

**FCC PART 15 SUBPART B TEST REPORT**

**for**

**External RAID Storage**

**Model No.: DR8-TB2**

**of**

Applicant: **RAIDON TECHNOLOGY INC.**

Address: **7F-9, No.16, Lane. 609, Sec.5, Chung-Hsin Rd.,  
San-Chung Dist., New Taipei City, Taiwan (R.O.C.)**

Tested and Prepared  
by

**Worldwide Testing Services (Taiwan) Co., Ltd.**

**FCC Registration No.: 930600**

**Industry Canada filed test laboratory Reg. No. IC 5679A-1, IC 5107A-1**

**A2LA Accredited No.: 2732.01**



**Report No.: W6M21610-16308-P-15B**

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.  
TEL: 886-2-66068877 FAX: 886-2-66068879 E-mail: [wts@wts-lab.com](mailto:wts@wts-lab.com)



Registration number: W6M21610-16308-P-15B

## **TABLE OF CONTENTS**

<b>1</b>	<b>GENERAL INFORMATION .....</b>	<b>2</b>
1.1	NOTES .....	2
1.2	TESTER .....	4
1.3	TESTING LABORATORY .....	5
1.3.1	Location .....	5
1.3.2	Details of accreditation status .....	5
1.3.3	Test location, where different from Worldwide Testing Services (Taiwan) Co., Ltd. ....	5
1.4	DETAILS OF APPLICANT .....	6
1.5	APPLICATION DETAILS .....	6
1.6	TEST ITEM .....	6
1.6.1	Description of test item .....	6
1.6.2	Manufacturer (if different from applicant in point 1.4) .....	6
1.6.3	Frequency behavior .....	7
1.7	TEST STANDARDS .....	7
1.8	TEST CONFIGURATION .....	7
<b>2</b>	<b>TECHNICAL TEST .....</b>	<b>8</b>
2.1	SUMMARY OF TEST RESULTS .....	8
2.2	TEST ENVIRONMENT .....	8
2.3	TEST EQUIPMENT UTILIZED .....	9
2.4	TEST RESULTS .....	11
2.4.1	Radiated Emission .....	12
2.4.2	Conducted Emission .....	13
2.5	TEST PROTOCOLS .....	14
2.5.1	Radiated Emission .....	14
2.5.2	Conducted Emission .....	22
2.6	EQUIPMENT MODIFICATION .....	24
<b>3</b>	<b>NORMATIVE REFERENCES .....</b>	<b>25</b>

## **Appendix : Pictures**



## **1 General Information**

### **1.1 Notes**

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

The tests were carried out and passed in accordance to the standards:

**FCC part 15 Subpart B : October 2015**

The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.

Furthermore, there is no guarantee that a test sample which has passed all the relevant tests conforms to a specification (only telecommunication products).

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems. The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

The test results of this test report relate exclusively to the item tested as specified in 1.6.

The test report may only be reproduced or published in full.

Reproduction or publication of extracts from the report requires the prior written approval of the Worldwide Testing Services(Taiwan) Co., Ltd.



Registration number: W6M21610-16308-P-15B

## **Important Notes:**

Proper labelling is required for each device. Devices shall be labelled in accordance with labelling requirements pursuant to section 15.19 and section 2.1074 of the FCC rules.

Devices subject to a Declaration of Conformity shall be uniquely identified by the responsible party.

This identification shall not be of a format which could be confused with the FCC Identifier required on certified, notified type accepted or type approved equipment.

The responsible party shall maintain adequate identification records to facilitate positive identification for each device.

The user manual or instruction manual shall include also a warning statement that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Reference Section 15.21

Furthermore information to the user regarding to the interference potential of the device and about simple measures that can be taken to correct interference is required.

Reference Section 15.105

The responsible party must warrant that each unit of equipment marketed under a Declaration of Conformity is identical to the unit tested and found acceptable with the standards and that the records maintained by the responsible party continue to reflect the equipment being produced under the Declaration of Conformity within the variation that can be expected due to quantity production and testing on a statistical basis.



Registration number: W6M21610-16308-P-15B

## 1.2 Tester

October 26, 2016

Syuan Chang

*Syuan*

Date

WTS-Lab.

Test Engineer

Signature

Technical responsibility for area of testing:

October 26, 2016

Kevin Wang

*Kevin Wang*

Date

WTS

Name

Signature



Registration number: W6M21610-16308-P-15B

## **1.3 Testing laboratory**

### **1.3.1 Location**

10m OATS

No.5-1, Lishui, Shuang Sing Village,  
Wanli Dist., New Taipei City 207,  
Taiwan (R.O.C.)

3 meter semi-anechoic chamber

No.35, Aly. 21, Ln. 228, Ankang Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)  
TEL:886-2-6613-0228  
FAX:886-2-2791-5046

Company

Worldwide Testing Services(Taiwan) Co., Ltd.  
6F, NO. 58, LANE 188, RUEY-KUANG RD.  
NEIHU, TAIPEI 114, TAIWAN R.O.C.

Tel : 886-2-66068877

Fax : 886-2-66068875

### **1.3.2 Details of accreditation status**

Accredited testing laboratory

A2LA accredited number: 2732.01

FCC filed test laboratory Reg. No. 930600

Industry Canada filed test laboratory Reg. No. IC 5679A-1, IC 5107A-1

### **1.3.3 Test location, where different from Worldwide Testing Services (Taiwan) Co., Ltd.**

Name:	./.
Accredited number:	./.
Street:	./.
Town:	./.
Country:	./.
Telephone:	./.
Fax:	./.
Teletex:	./.



Registration number: W6M21610-16308-P-15B

## **1.4 Details of applicant**

Name:	RAIDON TECHNOLOGY INC.
Street:	7F-9, No.16, Lane. 609, Sec.5, Chung-Hsin Rd.,San-Chung Dist.,
City:	New Taipei City,
Country:	Taiwan (R.O.C.)
Telephone:	+886-2-2278-9697
Fax:	+886-2-2278-9659

## **1.5 Application details**

Date of receipt of test item:	October 18, 2016
Date of test:	from October 19, 2016 to October 26, 2016

## **1.6 Test item**

### **1.6.1 Description of test item**

Type of product:	External RAID Storage
Type identification:	DR8-TB2
Multi-listing model number:	DR8-TB2-B
Brand Name:	./.
Photos:	Please find in Appendix.

### **1.6.2 Manufacturer (if different from applicant in point 1.4)**

Name:	./.
Street:	./.
Town:	./.
Country:	./.
Contact:	./.
Phone:	./.



Registration number: W6M21610-16308-P-15B

## **1.6.3 Frequency behavior**

<b>Highest frequency generated in the device or on which the device operates or tunes (MHz)</b>		<b>Upper frequency of measurement range (MHz)</b>
<input type="checkbox"/>	Below 1.705	30
<input type="checkbox"/>	1.705 - 108	1000
<input type="checkbox"/>	108 -500	2000
<input type="checkbox"/>	500 - 1000	5000
<input checked="" type="checkbox"/>	Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

## **1.7 Test standards**

**FCC part 15 Subpart B : October 2015**

**ANSI C63.4-2014**

## **1.8 Test configuration**

The EUT powered by power supply and connected to MAC, processed reading and writing to EUT through MAC until the test finished.





Registration number: W6M21610-16308-P-15B

## **2 Technical test**

### **2.1 Summary of test results**

No deviations from the technical specification(s) were ascertained in the course of the tests performed. ☒

**Or**

The deviations as specified in 2.4 were ascertained in the course of the tests performed. ☐

### **2.2 Test environment**

Temperature:	18 ... 25 °C
Relative humidity content:	20 ... 75 %
Air pressure:	860 ... 1030 hPa
Details of power supply:	120 Va.c.
Other parameters:	without



Registration number: W6M21610-16308-P-15B

## 2.3 Test equipment utilized

No.	Test equipment	Type	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2016/5/20	2017/5/19
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Function Test	
ETSTW-CE 008	HF-EICHLITUNG RF STEP ATTENUATOR 139dB DPSP	334.6010.02	844581/024	R&S	Function Test	
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2016/7/15	2017/7/14
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2016/9/12	2017/9/11
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2016/5/20	2017/5/19
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2016/5/25	2017/5/24
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2016/7/4	2017/7/3
ETSTW-RE 012	TUNABLE BANDREJECT FILTER	D.C 0309	146	K&L	Function Test	
ETSTW-RE 013	TUNABLE BANDREJECT FILTER	D.C 0336	397	K&L	Function Test	
ETSTW-RE 018	MICROWAVE HORN ANTENNA	AT4560	27212	AR	2016/6/24	2017/6/23
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	ETS-Lindgren	2016/6/29	2017/6/28
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	ETS-Lindgren	2016/3/23	2017/3/22
ETSTW-RE 042	Biconical Antenna	HK116	100172	R&S	2016/1/25	2017/1/24
ETSTW-RE 043	Log-Periodic Dipole Antenna	HL223	100166	R&S	2016/3/28	2017/3/27
ETSTW-RE 044	Log-Periodic Antenna	HL050	100094	R&S	2016/4/14	2017/4/13
ETSTW-RE 045	ESA-E SERIES SPECTRUM ANALYZER	E4404B	MY45111242	Agilent	Pre-test Use	
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2016/2/25	2017/2/24
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2016/2/25	2017/2/24
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2016/2/25	2017/2/24
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2016/2/27	2017/2/26
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	2016/2/25	2017/2/24
ETSTW-RE 062	Amplifier Module	CHC 2	None	KMIC	2016/4/13	2017/4/12
ETSTW-RE 064	Bluetooth Test Set	MT8852B-042	6K00005709	Anritsu	Function Test	
ETSTW-RE 069	Double-Ridged Guide Horn Antenna	3117	00069377	ETS-Lindgren	Function Test	
ETSTW-RE 072	CELL SITE TEST SET	8921A	3339A00375	HP	2016/9/8	2017/9/7
ETSTW-RE 088	SOLID STATE AMPLIFIER	KMA180265A01	99057	KMIC	2016/9/20	2017/9/19
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2016/2/25	2017/2/24
ETSTW-RE 112	AC POWER SOURCE	TFC-1005	T-0A023536	T-Power	Function test	
ETSTW-RE 115	2.4GHz Notch Filter	N0124411	473874	MICROWAVE CIRCUITS	2016/1/13	2017/1/12
ETSTW-RE 120	RF Player	MP9200	MP9210-111022	ADIVIC	Function test	
ETSTW-RE 122	SIGNAL GENERATOR	SMF100A	102149	R&S	2016/5/23	2017/5/22
ETSTW-RE 125	5GHz Notch filter	5NSL11-5200/E221.3-O/O	1	K&L Microwave	2016/8/10	2017/8/9



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21610-16308-P-15B

ETSTW-RE 126	5GHz Notch filter	5NSL12-5800/E221.3-O/O	1	K&L Microwave	2016/8/10	2017/8/9
ETSTW-RE 127	RF Switch Box	RFS-01	None	WTS	2016/2/25	2017/2/24
ETSTW-RE 128	5.3GHz Notch filter	N0153001	SN487233	Microwave Circuits	2016/8/10	2017/8/9
ETSTW-RE 129	5.5GHz Notch filter	N0555984	SN487234	Microwave Circuits	2016/8/10	2017/8/9
ETSTW-RE 130	Handheld RF Spectrum Analyzer	N9340A	CN0147000204	Agilent	Pre-test Use	
ETSTW-RE 142	Amplifier	8447D	2805A03378	Agilent	2016/4/13	2017/4/12
ETSTW-RE 143	Humidity Temperature Meter	TES-1260	110104623	TES	2016/8/19	2017/8/18
ETSTW-RE 147	Bi-log Hybrid Antenna	MCTD 2786B	BLB16M04005	ETC	2016/3/31	2017/3/30
ETSTW-EMI 011	USB Compact Modulator	SFC-U	101689	R&S	2016/5/4	2017/5/3
ETSTW-GSM 002	Universal Radio Communication Tester	CMU 200	109439	R&S	2016/3/4	2017/3/3
ETSTW-GSM 003	Radio Communication Analyzer	MT8820C	6201342073	Anritsu	2016/2/3	2017/2/2
ETSTW-GSM 019	Band Reject Filter	WRCTF824/849-822/851-40 /12+9SS	3	WI	2016/1/13	2017/1/12
ETSTW-GSM 020	Band Reject Filter	WRCD1747/1748-1743/1752-32/5SS	1	WI	2016/1/13	2017/1/12
ETSTW-GSM 021	Band Reject Filter	WRCD1879.5/1880.5-1875.5/1884.5-32/5SS	3	WI	2016/1/13	2017/1/12
ETSTW-GSM 022	Band Reject Filter	WRCT901.9/903.1-904.25-50/8SS	1	WI	2016/1/13	2017/1/12
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2016/9/14	2017/9/13
ETSTW-Cable 010	BNC Cable	5 M BNC Cable	None	JYE BAO CO.,LTD.	2016/9/12	2017/9/11
ETSTW-Cable 011	BNC Cable	BNC Cable 1	None	JYE BAO CO.,LTD.	Pre-test Use NCR	
ETSTW-Cable 012	N TYPE To SMA Cable	Cable 012	None	JYE BAO CO.,LTD.	2016/9/12	2017/9/11
ETSTW-Cable 016	BNC Cable	Switch Box	B Cable 1	Schwarz beck	2016/2/24	2017/2/23
ETSTW-Cable 017	BNC Cable	X Cable	B Cable 2	Schwarz beck	2016/2/24	2017/2/23
ETSTW-Cable 018	BNC Cable	Y Cable	B Cable 3	Schwarz beck	2016/2/24	2017/2/23
ETSTW-Cable 019	BNC Cable	Z Cable	B Cable 4	Schwarz beck	2016/2/24	2017/2/23
ETSTW-Cable 020	N TYPE Cable	OATS Cable 1	N30N30-L335-15M	JYE BAO CO.,LTD.	2016/4/22	2017/4/21
ETSTW-Cable 022	N TYPE Cable	5006	0002	JYE BAO CO.,LTD.	2016/4/7	2017/4/6
ETSTW-Cable 026	Microwave Cable	SUCOFLEX 104	279075	HUBER+SUHNER	2016/2/25	2017/2/24
ETSTW-Cable 027	Microwave Cable	SUCOFLEX 104	279083	HUBER+SUHNER	2016/5/13	2017/5/12
ETSTW-Cable 028	Microwave Cable	FA147A0015M2020	30064-2	UTIFLEX	2016/9/20	2017/9/19
ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2016/9/20	2017/9/19
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S Cable 9)	279067	HUBER+SUHNER	2016/2/25	2017/2/24
ETSTW-Cable 031	Microwave Cable	SUCOFLEX 104 (S Cable 10)	238092	HUBER+SUHNER	2016/4/13	2017/4/12
ETSTW-Cable 043	Microwave Cable	SUCOFLEX 104	317576	HUBER+SUHNER	2016/4/13	2017/4/12
ETSTW-Cable 048	Microwave Cable	SUCOFLEX 104	325518	HUBER+SUHNER	2016/4/13	2017/4/12
ETSTW-Cable 058	Microwave Cable	SUCOFLEX 104	none	HUBER+SUHNER	2016/4/7	2017/4/6
ETSTW-Cable 064	Microwave Cable	SUCOFLEX 104	MY28891	HUBER+SUHNER	2016/4/13	2017/4/12
WTSTW-SW 002	EMI TEST SOFTWARE	EZ EMC	None	Farad	Version ETS-03A1	



Registration number: W6M21610-16308-P-15B

## **Test location**

OATS (10m)	No.5-1, Lishui, Shuang Sing Village, Wanli Dist., New Taipei City 207, Taiwan (R.O.C.)	<input type="checkbox"/>
semi-anechoic chamber (3m)	No.35, Aly. 21, Ln. 228, Ankang Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)	<input checked="" type="checkbox"/>

## **2.4 Test results**

☒ 1<sup>st</sup> test

☐ test after modification

☐ production test

<b>Test Emission / Immunity</b>			<b>Done</b>	<b>Test passed</b>	<b>Test failed</b>
Emission	Radiated Emission	FCC Subpart B § 15.109 Class B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Emission	Conducted Emission	FCC Subpart B § 15.107 Class B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

(The following is intentionally left blank.)



Registration number: W6M21610-16308-P-15B

## **2.4.1 Radiated Emission**

### **2.4.1.1 Test Equipment**

a) EMI TEST RECEIVER (ESVS10)

For your reference please find it in our test equipment list at page 9 to 10 as number : ETSTW-RE 005

b) EMI TEST RECEIVER (ESI 40)

For your reference please find it in our test equipment list at page 9 to 10 as number : ETSTW-RE 004

c) Amplifier Module (CHC 2)

For your reference please find it in our test equipment list at page 9 to 10 as number : ETSTW-RE 062

d) MICROWAVE HORN ANTENNA(AT4560)

For your reference please find it in our test equipment list at page 9 to 10 as number : ETSTW-RE 018

e) Double-Ridged Waveguide Horn Antenna (3117)

For your reference please find it in our test equipment list at page 9 to 10 as number : ETSTW-RE 030

f) Amplifier (8447D)

For your reference please find it in our test equipment list at page 9 to 10 as number : ETSTW-RE 142

g) Bi-log Hybrid Antenna (MCTD 2786B)

For your reference please find it in our test equipment list at page 9 to 10 as number : ETSTW-RE 147

### **2.4.1.2 Test Procedures**

- Test configuration

The test configuration corresponds to the standard ANSI C63.4. The equipment under test is placed on a non metallic table with 0.8m height. The power supply and the RF connection points are close to the equipment under test at the floor inside a connection box. The cables to this connection box are shielded and below the double floor. The receiving antenna is placed in a height at 1.0 to 4.0m, in a distance of 3m. The measurement receiver is placed in a special room. The observation of the equipment under test is realized by 3 video cameras and by a microphone.

- Test parameters and marginal conditions

The test is carried out with horizontal and vertical polarization of the antenna in a frequency range of 30 MHz to 12750 MHz. Further information please find in the test protocol.



Registration number: W6M21610-16308-P-15B

## **2.4.2 Conducted Emission**

### **2.4.2.1 Test Equipment**

#### **a) TWO-LINE V-NETWORK (ENV216)**

For your reference please find it in our test equipment list at page 9 to 10 as number : ETSTW-CE 016

#### **b) EMI TEST RECEIVER (ESHS10)**

For your reference please find it in our test equipment list at page 9 to 10 as number : ETSTW-CE 001

### **2.4.2.2 Test Procedures**

- **Test configuration**

The test configuration is contained inside of a shielded chamber and corresponds to the standard ANSI C63.4. The equipment under test is placed in the facility on a wooden table 0.8m height. The equipment under test is connected with the artificial mains network (AMN) in a distance of 0.8m and also 0.8m from other subassembly and metallic area. The measurement receiver is placed in a special room adjacent to the chamber. The observation of the equipment under test is realized by 3 video cameras and by a microphone.

- **Test parameters and marginal conditions**

The tests are carried out with nominal impedance by  $50\Omega$  /  $50\mu\text{H}$  of the AMN in a frequency range 150 kHz to 30 MHz. This measurement was transacted first with instrumentation using an average and peak detector and a 10 kHz bandwidth. If the peak detector achieves a calculated level, the measurement is repeated by an instrumentation using a quasi-peak detector, further information please find in test report.

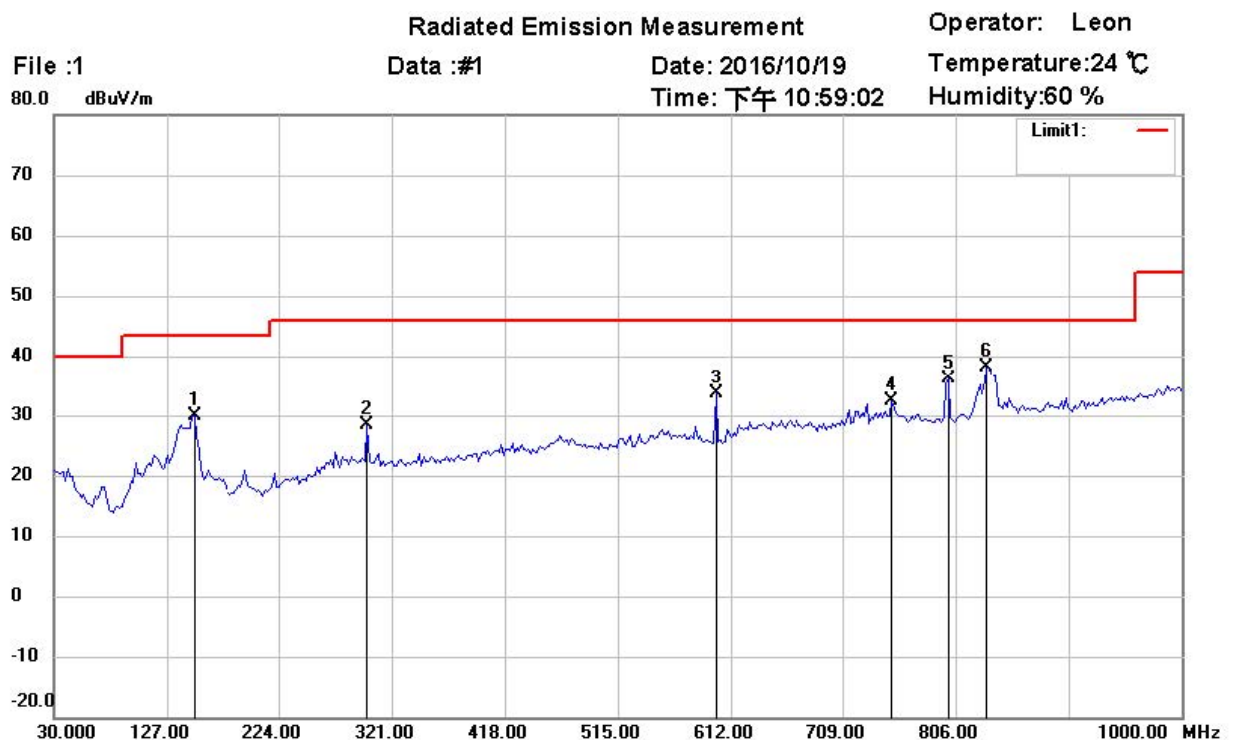
Registration number: W6M21610-16308-P-15B

## 2.5 Test protocols

### 2.5.1 Radiated Emission

## Radio Noise Field Strength

# Emission



Site : 966 Chamber

Condition : FCC\_part 15 RE-Class B\_30-1000MHz

EUT : W6M21610-16308

M/N:

Test Mode :

Note :

Polarization: *Horizontal*

Power : 120 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	150.5210	37.57	QP	-7.70	29.87	43.50	100	75	-13.63	
	300.2004	34.08	QP	-5.61	28.47	46.00	100	115	-17.53	
	599.5591	34.92	QP	-1.32	33.60	46.00	100	190	-12.40	
	751.1824	31.30	QP	0.99	32.29	46.00	100	250	-13.71	
	799.7796	34.28	QP	1.80	36.08	46.00	100	210	-9.92	
*	832.8257	35.19	QP	3.05	38.24	46.00	100	230	-7.76	





# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21610-16308-P-15B

## Radiated Emission Measurement

Operator: Leon

File :1

Data :#2

Date: 2016/10/19

Temperature:24 °C

Time: 下午 11:05:37

Humidity:60 %



Site : 966 Chamber

Condition : FCC\_part 15 RE-Class B\_30-1000MHz

EUT : W6M21610-16308

M/N:

Test Mode :

Note :

Polarization: **Vertical**

Power : 120 Va.c.

Distance: 3m

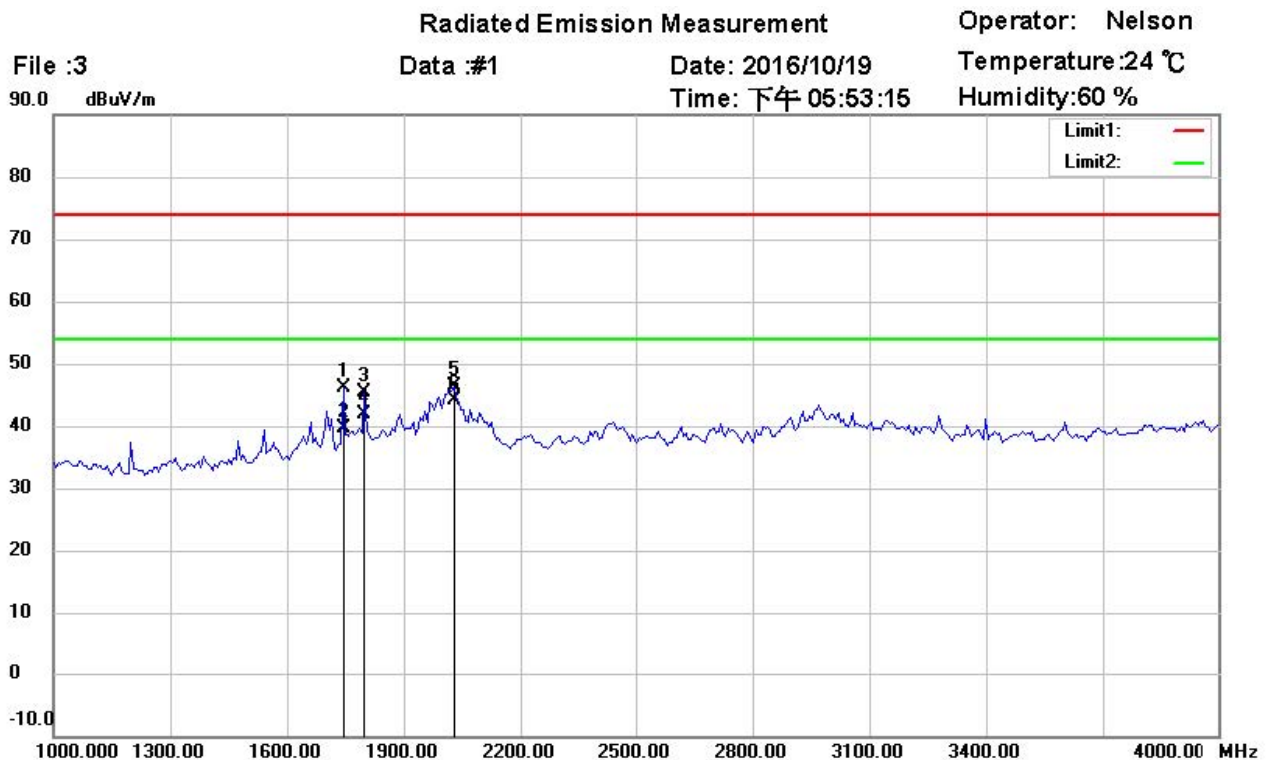
Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	35.8316	31.20	QP	-7.59	23.61	40.00	100	125	-16.39	
	113.5872	34.64	QP	-6.72	27.92	43.50	100	60	-15.58	
	148.5772	39.34	QP	-7.51	31.83	43.50	100	240	-11.67	
	599.5591	31.69	QP	-1.32	30.37	46.00	100	155	-15.63	
*	799.7796	34.68	QP	1.80	36.48	46.00	100	190	-9.52	
	992.2244	33.49	QP	6.25	39.74	54.00	100	275	-14.26	





# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21610-16308-P-15B



Site : 966 Chamber

Condition : FCC\_part 15 RE-Class B\_Above 1GHz\_PK

EUT : W6M21610-16308

M/N:

Test Mode :

Note :

Polarization: *Horizontal*

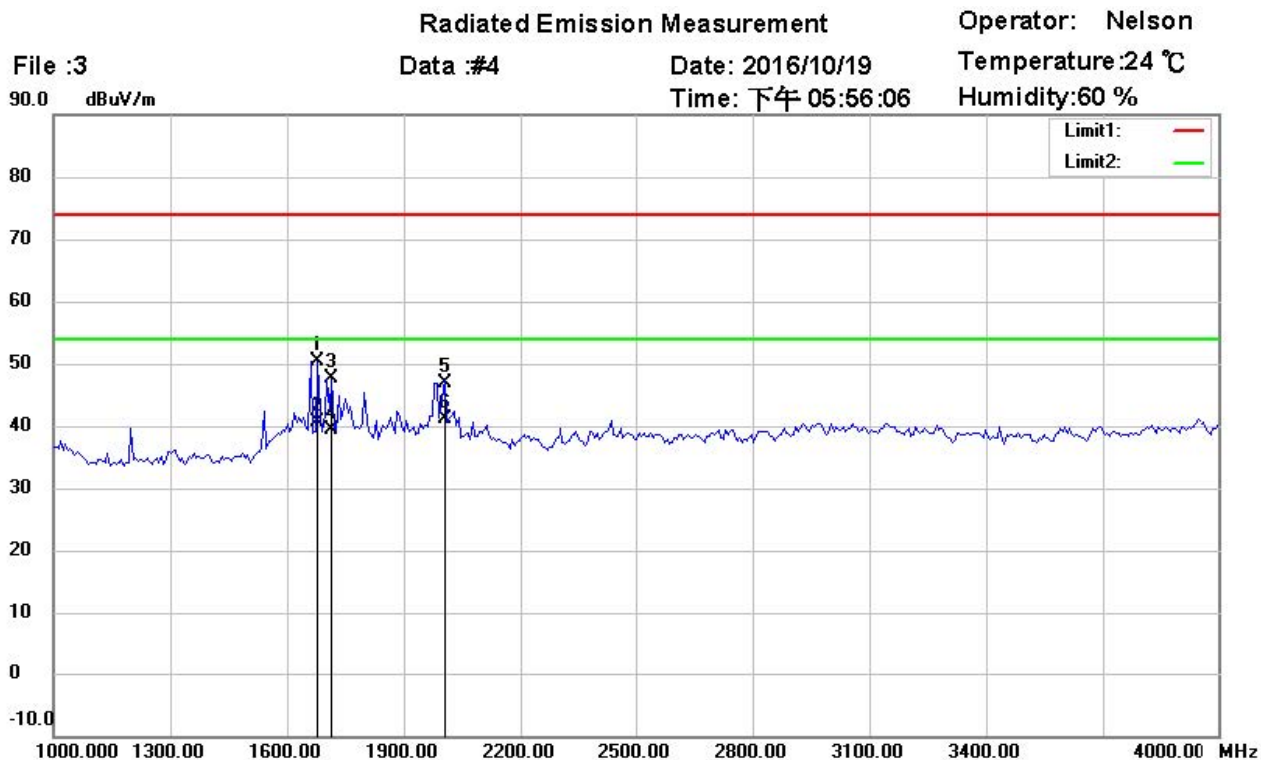
Power : 120 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	1745.491	53.05	peak	-7.03	46.02	74.00	100	150	-27.98	
	1745.491	46.59	AVG	-7.03	39.56	54.00	100	150	-14.44	
	1799.599	52.21	peak	-6.88	45.33	74.00	100	130	-28.67	
	1799.599	48.65	AVG	-6.88	41.77	54.00	100	130	-12.23	
	2028.056	51.96	peak	-5.51	46.45	74.00	100	50	-27.55	
*	2028.056	49.65	AVG	-5.51	44.14	54.00	100	50	-9.86	



Registration number: W6M21610-16308-P-15B



Site : 966 Chamber

Condition : FCC\_part 15 RE-Class B\_Above 1GHz\_PK

EUT : W6M21610-16308

M/N:

Test Mode :

Note :

Polarization: *Vertical*

Power : 120 V.a.c.

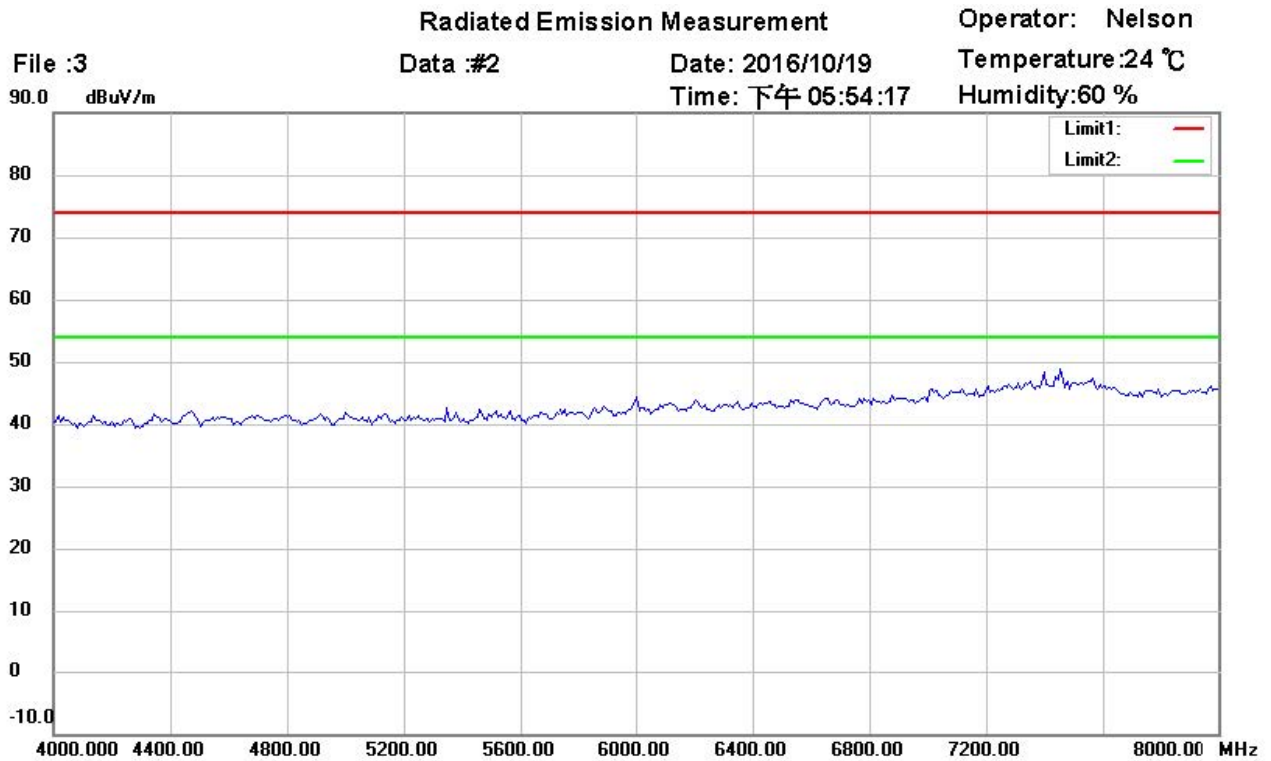
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	1678.547	57.63	peak	-7.37	50.26	74.00	100	160	-23.74	
	1678.547	48.03	AVG	-7.37	40.66	54.00	100	160	-13.34	
	1715.356	54.82	peak	-7.11	47.71	74.00	100	0	-26.29	
	1715.356	46.58	AVG	-7.11	39.47	54.00	100	0	-14.53	
	1999.319	52.43	peak	-5.53	46.90	74.00	100	110	-27.10	
*	1999.319	46.59	AVG	-5.53	41.06	54.00	100	110	-12.94	



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21610-16308-P-15B



Site : 966 Chamber

Condition : FCC\_part 15 RE-Class B\_Above 1GHz\_PK

EUT : W6M21610-16308

M/N:

Test Mode :

Note :

Polarization: *Horizontal*

Power : 120 V.a.c.

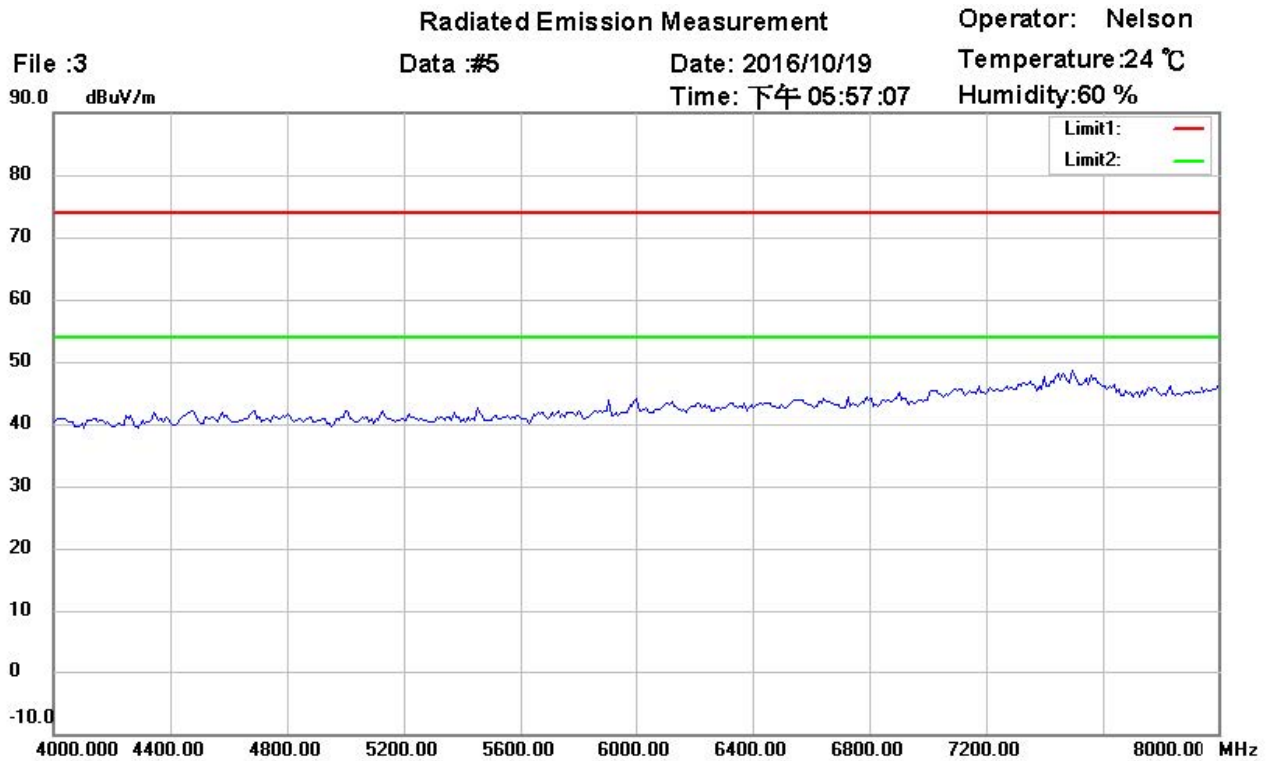
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
-----	-----------------	----------------	----------	---------------------	-----------------	----------------	--------------	----------------	-------------	---------



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21610-16308-P-15B



Site : 966 Chamber

Condition : FCC\_part 15 RE-Class B\_Above 1GHz\_PK

EUT : W6M21610-16308

M/N:

Test Mode :

Note :

Polarization: *Vertical*

Power : 120 V.a.c.

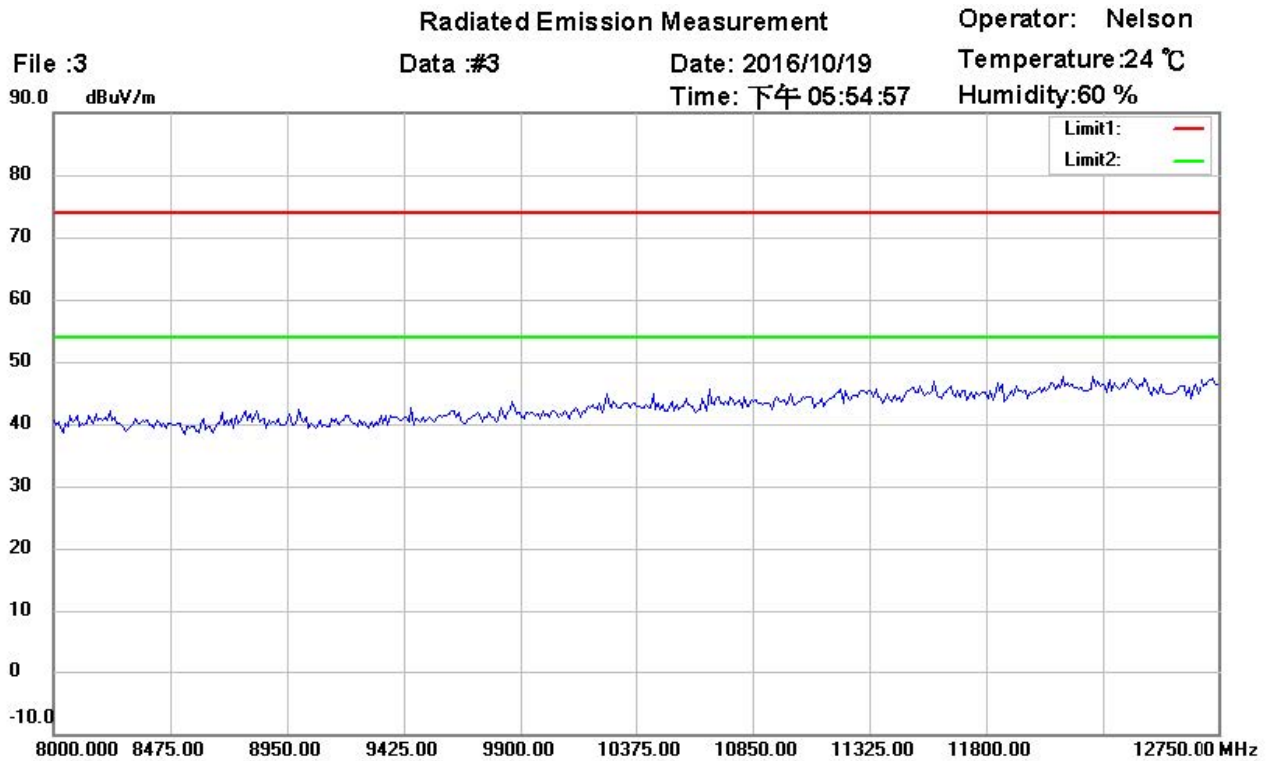
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
-----	-----------------	----------------	----------	---------------------	-----------------	----------------	--------------	----------------	-------------	---------



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21610-16308-P-15B



Site : 966 Chamber

Condition : FCC\_part 15 RE-Class B\_Above 1GHz\_PK

EUT : W6M21610-16308

M/N:

Test Mode :

Note :

Polarization: *Horizontal*

Power : 120 V.a.c.

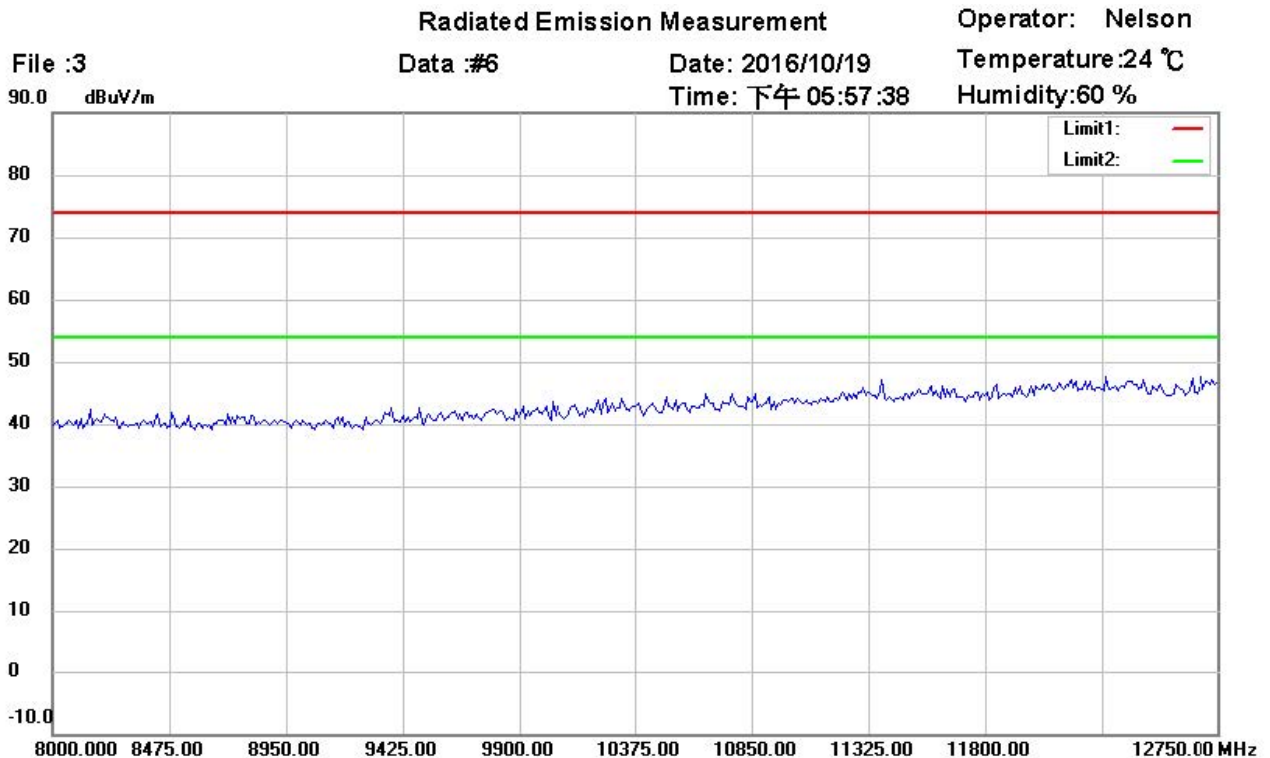
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
-----	-----------------	----------------	----------	---------------------	-----------------	----------------	--------------	----------------	-------------	---------





Registration number: W6M21610-16308-P-15B



Site : 966 Chamber

Condition : FCC\_part 15 RE-Class B\_Above 1GHz\_PK

EUT : W6M21610-16308

M/N:

Test Mode :

Note :

Polarization: *Vertical*

Power : 120 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
-----	-----------------	----------------	----------	---------------------	-----------------	----------------	--------------	----------------	-------------	---------

**Note:**

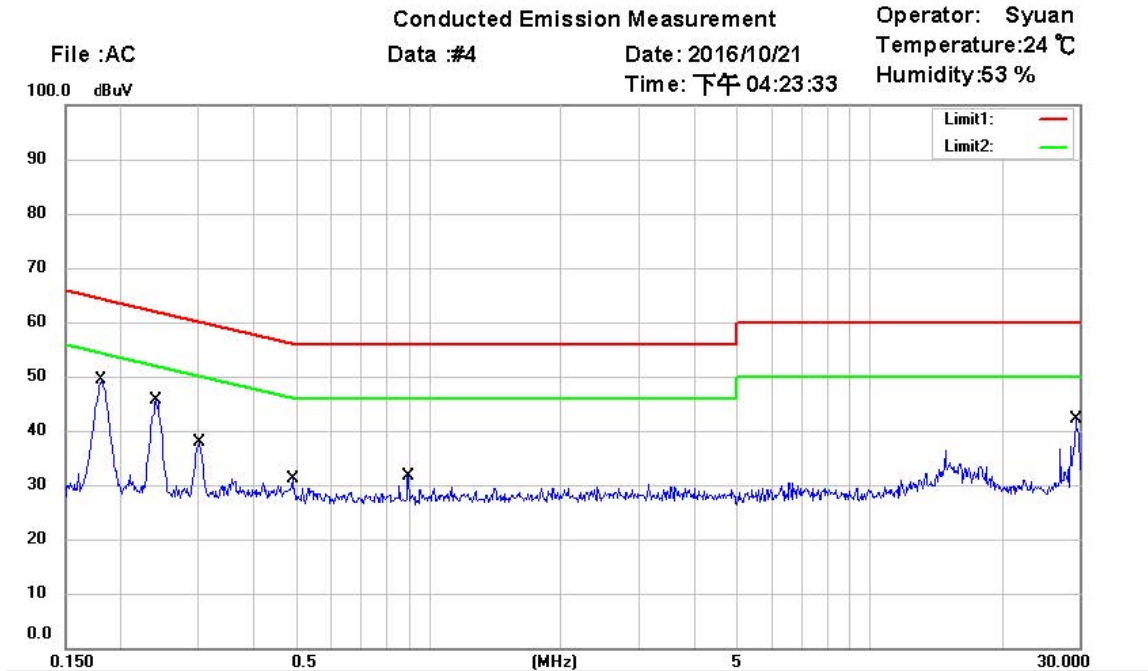
1. Correction Factor = Antenna factor + Cable loss - Preamplifier
2. The formula of measured value as: Test Result = Reading + Correction Factor
3. Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average
4. All not in the table noted test results are more than 20 dB below the relevant limits.  
Measurement uncertainty for 3m measurement: 30-1000 MHz =  $\pm 4.69$  dB, 1-18 GHz =  $\pm 4.78$  dB, 18-40 GHz =  $\pm 2.44$  dB ; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.
5. Up Line: PK Limit Line, Down Line: Ave Limit Line.

Registration number: W6M21610-16308-P-15B

## 2.5.2 Conducted Emission

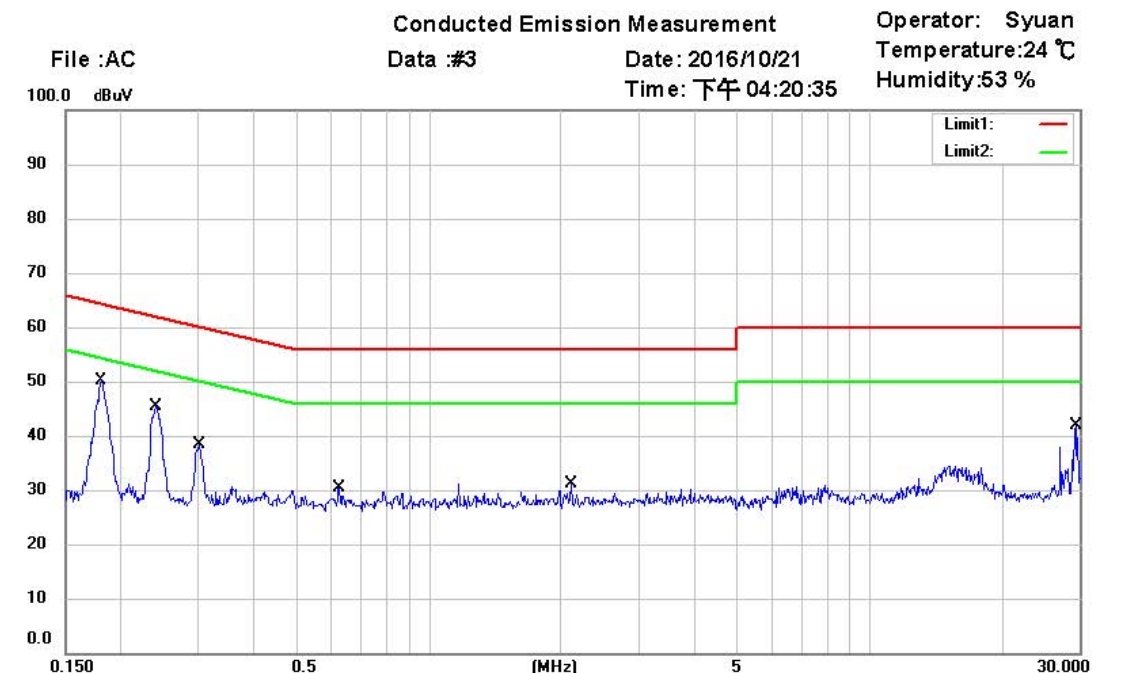
### Conducted Emission

# Emission



Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1805	40.02	QP	9.68	49.70	64.46	-14.76	
*	0.1805	33.17	AVG	9.68	42.85	54.46	-11.61	
	0.2408	34.04	QP	9.67	43.71	62.07	-18.36	
	0.2408	25.70	AVG	9.67	35.37	52.07	-16.70	
	0.3005	26.80	QP	9.69	36.49	60.23	-23.74	
	0.3005	18.83	AVG	9.69	28.52	50.23	-21.71	
	0.4898	11.73	QP	9.70	21.43	56.17	-34.74	
	0.4898	10.36	AVG	9.70	20.06	46.17	-26.11	
	0.8960	0.02	QP	9.71	9.73	56.00	-46.27	
	0.8960	-4.65	AVG	9.71	5.06	46.00	-40.94	
	29.3000	25.09	QP	10.47	35.56	60.00	-24.44	
	29.3000	3.24	AVG	10.47	13.71	50.00	-36.29	

Registration number: W6M21610-16308-P-15B



Site : Chamber\_03

Condition : FCC Part 15 Class B Conduction (QP)

EUT : W6M21610-16308

M/N:

Test Mode :

Note :

Phase: L1

Power : 120 V.a.c.

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1805	40.36	QP	9.72	50.08	64.46	-14.38	
*	0.1805	33.43	AVG	9.72	43.15	54.46	-11.31	
	0.2408	34.91	QP	9.71	44.62	62.07	-17.45	
	0.2408	26.41	AVG	9.71	36.12	52.07	-15.95	
	0.3014	27.65	QP	9.71	37.36	60.20	-22.84	
	0.3014	19.57	AVG	9.71	29.28	50.20	-20.92	
	0.6260	3.99	QP	9.68	13.67	56.00	-42.33	
	0.6260	-0.52	AVG	9.68	9.16	46.00	-36.84	
	2.1065	8.64	QP	9.73	18.37	56.00	-37.63	
	2.1065	4.50	AVG	9.73	14.23	46.00	-31.77	
	29.3374	21.80	QP	10.23	32.03	60.00	-27.97	
	29.3374	4.11	AVG	10.23	14.34	50.00	-35.66	

## Note

1. The formula of measured value as: Test Result = Reading + Correction Factor
2. The Correction Factor = Cable Loss + LISN Insertion Loss + Pulse Limit Loss
3. Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average
4. All not in the table noted test results are more than 20 dB below the relevant limits.
5. Measurement uncertainty =  $\pm 1.14$  dB; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.
6. Up Line: QP Limit Line, Down Line: Ave Limit Line.





Registration number: W6M21610-16308-P-15B

## **2.6 Equipment Modification**

No modification was made to pass all tests.



### **3 Normative references**

- /1/ FCC part 15 Subpart B  
Radio Frequency Devices
- /2/ ANSI C63.4-2014  
American National Standard for Methods of Measurement of Radio Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz



## **Appendix**

### **Photos**

1. External Photos
2. Internal Photos
3. Set Up Photo of Radiated Emission
4. Set Up Photo of Conducted Emission

Registration number: W6M21610-16308-P-15B

## External Photos







Registration number: W6M21610-16308-P-15B



Registration number: W6M21610-16308-P-15B





Registration number: W6M21610-16308-P-15B





Registration number: W6M21610-16308-P-15B



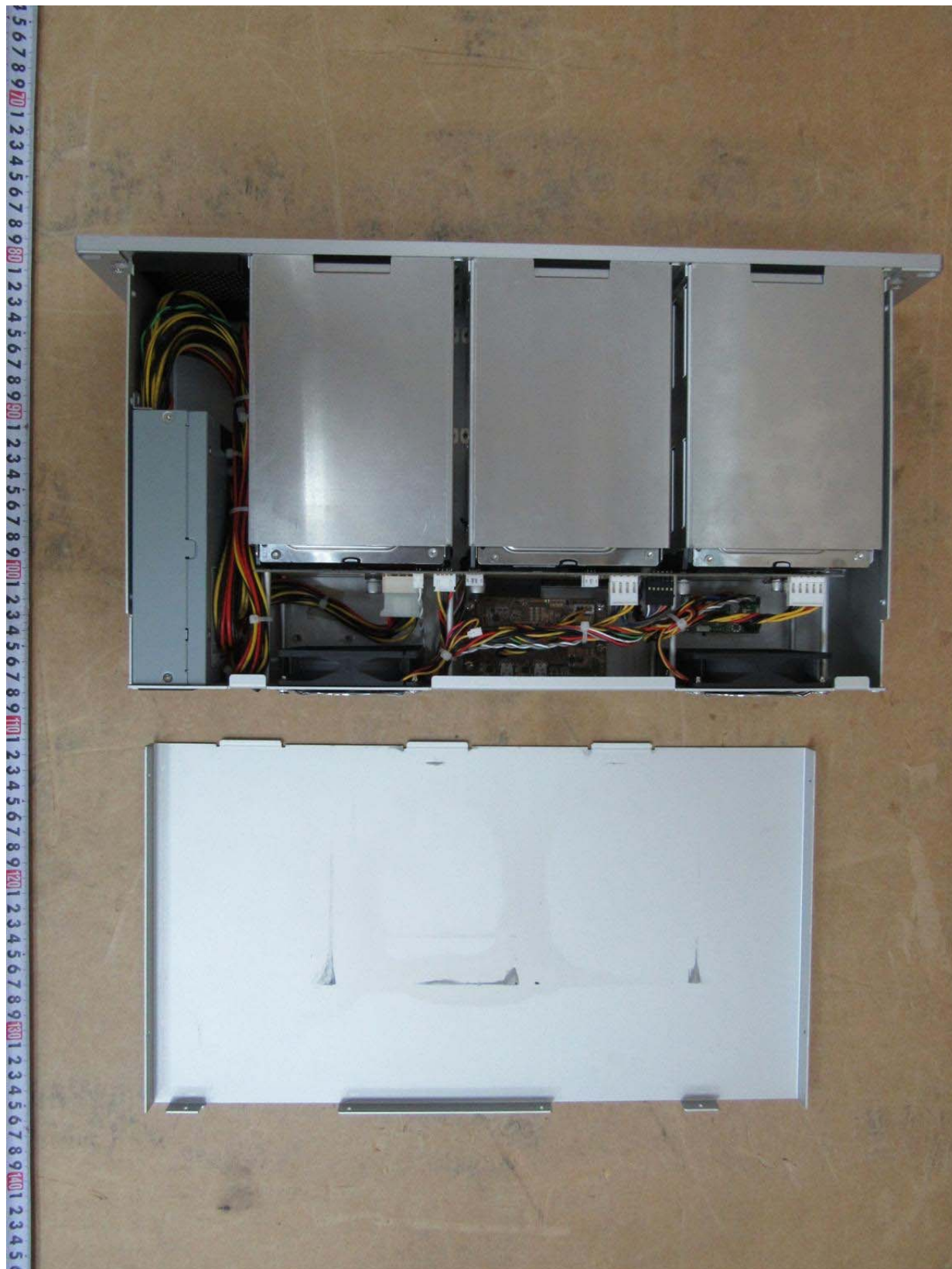


Registration number: W6M21610-16308-P-15B



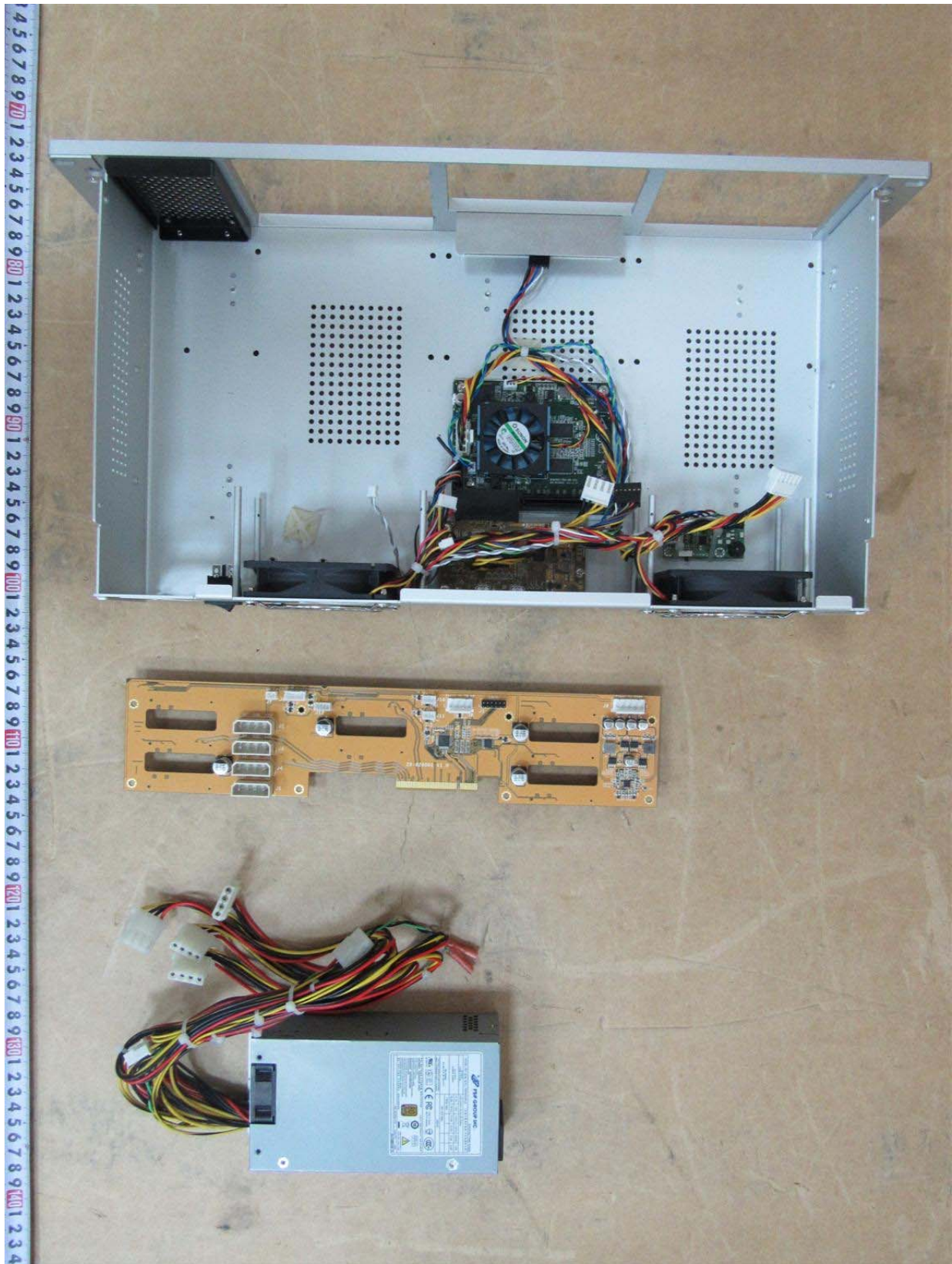
Registration number: W6M21610-16308-P-15B

## Internal Photos





Registration number: W6M21610-16308-P-15B



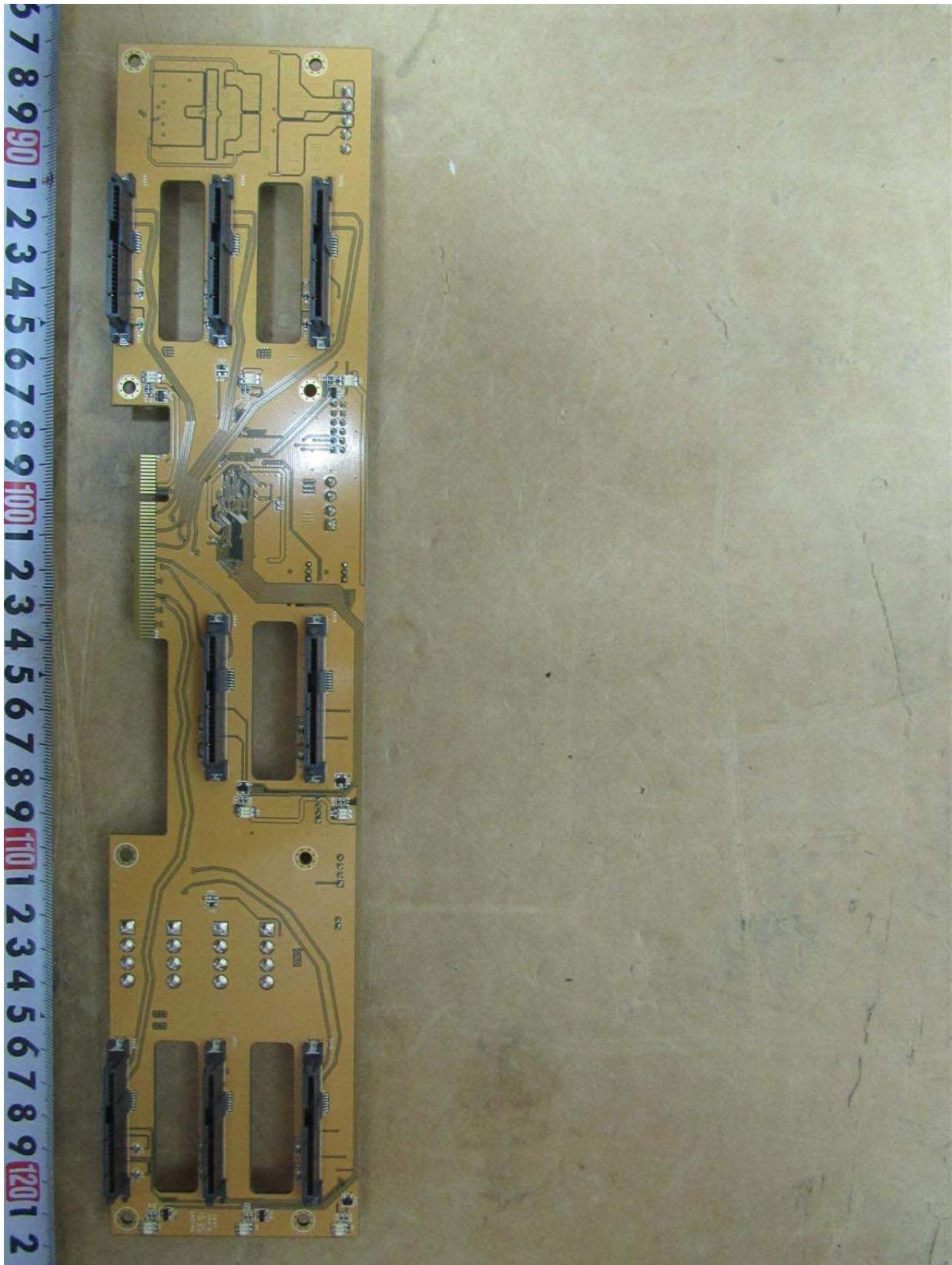


Registration number: W6M21610-16308-P-15B





Registration number: W6M21610-16308-P-15B





Registration number: W6M21610-16308-P-15B





Registration number: W6M21610-16308-P-15B





Registration number: W6M21610-16308-P-15B



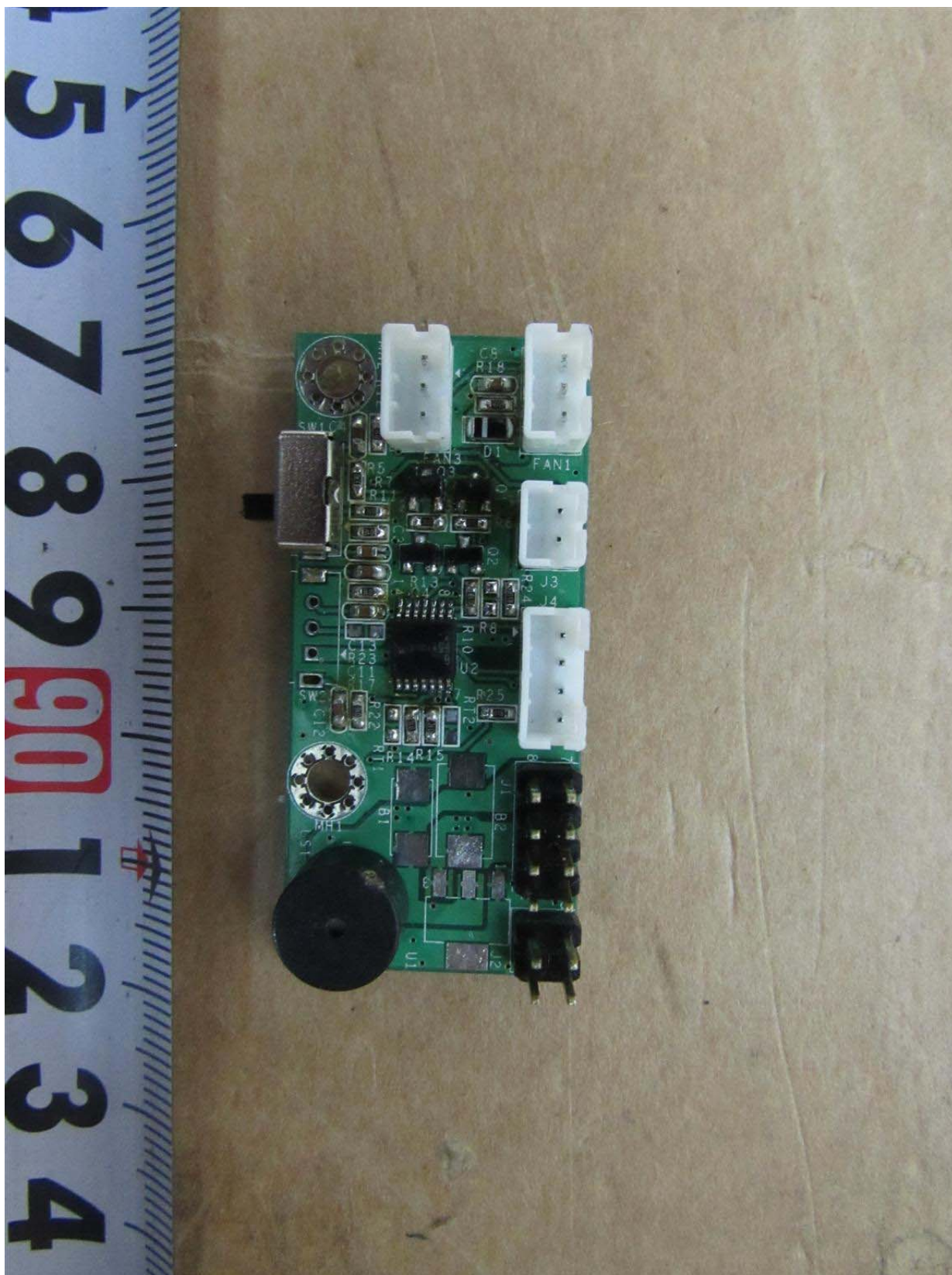


Registration number: W6M21610-16308-P-15B





Registration number: W6M21610-16308-P-15B





Registration number: W6M21610-16308-P-15B



Registration number: W6M21610-16308-P-15B

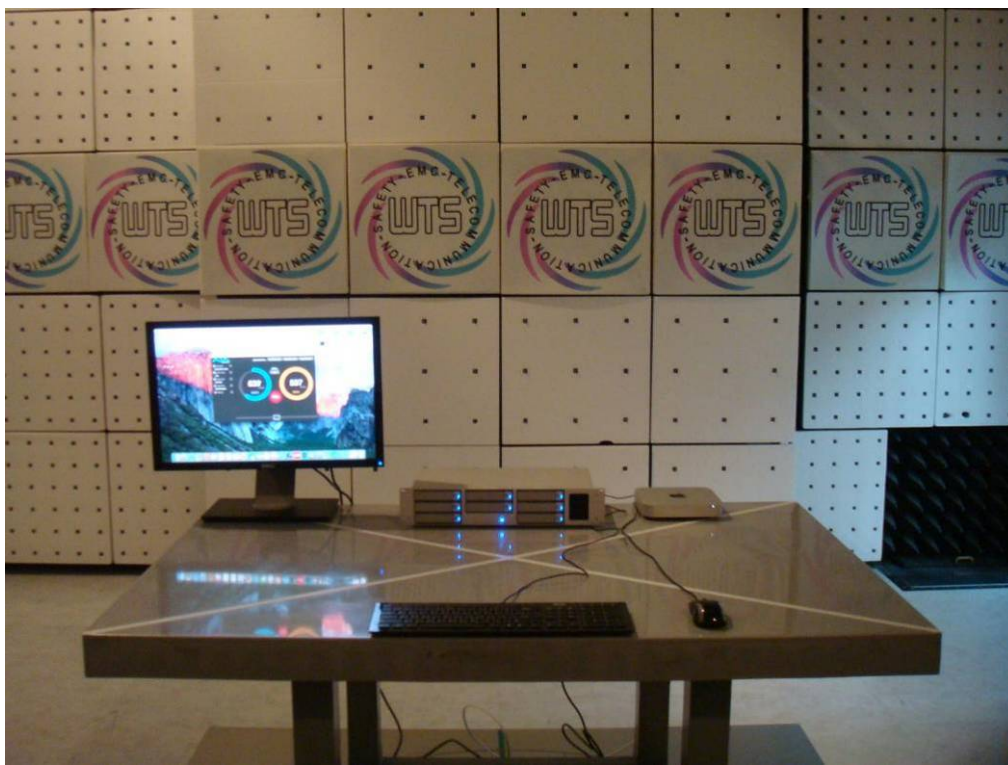






Registration number: W6M21610-16308-P-15B

## Set Up Photo of Radiated Emission Below 1GHz





Registration number: W6M21610-16308-P-15B

Above 1 GHz





Registration number: W6M21610-16308-P-15B

## Set Up Photo of Conducted Emission

