

TEST REPORT

Reference No..... : WT12075014-S-S-F
Applicant..... : Unifat Technology Limited
Address..... : 7/Floor, Sui Hong Industrial Building, 547-549 Castle Peak Road, Kwai Chung, New Territories, HongKong
Manufacturer : DONGGUAN EASYFAT ELECTRONIC MFY.SIMA
Address..... : Sheima Sheung, Shueng ping chang, Dongguan China
Product Name..... : 2.4G Digital review camera with monitor
Model No. : VCM43, VCM35, DWN30, BT53328F-1, BT53872F-1
Standards..... : FCC PART15 SUBPART B 2010
Date of Receiving sample. : July 24, 2012
Date of Test : July 24~August 27, 2012
Date of Issue : August 28, 2012
Test Report Form No..... : FCC 15-2A
Test Result..... : Pass *

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company.
The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:

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Compiled by:

Approved by:



Zero Zhou / Project Engineer

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1 Test Summary

Test Item	Test Requirement	Class	Test Method	Test Result
Conducted Emission (150KHz to 30MHz)	FCC PART 15, SUBPART B: 2010	Class B	ANSI C63.4: 2003	N/A
Radiated Emission (30MHz to 1GHz)	FCC PART 15, SUBPART B: 2010	Class B	ANSI C63.4: 2003	Pass

Pass

Test item meets the requirement

N/A

Test case does not apply to the test object

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3 General Information

3.1 General Description of E.U.T.

Product Name : 2.4G Digital review camera with monitor
Model No...... : VCM43, VCM35, DWN30, BT53328F-1, BT53872F-1
Model Differences..... : Only the model name is different.

3.2 Details of E.U.T.

Technical Data..... : DC 12/24V, 350mA

3.3 Description of Support Units

The EUT has been tested as an independent unit. BT53328F-1 is the tested sample.

3.4 Standards Applicable for Testing

The tests were performed according to following standards:

FCC PART 15, SUBPART B: Electronic Code of Federal Regulations- Unintentional Radiators
2010

3.5 Test Facility

The test facility has a test site registered with the following organizations:

- **IC – Registration No.: 7760A**

Waltek Services(Shenzhen) Co., Ltd. has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration 7760A, May 26, 2012.

- **FCC – Registration No.: 880581**

Waltek Services (Shenzhen) Co., Ltd. has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 880581, May 26, 2011.

3.6 Subcontracted

Whether parts of tests for the product have been subcontracted to other labs:

☐ Yes ☒ No

If Yes, list the related test items and lab information:

Test Lab: N/A

Lab address: N/A

Test items: N/A

3.7 Abnormalities from Standard Conditions

None.

4 Equipment Used during Test

Conducted Emission

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibration Status
1	Test Receiver	ROHDE&SCHWA RZ	ESCI	101155	Valid
2	Two-Line V-Network	ROHDE&SCHWA RZ	ENV216	100115	Valid

3m Semi-anechoic Chamber for Radiation

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibration Status
1	EMC Analyzer	Agilent	E7405A	MY45114943	Valid
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	Valid
3	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	Valid
4	Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-148	Valid
5	10m Coaxial Cable with N- plug	SCHWARZBECK	AK 9515 H	-	Valid
6	10m 50 Ohm Coaxial Cable with N-plug	SCHWARZBECK	AK 9513	-	Valid
7	Positioning Controller	C&C LAB	CC-C-IF	-	Valid
8	Color Monitor	SUNSPO	SP-14C	-	Valid

4.1 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Conduction disturbance	150kHz~30MHz	$\pm 3.64\text{dB}$	(1)
Radiation	30MHz~1000MHz	$\pm 5.03\text{dB}$	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

5 Emission Test Results

5.1 Radiation Emission Data For 30MHz to 1000MHz

Test Requirement.....	: FCC PART 15, SUBPART B
Test Method.....	: ANSI C63.4
Test Limit.....	: FCC PART 15, SUBPART B Section 15.109
Test Result.....	: Pass
Frequency Range	: 30MHz to 1000MHz
Class.....	: Class B
Limit.....	: 40.0 dB μ V/m between 30MHz & 88MHz 43.5 dB μ V/m between 88MHz & 216MHz 46.0 dB μ V/m between 216MHz & 960MHz 54.0 dB μ V/m above 960MHz

5.1.1 E.U.T. Operation

Operating Environment:

Temperature.....	: 23°C
Humidity.....	: 33%RH
Atmospheric Pressure.....	: 101Kbar

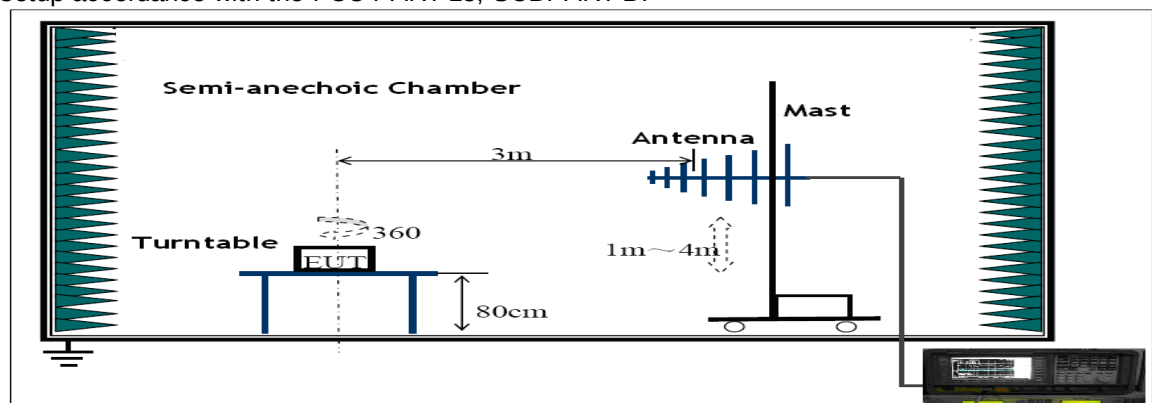
EUT Operation:

Input Voltage	: DC 12V and DC 24V
Operating Mode.....	: Working mode

Remark..... This test item was carried out under the condition of DC 12V and DC 24V, and the data shown in section 7.1.4 as follow is DC 24V which is the worse.

5.1.2 Block Diagram of Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the FCC PART 15, SUBPART B.



5.1.3 Measurement Data

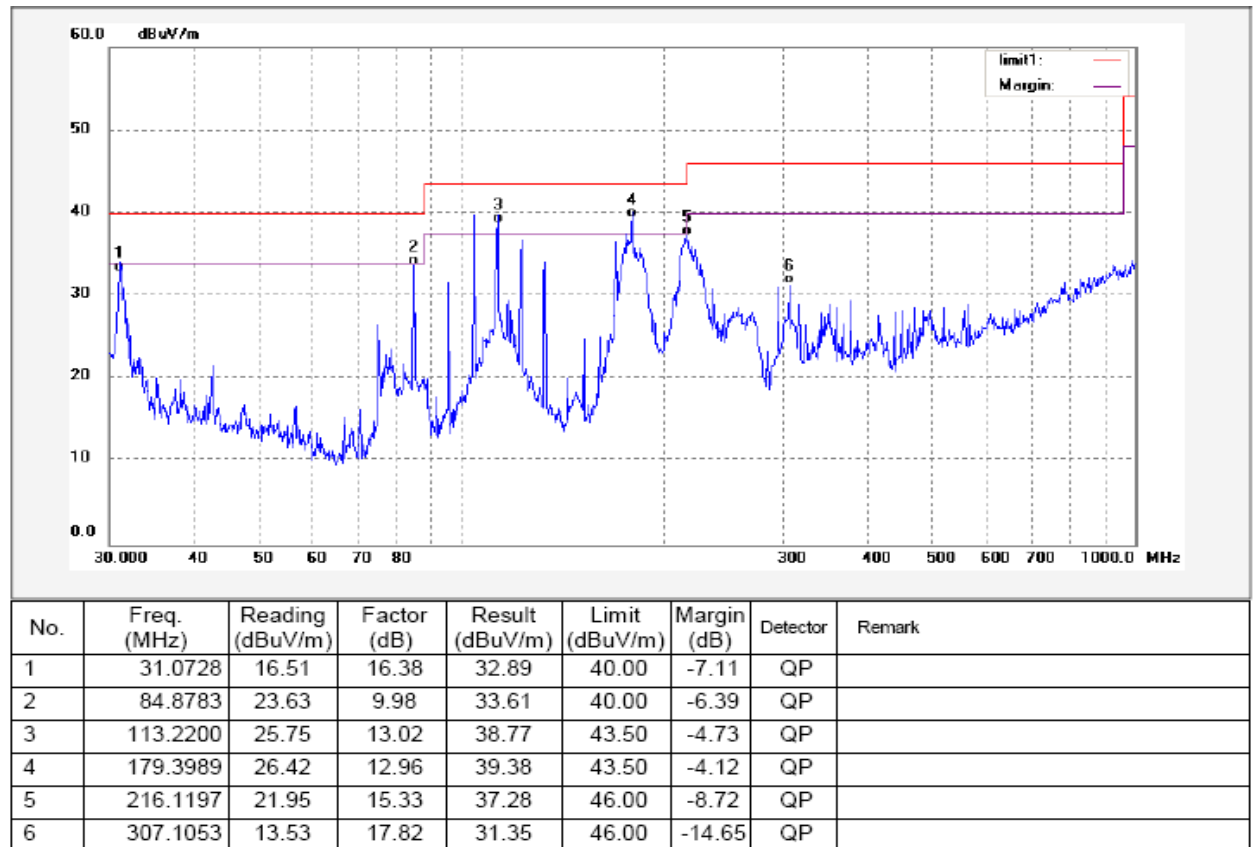
According to the data in section 5.1.4, the EUT complied with the FCC PART 15, SUBPART B standards.

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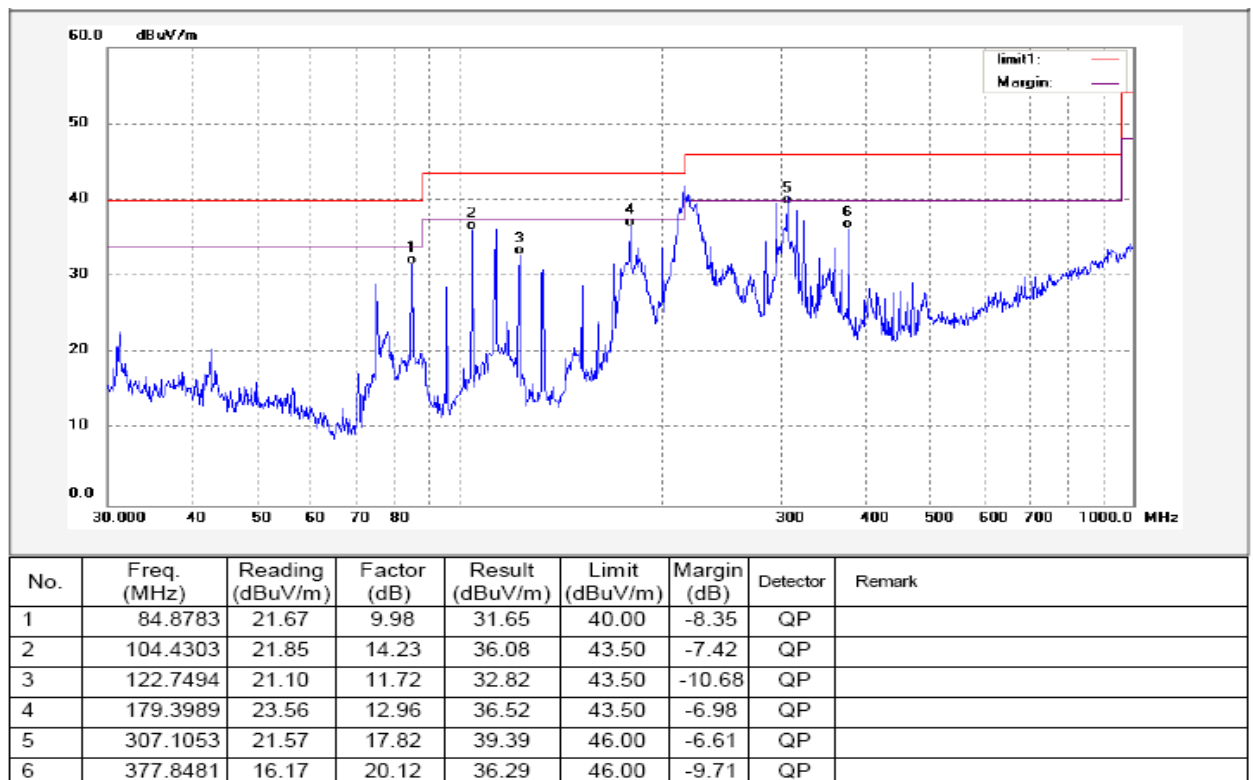
<http://www.waltek.com.cn>

5.1.4 Radiated Emission test datas, 30MHz to 1000MHz

Antenna Polarization: Vertical



Antenna Polarization: Horizontal

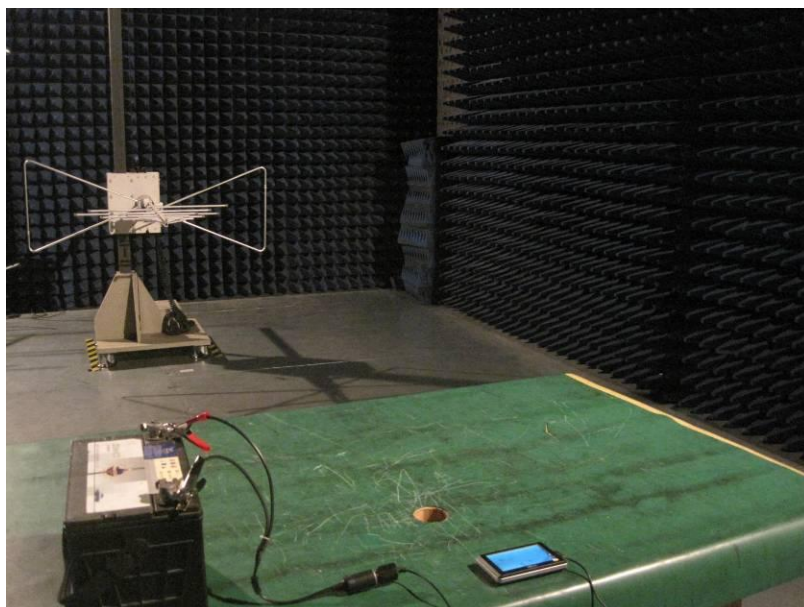


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6 Photographs – Test Setup

6.1 Photograph –Radiated Emission Test Setup



7 Photographs – Constructional Details

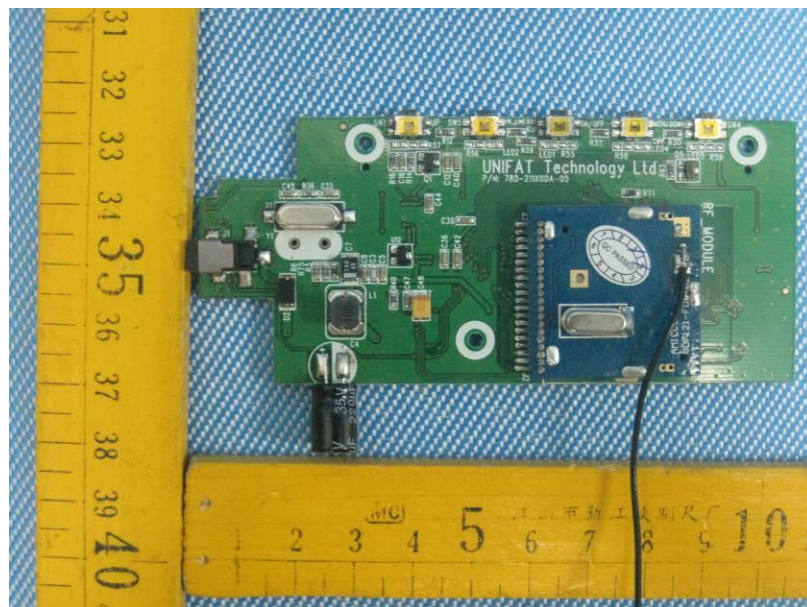
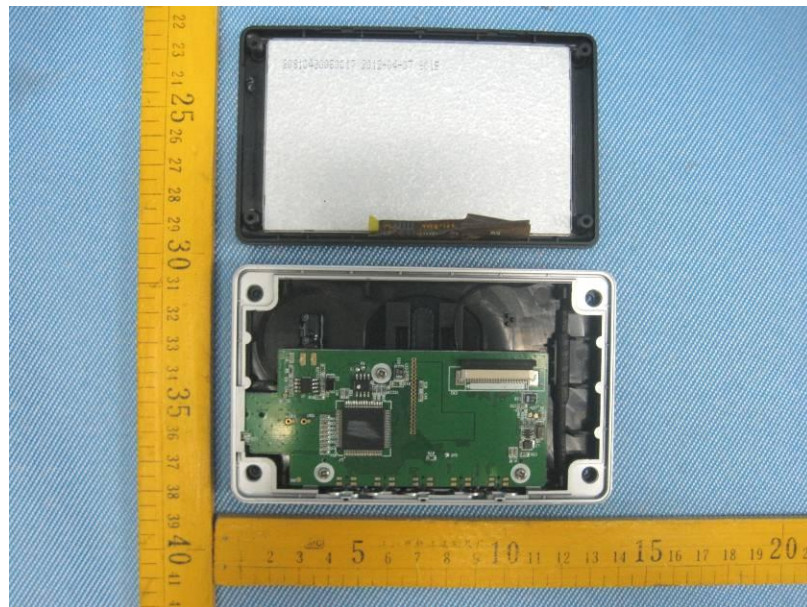
7.1 EUT –External View

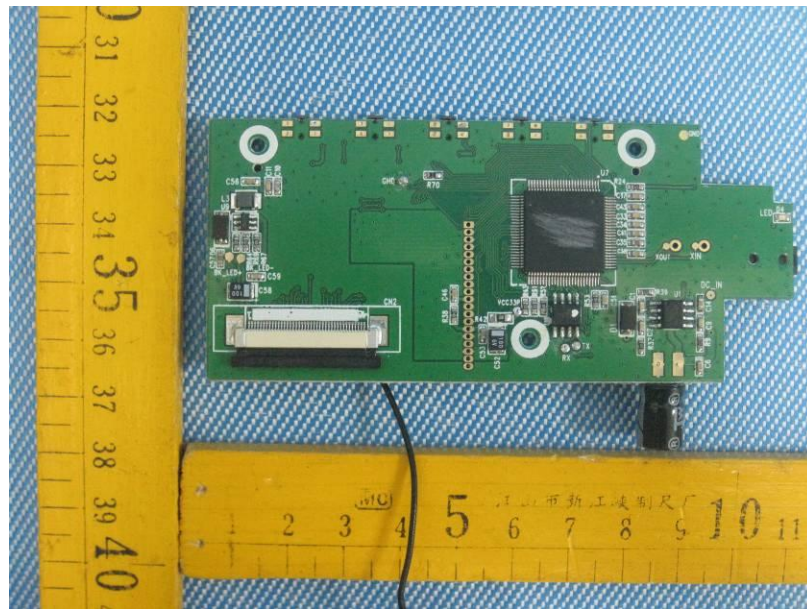






7.2 EUT – Internal View





-----End of Report-----