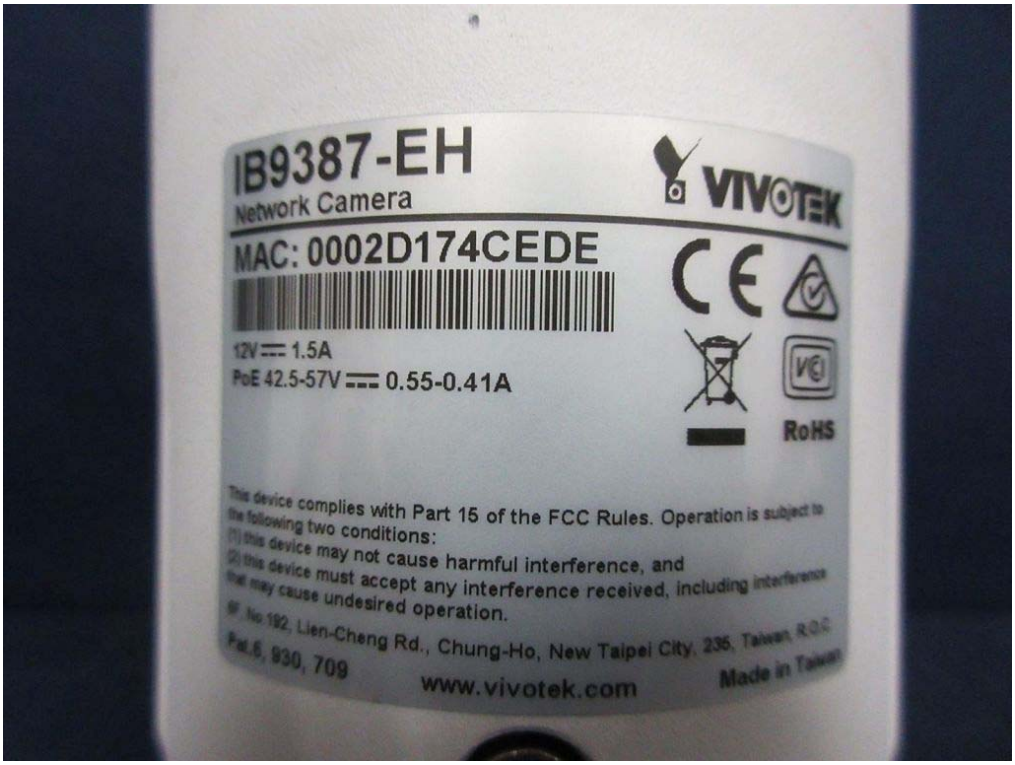
5. Attachment

➢ EUT Photograph

(1) EUT Photo _M/N: IB9387-EH

(2) EUT Photo _M/N: IB9387-EH

(3) EUT Photo _M/N: IB9387-EH



(4) EUT Photo _M/N: IB9387-H

(5) EUT Photo _M/N: IB9387-H

(6) EUT Photo _M/N: IB9387-H