

**FCC PART 15 SUBPART C TEST REPORT**

**for**

**Outdoor GPS**

**Model No.: A03023**

**FCC ID: IPH-03023**

of

Applicant: **Garmin International Inc**

Address: 1200 E. 151st. Street Olathe Kansas 66062 United States

Tested and Prepared

by

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

**FCC Registration No.: 930600**

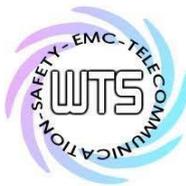
**Industry Canada filed test laboratory Reg. No. IC 5679A-1, IC 5107A-1**

**A2LA Accredited No.: 2732.01**



**Report No.: W6M21605-15841-C-9**

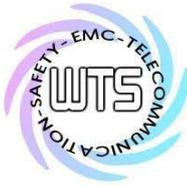
6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.  
TEL: 886-2-66068877 FAX: 886-2-66068879 E-mail: [wts@wts-lab.com](mailto:wts@wts-lab.com)



Registration number: W6M21605-15841-C-9  
FCC ID: IPH-03023

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**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 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.

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 1.5.

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.

**Tester:**

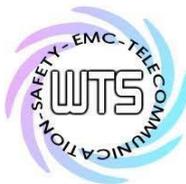
August 31, 2016	Rick Chen	<i>Rick Chen.</i>
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Date	WTS-Lab.	Name	Signature
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**Technical responsibility for area of testing:**

August 31, 2016	Kevin Wang	<i>Kevin Wang</i>
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Date	WTS	Name	Signature
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# **Worldwide Testing Services(Taiwan) Co., Ltd.**

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FCC ID: IPH-03023

## **1.2 Testing laboratory**

### **1.2.1 Location**

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 : 886-2-66068879

### **1.2.2 Details of accreditation status**

**Accredited testing laboratory**

**A2LA accredited number: 2730.01**

**FCC filed test laboratory Reg. No. 930600**

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

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

Name: ./.

Accredited number: ./.

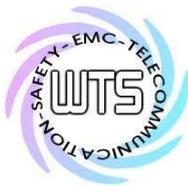
Street: ./.

Town: ./.

Country: ./.

Telephone: ./.

Fax: ./.



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

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## **1.3 Details of approval holder**

Name: Garmin International Inc  
Street: 1200 E. 151st. Street  
Town: Olathe Kansas 66062  
Country: United States  
Telephone: (913) 397-8448  
Fax: (913) 397-8282

## **1.4 Application details**

Date of receipt of test item: May 25, 2016  
Date of test: From May 25, 2016 to August 31, 2016

## **1.5 General information of Test item**

Type of test item: Outdoor GPS  
Model Number: A03023  
Multi-listing model number: ./.  
Photos:

see Annex

## **Technical data**

Frequency band: 2.400-2.4835 GHz  
Operation Frequency: 2.402-2.480 GHz  
Frequency 1: 2.403 GHz  
Frequency 2: 2.442 GHz  
Frequency 3: 2.480 GHz

Operation modes: Duplex  
Modulation Type: GFSK  
Antenna type: Chip Antenna  
Power supply: Adaptor (I/P: 100-240V~0.3A 50-60Hz 22-29VA ;  
O/P: 5.0V, 2.0A MAX)  
Battery: 3.7 Vd.c., 4400 mAh, 16.28 Wh  
DC: 12/24 V  
USB 5V.d.c. (power from PC)

## **Manufacturer: (if different from applicant)**

Name: Garmin Corporation  
Street: No.68, Zhangshu 2nd Rd., Xizhi Dist.,  
Town: New Taipei City 221,  
Country: Taiwan (R.O.C.)

Additional information: ./.

## **1.6 Test standards**

Technical standard : FCC RULES PART 15 SUBPART C § 15.249 (2015-10)



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## **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 2.5 were ascertained in the course of the tests performed.

### **2.2 Test environment**

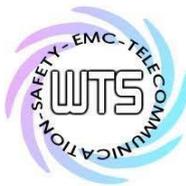
Temperature: 23 °C

Relative humidity content: 20 ... 75 %

Air pressure: 86 ... 103 kPa

Details Power supply: Adaptor (I/P: 100-240V~0.3A 50-60Hz 22-29VA ;  
O/P: 5.0V, 2.0A MAX)  
Battery: 3.7 Vd.c., 4400 mAh, 16.28Wh  
DC: 12/24 V  
USB 5V.d.c. (power from PC)

Extreme conditions parameters: ./.



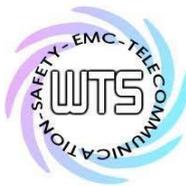
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## 2.3 Test Equipment List

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	2015/9/7	2016/9/6
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	2015/9/6	2016/9/5
ETSTW-RE 088	SOLID STATE AMPLIFIER	KMA180265A01	99057	KMIC	2015/9/21	2016/9/20
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

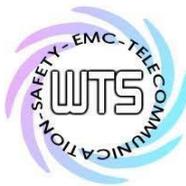


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ETSTW-RE 126	5GHz Notch filter	5NSL12-5800/E221.3-O/O	1	K&L Microwave	2016/8/10	2017/8/9
ETSTW-RE 127	RF Switch Box	RFS-01	None	WTS	2016/2/25	2017/2/24
ETSTW-RE 128	5.3GHz Notch filter	N0153001	SN487233	Microwave Circuits	2016/8/10	2017/8/9
ETSTW-RE 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	2015/9/9	2016/9/8
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	2015/9/16	2016/9/15
ETSTW-Cable 010	BNC Cable	5 M BNC Cable	None	JYE BAO CO.,LTD.	2015/9/11	2016/9/10
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.	2015/9/11	2016/9/10
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	2015/9/21	2016/9/20
ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2015/9/21	2016/9/20
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	



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## **2.4 General Test Procedure**

**POWER LINE CONDUCTED INTERFERENCE:** The procedure used was ANSI STANDARD C63.10-2013 6.2 using a LISN (if necessary). Both lines were observed. The bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed.

**RADIATION INTERFERENCE:** The test procedure used was according to ANSI STANDARD C63.10-2013 6.3 employing a spectrum analyzer. For investigated frequency is equal to or below 1GHz, the RBW and VBW of the spectrum analyzer was 100 kHz and 100kHz respectively with an appropriate sweep speed. For investigated frequency is above 1GHz, both of RBW and VBW of the spectrum analyzer were 1 MHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna.

**FORMULA OF CONVERSION FACTORS:** The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dB $\mu$ V) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB.

Example:

Freq (MHz)      METER READING + ACF + CABLE LOSS (to the receiver) = FS  
33                      20 dB $\mu$ V + 10.36 dB + 6 dB = 36.36 dB $\mu$ V/m @3m

**ANSI STANDARD C63.10-2013 6.2.2 MEASUREMENT PROCEDURES:** The EUT was placed on a table 80 cm height and with dimensions of 1m by 1.5m (non metallic table). The EUT was placed in the centre of the table. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to 10<sup>th</sup> harmonic of the fundamental.

Peak readings were taken in three (3) orthogonal planes and the highest readings.

Measurements were made by Worldwide Testing Services(Taiwan) Co., Ltd. at the registered open field test site located at No.5-1, Lishui, Shuang Sing Village, Wanli Dist., New Taipei City 207, Taiwan (R.O.C.). The Registration Number: 930600.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

**ANSI STANDARD C63.10-2013 B.2.7:** Any measurements that utilize special test software shall be indicated and referenced in the test report. During testing, test software 'EZ EMC' was used for setting up different operation modes.



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**3 Test results (enclosure)**

Test case	Para. Number	Required	Test passed	Test failed
Peak Output Power	15.249 (a)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Spurious Emissions radiated – Transmitter operating	15.249 (e)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Spurious Emissions conducted – Transmitter operating	15.249 (e)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Radiated Emission from Receiver Part	15.109	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Out of Band Spurious Emission, Band edge-Transmitter operating	15.249 (e)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Power Line Conducted Emission	15.207	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

The following is intentionally left blank.



Registration number: W6M21605-15841-C-9

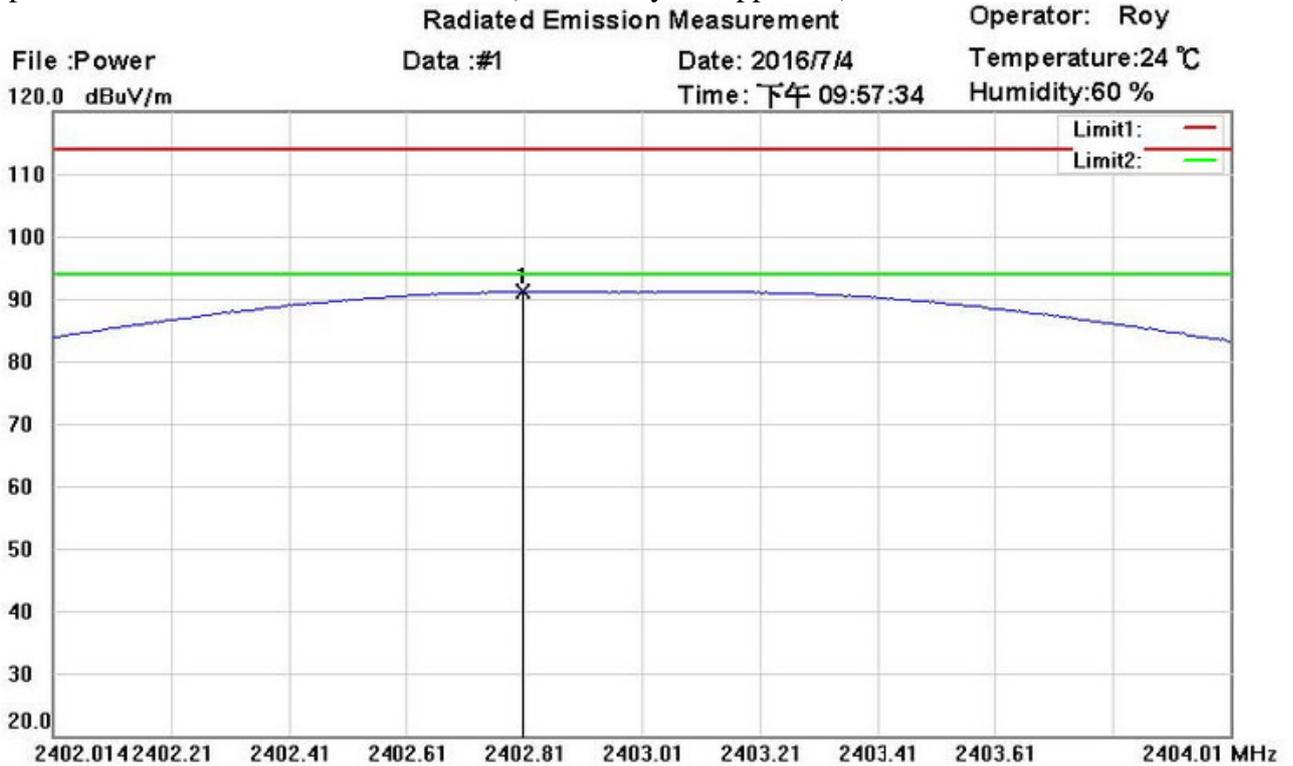
FCC ID: IPH-03023

### 3.1 Peak Output Power (transmitter)

FCC Rule: 15.249 (b)

This measurement applies to equipment with an integral antenna and to equipment with an antenna connector and equipped with an antenna as declared by the applicant.

The power was measured with modulation (declared by the applicant).



Site : Chamber

Condition : FCC 15.249 power\_PK

EUT : W6M21605-15841

M/N:

Test Mode : Power

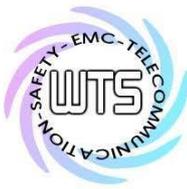
Note :

Polarization: *Horizontal*

Power : 120 Va.c.

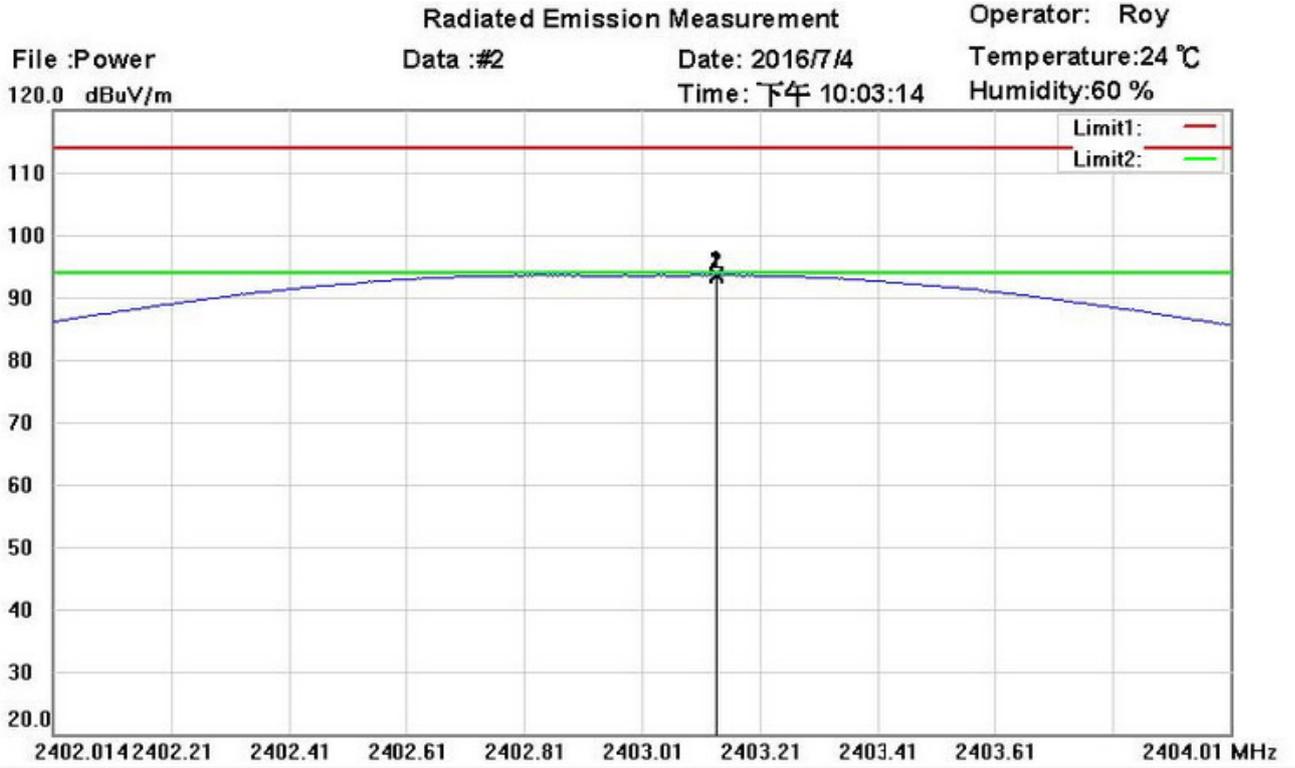
Distance: 3m

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
*	2402.808	52.71	peak	38.51	91.22	114.00	100	125	-22.78	



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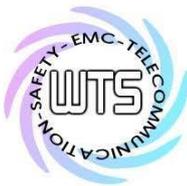
Registration number: W6M21605-15841-C-9  
 FCC ID: IPH-03023



Site : Chamber  
 Condition : FCC 15.249 power\_PK  
 EUT : W6M21605-15841  
 M/N:  
 Test Mode : Power  
 Note :

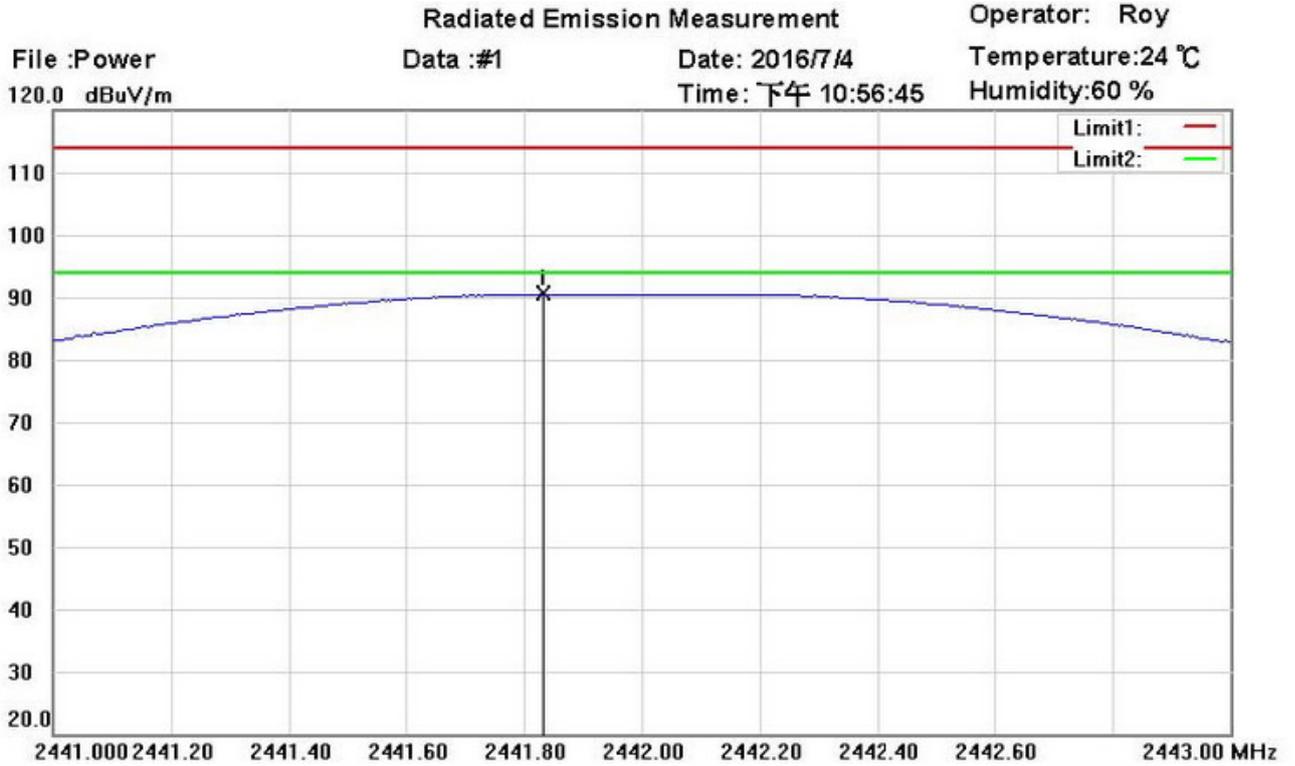
Polarization: *Vertical*  
 Power : 120 Va.c.  
 Distance: 3m

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
	2403.140	55.10	peak	38.51	93.61	114.00	100	100	-20.39	
*	2403.140	54.75	AVG	38.51	93.26	94.00	100	100	-0.74	



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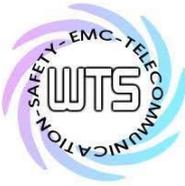
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Site : Chamber  
 Condition : FCC 15.249 power\_PK  
 EUT : W6M21605-15841  
 M/N:  
 Test Mode : Power  
 Note :

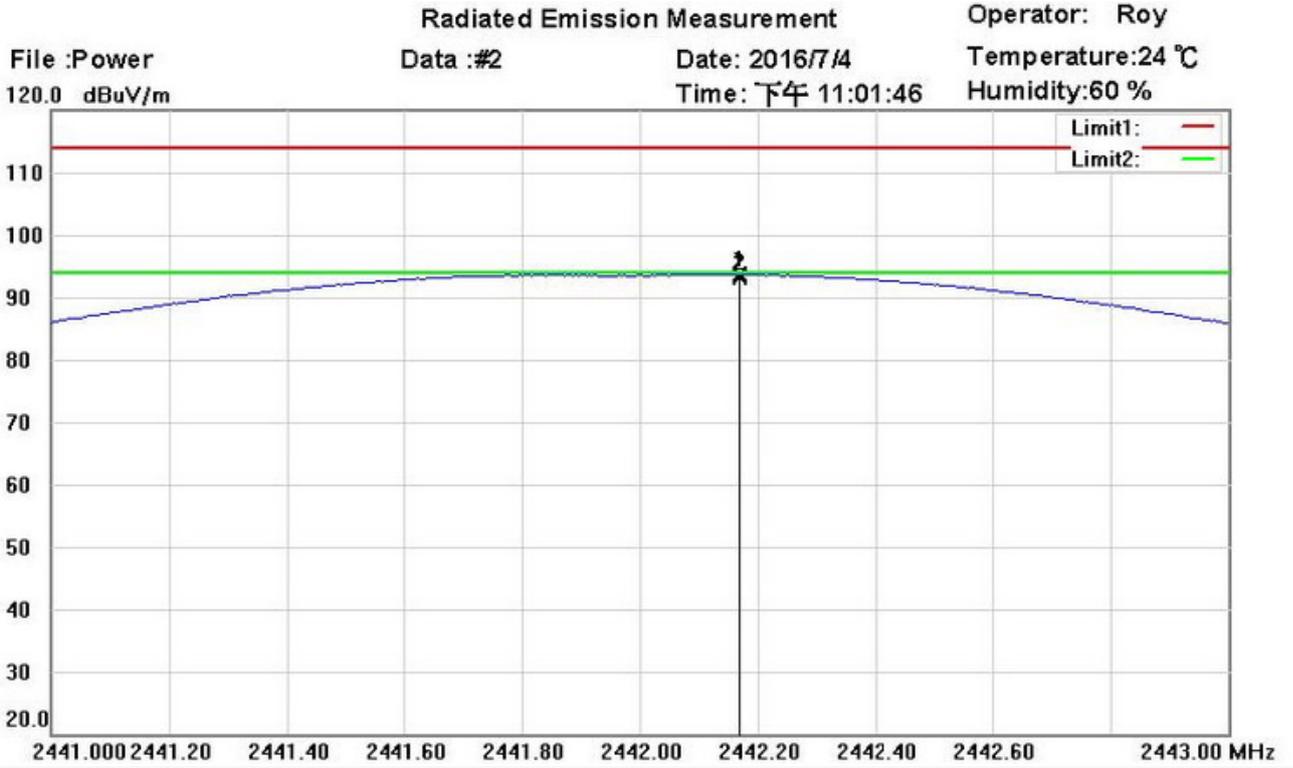
Polarization: *Horizontal*  
 Power : 120 Va.c.  
 Distance: 3m

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
*	2441.830	51.89	peak	38.63	90.52	114.00	100	155	-23.48	



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

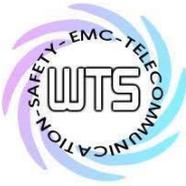
Registration number: W6M21605-15841-C-9  
 FCC ID: IPH-03023



Site : Chamber  
 Condition : FCC 15.249 power\_PK  
 EUT : W6M21605-15841  
 M/N:  
 Test Mode : Power  
 Note :

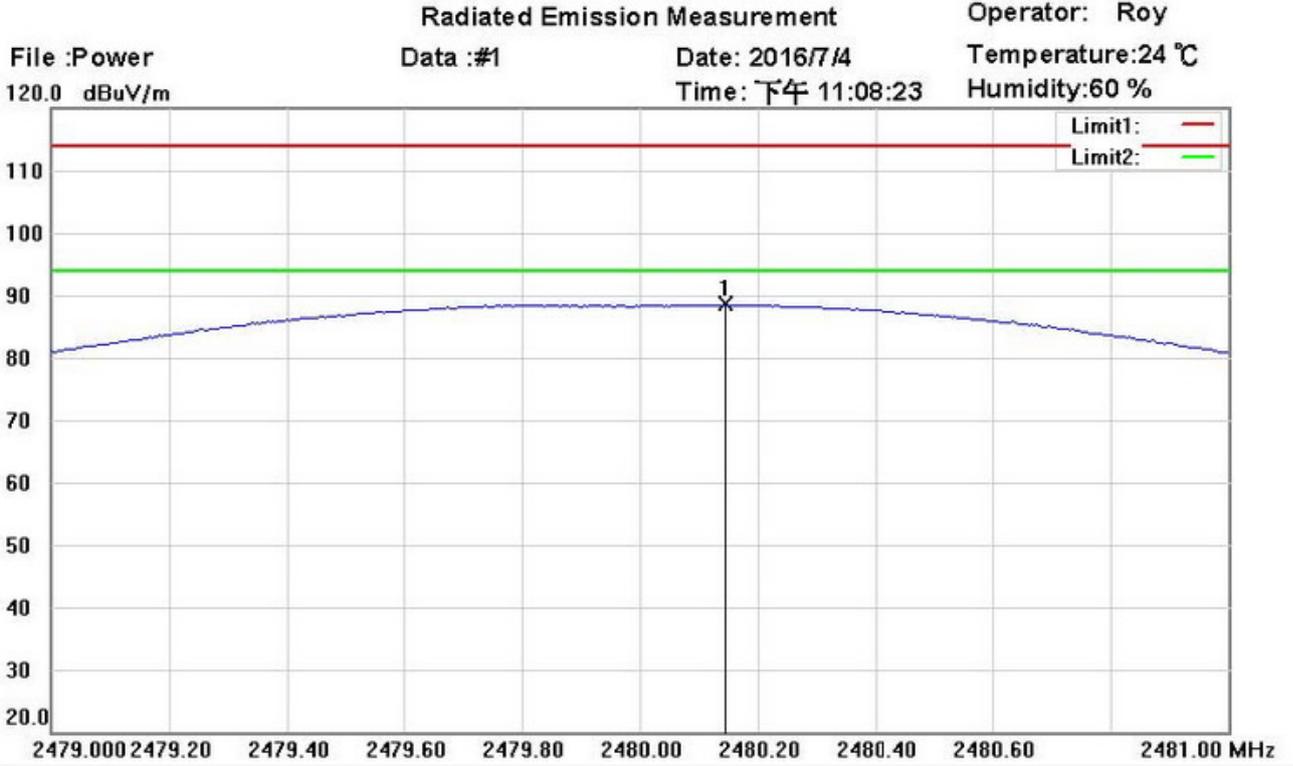
Polarization: *Vertical*  
 Power : 120 Va.c.  
 Distance: 3m

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
	2442.170	54.99	peak	38.63	93.62	114.00	100	170	-20.38	
*	2442.170	54.48	AVG	38.63	93.11	94.00	100	170	-0.89	



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

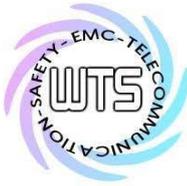
Registration number: W6M21605-15841-C-9  
 FCC ID: IPH-03023



Site : Chamber  
 Condition : FCC 15.249 power\_PK  
 EUT : W6M21605-15841  
 M/N:  
 Test Mode : Power  
 Note :

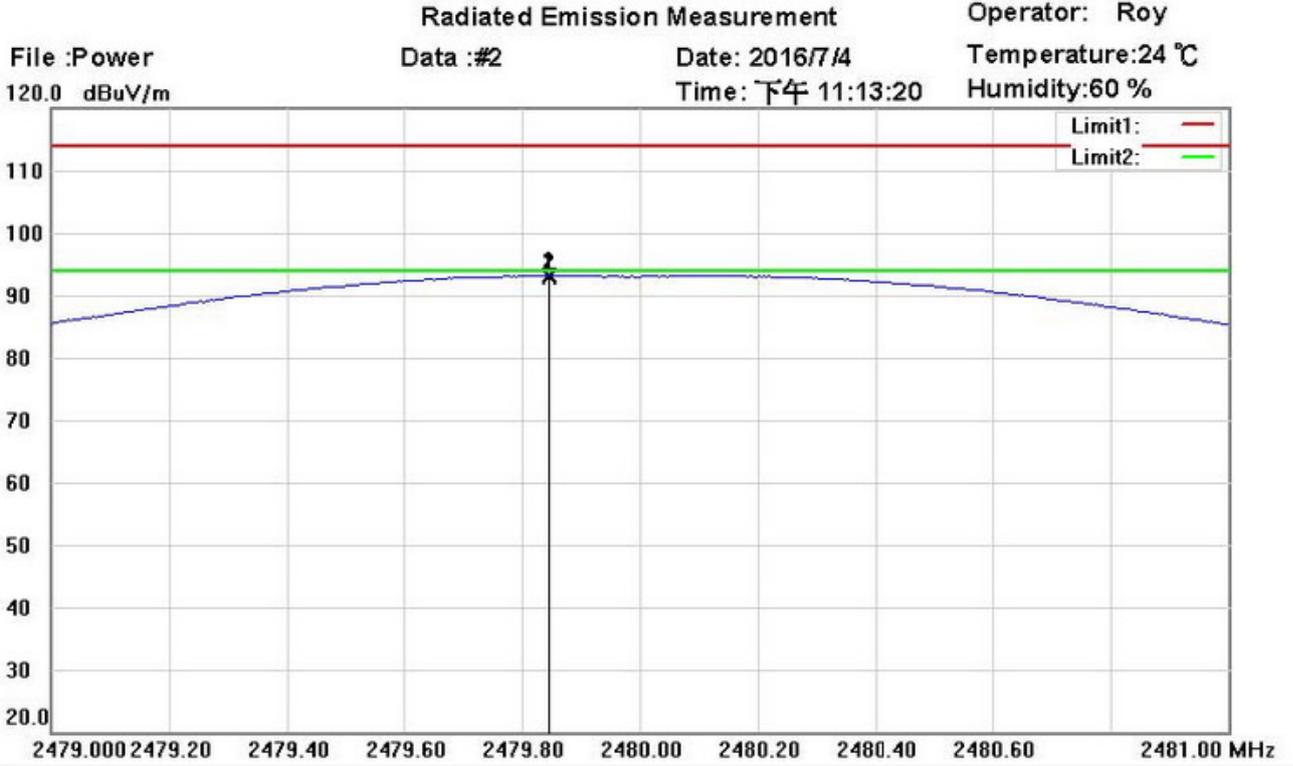
Polarization: *Horizontal*  
 Power : 120 Va.c.  
 Distance: 3m

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
*	2480.146	49.77	peak	38.76	88.53	114.00	100	240	-25.47	



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

Registration number: W6M21605-15841-C-9  
 FCC ID: IPH-03023



Site : Chamber  
 Condition : FCC 15.249 power\_PK  
 EUT : W6M21605-15841  
 M/N:  
 Test Mode : Power  
 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
	2479.842	54.39	peak	38.76	93.15	114.00	100	195	-20.85	
*	2479.842	54.02	AVG	38.76	92.78	94.00	100	195	-1.22	

Test equipment used: ETSTW-RE 004, ETSTW-RE 030, ETSTW-RE 062, ETSTW-RE 142, ETSTW-RE 147



Registration number: W6M21605-15841-C-9

FCC ID: IPH-03023

**3.2 Equivalent isotropic radiated power**

Because using an permanent antenna there are no deviations from the radiated test results according 3.1.

**3.3 RF Exposure Compliance Requirements**

Not applicable for this EUT for the low power level.

**3.4 Out of Band Radiated Emissions**

FCC Rule: 15.249 (d)(e), 15.35(b)

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

For frequency above 1000 MHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

Limits:

Frequency of Emission (MHz)	Field strength (microvolts/meter)	Field Strength (dB microvolts/meter)
30 - 88	100	40.0
88 - 216	150	43.5
216 - 960	200	46.5
Above 960	500	54.0

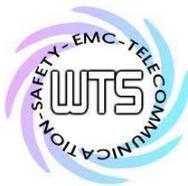
For frequencies above 1 GHz (Peak measurements).

Limit + 20 dB     $54.0 \text{ dB}\mu\text{V/m} + 20 \text{ dB} = 74 \text{ dB}\mu\text{V/m}$

Or

Must be attenuated at least 50dB below the level of fundament

Test equipment used: ETSTW-RE 004, ETSTW-RE 062, ETSTW-RE 142, ETSTW-RE 147, ETSTW-RE 030



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

Registration number: W6M21605-15841-C-9

FCC ID: IPH-03023

## 3.5 Spurious emission (tx)

Spurious emission was measured with modulation (declared by manufacturer).

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

For frequencies above 1000 MHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

SAMPLE CALCULATION OF LIMIT. ALL results will be updated by an automatic measuring system in accordance with point 2.3.

The peak and average spurious emission plots was measured with the average limits.  
The critical peak value listed in the table agree with the above calculated limits.

### Summary table with radiated data of the test plots

Model: A03023 Date: --  
 Mode: -- Temperature: -- °C Engineer: --  
 Polarization: -- Humidity: -- %

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--

- 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.
  5. Measurement uncertainty for 3m measurement: 30-1000 MHz = ± 4.69 dB, 1-18 GHz = ± 4.78 dB, 18-40 GHz = ± 2.44 dB ; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.
  6. Up Line: PK Limit Line, Down Line: Ave Limit Line.
  7. See attached diagrams in appendix.

**TEST RESULT (Transmitter):** The unit DOES meet the FCC requirements.

Test equipment used: ETSTW-RE 004, ETSTW-RE 062, ETSTW-RE 142, ETSTW-RE 147, ETSTW-RE 030, ETSTW-RE 088, ETSTW-RE 018



Registration number: W6M21605-15841-C-9  
 FCC ID: IPH-03023

**3.6 Radiated Emissions from Receiver Part**

FCC Rule: 15.109

Model: A03023 Date: --  
 Mode: -- Temperature: -- °C Engineer: --  
 Polarization: -- Humidity: -- %

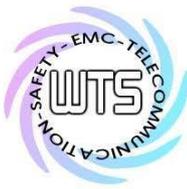
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--

- Correction Factor = Antenna factor + Cable loss - Preamplifier**
- The formula of measured value as: Test Result = Reading + Correction Factor**
- Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average**
- 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 = ± 4.69 dB, 1-18 GHz = ±4.78 dB, 18-40 GHz= ±2.44 dB ; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.**

Test equipment used: ETSTW-RE 004, ETSTW-RE 111, ETSTW-RE 030, ETSTW-RE 044

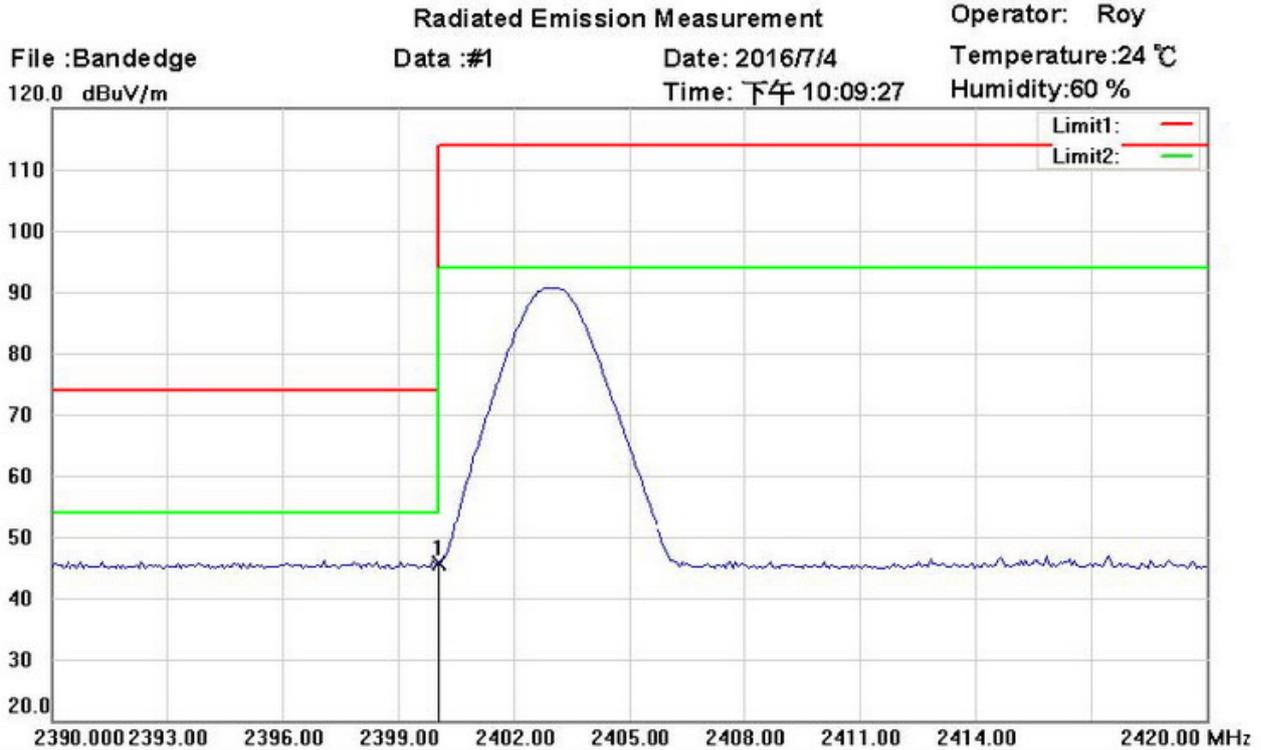
Explanation: The test results are listed in the separated test report no.: W6M21605-15841-P-15B.



Registration number: W6M21605-15841-C-9  
 FCC ID: IPH-03023

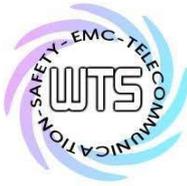
**3.7 Radiated Emission on the band edge**

From the following plots, they show that the fundamental emissions are confined in the specified band and they are at least 50 dB below the carrier level at band edge (2400 and 2483.5 MHz). It meets the requirement of section 15.249(d).



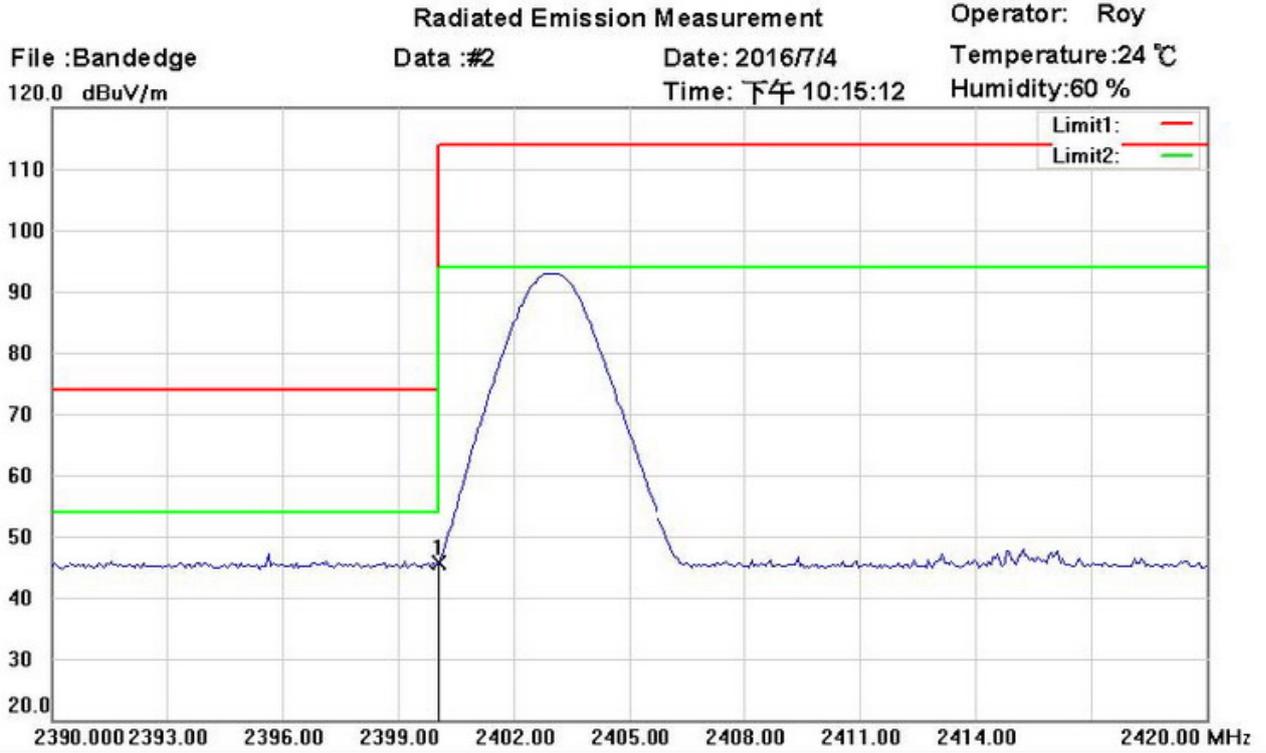
Site : Chamber  
 Condition : FCC 15.249 PK (Bandedge)      Polarization: *Horizontal*  
 EUT : W6M21605-15841      Power : 120 Va.c.  
 M/N:  
 Test Mode : TX 2403MHz      Distance: 3m  
 Note :

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
*	2400.000	7.12	peak	38.50	45.62	74.00	100	135	-28.38	



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

Registration number: W6M21605-15841-C-9  
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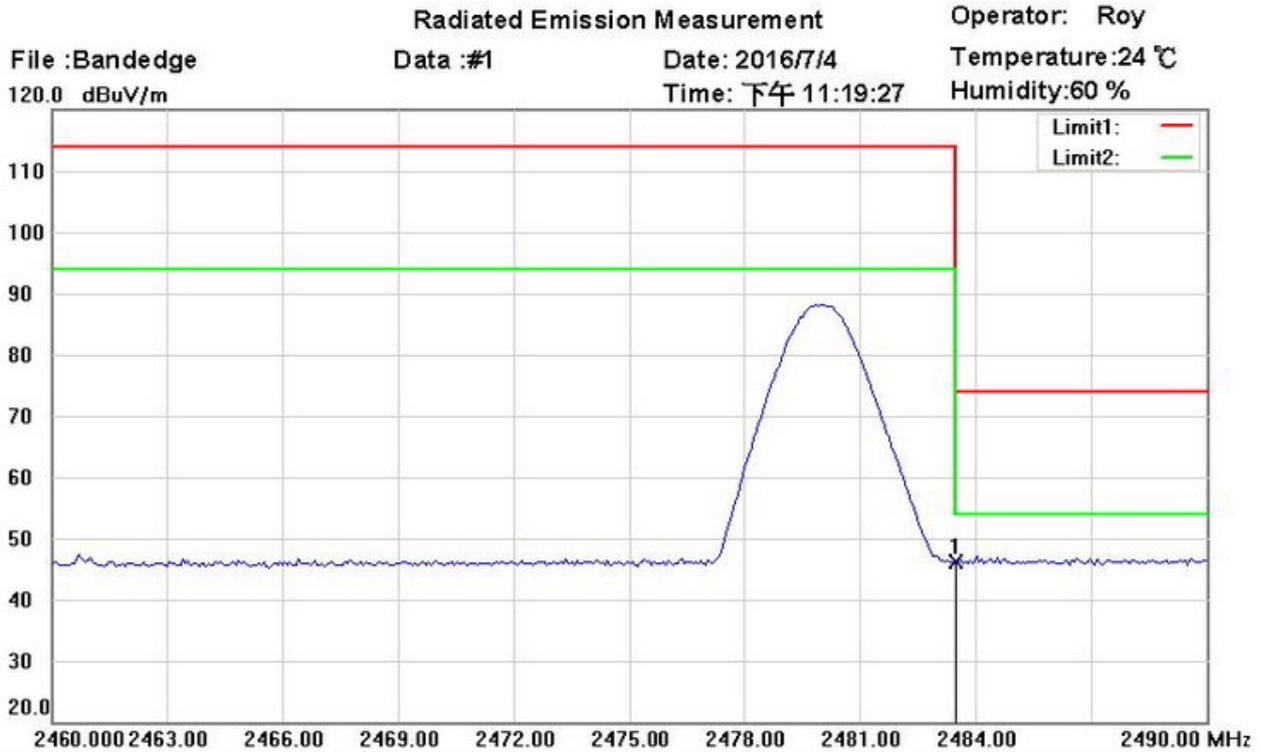
Site : Chamber  
 Condition : FCC 15.249 PK (Bandedge)      Polarization: *Vertical*  
 EUT : W6M21605-15841      Power : 120 Va.c.  
 M/N:      Distance: 3m  
 Test Mode : TX 2403MHz  
 Note :

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
*	2400.000	7.05	peak	38.50	45.55	74.00	100	240	-28.45	



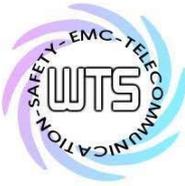
# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21605-15841-C-9  
 FCC ID: IPH-03023



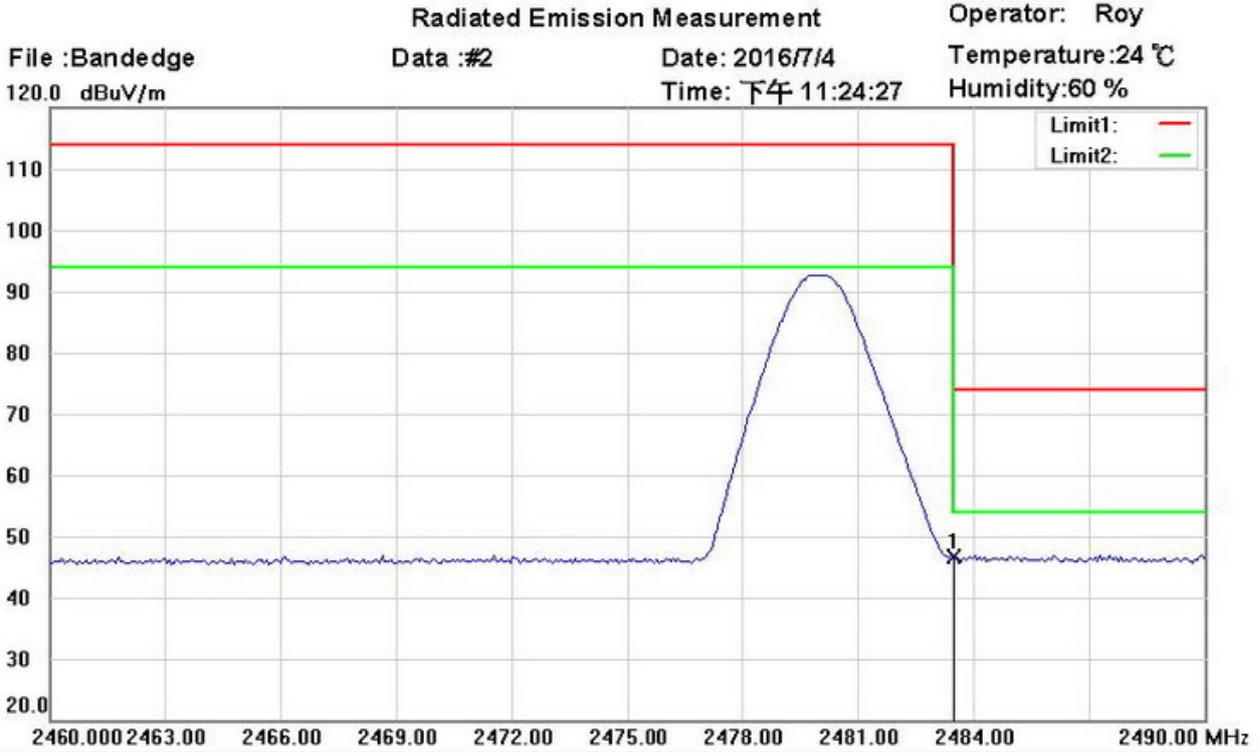
Site : Chamber  
 Condition : FCC 15.249 PK (Bandedge)      Polarization: *Horizontal*  
 EUT : W6M21605-15841      Power : 120 Va.c.  
 M/N:      Distance: 3m  
 Test Mode : TX 2480MHz  
 Note :

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
*	2483.500	7.38	peak	38.77	46.15	74.00	100	80	-27.85	



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

Registration number: W6M21605-15841-C-9  
 FCC ID: IPH-03023



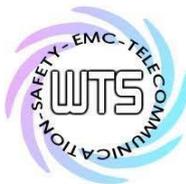
Site : Chamber  
 Condition : FCC 15.249 PK (Bandedge)      Polarization: *Vertical*  
 EUT : W6M21605-15841      Power : 120 Va.c.  
 M/N:  
 Test Mode : TX 2480MHz      Distance: 3m  
 Note :

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
*	2483.500	7.81	peak	38.77	46.58	74.00	100	200	-27.42	

Limit:

Frequency Range (MHz)	Limit (dBuV/m)	
	Peak	Average
902 – 928	114	94
2400 – 2483.5	74	54
5725 – 5875	74	54

Test equipment used: ETSTW-RE 004, ETSTW-RE 030, ETSTW-RE 062, ETSTW-RE 142, ETSTW-RE 147



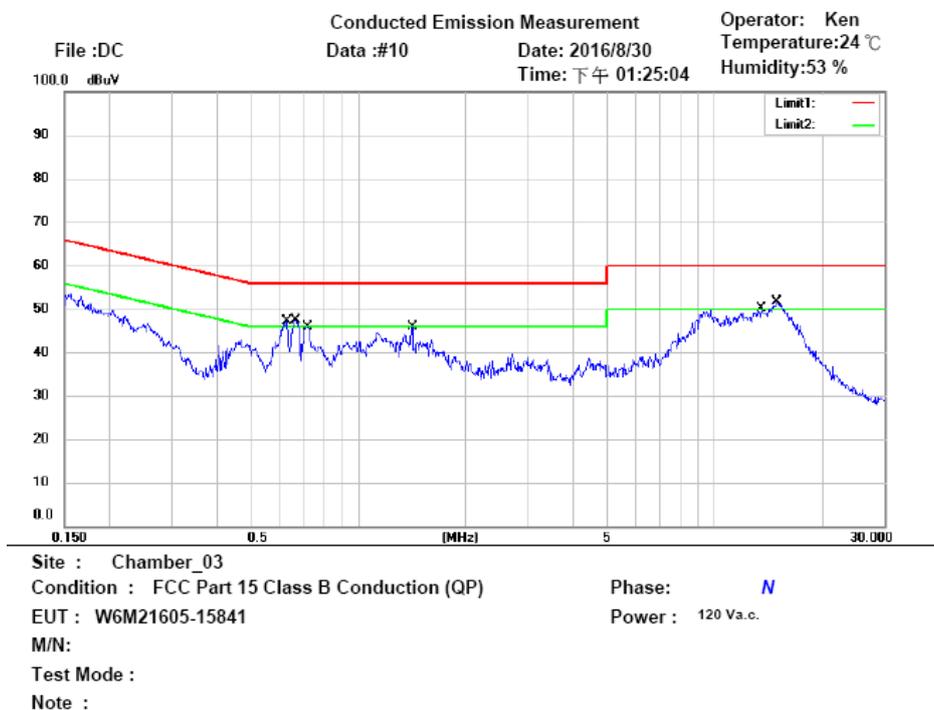
Registration number: W6M21605-15841-C-9

FCC ID: IPH-03023

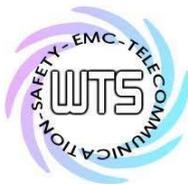
## 3.8 Power Line Conducted Emission

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the table bellows with this provision shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminals.

This measurement was transact 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.



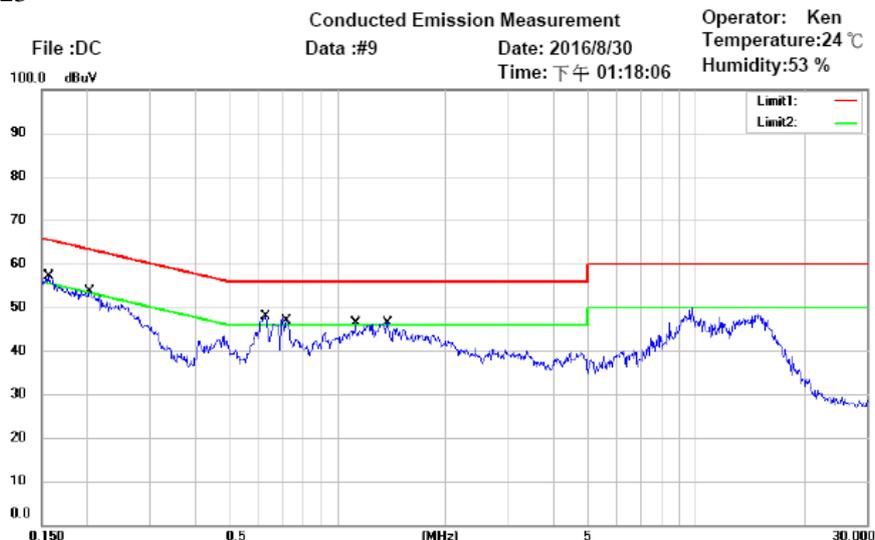
Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.6282	28.79	QP	9.74	38.53	56.00	-17.47	
	0.6282	11.20	AVG	9.74	20.94	46.00	-25.06	
*	0.6665	34.21	QP	9.74	43.95	56.00	-12.05	
	0.6665	13.77	AVG	9.74	23.51	46.00	-22.49	
	0.7182	32.10	QP	9.74	41.84	56.00	-14.16	
	0.7182	14.79	AVG	9.74	24.53	46.00	-21.47	
	1.4113	23.36	QP	9.77	33.13	56.00	-22.87	
	1.4113	11.83	AVG	9.77	21.60	46.00	-24.40	
	13.5000	31.09	QP	10.16	41.25	60.00	-18.75	
	13.5000	14.55	AVG	10.16	24.71	50.00	-25.29	
	14.9125	30.70	QP	10.18	40.88	60.00	-19.12	
	14.9125	13.11	AVG	10.18	23.29	50.00	-26.71	



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

Registration number: W6M21605-15841-C-9

FCC ID: IPH-03023



Site : Chamber\_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: L1

EUT : W6M21605-15841

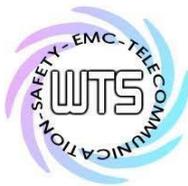
Power : 120 Va.c.

M/N:

Test Mode :

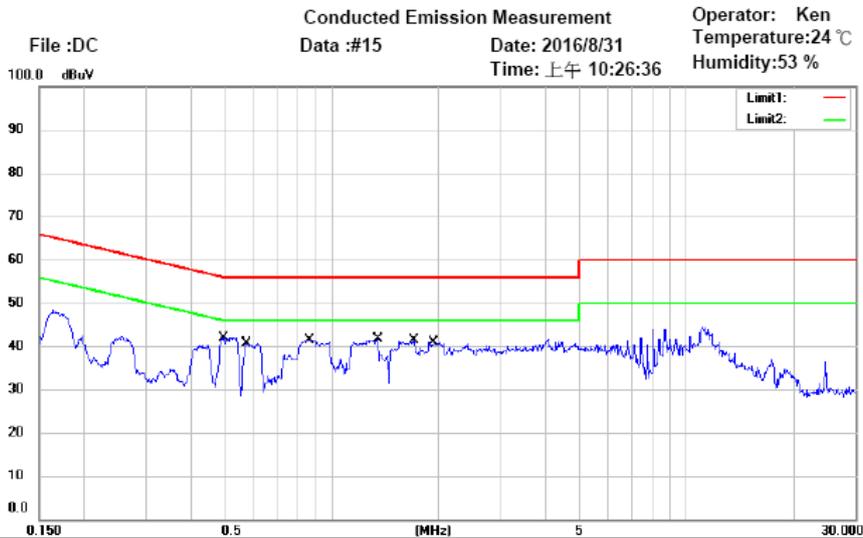
Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1563	36.29	QP	9.74	46.03	65.66	-19.63	
	0.1563	16.74	AVG	9.74	26.48	55.66	-29.18	
	0.2031	35.33	QP	9.73	45.06	63.48	-18.42	
	0.2031	15.89	AVG	9.73	25.62	53.48	-27.86	
	0.6282	31.49	QP	9.74	41.23	56.00	-14.77	
	0.6282	13.77	AVG	9.74	23.51	46.00	-22.49	
*	0.7193	33.26	QP	9.74	43.00	56.00	-13.00	
	0.7193	16.96	AVG	9.74	26.70	46.00	-19.30	
	1.1210	28.48	QP	9.75	38.23	56.00	-17.77	
	1.1210	12.88	AVG	9.75	22.63	46.00	-23.37	
	1.3753	31.14	QP	9.77	40.91	56.00	-15.09	
	1.3753	12.38	AVG	9.77	22.15	46.00	-23.85	



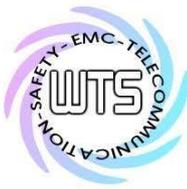
# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21605-15841-C-9  
 FCC ID: IPH-03023



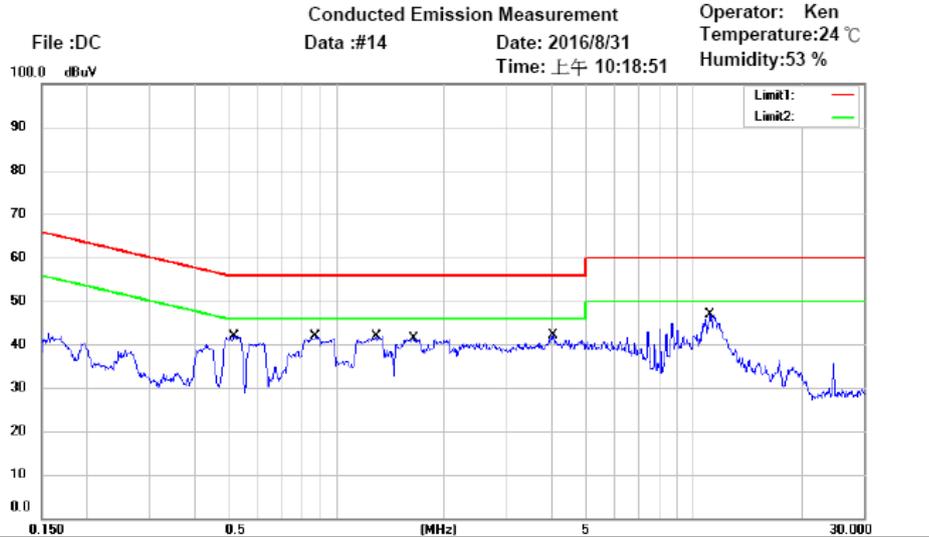
Site : Chamber\_03  
 Condition : FCC Part 15 Class B Conduction (QP) Phase: N  
 EUT : W6M21605-15841 Power : 120 V.a.c.  
 M/N:  
 Test Mode : PC  
 Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.4946	29.31	QP	9.73	39.04	56.09	-17.05	
	0.4946	17.79	AVG	9.73	27.52	46.09	-18.57	
	0.5742	27.77	QP	9.73	37.50	56.00	-18.50	
	0.5742	14.91	AVG	9.73	24.64	46.00	-21.36	
	0.8622	28.80	QP	9.74	38.54	56.00	-17.46	
	0.8622	13.89	AVG	9.74	23.63	46.00	-22.37	
	1.3460	27.64	QP	9.76	37.40	56.00	-18.60	
	1.3460	12.69	AVG	9.76	22.45	46.00	-23.55	
*	1.7015	29.27	QP	9.78	39.05	56.00	-16.95	
	1.7015	13.90	AVG	9.78	23.68	46.00	-22.32	
	1.9355	26.03	QP	9.79	35.82	56.00	-20.18	
	1.9355	14.30	AVG	9.79	24.09	46.00	-21.91	



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

Registration number: W6M21605-15841-C-9  
 FCC ID: IPH-03023



Site : Chamber\_03  
 Condition : FCC Part 15 Class B Conduction (QP) Phase: L1  
 EUT : W6M21605-15841 Power : 120 Va.c.  
 M/N:  
 Test Mode : PC  
 Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
*	0.5157	29.58	QP	9.73	39.31	56.00	-16.69	
	0.5157	17.66	AVG	9.73	27.39	46.00	-18.61	
	0.8735	29.04	QP	9.74	38.78	56.00	-17.22	
	0.8735	14.48	AVG	9.74	24.22	46.00	-21.78	
	1.2943	27.77	QP	9.76	37.53	56.00	-18.47	
	1.2943	13.19	AVG	9.76	22.95	46.00	-23.05	
	1.6520	26.68	QP	9.78	36.46	56.00	-19.54	
	1.6520	13.89	AVG	9.78	23.67	46.00	-22.33	
	3.9943	24.71	QP	9.88	34.59	56.00	-21.41	
	3.9943	16.22	AVG	9.88	26.10	46.00	-19.90	
	11.0750	29.25	QP	10.07	39.32	60.00	-20.68	
	11.0750	22.13	AVG	10.07	32.20	50.00	-17.80	

- Note: 1. The formula of measured value as: Test Result = Reading + Correction Factor  
 2. The Correction Factor = Cable Loss + LISN Insertion 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 = ±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.

## Limits:

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi Peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

Test equipment used: ETSTW-CE 001, ETSTW-CE 016, ETSTW-RE 045



Registration number: W6M21605-15841-C-9  
FCC ID: IPH-03023

## **Appendix**

### **Measurement diagrams**

Spurious Emissions radiated



Radiated Emission Measurement

Operator: Roy

File :1

Data :#1

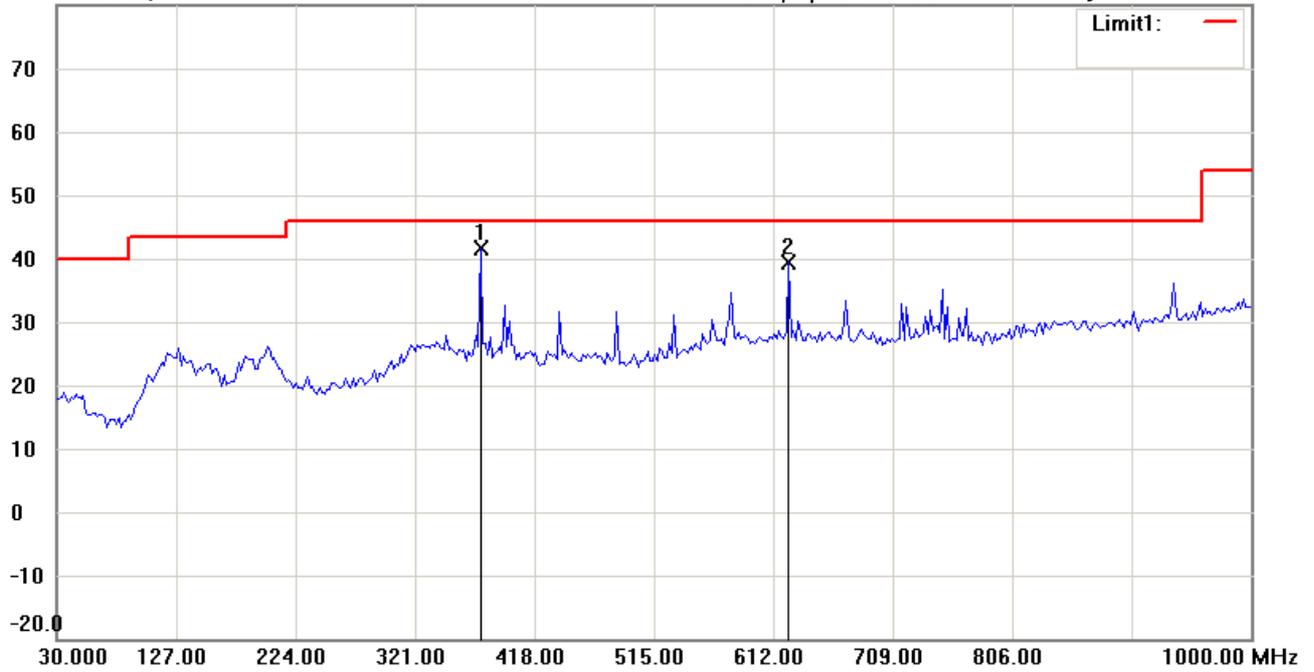
Date: 2016/7/20

Temperature:24 °C

80.0 dBuV/m

Time: 下午 09:42:30

Humidity:60 %



Site : Chamber

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

EUT : W6M21605-15841

M/N:

Test Mode : TX 2403MHz

Note :

Polarization: *Horizontal*

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
*	374.0681	45.77	peak	-4.14	41.63	46.00	100	140	-4.37	
	624.8297	39.47	peak	-0.12	39.35	46.00	100	165	-6.65	



Radiated Emission Measurement

Operator: Roy

File :1

Data :#2

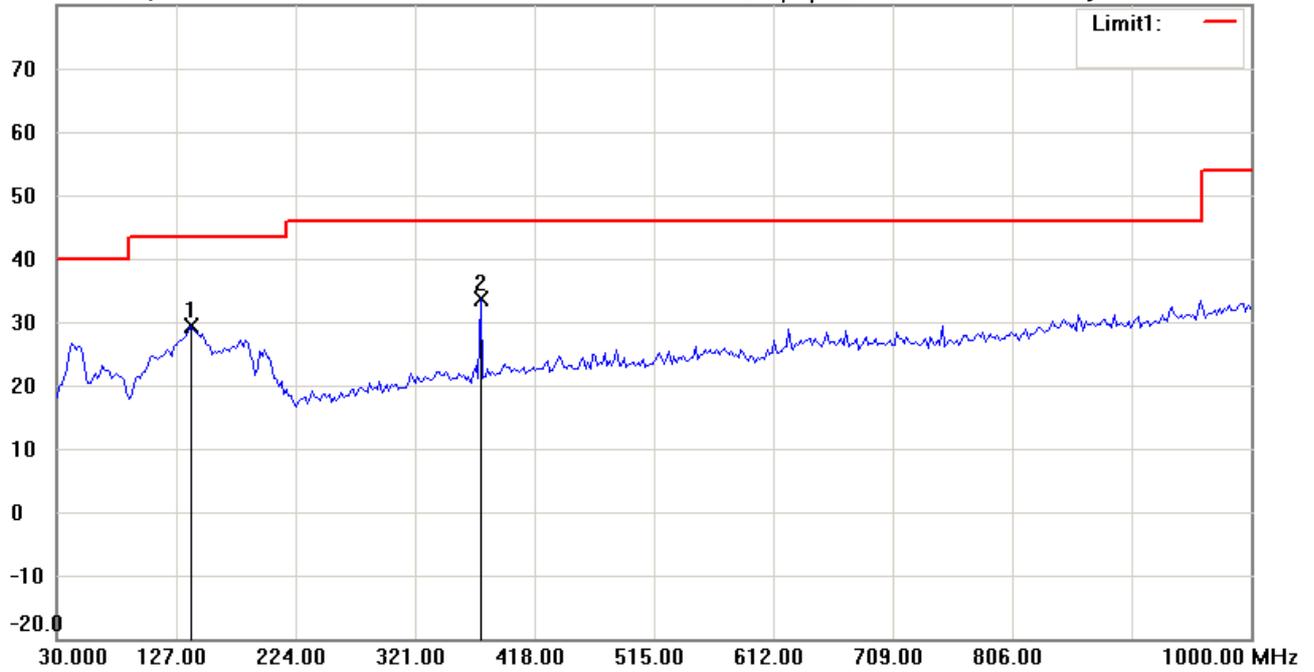
Date: 2016/7/20

Temperature:24 °C

80.0 dBuV/m

Time: 下午 09:43:14

Humidity:60 %



Site : Chamber

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

EUT : W6M21605-15841

M/N:

Test Mode : TX 2403MHz

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
	138.8577	35.97	peak	-6.65	29.32	43.50	100	30	-14.18	
*	374.0681	37.65	peak	-4.14	33.51	46.00	100	215	-12.49	



Radiated Emission Measurement

Operator: Roy

File :3

Data :#1

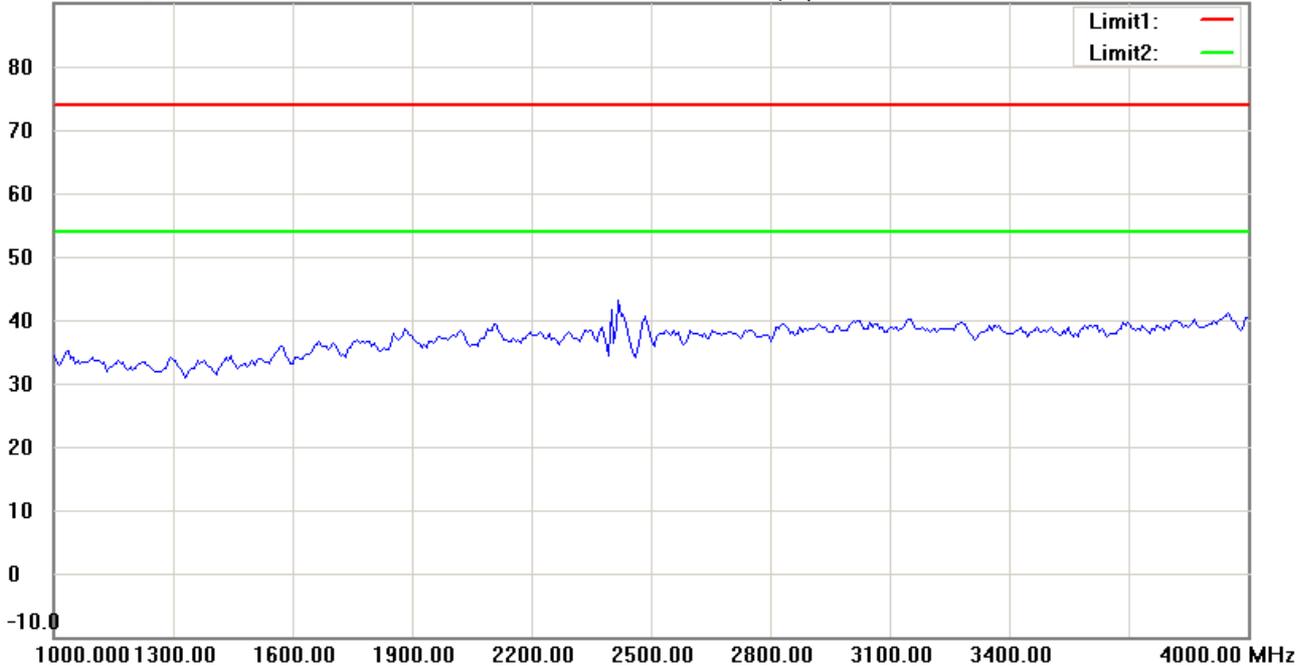
Date: 2016/7/4

Temperature:24 °C

90.0 dBuV/m

Time: 下午 10:20:33

Humidity:60 %



Site : Chamber

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

EUT : W6M21605-15841

M/N:

Test Mode : TX 2403MHz

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
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Radiated Emission Measurement

Operator: Roy

File :3

Data :#6

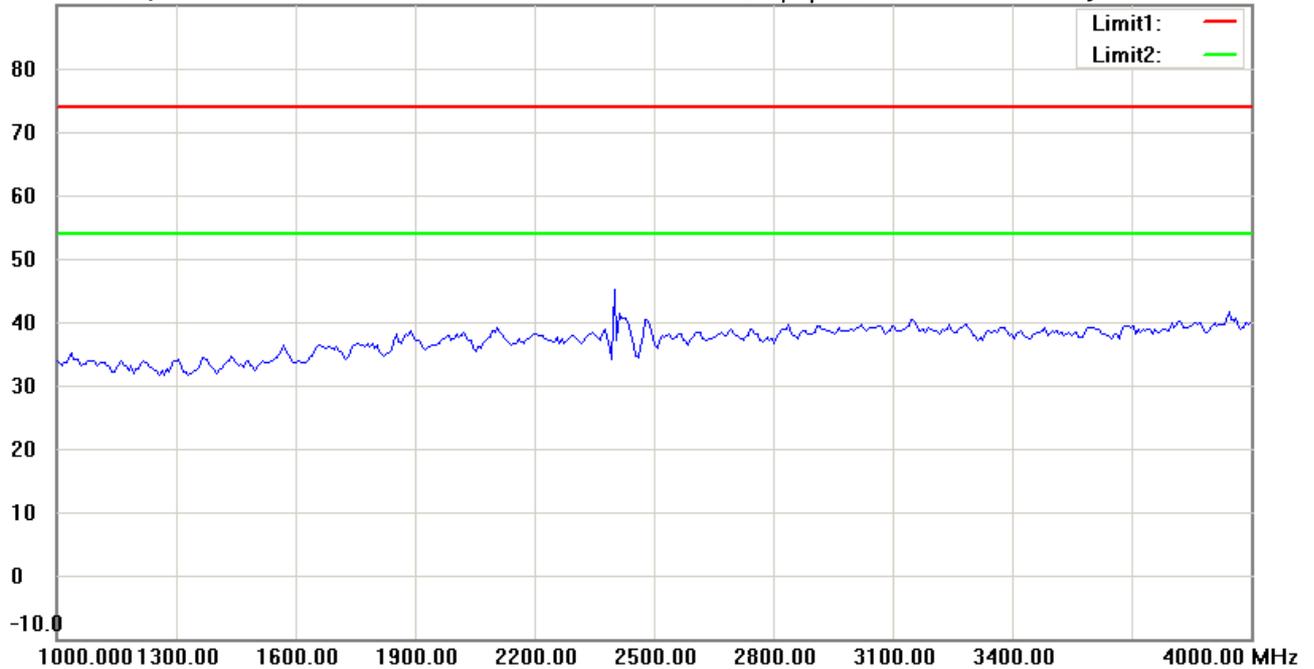
Date: 2016/7/4

Temperature:24 °C

90.0 dBuV/m

Time: 下午 10:23:24

Humidity:60 %



Site : Chamber

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

EUT : W6M21605-15841

M/N:

Test Mode : TX 2403MHz

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
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Radiated Emission Measurement

Operator: Roy

File :3

Data :#2

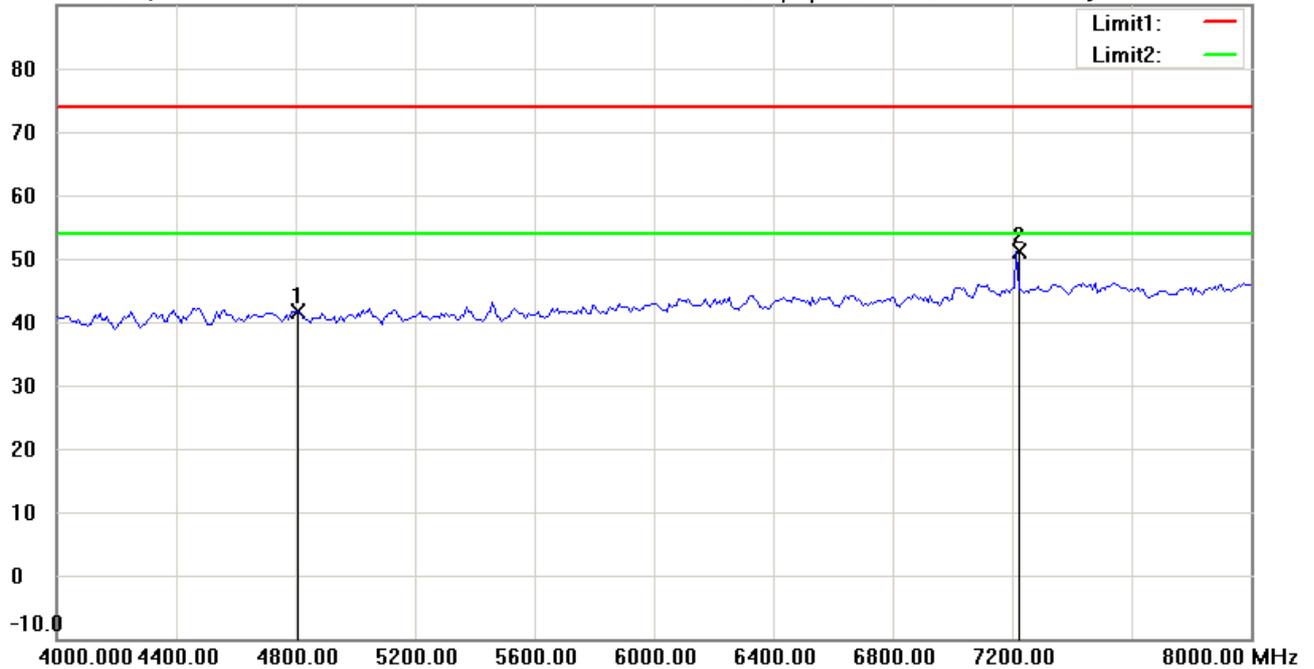
Date: 2016/7/4

Temperature:24 °C

90.0 dBuV/m

Time: 下午 10:21:18

Humidity:60 %



Site : Chamber

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

Polarization: *Horizontal*

EUT : W6M21605-15841

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 2403MHz

Note :

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
	4806.000	42.22	peak	-0.59	41.63	74.00	100	80	-32.37	
*	7214.429	46.96	peak	4.27	51.23	74.00	100	255	-22.77	



Radiated Emission Measurement

Operator: Roy

File :3

Data :#7

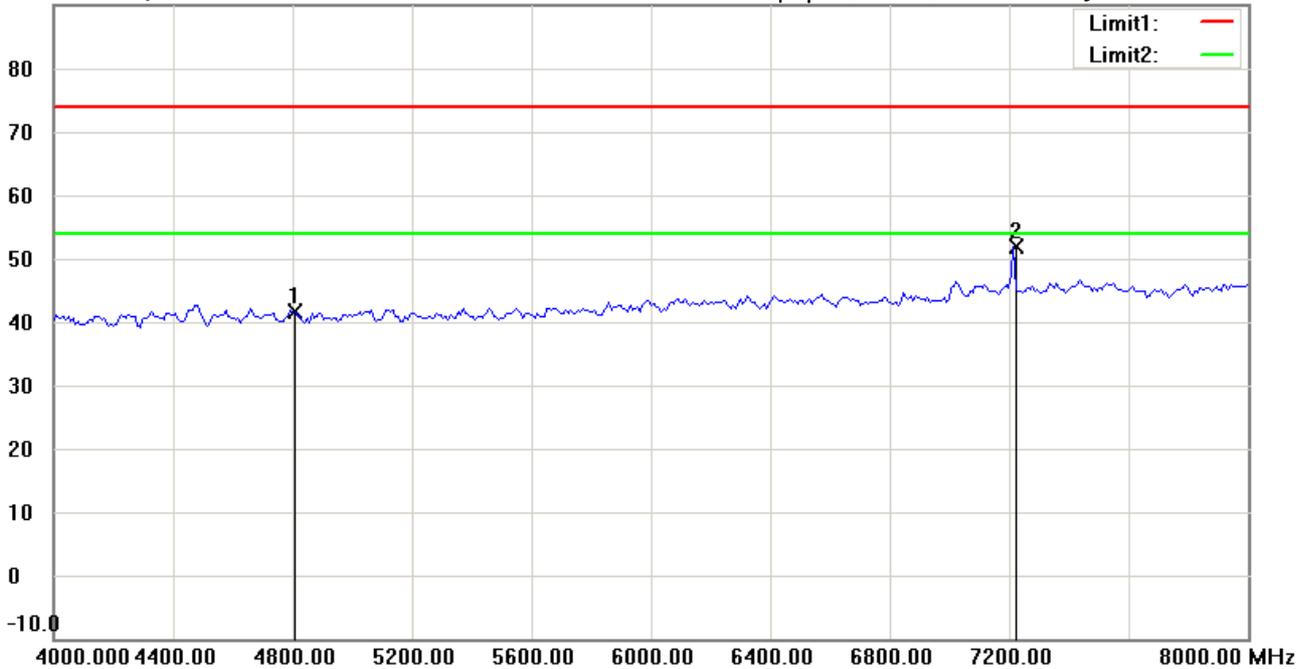
Date: 2016/7/4

Temperature:24 °C

90.0 dBuV/m

Time: 下午 10:24:10

Humidity:60 %



Site : Chamber

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

EUT : W6M21605-15841

M/N:

Test Mode : TX 2403MHz

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
	4806.000	42.21	peak	-0.59	41.62	74.00	100	90	-32.38	
*	7214.429	47.71	peak	4.27	51.98	74.00	100	240	-22.02	



Radiated Emission Measurement

Operator: Roy

File :3

Data :#3

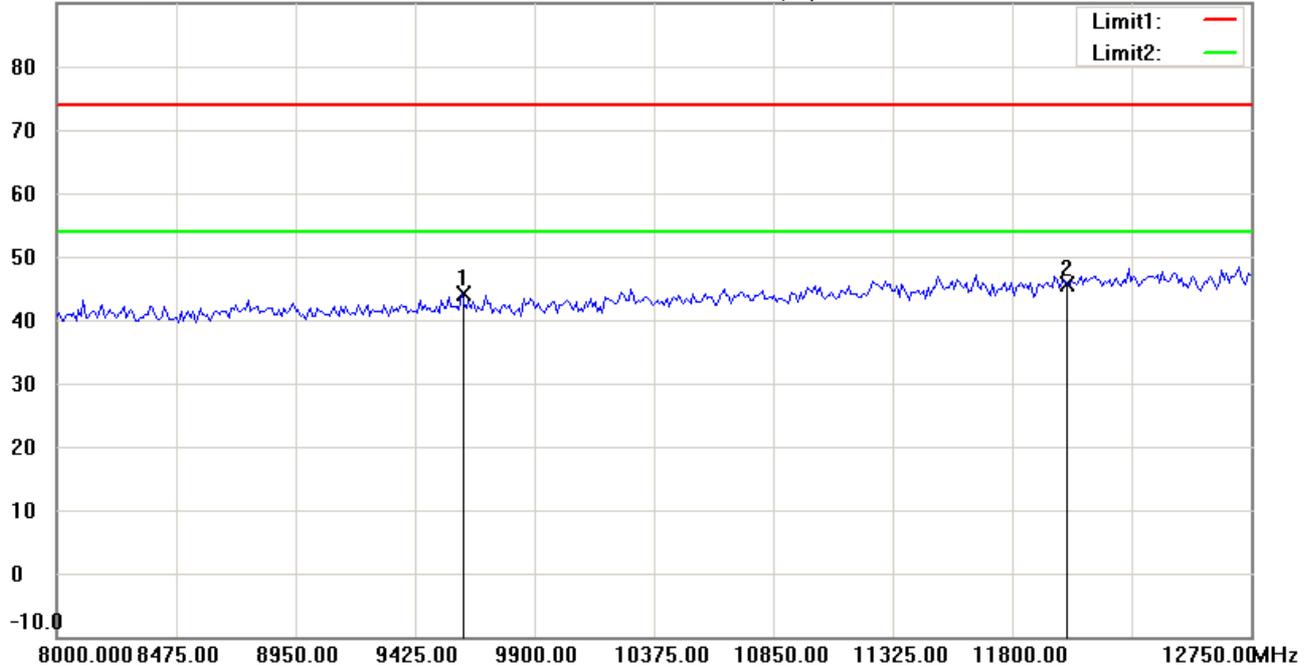
Date: 2016/7/4

Temperature:24 °C

90.0 dBuV/m

Time: 下午 10:21:31

Humidity:60 %



Site : Chamber

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

Polarization: *Horizontal*

EUT : W6M21605-15841

Power : 120 V.a.c.

M/N:

Distance: 3m

Test Mode : TX 2403MHz

Note :

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
	9612.000	36.53	peak	7.58	44.11	74.00	100	35	-29.89	
*	12015.000	32.98	peak	12.54	45.52	74.00	100	100	-28.48	



Radiated Emission Measurement

Operator: Roy

File :3

Data :#8

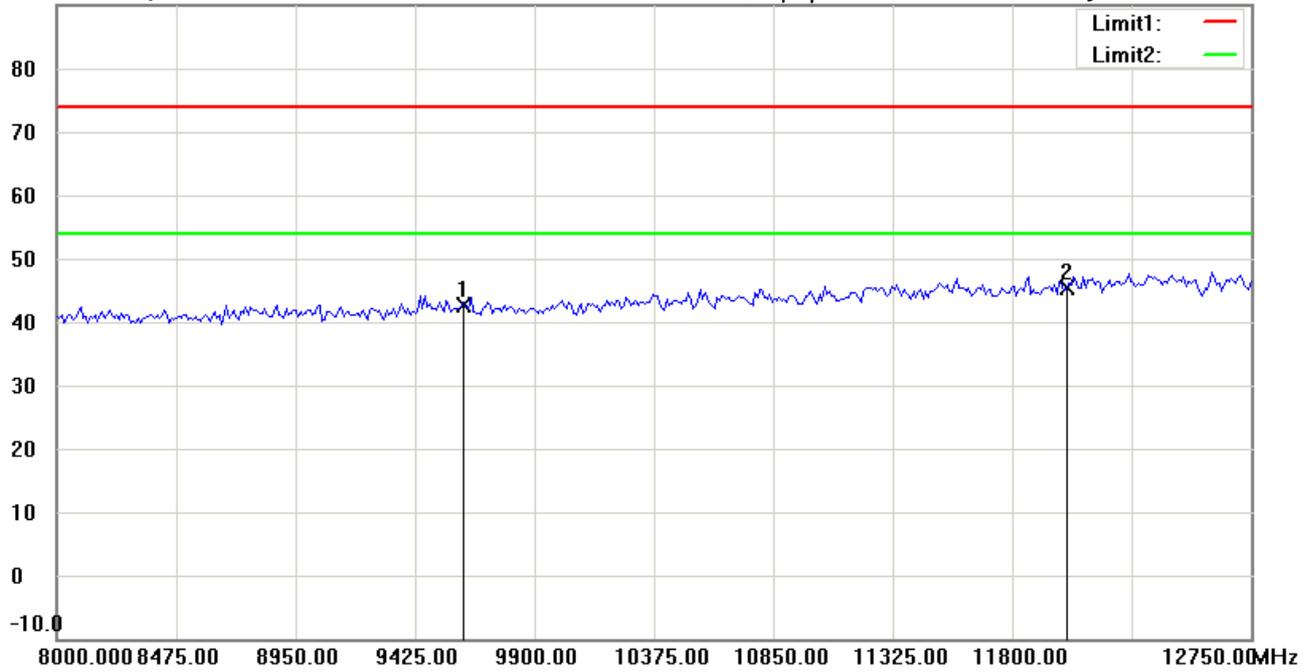
Date: 2016/7/4

Temperature:24 °C

90.0 dBuV/m

Time: 下午 10:24:22

Humidity:60 %



Site : Chamber

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

Polarization: *Vertical*

EUT : W6M21605-15841

Power : 120 V.a.c.

M/N:

Distance: 3m

Test Mode : TX 2403MHz

Note :

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
	9612.000	34.95	peak	7.58	42.53	74.00	100	170	-31.47	
*	12015.000	32.81	peak	12.54	45.35	74.00	100	135	-28.65	



Radiated Emission Measurement

Operator: Roy

File :3

Data :#4

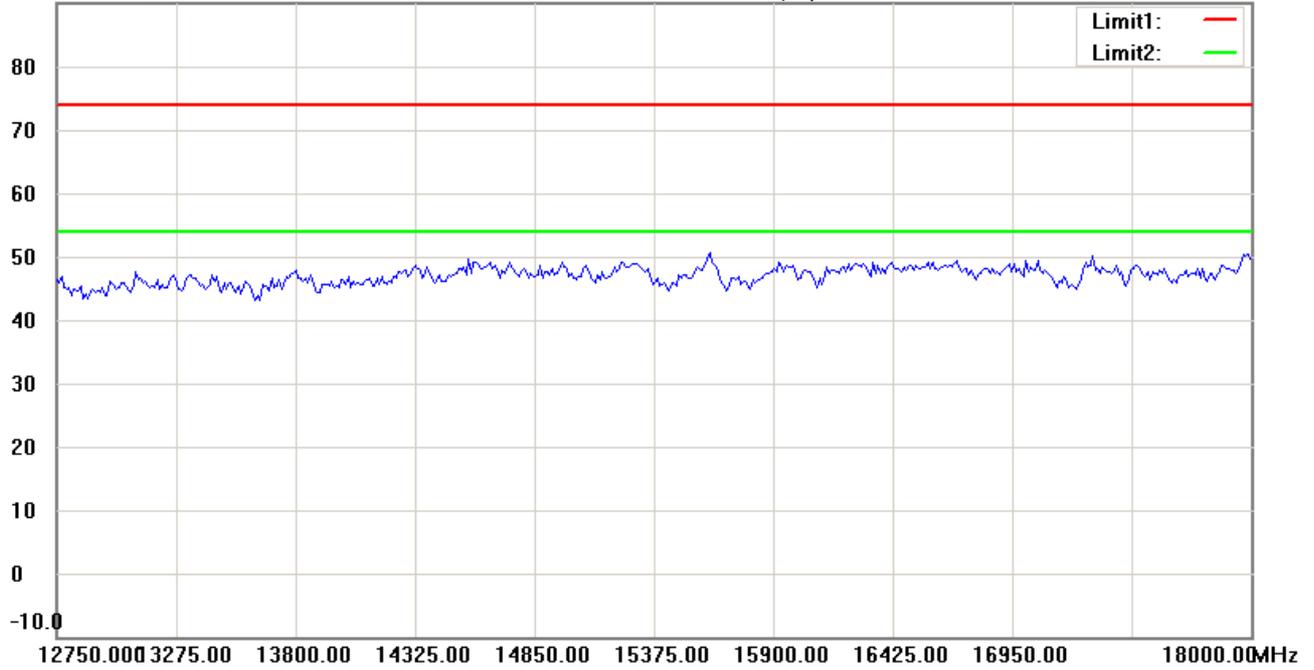
Date: 2016/7/4

Temperature:24 °C

90.0 dBuV/m

Time: 下午 10:22:29

Humidity:60 %



Site : Chamber

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

Polarization: *Horizontal*

EUT : W6M21605-15841

Power : 120 V.a.c.

M/N:

Distance: 3m

Test Mode : TX 2403MHz

Note :

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
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**Radiated Emission Measurement**

Operator: Roy

File :3

Data :#9

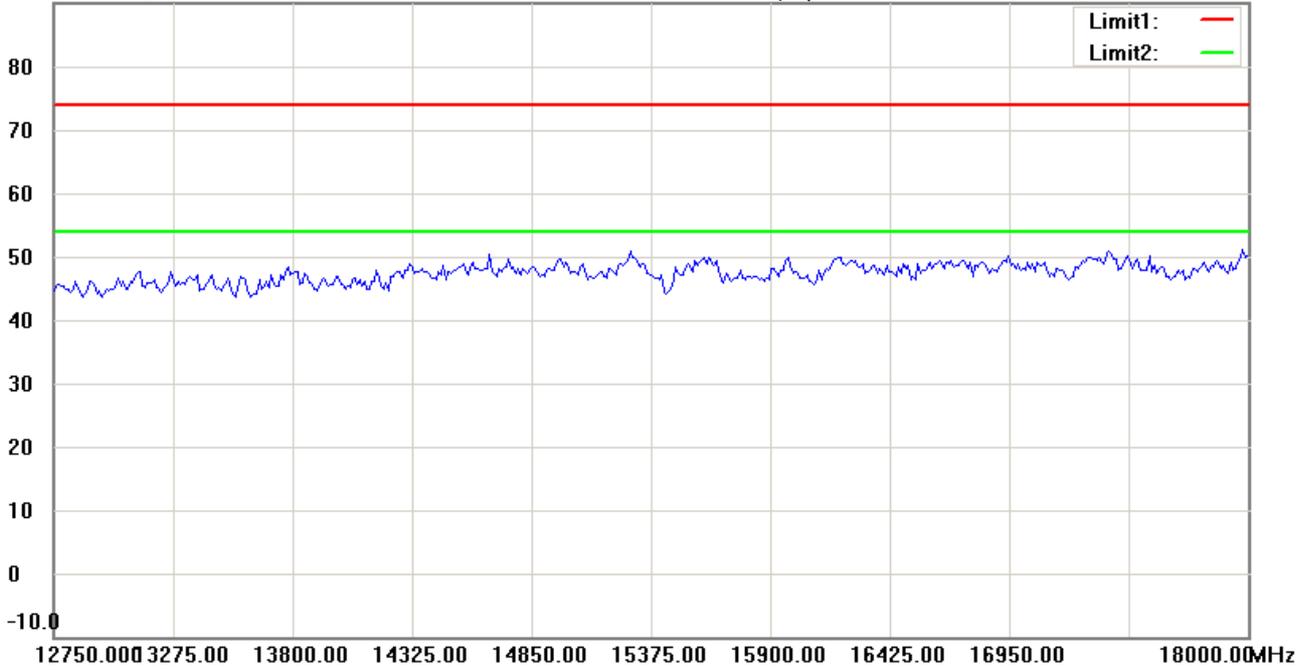
Date: 2016/7/4

Temperature:24 °C

90.0 dBuV/m

Time: 下午 10:25:24

Humidity:60 %



Site : Chamber

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

EUT : W6M21605-15841

M/N:

Test Mode : TX 2403MHz

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
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Radiated Emission Measurement

Operator: Roy

File :3

Data :#5

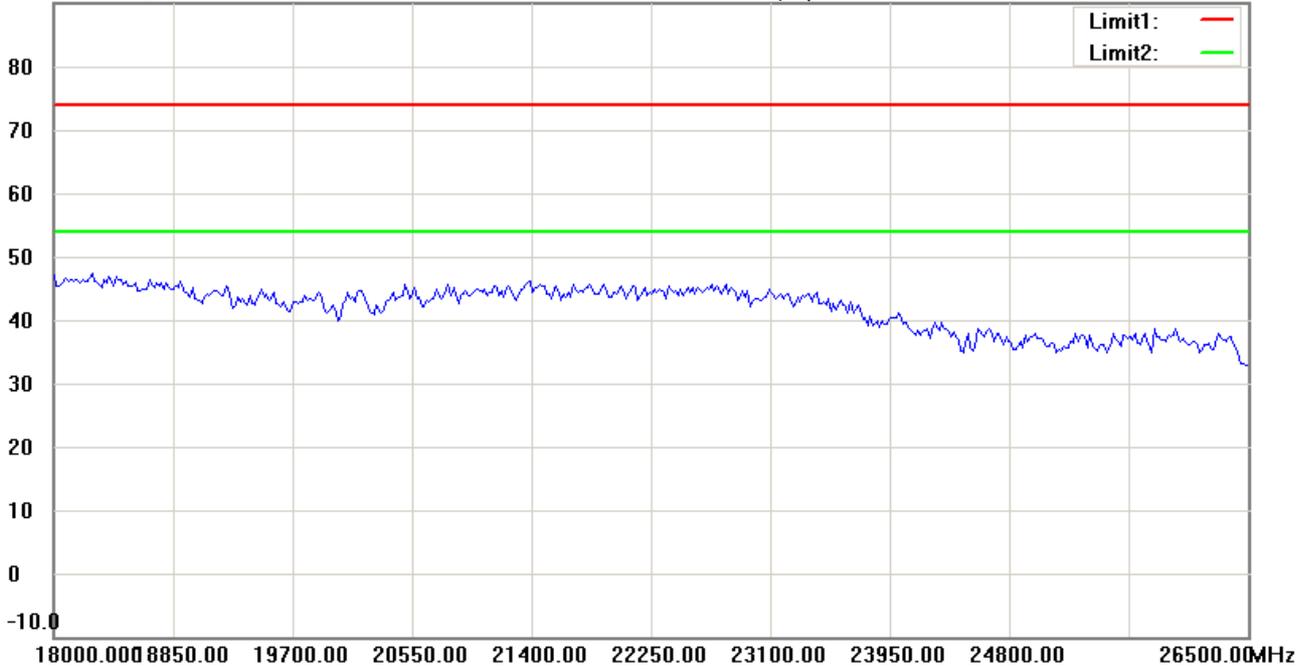
Date: 2016/7/4

Temperature:24 °C

90.0 dBuV/m

Time: 下午 10:22:39

Humidity:60 %



Site : Chamber

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

EUT : W6M21605-15841

M/N:

Test Mode : TX 2403MHz

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
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Radiated Emission Measurement

Operator: Roy

File :3

Data :#10

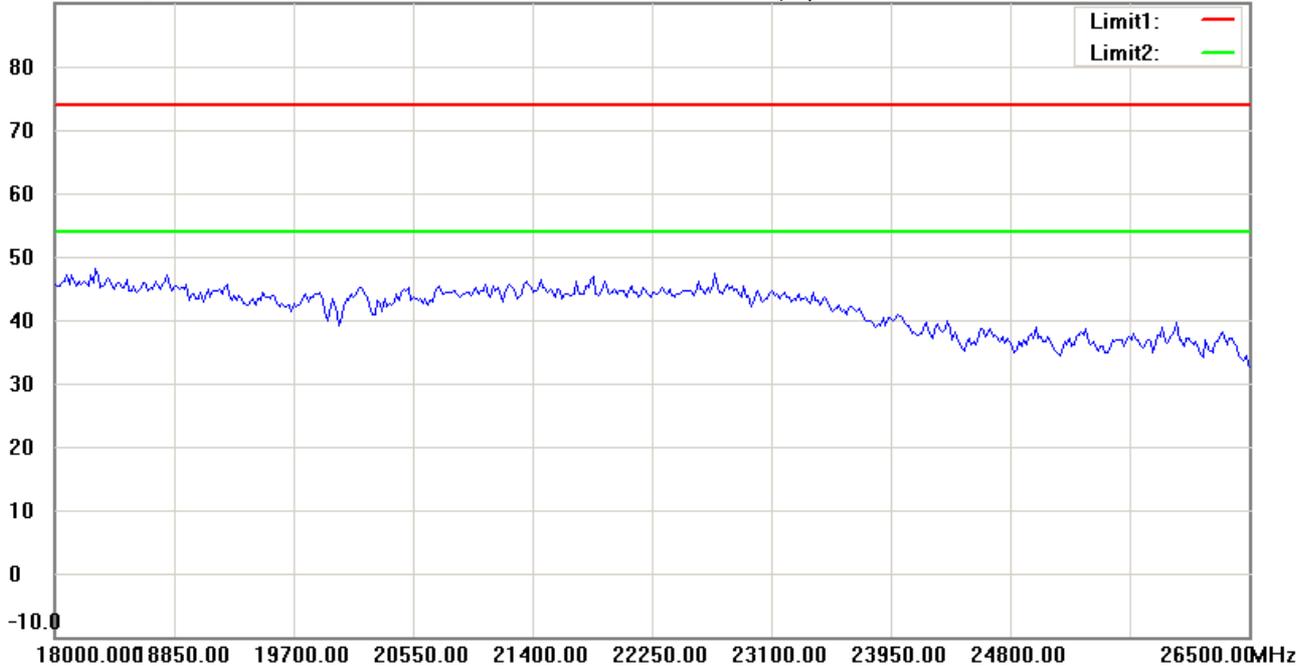
Date: 2016/7/4

Temperature:24 °C

90.0 dBuV/m

Time: 下午 10:25:34

Humidity:60 %



Site : Chamber

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

EUT : W6M21605-15841

M/N:

Test Mode : TX 2403MHz

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
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Radiated Emission Measurement

Operator: Roy

File :1

Data :#1

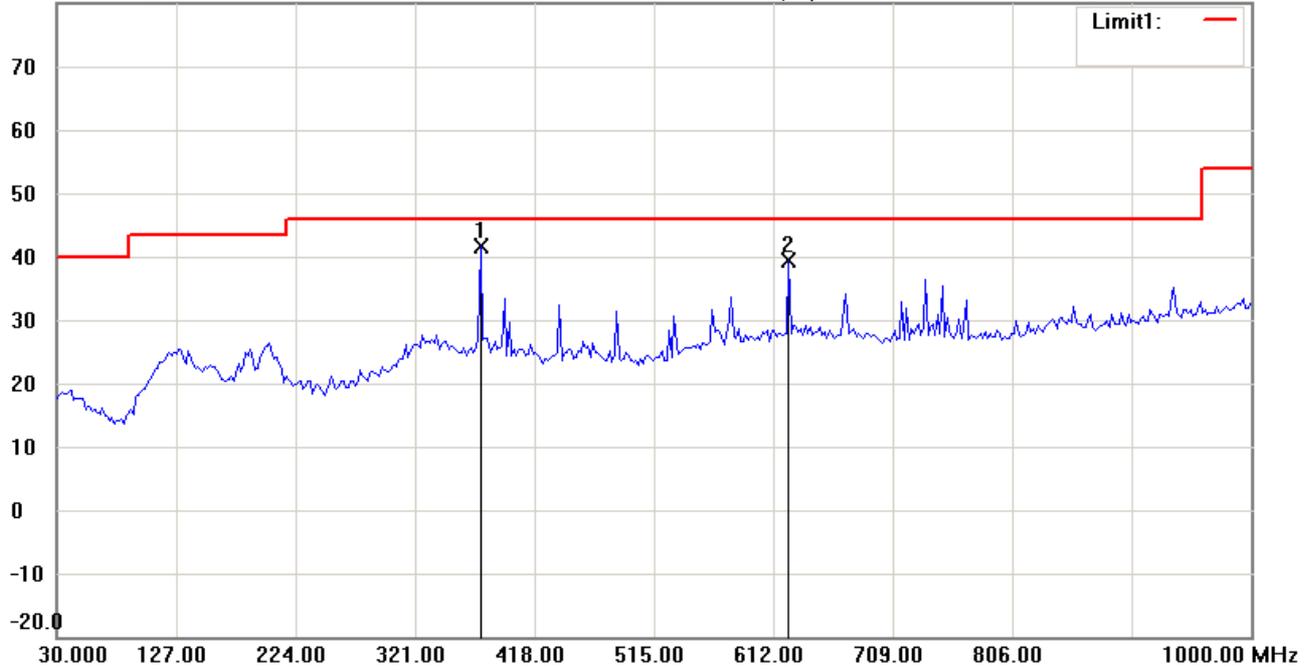
Date: 2016/7/20

Temperature:24 °C

80.0 dBuV/m

Time: 下午 09:39:58

Humidity:60 %



Site : Chamber

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

Polarization: *Horizontal*

EUT : W6M21605-15841

Power : 120 V.a.c.

M/N:

Distance: 3m

Test Mode : TX 2442MHz

Note :

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
*	374.0681	45.78	peak	-4.14	41.64	46.00	100	250	-4.36	
	624.8297	39.57	peak	-0.12	39.45	46.00	100	95	-6.55	



Radiated Emission Measurement

Operator: Roy

File :1

Data :#2

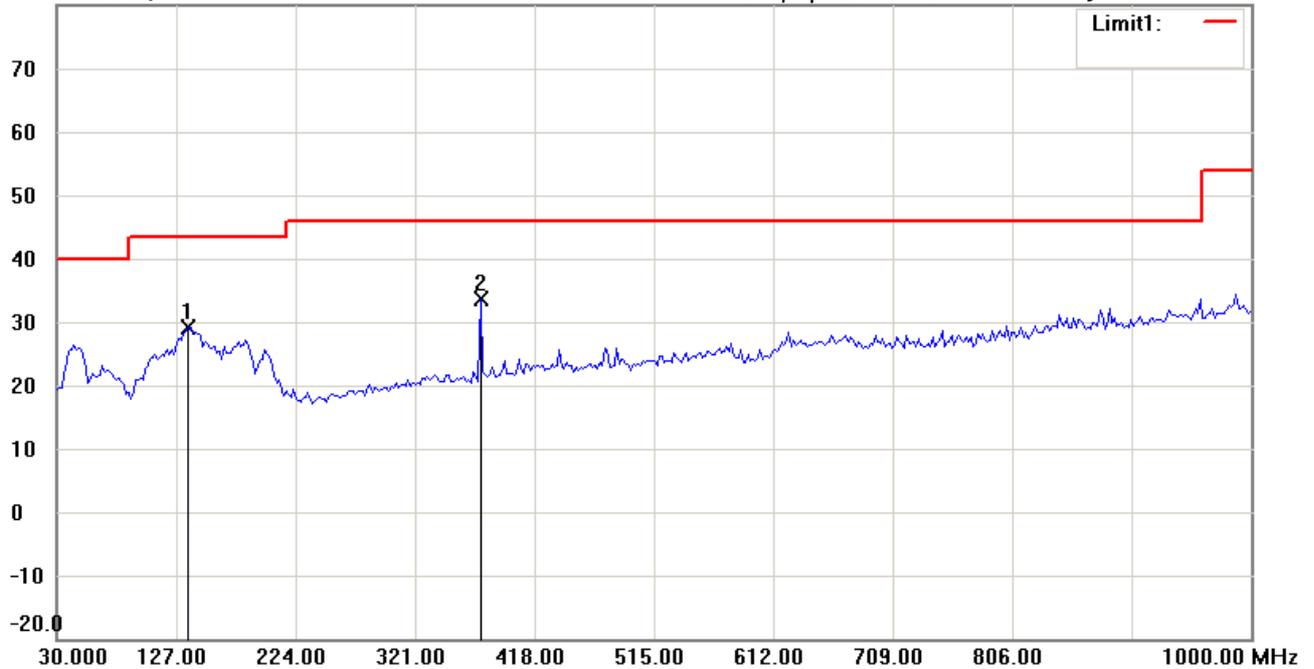
Date: 2016/7/20

Temperature:24 °C

80.0 dBuV/m

Time: 下午 09:40:43

Humidity:60 %



Site : Chamber

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

EUT : W6M21605-15841

M/N:

Test Mode : TX 2442MHz

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
	136.9138	35.57	peak	-6.54	29.03	43.50	100	60	-14.47	
*	374.0681	37.88	peak	-4.14	33.74	46.00	100	140	-12.26	



**Radiated Emission Measurement**

Operator: Roy

File :3

Data :#1

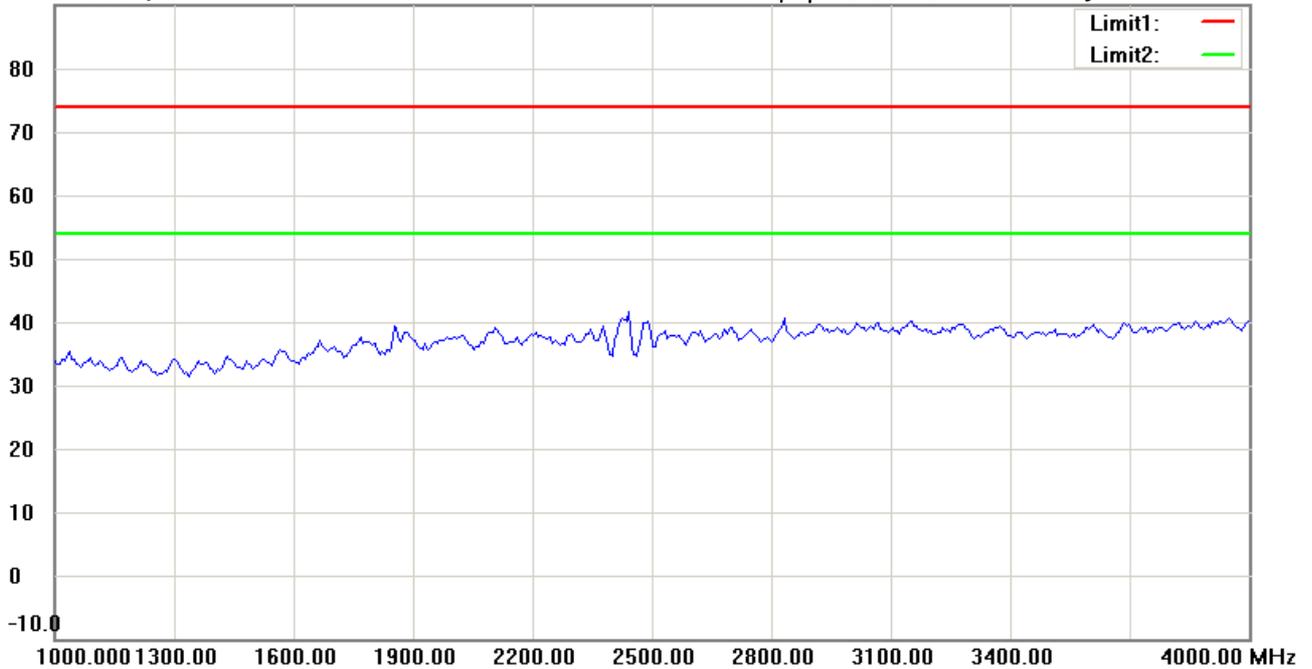
Date: 2016/7/4

Temperature:24 °C

90.0 dBuV/m

Time: 下午 10:39:45

Humidity:60 %



Site : Chamber

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

EUT : W6M21605-15841

M/N:

Test Mode : TX 2442MHz

Note :

Polarization: *Horizontal*

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
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Radiated Emission Measurement

Operator: Roy

File :3

Data :#6

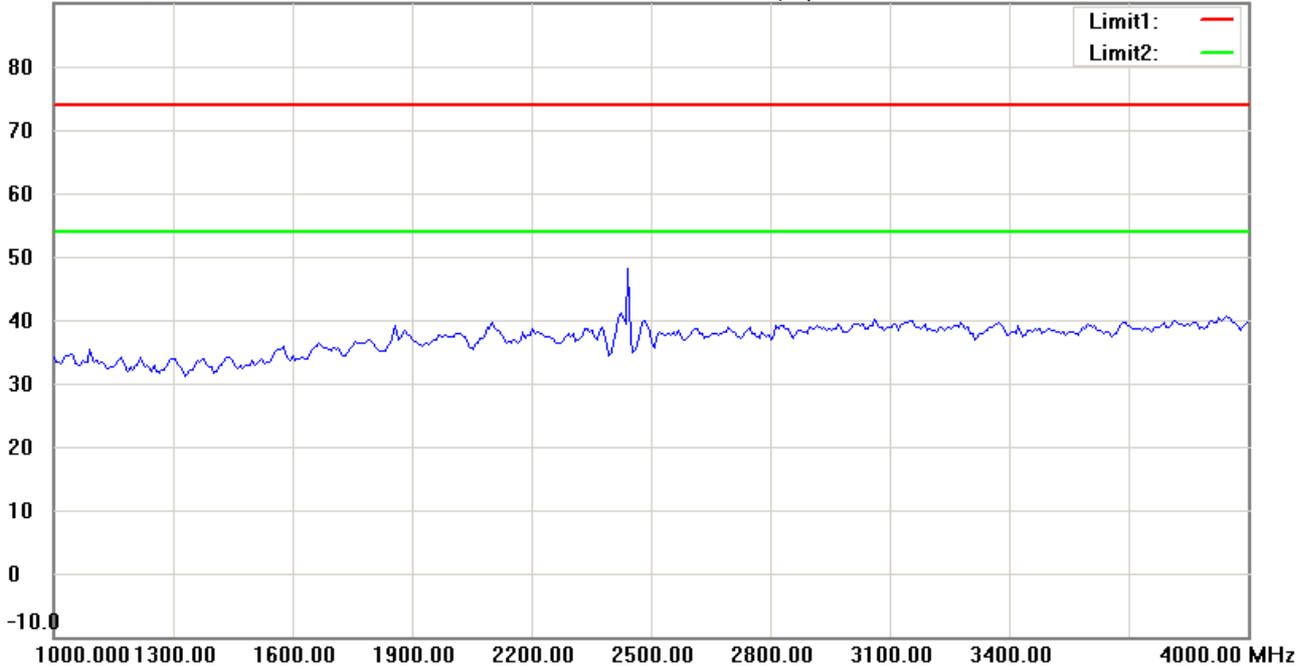
Date: 2016/7/4

Temperature:24 °C

90.0 dBuV/m

Time: 下午 10:42:36

Humidity:60 %



Site : Chamber

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

Polarization: *Vertical*

EUT : W6M21605-15841

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 2442MHz

Note :

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
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Radiated Emission Measurement

Operator: Roy

File :3

Data :#2

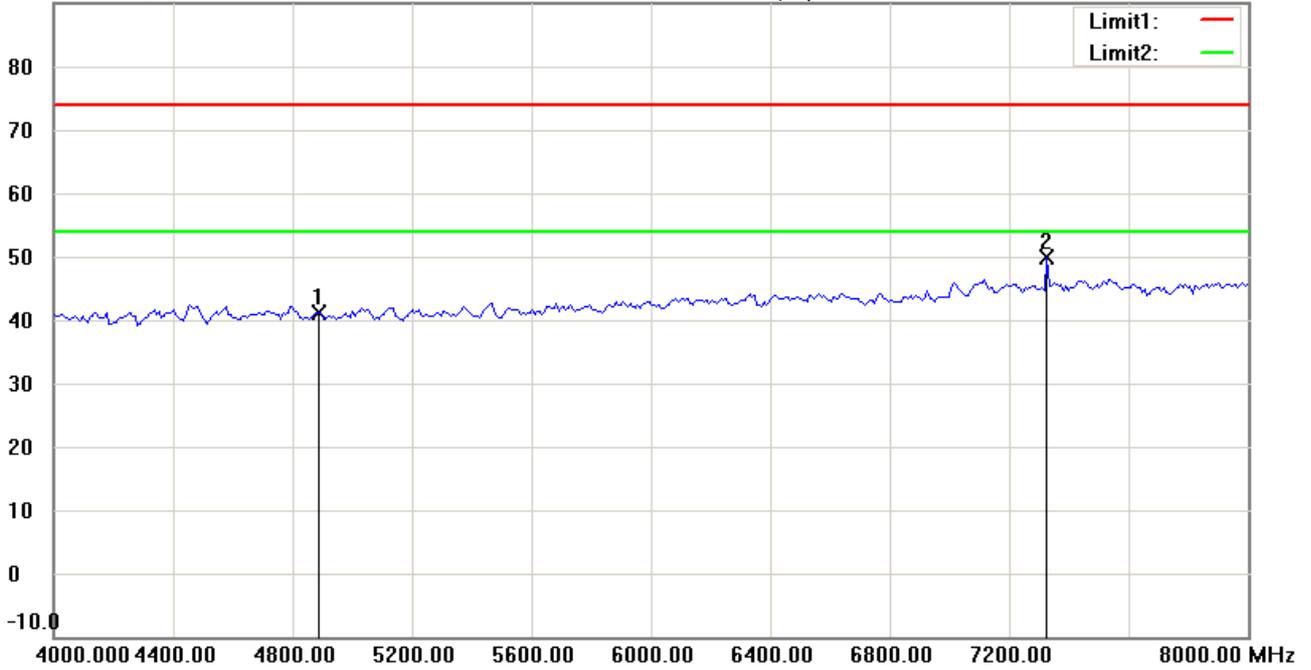
Date: 2016/7/4

Temperature:24 °C

90.0 dBuV/m

Time: 下午 10:40:31

Humidity:60 %



Site : Chamber

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

Polarization: *Horizontal*

EUT : W6M21605-15841

Power : 120 V.a.c.

M/N:

Distance: 3m

Test Mode : TX 2442MHz

Note :

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
	4884.000	41.60	peak	-0.48	41.12	74.00	100	170	-32.88	
*	7326.653	45.34	peak	4.54	49.88	74.00	100	300	-24.12	



Radiated Emission Measurement

Operator: Roy

File :3

Data :#7

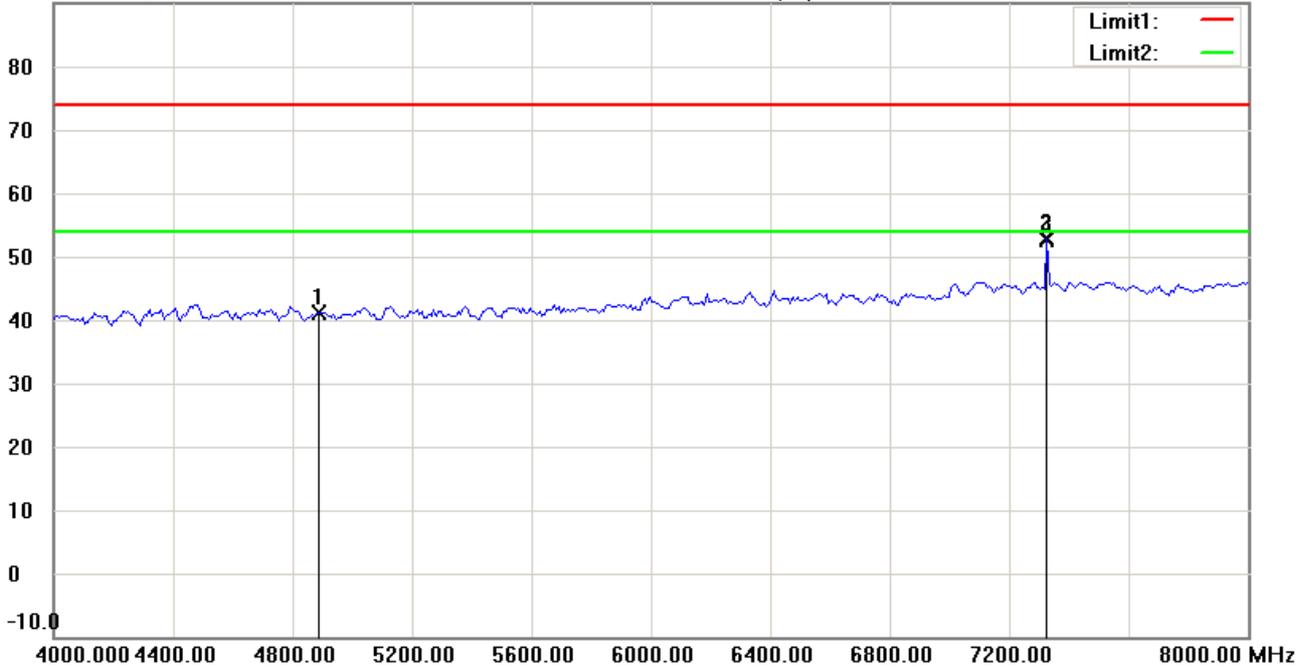
Date: 2016/7/4

Temperature:24 °C

90.0 dBuV/m

Time: 下午 10:43:22

Humidity:60 %



Site : Chamber

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

EUT : W6M21605-15841

M/N:

Test Mode : TX 2442MHz

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
	4884.000	41.60	peak	-0.48	41.12	74.00	100	55	-32.88	
	7326.020	48.38	peak	4.53	52.91	74.00	100	220	-21.09	
*	7326.020	48.21	AVG	4.53	52.74	54.00	100	220	-1.26	



Radiated Emission Measurement

Operator: Roy

File :3

Data :#3

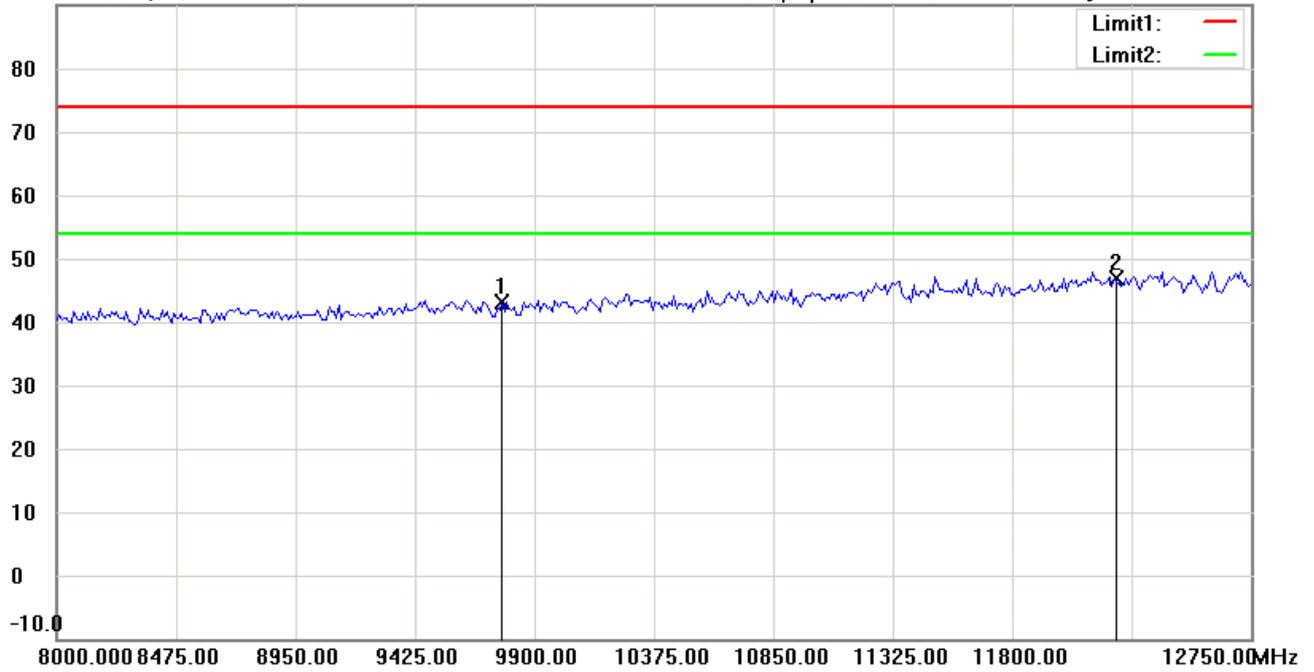
Date: 2016/7/4

Temperature:24 °C

90.0 dBuV/m

Time: 下午 10:40:43

Humidity:60 %



Site : Chamber

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

Polarization: *Horizontal*

EUT : W6M21605-15841

Power : 120 V.a.c.

M/N:

Distance: 3m

Test Mode : TX 2442MHz

Note :

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
	9768.000	35.57	peak	7.52	43.09	74.00	100	135	-30.91	
*	12210.000	33.07	peak	13.76	46.83	74.00	100	40	-27.17	



Radiated Emission Measurement

Operator: Roy

File :3

Data :#8

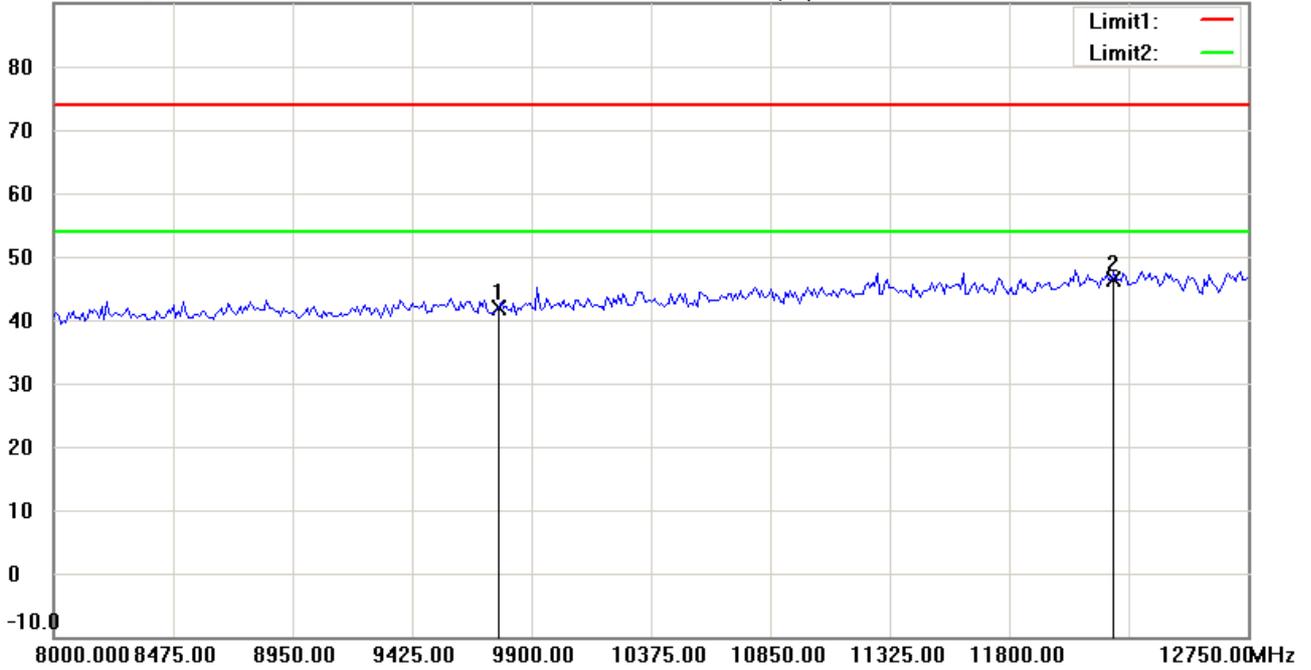
Date: 2016/7/4

Temperature:24 °C

90.0 dBuV/m

Time: 下午 10:43:34

Humidity:60 %



Site : Chamber

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

Polarization: *Vertical*

EUT : W6M21605-15841

Power : 120 V.a.c.

M/N:

Distance: 3m

Test Mode : TX 2442MHz

Note :

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
	9768.000	34.36	peak	7.52	41.88	74.00	100	120	-32.12	
*	12210.000	32.74	peak	13.76	46.50	74.00	100	65	-27.50	



Radiated Emission Measurement

Operator: Roy

File :3

Data :#4

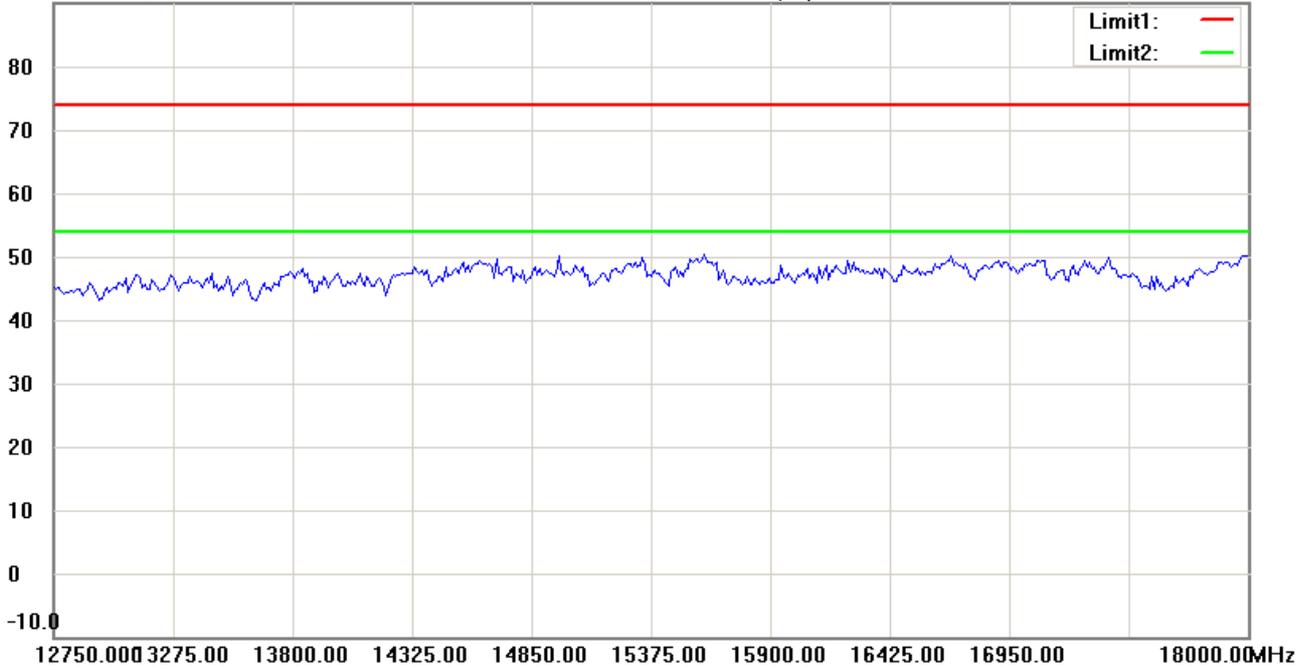
Date: 2016/7/4

Temperature:24 °C

90.0 dBuV/m

Time: 下午 10:41:41

Humidity:60 %



Site : Chamber

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

EUT : W6M21605-15841

M/N:

Test Mode : TX 2442MHz

Note :

Polarization: *Horizontal*

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
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**Radiated Emission Measurement**

Operator: Roy

File :3

Data :#9

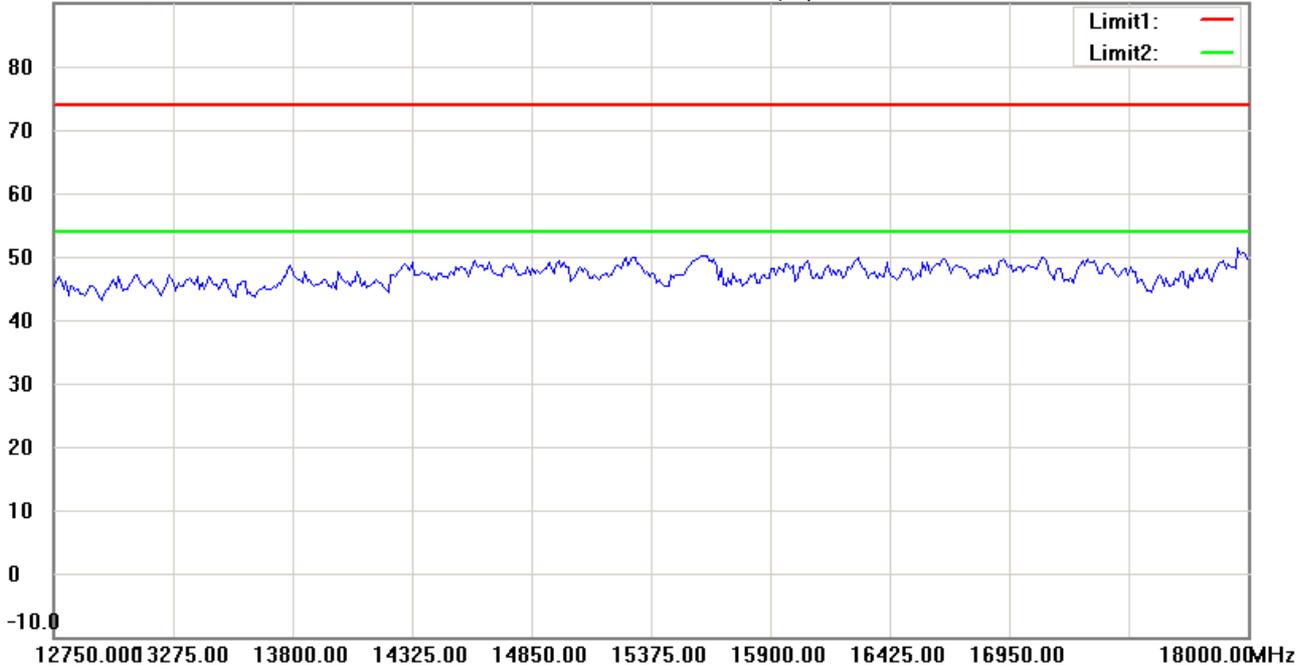
Date: 2016/7/4

Temperature:24 °C

90.0 dBuV/m

Time: 下午 10:44:36

Humidity:60 %



Site : Chamber

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

Polarization: *Vertical*

EUT : W6M21605-15841

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 2442MHz

Note :

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
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**Radiated Emission Measurement**

Operator: Roy

File :3

Data :#5

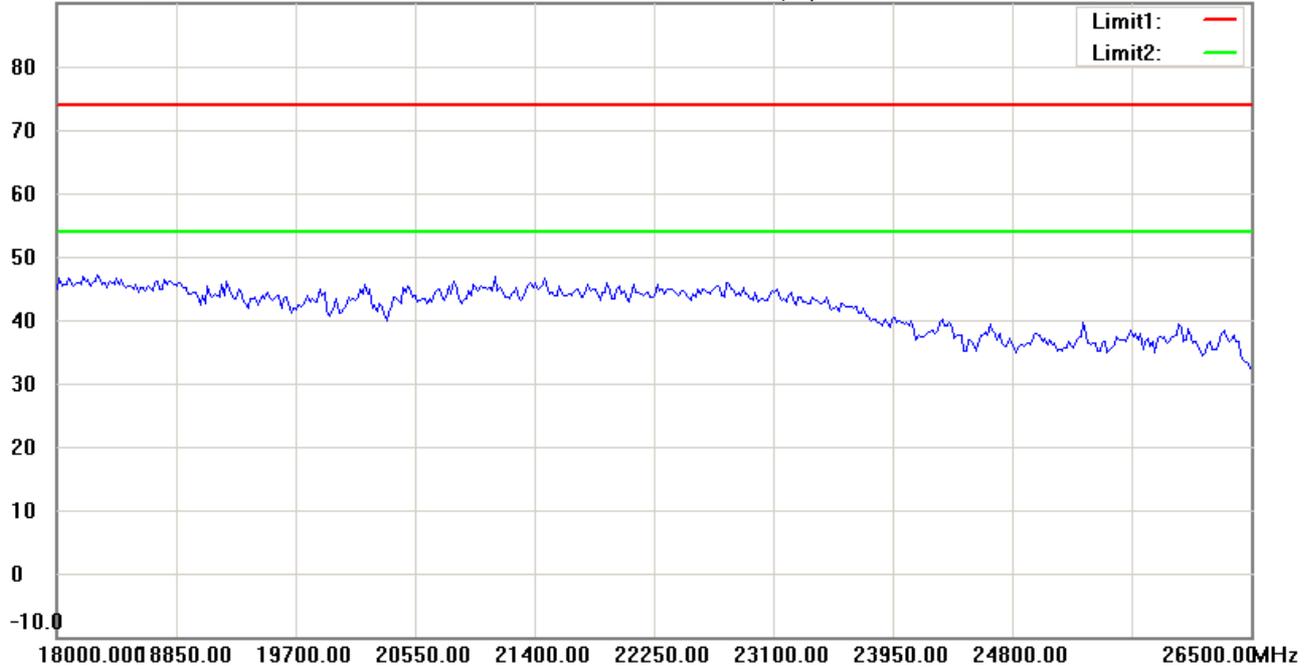
Date: 2016/7/4

Temperature:24 °C

90.0 dBuV/m

Time: 下午 10:41:51

Humidity:60 %



Site : Chamber

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

EUT : W6M21605-15841

M/N:

Test Mode : TX 2442MHz

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
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Radiated Emission Measurement

Operator: Roy

File :3

Data :#10

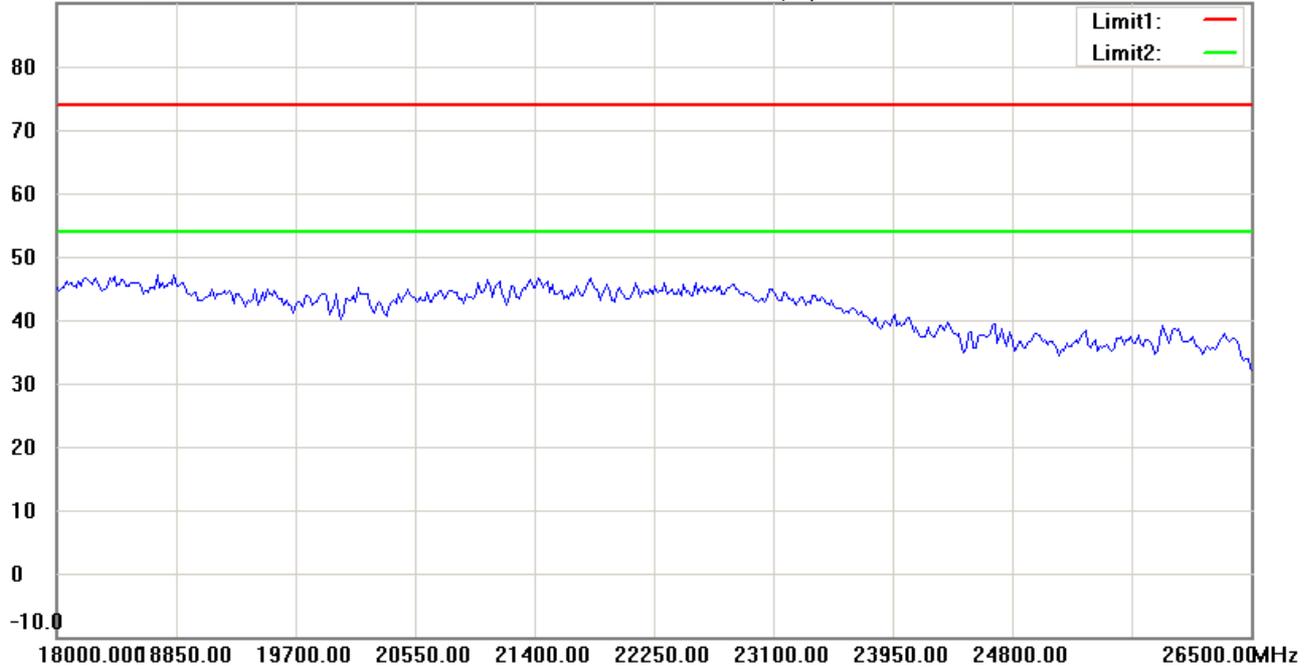
Date: 2016/7/4

Temperature:24 °C

90.0 dBuV/m

Time: 下午 10:44:46

Humidity:60 %



Site : Chamber

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

EUT : W6M21605-15841

M/N:

Test Mode : TX 2442MHz

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
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Radiated Emission Measurement

Operator: Roy

File :1

Data :#1

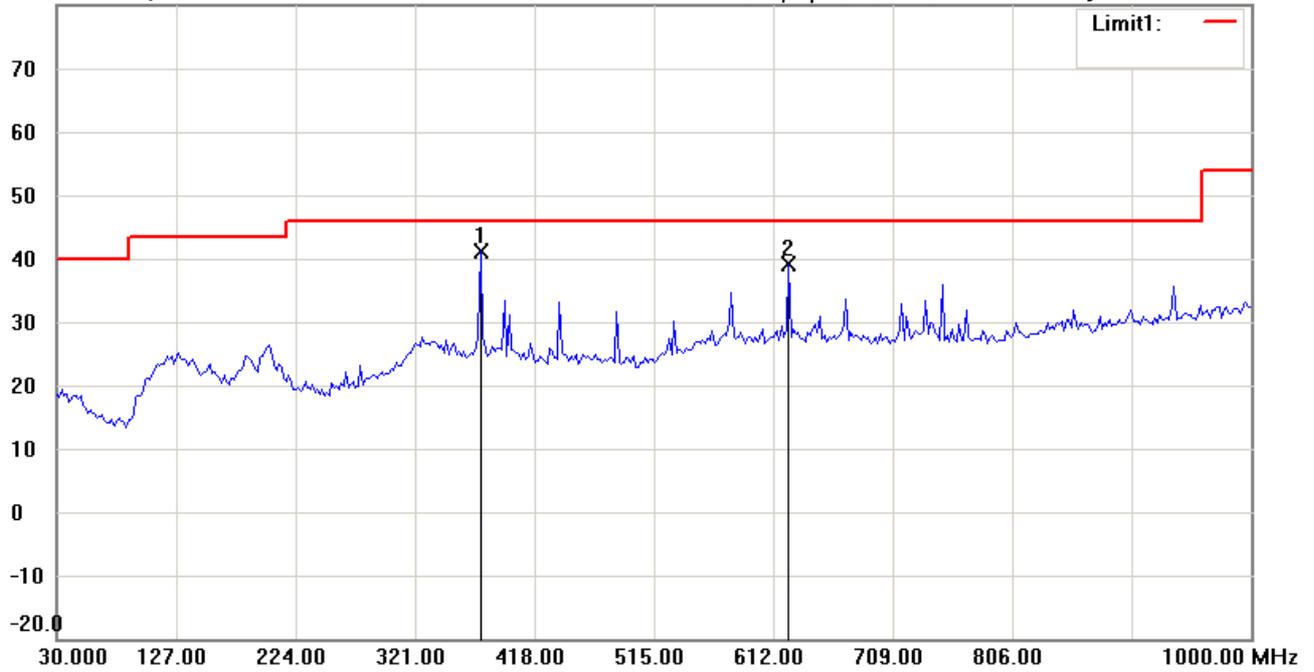
Date: 2016/7/20

Temperature:24 °C

80.0 dBuV/m

Time: 下午 09:37:16

Humidity:60 %



Site : Chamber

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

EUT : W6M21605-15841

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: *Horizontal*

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
*	374.0681	45.24	peak	-4.14	41.10	46.00	100	155	-4.90	
	624.8297	39.22	peak	-0.12	39.10	46.00	100	75	-6.90	



Radiated Emission Measurement

Operator: Roy

File :1

Data :#2

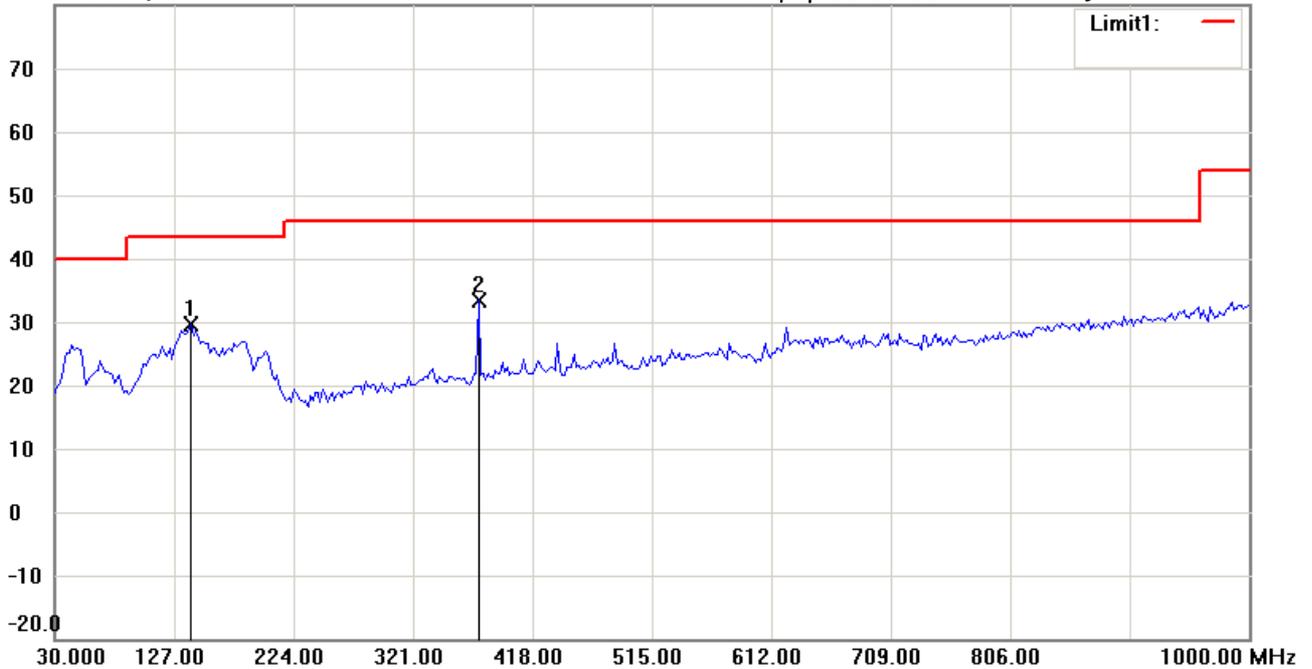
Date: 2016/7/20

Temperature:24 °C

80.0 dBuV/m

Time: 下午 09:38:00

Humidity:60 %



Site : Chamber

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

EUT : W6M21605-15841

M/N:

Test Mode : TX 2480MHz

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
	140.8015	36.33	peak	-6.78	29.55	43.50	100	30	-13.95	
*	374.0681	37.64	peak	-4.14	33.50	46.00	100	100	-12.50	



Radiated Emission Measurement

Operator: Roy

File :3

Data :#1

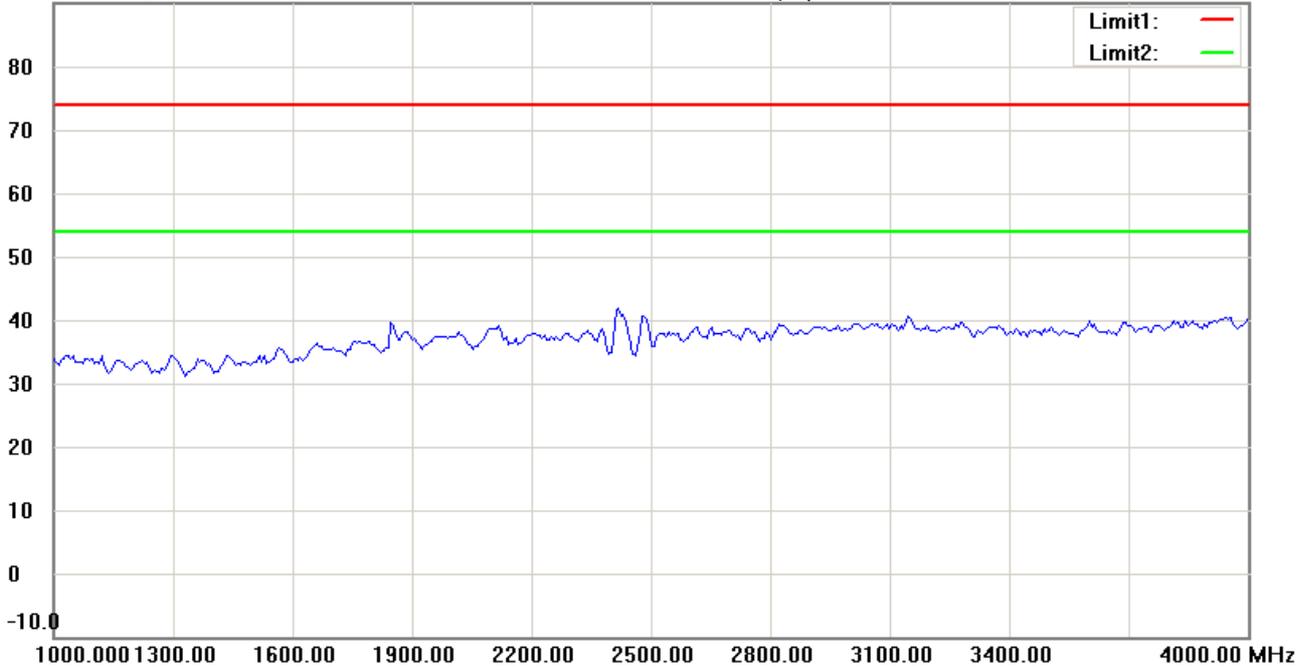
Date: 2016/7/4

Temperature:24 °C

90.0 dBuV/m

Time: 下午 11:27:49

Humidity:60 %



Site : Chamber

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

EUT : W6M21605-15841

M/N:

Test Mode : TX 2480MHz

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
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Radiated Emission Measurement

Operator: Roy

File :3

Data :#6

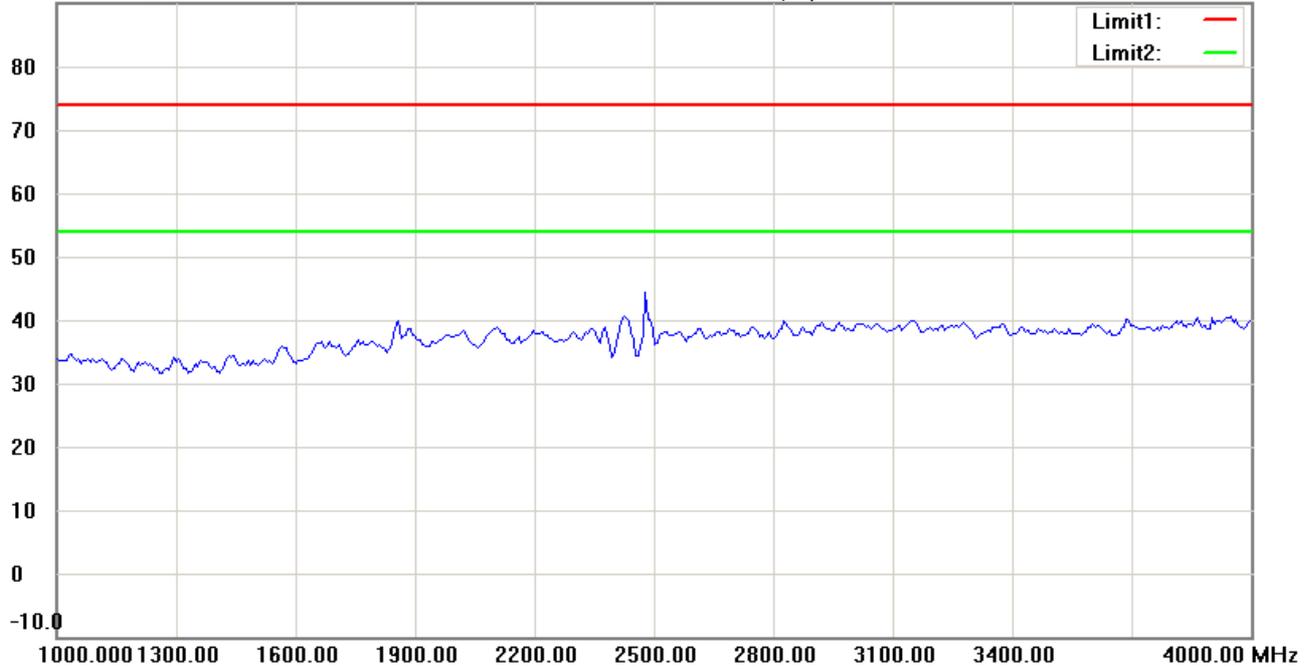
Date: 2016/7/4

Temperature:24 °C

90.0 dBuV/m

Time: 下午 11:30:40

Humidity:60 %



Site : Chamber

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

Polarization: *Vertical*

EUT : W6M21605-15841

Power : 120 V.a.c.

M/N:

Distance: 3m

Test Mode : TX 2480MHz

Note :

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
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Radiated Emission Measurement

Operator: Roy

File :3

Data :#2

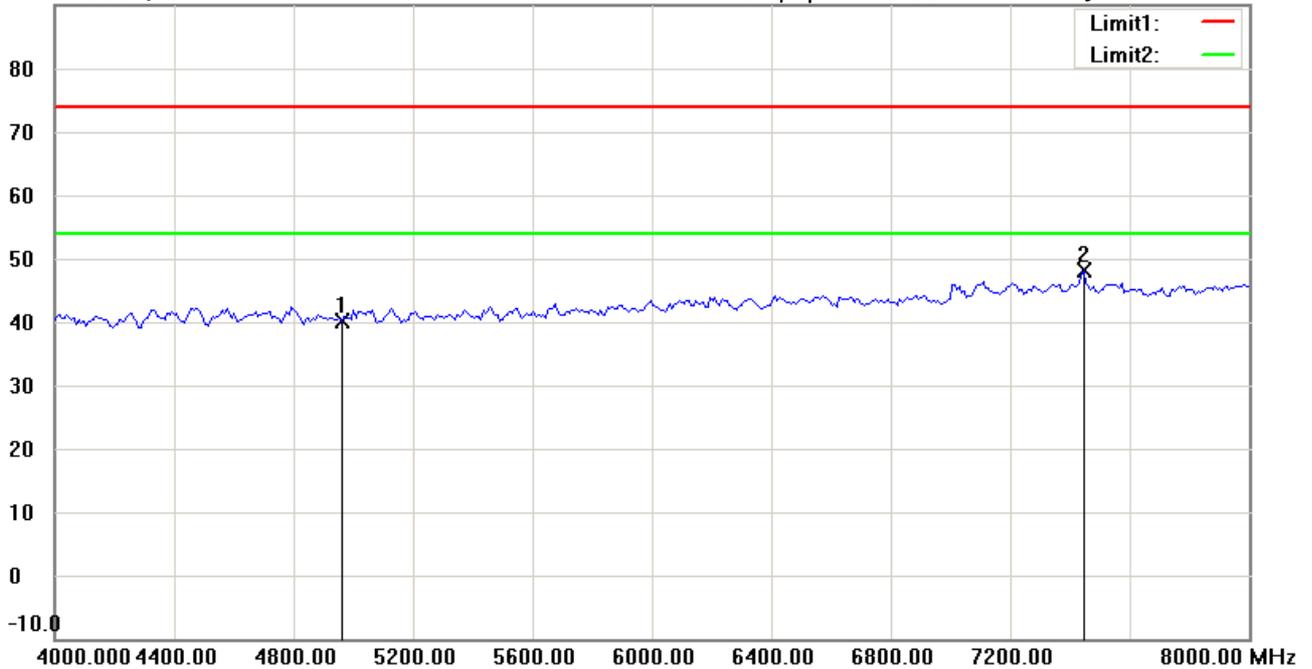
Date: 2016/7/4

Temperature:24 °C

90.0 dBuV/m

Time: 下午 11:28:35

Humidity:60 %



Site : Chamber

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

Polarization: *Horizontal*

EUT : W6M21605-15841

Power : 120 V.a.c.

M/N:

Distance: 3m

Test Mode : TX 2480MHz

Note :

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
	4960.000	40.29	peak	-0.14	40.15	74.00	100	225	-33.85	
*	7440.000	43.25	peak	4.89	48.14	74.00	100	95	-25.86	



Radiated Emission Measurement

Operator: Roy

File :3

Data :#7

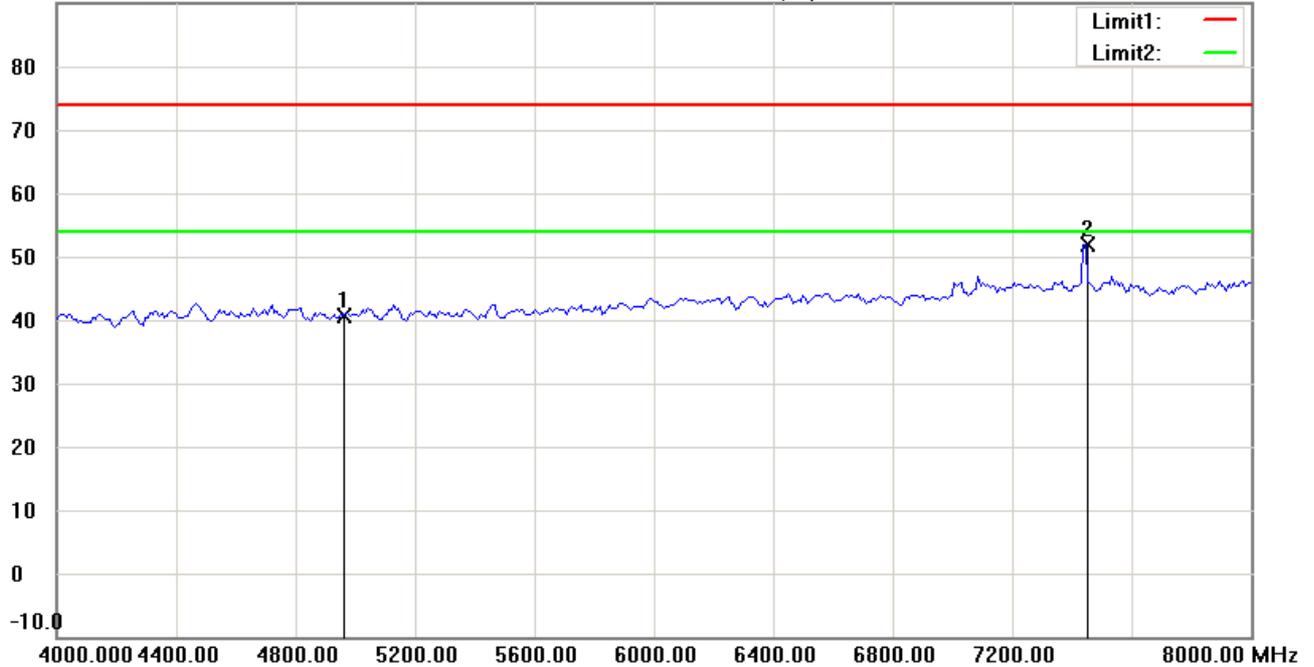
Date: 2016/7/4

Temperature:24 °C

90.0 dBuV/m

Time: 下午 11:31:26

Humidity:60 %



Site : Chamber

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

Polarization: *Vertical*

EUT : W6M21605-15841

Power : 120 V.a.c.

M/N:

Distance: 3m

Test Mode : TX 2480MHz

Note :

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
	4960.000	40.68	peak	-0.14	40.54	74.00	100	160	-33.46	
*	7446.894	47.12	peak	4.87	51.99	74.00	100	70	-22.01	



Radiated Emission Measurement

Operator: Roy

File :3

Data :#3

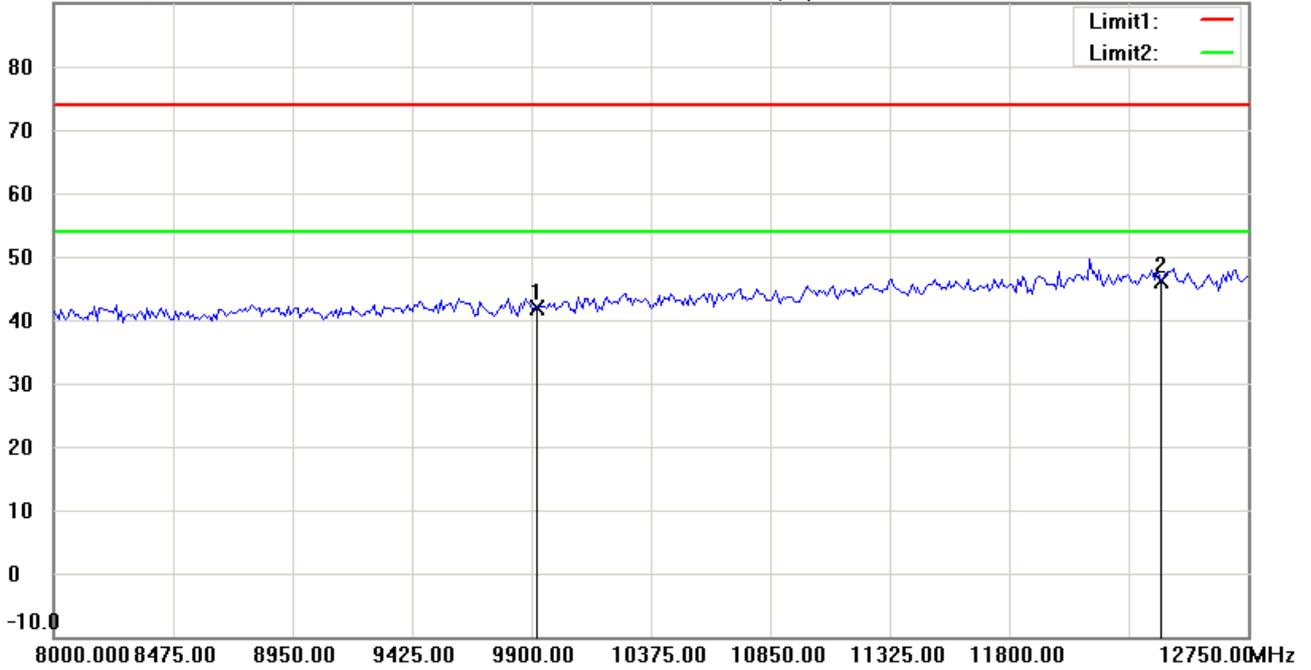
Date: 2016/7/4

Temperature:24 °C

90.0 dBuV/m

Time: 下午 11:28:47

Humidity:60 %



Site : Chamber

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

Polarization: *Horizontal*

EUT : W6M21605-15841

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 2480MHz

Note :

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
	9920.000	34.08	peak	7.83	41.91	74.00	100	275	-32.09	
*	12400.000	32.04	peak	13.99	46.03	74.00	100	50	-27.97	



Radiated Emission Measurement

Operator: Roy

File :3

Data :#8

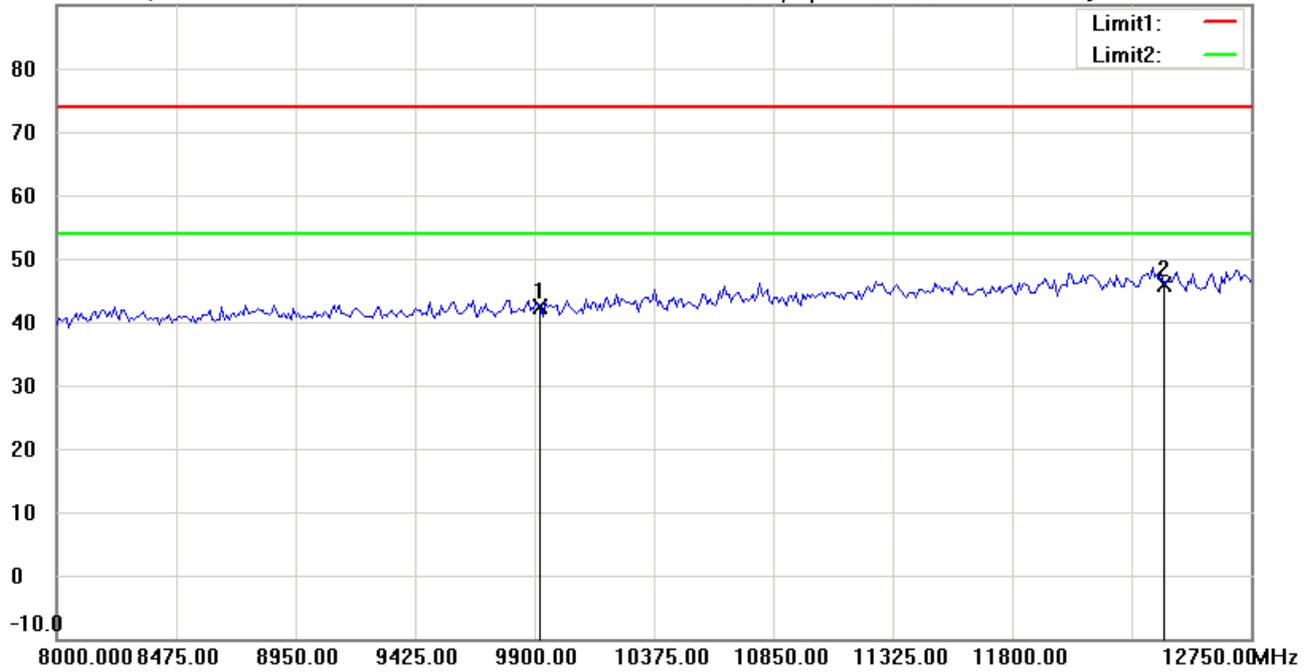
Date: 2016/7/4

Temperature:24 °C

90.0 dBuV/m

Time: 下午 11:31:39

Humidity:60 %



Site : Chamber

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

Polarization: *Vertical*

EUT : W6M21605-15841

Power : 120 V.a.c.

M/N:

Distance: 3m

Test Mode : TX 2480MHz

Note :

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
	9920.000	34.60	peak	7.83	42.43	74.00	100	65	-31.57	
*	12400.000	31.99	peak	13.99	45.98	74.00	100	245	-28.02	



**Radiated Emission Measurement**

Operator: Roy

File :3

Data :#4

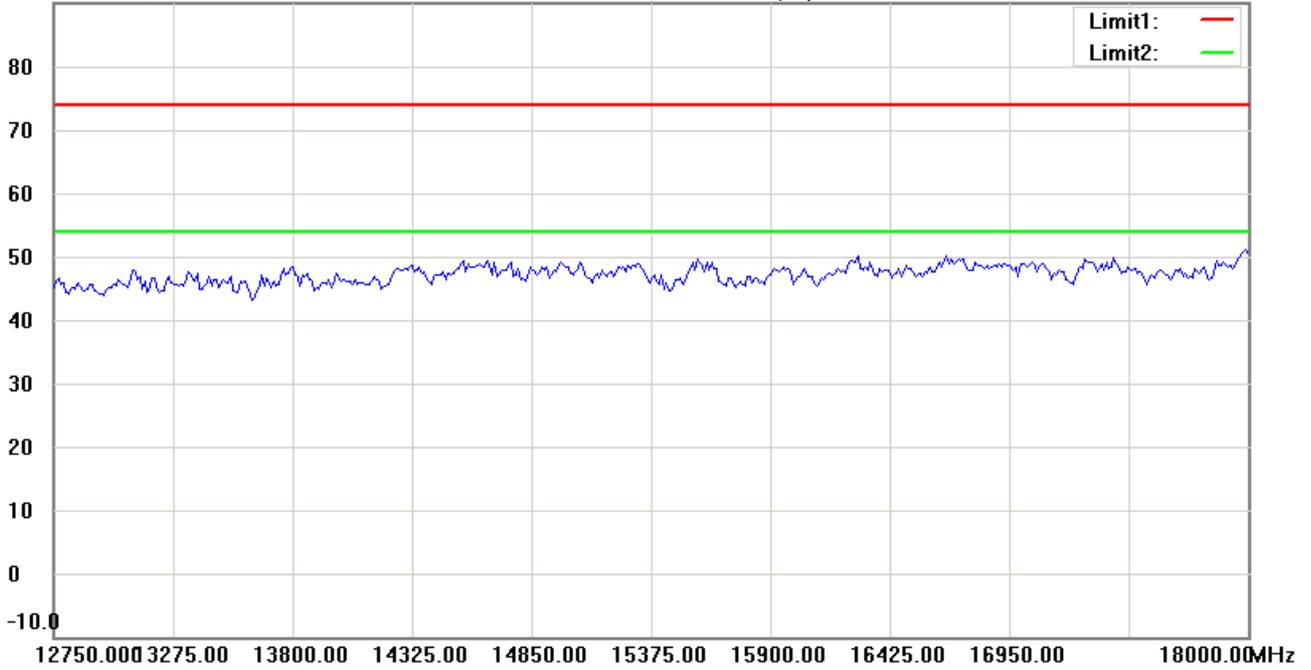
Date: 2016/7/4

Temperature:24 °C

90.0 dBuV/m

Time: 下午 11:29:45

Humidity:60 %



Site : Chamber

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

Polarization: *Horizontal*

EUT : W6M21605-15841

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 2480MHz

Note :

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
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Radiated Emission Measurement

Operator: Roy

File :3

Data :#9

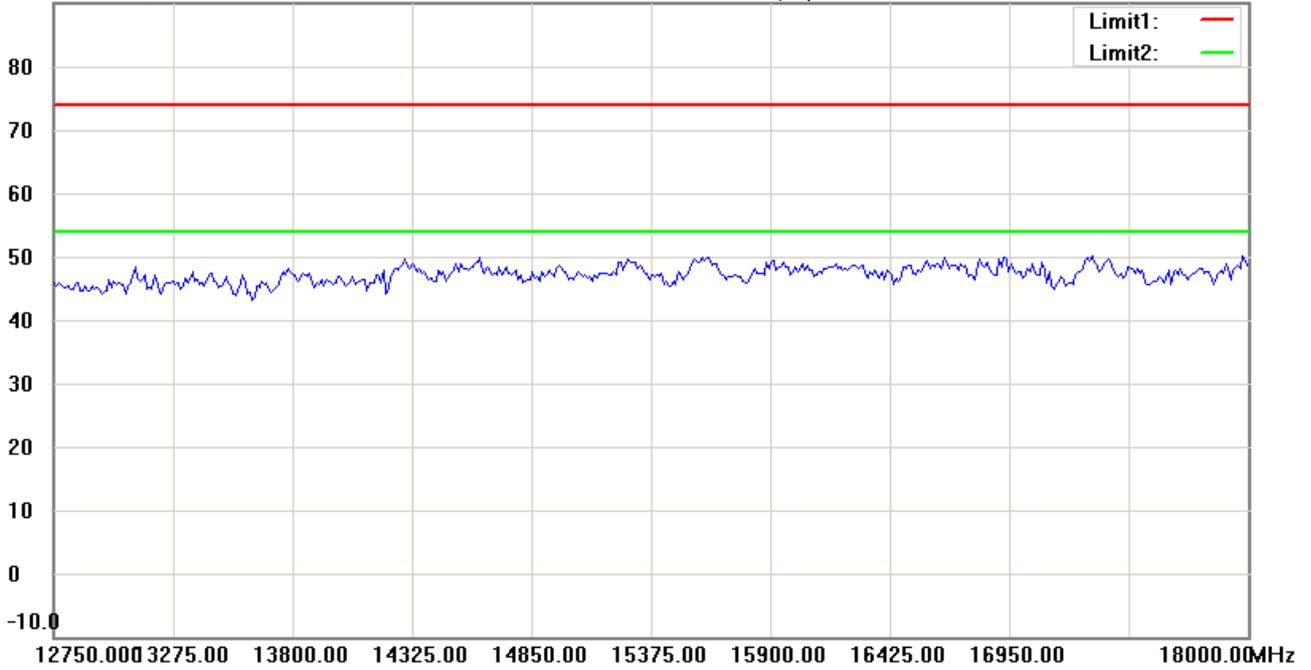
Date: 2016/7/4

Temperature:24 °C

90.0 dBuV/m

Time: 下午 11:32:40

Humidity:60 %



Site : Chamber

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

Polarization: *Vertical*

EUT : W6M21605-15841

Power : 120 V.a.c.

M/N:

Distance: 3m

Test Mode : TX 2480MHz

Note :

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
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Radiated Emission Measurement

Operator: Roy

File :3

Data :#5

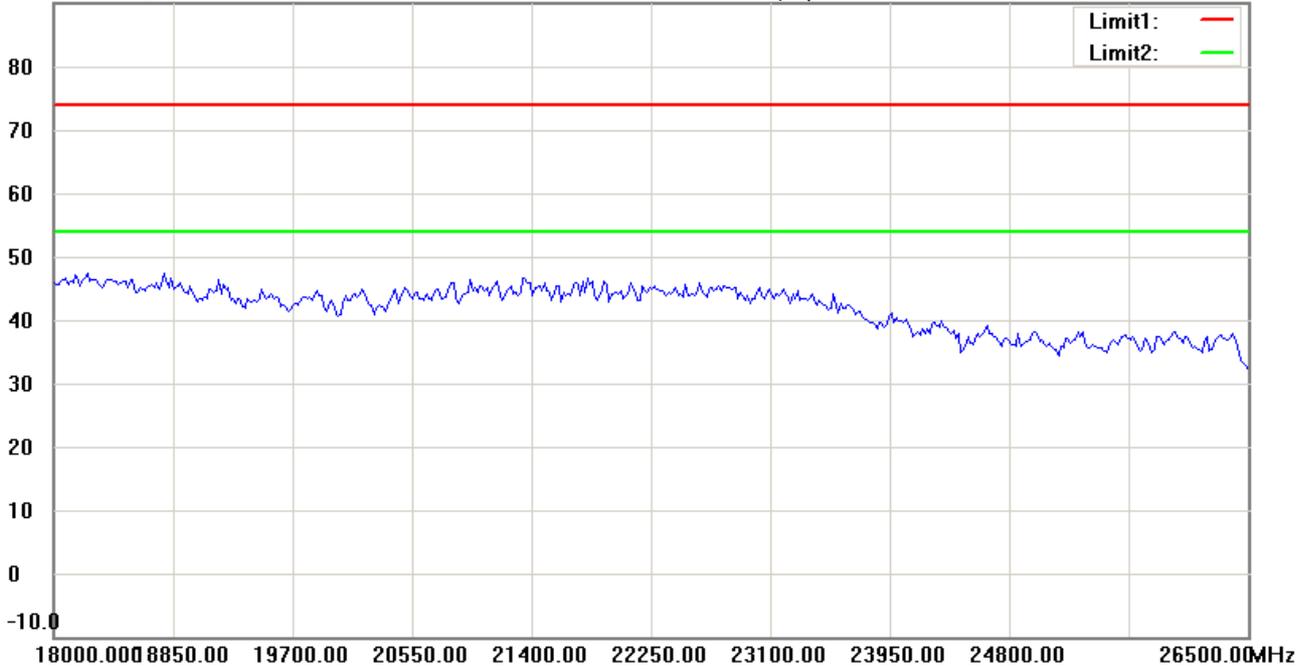
Date: 2016/7/4

Temperature:24 °C

90.0 dBuV/m

Time: 下午 11:29:55

Humidity:60 %



Site : Chamber

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

EUT : W6M21605-15841

M/N:

Test Mode : TX 2480MHz

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
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Radiated Emission Measurement

Operator: Roy

File :3

Data :#10

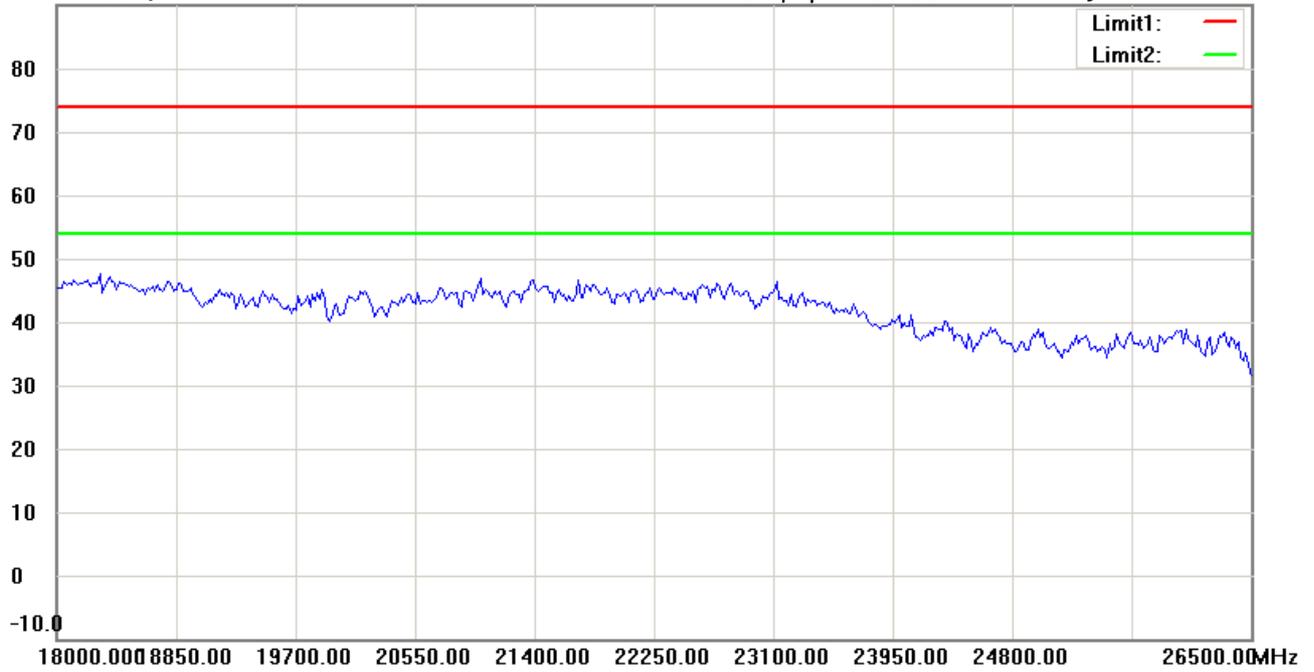
Date: 2016/7/4

Temperature:24 °C

90.0 dBuV/m

Time: 下午 11:32:50

Humidity:60 %



Site : Chamber

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

EUT : W6M21605-15841

M/N:

Test Mode : TX 2480MHz

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
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