



# **FCC Test Report**

## **FCC ID: 2AEF6I9812**

**Product:** WIFI CAMERA  
**Trade Mark:** N/A  
**Model Number:** I9812  
**Serial Model:** N/A  
**Report No.:** NTEK-2017NT02091402F2

**Prepared for**

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**Prepared by**

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## TEST RESULT CERTIFICATION

**Applicant's name** ..... : Shenzhen Hsmartlink Technology Co., Ltd.  
**Address** ..... : 5th Floor,13Block, Nangang 2nd Industrial Park, Songbai  
 Rd.1026, Xili,Nanshan District 518055 Shenzhen, China  
**Manufacturer's Name** ..... : Shenzhen Hsmartlink Technology Co., Ltd.  
**Address** ..... : 5th Floor,13Block, Nangang 2nd Industrial Park, Songbai  
 Rd.1026, Xili,Nanshan District 518055 Shenzhen, China

### Product description

**Product name**..... : WIFI CAMERA  
**Model and/or type reference** : I9812  
 FCC Part15B:01 Oct.2016  
**Standards**..... : ANSI C63.4:2014

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with Part 15 of FCC Rules. And it is applicable only to the tested sample identified in the report.

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**Date of Test** ..... :  
**Date (s) of performance of tests**..... : 09 Feb. 2017 ~18 Feb. 2017  
**Date of Issue**..... : 18 Feb. 2017  
**Test Result**..... : **Pass**

Testing Engineer : Lebron Wang  
 (Lebron Wang)

Technical Manager : Jason Chen  
 (Jason Chen)

Authorized Signatory : Sam. Chen  
 (Sam Chen)

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## 1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission				
Standard	Test Item	Limit	Judgment	Remark
FCC Part15B:01 Oct.2016 ANSI C63.4: 2014	Conducted Emission	Class B	PASS	
	Radiated Emission	Class B	PASS	

### NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report
- (2) For client's request and manual description, the test will not be executed.

## 1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

Add. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

FCC Registration Number:238937; IC Registration Number:9270A-1

CNAS Registration Number:L5516

## 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately **95** %.

### A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	3.2	

### B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKA01	ANSI	30MHz ~ 1000MHz	4.7	
		1GHz ~12.4GHz	5.0	

## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

Equipment	WIFI CAMERA	
Trade Mark	N/A	
Model Name	I9812	
Serial Model	N/A	
Model Difference	N/A	
Product Description	The EUT is a WIFI CAMERA.	
	Connecting I/O port:	USB, DC in
	Operation Frequency:	2412-2462MHz for 802.11b/g/11n(HT20); 2422-2452MHz for 802.11n(HT40);
	Modulation Type:	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;
Power Source	DC 5V from USB Port.	
Adapter	N/A	
Battery	N/A	
HW Version	HSL_A73_RF433_MBCE_V1.0	
SW Version	E10.9.1.16.45E	

## 2.1.1 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	WIFI

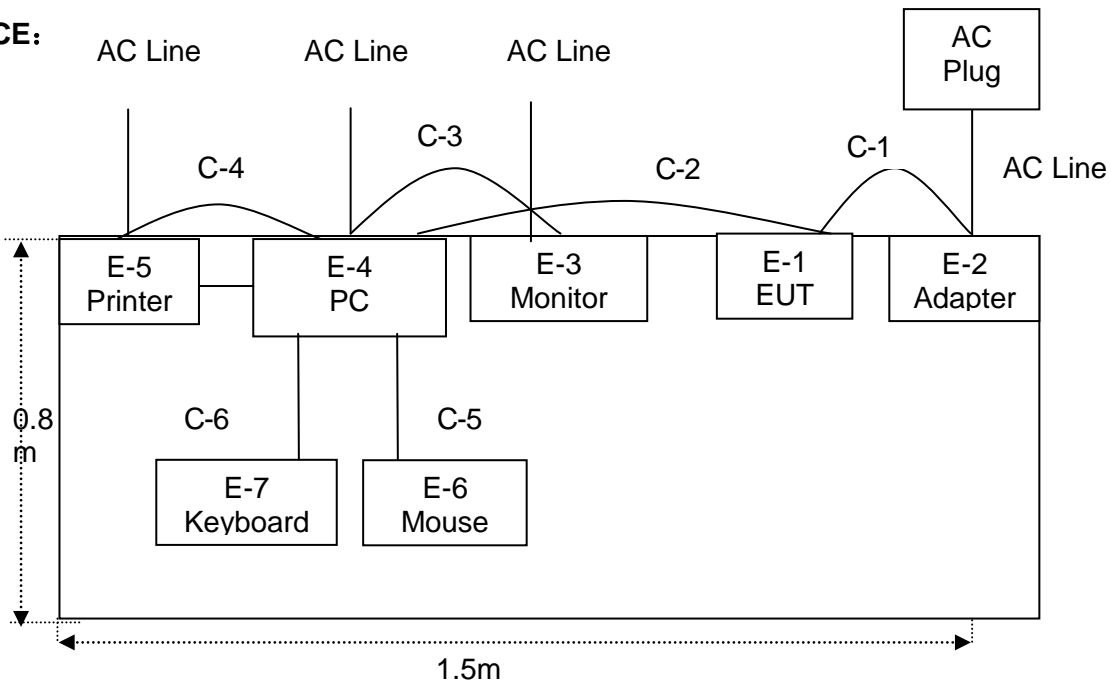
For Conducted Test	
Final Test Mode	Description
Mode 1	WIFI

For Radiated Test	
Final Test Mode	Description
Mode 1	WIFI

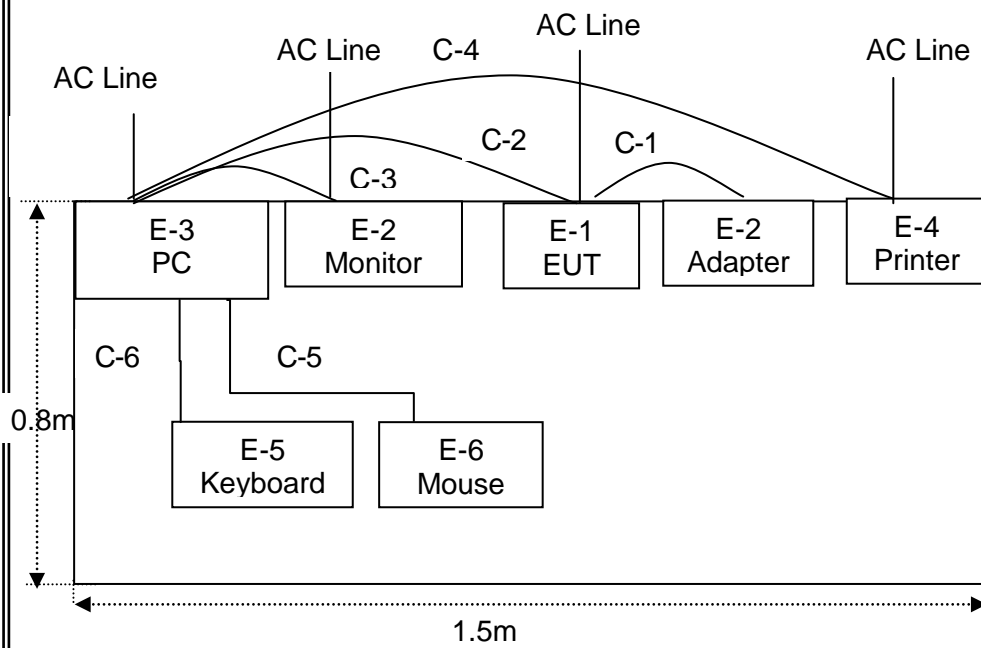
Note: Final Test Mode: Through Pre-scan, find the mode 1 is the worst case.  
Only the worst case mode is recorded in the report.

## 2.2 DESCRIPTION OF TEST SETUP

CE:



RE:





## 2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
E-1	WIFI CAMERA	N/A	I9812	N/A	EUT
E-2	Adapter	N/A	GDP12AV-0501500-UL	N/A	Peripherals
E-3	Monitor	DELL	IN2020MB	cn-0y6mhx-74261-11f-67es	Peripherals
E-4	PC	DELL	FT4Y23X	34413561645	Peripherals
E-5	Printer	Canon	L11121E	LBP2900	Peripherals
E-6	Mouse	DELL	MS111-P	cn-011d3v-71581-11e-1th7	Peripherals
E-7	Keyboard	DELL	SK-8185	OY526KUS	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	NO	NO	1.0m	
C-2	RJ45 Cable	NO	NO	1.0m	
C-3	VGA Cable	NO	NO	1.2m	
C-4	USB Cable	NO	NO	1.2m	
C-5	USB Cable	NO	NO	1.2m	
C-6	USB cable	NO	NO	1.2m	

### Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” means “shielded” “with core”; “NO” means “unshielded” “without core”.

## 2.4 MEASUREMENT INSTRUMENTS LIST

### Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2016.07.06	2017.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2016.06.07	2017.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2016.07.06	2017.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2016.06.07	2017.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2016.06.07	2017.06.06	1 year
6	Horn Antenna	EM	EM-AH-10180	2011071402	2016.07.06	2017.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2016.07.06	2017.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2016.07.06	2017.07.05	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2016.06.08	2017.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2016.07.06	2017.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619.05	2016.07.06	2017.07.05	1 year
12	Test Cable	N/A	R-01	N/A	2016.07.06	2017.07.05	1 year
13	Test Cable	N/A	R-02	N/A	2016.07.06	2017.07.05	1 year

### Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2016.06.06	2017.06.05	1 year
2	LISN	R&S	ENV216	101313	2016.08.24	2017.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2016.08.24	2017.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2016.06.07	2017.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2016.06.07	2017.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2016.06.08	2017.06.07	1 year
7	Test Cable	N/A	C01	N/A	2016.06.08	2017.06.07	1 year
8	Test Cable	N/A	C02	N/A	2016.06.08	2017.06.07	1 year
9	Test Cable	N/A	C03	N/A	2016.06.08	2017.06.07	1 year

### 3. EMC EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

##### 3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

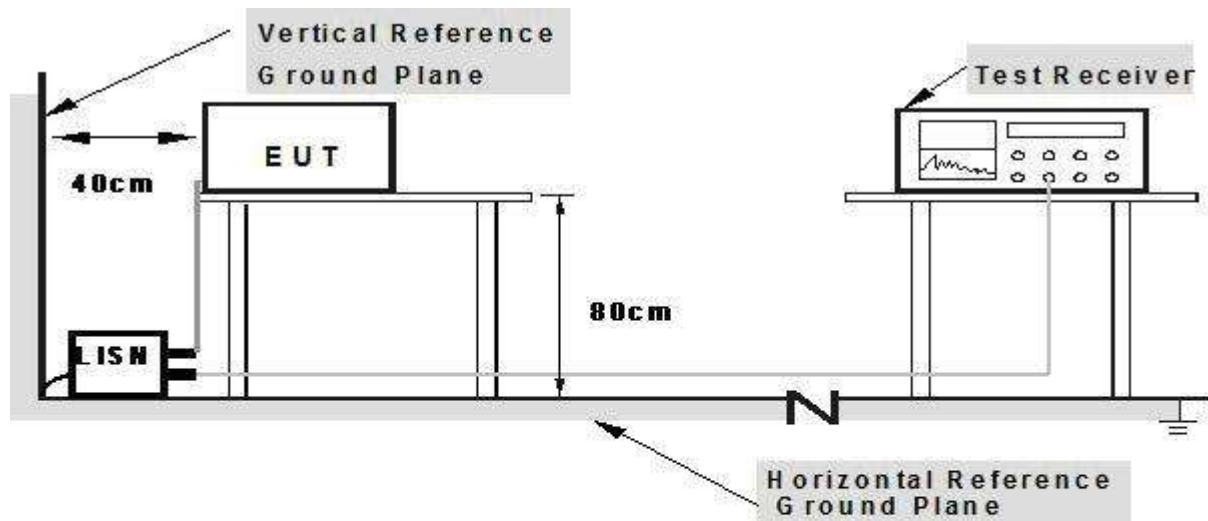
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

### 3.1.2 TEST PROCEDURE

- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

### 3.1.3 TEST SETUP



**Note: 1. Support units were connected to second LISN.**

**2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes**

### 3.1.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

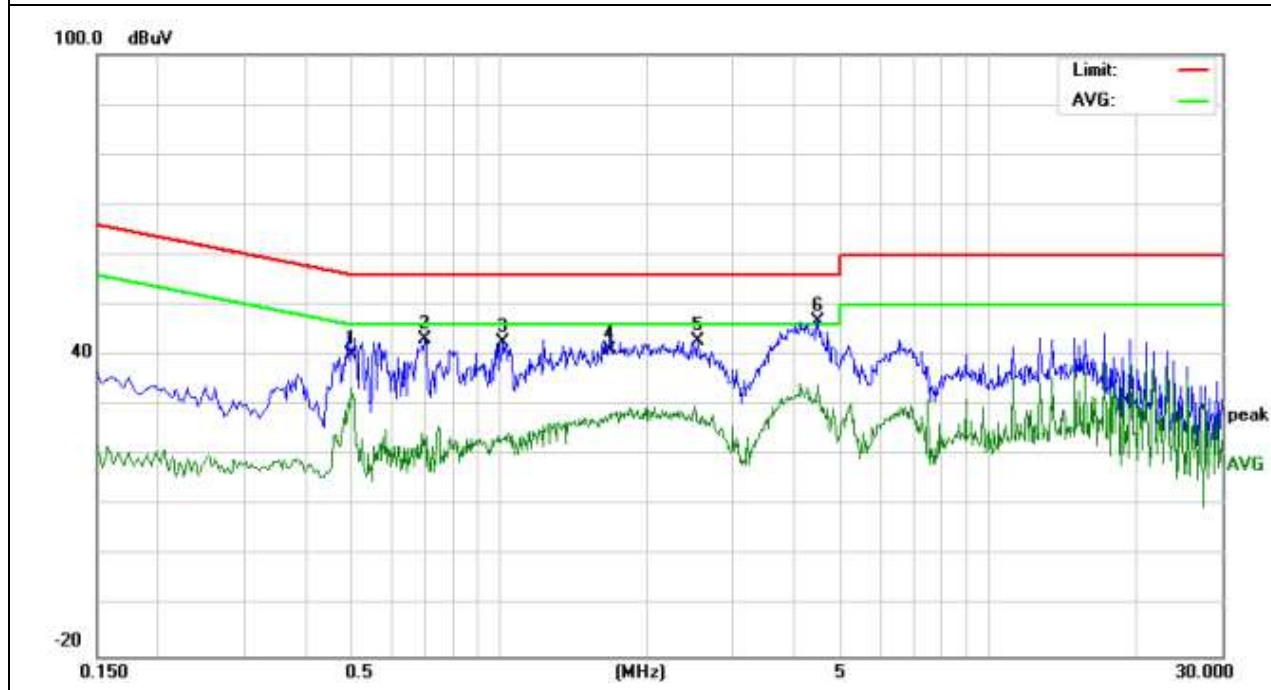
### 3.1.5 TEST RESULTS

EUT:	WIFI CAMERA	Model Name. :	I9812
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2017-2-09
Test Mode:	Mode 1	Phase :	L
Test Voltage:	DC 5V from USB AC 120V/60Hz		

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.498	30.30	9.84	40.14	56.03	-15.89	QP
0.498	23.69	9.84	33.53	46.03	-12.50	AVG
0.702	33.35	9.77	43.12	56.00	-12.88	QP
0.702	15.83	9.77	25.60	46.00	-20.40	AVG
1.018	32.82	9.76	42.58	56.00	-13.42	QP
1.018	17.05	9.76	26.81	46.00	-19.19	AVG
1.674	31.43	9.76	41.19	56.00	-14.81	QP
1.674	19.24	9.76	29.00	46.00	-17.00	AVG
2.545	33.16	9.76	42.92	56.00	-13.08	QP
2.545	19.74	9.76	29.50	46.00	-16.50	AVG
4.462	37.03	9.78	46.81	56.00	-9.19	QP
4.462	23.12	9.78	33.05	46.00	-12.95	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

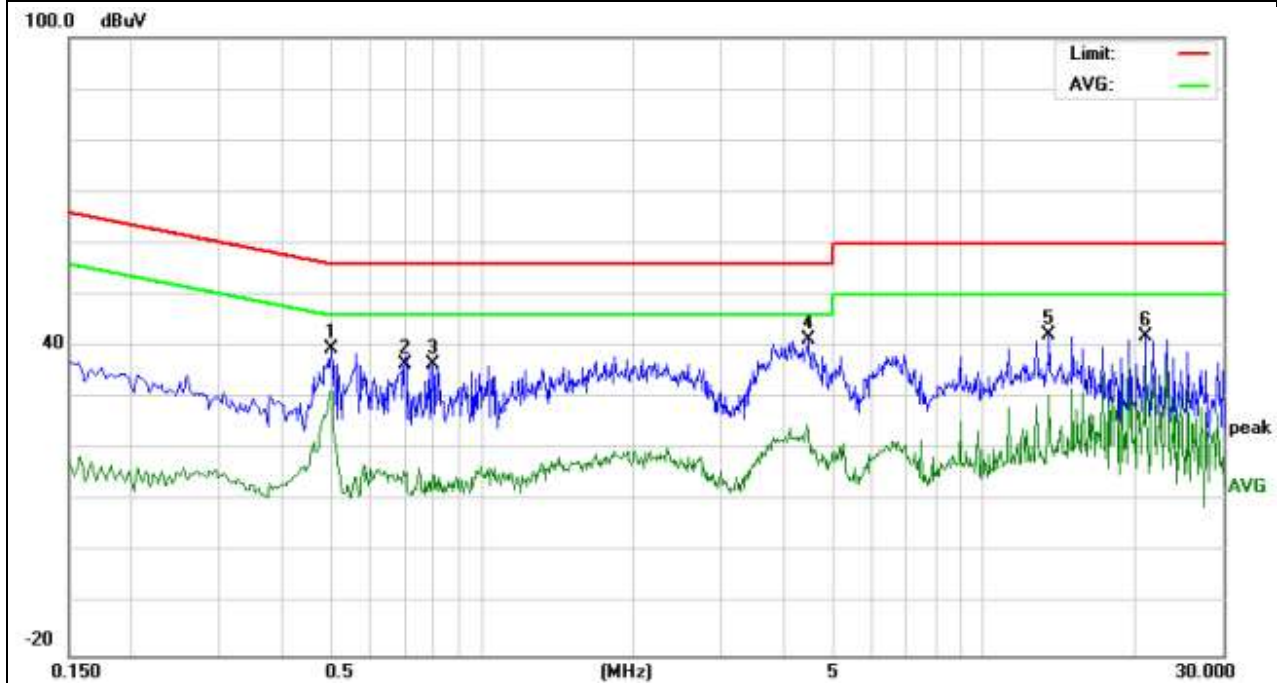


EUT:	WIFI CAMERA	Model Name. :	I9812
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2017-2-09
Test Mode:	Mode 1	Phase :	N
Test Voltage:	DC 5V from USB AC 120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.502	29.84	9.85	39.69	56.00	-16.31	QP
0.502	21.57	9.85	31.42	46.00	-14.58	AVG
0.702	26.85	9.77	36.62	56.00	-19.38	QP
0.702	6.55	9.77	16.32	46.00	-29.68	AVG
0.798	26.79	9.76	36.55	56.00	-19.45	QP
0.798	6.18	9.76	15.94	46.00	-30.06	AVG
4.454	31.53	9.79	41.32	56.00	-14.68	QP
4.454	15.05	9.79	24.84	46.00	-21.16	AVG
13.494	32.22	9.94	42.16	60.00	-17.84	QP
13.494	20.52	9.87	30.39	50.00	-19.61	AVG
20.994	31.74	10.12	41.86	60.00	-18.14	QP
20.994	26.32	10.11	36.43	50.00	-13.57	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

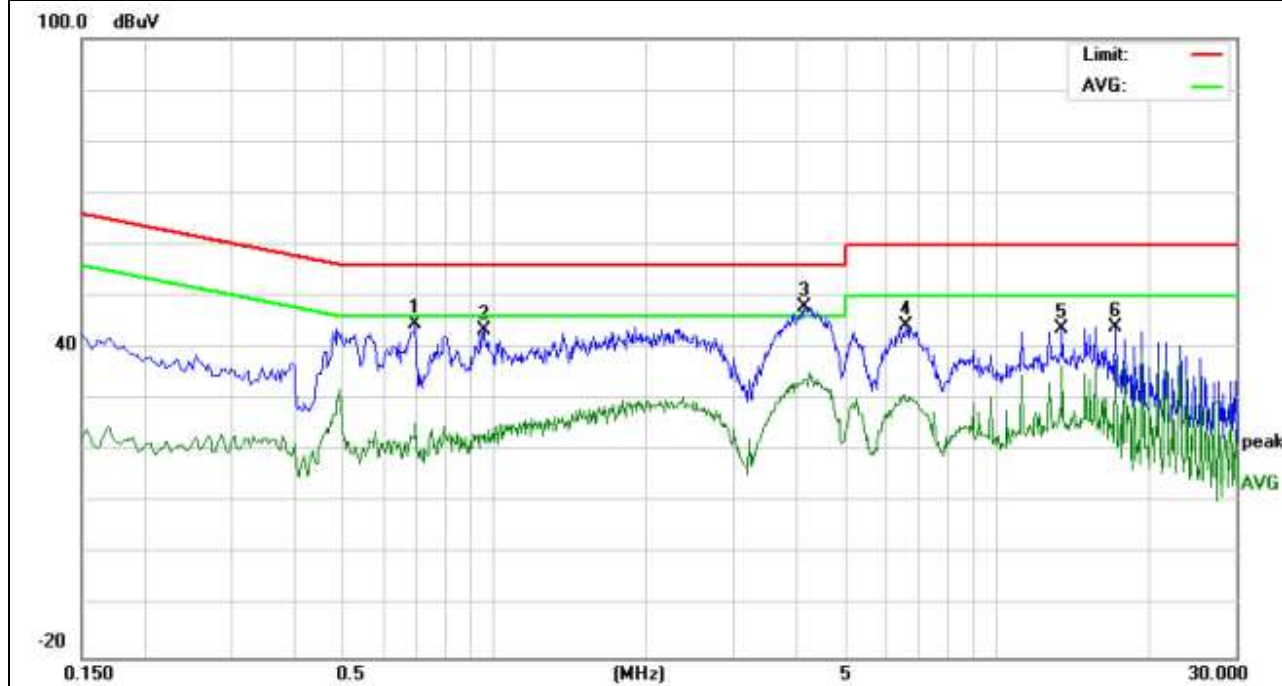


EUT:	WIFI CAMERA	Model Name. :	I9812
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2017-2-09
Test Mode:	Mode 1	Phase :	L
Test Voltage:	DC 5V from USB AC 240V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.694	34.76	9.77	44.53	56.00	-11.47	QP
0.694	15.59	9.77	25.36	46.00	-20.64	AVG
0.950	33.55	9.76	43.31	56.00	-12.69	QP
0.950	13.83	9.76	23.59	46.00	-20.64	AVG
4.154	38.04	9.78	47.82	56.00	-8.18	QP
4.154	23.55	9.78	34.33	46.00	-22.67	AVG
6.622	34.37	9.83	44.20	60.00	-15.80	QP
6.622	20.83	9.83	30.66	50.00	-19.34	AVG
13.494	33.78	9.92	43.70	60.00	-16.30	QP
13.494	28.69	9.92	38.61	50.00	-11.39	AVG
17.242	33.98	10.08	44.06	60.00	-15.94	QP
17.242	28.61	10.23	38.84	50.00	-11.16	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.





EUT:	WIFI CAMERA	Model Name. :	I9812
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2017-2-09
Test Mode:	Mode 1	Phase :	N
Test Voltage:	DC 5V from USB AC 240V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.506	25.69	9.85	35.54	56.00	-20.46	QP
0.506	23.68	9.85	33.80	46.00	-12.20	AVG
1.662	29.40	9.76	39.16	56.00	-16.84	QP
1.662	10.98	9.76	20.84	46.00	-25.16	AVG
4.030	33.25	9.79	43.04	56.00	-12.96	QP
4.030	16.37	9.79	26.16	46.00	-19.84	AVG
7.046	29.64	9.84	39.48	60.00	-20.52	QP
7.046	12.69	9.84	22.53	50.00	-27.47	AVG
13.498	32.25	9.94	42.19	60.00	-20.52	QP
13.498	21.14	9.94	31.08	50.00	-18.92	AVG
14.994	32.06	9.96	42.02	60.00	-17.98	QP
14.994	19.27	9.96	29.23	50.00	-20.77	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.





## 3.2 RADIATED EMISSION MEASUREMENT

### 3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 3m)
	dBuV/m	dBuV/m
30 ~ 88	39.0	40.0
88 ~ 216	43.5	43.5
216 ~ 960	46.5	46.0
Above 960	49.5	54.0

Notes:

- (1) The limit for radiated test was performed according to as following:  
FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

### 3.2.2 TEST PROCEDURE

#### Test Arrangement for Radiated Emissions up to 1 GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited test facility. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for quasi-peak detection (QP) at frequency below 1GHz.

#### Test Arrangement for Radiated Emissions above 1 GHz.

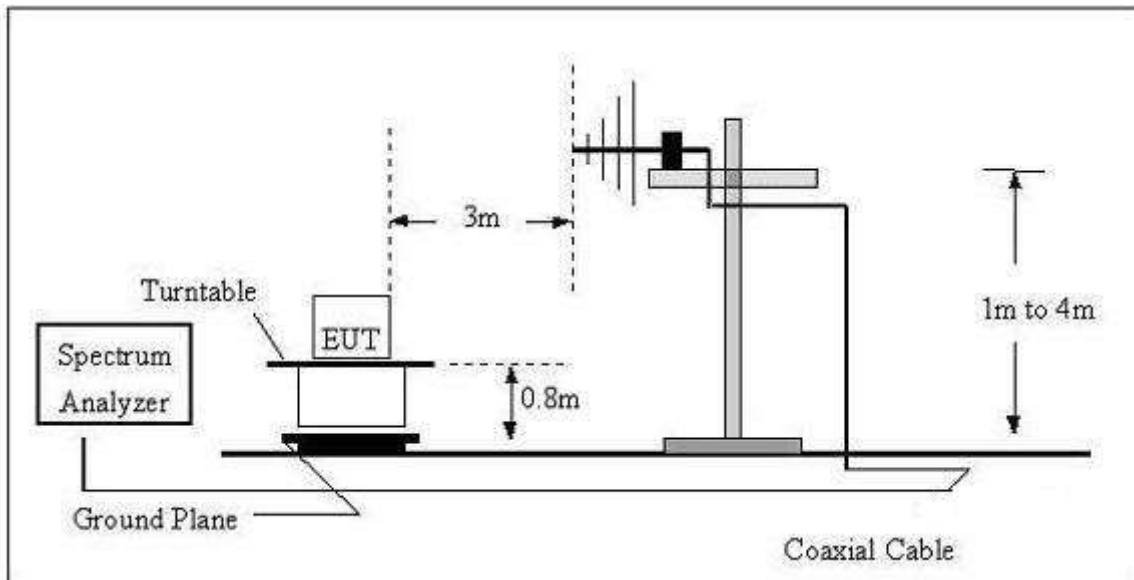
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Note: For the hand-held device, the EUT should be measured for all 3 axes and only the worst case is recorded in the report  
During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

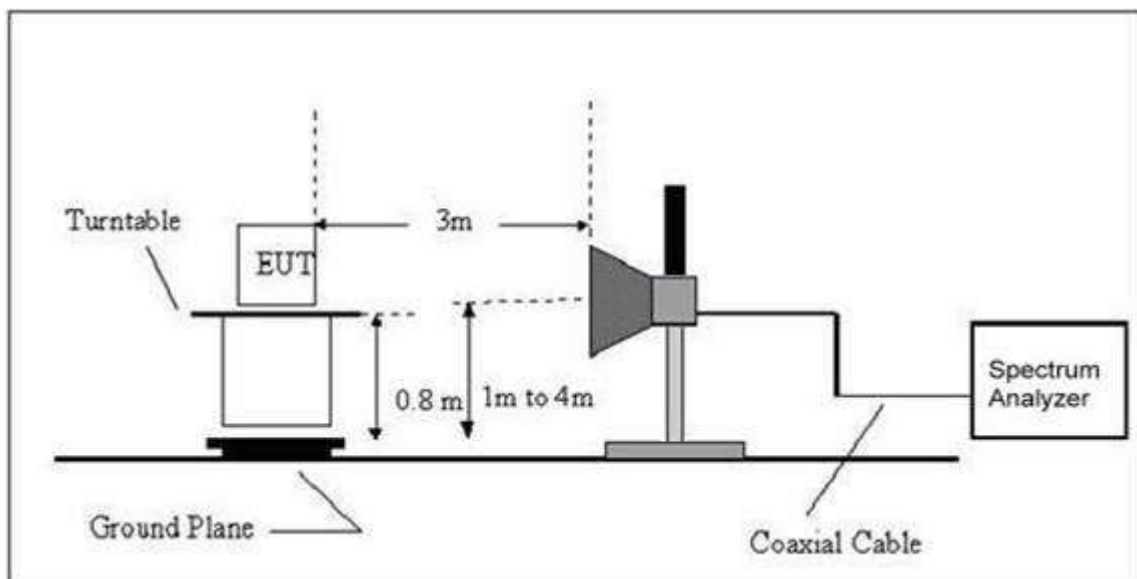
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Avg	1 MHz	10 Hz

### 3.2.3 TEST SETUP

For Radiated Emission 30~1000MHz



(B) Radiated Emission Test Set-Up Frequency Above 1GHz



### 3.2.4 TEST RESULTS

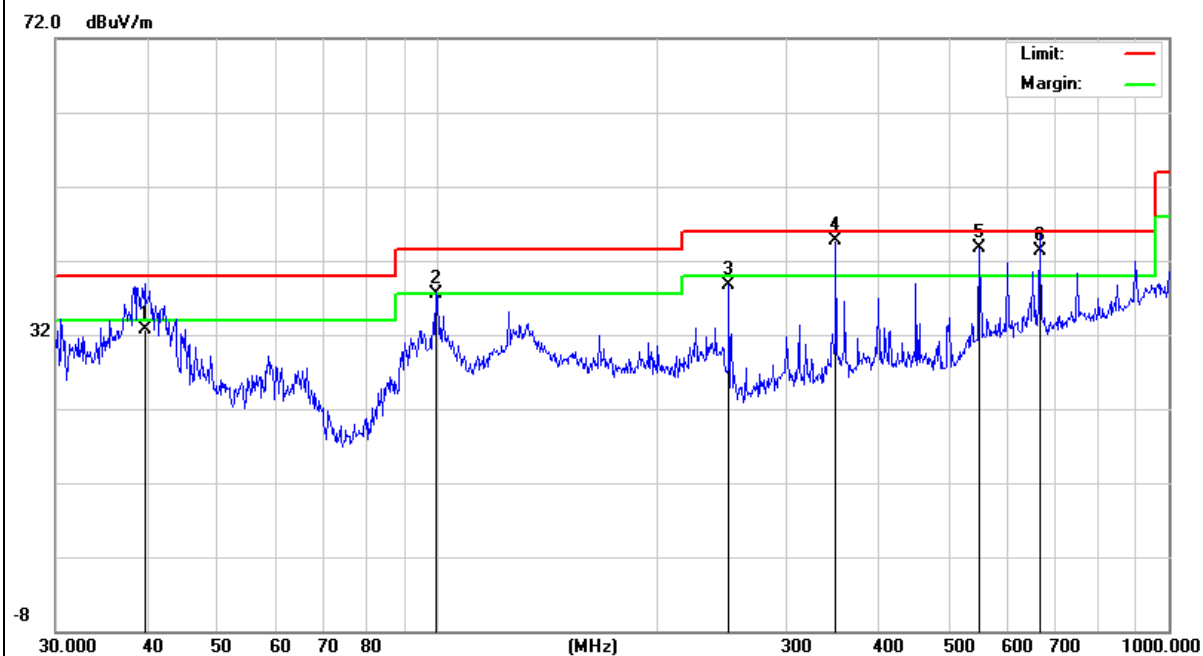
#### TEST RESULTS (30~1000 MHz)

EUT:	WIFI CAMERA	Model Name:	I9812
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2017-2-09
Test Mode :	Mode 1	Polarization :	Horizontal
Test Power :	DC 5V from USB AC 120V/60Hz		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	39.7146	17.52	15.18	32.7	40	-7.3	QP
H	99.5281	25.76	11.84	37.6	43.5	-5.9	QP
H	250.3011	23.33	15.34	38.67	46	-7.33	QP
H	350.4768	26.97	17.83	44.8	46	-1.2	QP
H	550.948	18.86	24.88	43.74	46	-2.26	QP
H	665.8035	17.8	25.5	43.3	46	-2.7	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.

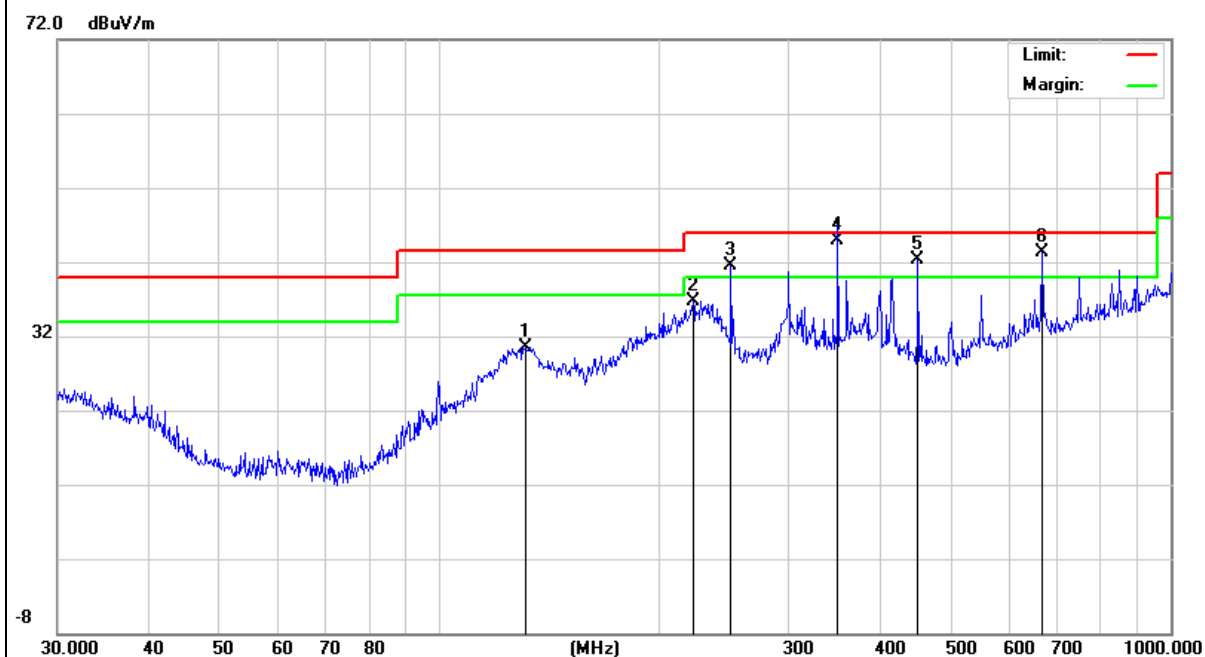


EUT:	WIFI CAMERA	Model Name :	I9812
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2017-2-09
Test Mode :	Mode 1	Polarization :	Vertical
Test Power :	DC 5V from USB AC 120V/60Hz		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	130.8369	17.19	13.32	30.51	43.5	-12.99	QP
V	222.1698	24.33	12.34	36.67	46	-9.33	QP
V	250.3012	26.25	15.34	41.59	46	-4.41	QP
V	350.4768	27.15	17.83	44.98	46	-1.02	QP
V	451.135	21.37	20.91	42.28	46	-3.72	QP
V	668.1423	17.88	25.5	43.38	46	-2.62	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



### 3.2.5 TEST RESULTS(above 1000MHz)

The Testing have been conformed to 6\*1GHz=6GHz, and the worst result was report as below:

EUT:	WIFI CAMERA	Model Name :	I9812
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2017-2-09
Test Mode :	Mode 1	Polarization :	Vertical/ Horizontal
Test Power :	DC 5V from USB AC 120V/60Hz		

All the modulation modes have been tested, and the worst result was report as below:

Polar (H/V)	Frequen cy	Readi ng	Correct	Result	Limit	Over Limit	Remar k
	(MHz)	(dBuV/ m)	dB/m	(dBuV/ m)	(dBuV/ m)	(dB)	
V	1049.57	52.69	-14.76	37.93	74	-36.07	Pk
V	1430.97	55.96	-13.24	42.72	74	-31.28	Pk
V	1496.53	54.5	-13.44	41.06	74	-32.94	Pk
V	1993.37	67.24	-11.03	56.21	74	-17.79	Pk
V	1993.37	46.02	-11.03	34.99	54	-19.01	AV
V	3216.29	46.52	-8.36	38.16	74	-35.84	Pk
V	4979.93	41.47	-1.98	39.49	74	-34.51	Pk
H	1021.73	51.98	-14.75	37.23	74	-36.77	Pk
H	1198.38	50.85	-13.48	37.37	74	-36.63	Pk
H	1346.4	49.52	-13.24	36.28	74	-37.72	Pk
H	1761.55	54.57	-12.21	42.36	74	-31.64	Pk
H	1872.2	55.51	-11.75	43.76	74	-30.24	Pk
H	2004.12	57.27	-10.83	46.44	74	-27.56	Pk
H	5445.26	54.34	-1.12	53.02	74	-20.98	Pk

Remark:

Emission Level = Read Level+Antenna Factor + Cable Loss - Amplifier.

Margin= Emission Level-Limits

Note:

1. Measuring frequencies from 1 GHz to 6GHz.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode of the emission shown in Actual FS column.
3. Other frequency is mainly from the environment noise, So not show.