FCC PART 15 SUBPART C / RSS-210 TEST REPORT

for

Portable Wireless PA System

Model No.: MA-505

FCC ID: M5X-MA505

IC: 2978A-MA505

of

Applicant: MIPRO Electronics Co., Ltd.
Address: 814 Pei-kang Road Chia-yi 600 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

Testing Laboratory
1477

Report No.: W6M21312-13727-C-1

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

Registration number: W6M21312-13727-C-1
FCC ID: M5X-MA505
IC: 2978A-MA505

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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 is 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:

Date	WTS-Lab.	Name	Signature
February 24, 2015		Spencer Yang	Spencer

Technical responsibility for area of testing:

Date	WTS	Name	Signature
February 24, 2015		Kevin Wang	Kevin Wang

Registration number: W6M21312-13727-C-1
FCC ID: M5X-MA505
IC: 2978A-MA505

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: 2732.01
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:	./.

1.3 Details of approval holder

Name:	MIPRO Electronics Co., Ltd.
Street:	814 Pei-kang Road
Town:	Chia-yi 600
Country:	Taiwan, R.O.C
Telephone:	+886-5-238-0809
Fax:	+886-5-238-0803

Registration number: W6M21312-13727-C-1
FCC ID: M5X-MA505
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1.4 Application details

Date of receipt of test item: July 30, 2014
Date of test: from July 31, 2014 to February 17, 2015

1.5 General information of Test item

Type of test item: Portable Wireless PA System

Model Number: MA-505

Multi-listing model number: MA-5XX(X=0~9,A~Z,a~z or Blank)

Photos: see Annex

Technical data

Frequency band: 2402 - 2480 MHz
Frequency (ch A): 2402 MHz
Frequency (ch B): 2441 MHz
Frequency (ch C): 2480 MHz

Transmitter **Unom**

Normal Mode
Power (ch 0): Conducted: -1.77 dBm
Power (ch 39): Conducted: -3.25 dBm
Power (ch 78): Conducted: -3.21 dBm

EDR Mode
Power (ch 0): Conducted: -2.30 dBm
Power (ch 39): Conducted: -2.63 dBm
Power (ch 78): Conducted: -3.18 dBm

Power supply: Battery 22.2 V, 4500 mAh, 99.9 Wh,120 VAC

Operation modes: Duplex

Modulation Type: GFSK、π / 4DQPSK、8DPSK

Antenna Type: PCB antenna

Antenna gain: 2 dBi

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Host device: none

Classification:

Fixed Device	☐
Mobile Device (Human Body distance ＞ 20cm)	☒
Portable Device (Human Body distance ＜ 20cm)	☐
Modular Radio Device	☐

Manufacturer: (if applicable)

Name: ./.
Street: ./.
Town: ./.
Country: ./.

Additional information: ./.

1.6 Test standards

RSS-210 Issue 8: December 2010
Technical standard : FCC RULES PART 15 SUBPART C § 15.247 (2013-10)

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 3 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 of power supply	Battery 22.2 V, 4500 mAh, 99.9 Wh,120 VAC
Extreme conditions parameters:	test voltage : -- extreme min : -- V max : -- V

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	2014/9/2	2015/9/1
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Function Test	
ETSTW-CE 008	HF-EICHLEITUNG 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	2014/7/8	2015/7/7
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2014/10/13	2015/10/12
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2014/9/2	2015/9/1
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2014/9/2	2015/9/1
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	2014/10/15	2015/10/14
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	ETS-Lindgren	2014/7/01	2015/6/30
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	ETS-Lindgren	2015/2/17	2016/2/16
ETSTW-RE 045	ESA-E SERIES SPECTRUM ANALYZER	E4404B	MY45111242	Agilent	Pre-test Use	
ETSTW-RE 049	TRILOG Super Broadband test Antenna	VULB 9160	9160-3185	Schwarzbeck	2015/2/17	2016/2/16
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2015/2/17	2016/2/16
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2015/2/17	2016/2/16
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2015/2/17	2016/2/16
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2014/6/05	2015/6/04
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	2015/2/17	2016/2/16
ETSTW-RE 062	Amplifier Module	CHC 2	None	KMIC	2014/11/26	2015/11/25
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	2014/10/9	2015/10/8
ETSTW-RE 088	SOLID STATE AMPLIFIER	KMA180265A01	99057	KMIC	2014/9/22	2015/9/21
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2015/2/17	2016/2/16
ETSTW-RE 106	Humidity Temperature Meter	TES-1366	091011113	TES	2014/11/7	2015/11/6
ETSTW-RE 111	TRILOG Super Broadband test Antenna	VULB 9160	9160-3309	Schwarz beck	2014/12/5	2015/12/4
ETSTW-RE 112	AC POWER SOURCE	TFC-1005	None	T-Power	Function test	
ETSTW-RE 115	2.4GHz Notch Filter	N0124411	473874	MICROWAVE CIRCUITS	2015/1/7	2016/1/6
ETSTW-RE 120	RF Player	MP9200	MP9210-111022	ADIVIC	Function test	

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ETSTW-RE 122	SIGNAL GENERATOR	SMF100A	102149	R&S	2014/6/11	2015/6/10
ETSTW-RE 125	5GHz Notch filter	5NSL11-5200/E221.3-O/O	1	K&L Microwave	2014/8/12	2015/8/11
ETSTW-RE 126	5GHz Notch filter	5NSL11-5800/E221.3-O/O	1	K&L Microwave	2014/8/12	2015/8/11
ETSTW-RE 127	RF Switch Box	RFS-01	None	WTS	2015/2/17	2016/2/16
ETSTW-RE 128	5.3GHz Notch filter	N0153001	SN487233	Microwave Circits	2014/8/12	2015/8/11
ETSTW-RE 129	5.5GHz Notch filter	N0555984	SN487234	Microwave Circits	2014/8/12	2015/8/11
ETSTW-RE 130	Handheld RF Spectrum Analyzer	N9340A	CN0147000204	Agilent	Pre-test Use	
ETSTW-GSM 002	Universal Radio Communication Tester	CMU 200	109439	R&S	2014/10/20	2015/10/19
ETSTW-GSM 019	Band Reject Filter	WRCTF824/849-822/851-40 /12+9SS	3	WI	2015/1/7	2016/1/6
ETSTW-GSM 020	Band Reject Filter	WRCD1747/1748-1743/1752-32/5SS	1	WI	2015/1/7	2016/1/6
ETSTW-GSM 021	Band Reject Filter	WRCD1879.5/1880.5-1875.5/1884.5-32/5SS	3	WI	2015/1/7	2016/1/6
ETSTW-GSM 022	Band Reject Filter	WRCT901.9/903.1-904.25-50/8SS	1	WI	2015/1/7	2016/1/6
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2014/9/17	2015/9/16
ETSTW-Cable 010	BNC Cable	5 M BNC Cable	None	JYE BAO CO.,LTD.	2014/10/15	2015/10/14
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.	2014/10/15	2015/10/14
ETSTW-Cable 016	BNC Cable	Switch Box	B Cable 1	Schwarz beck	2015/2/17	2016/2/16
ETSTW-Cable 017	BNC Cable	X Cable	B Cable 2	Schwarz beck	2015/2/17	2016/2/16
ETSTW-Cable 018	BNC Cable	Y Cable	B Cable 3	Schwarz beck	2015/2/17	2016/2/16
ETSTW-Cable 019	BNC Cable	Z Cable	B Cable 4	Schwarz beck	2015/2/17	2016/2/16
ETSTW-Cable 022	N TYPE Cable	5006	0002	JYE BAO CO.,LTD.	2015/2/17	2016/2/16
ETSTW-Cable 026	Microwave Cable	SUCOFLEX 104	279075	HUBER+SUHNER	2015/2/17	2016/2/16
ETSTW-Cable 027	Microwave Cable	SUCOFLEX 104	279083	HUBER+SUHNER	2014/3/3	2015/3/2
ETSTW-Cable 028	Microwave Cable	FA147A0015M2020	30064-2	UTIFLEX	2015/1/16	2016/1/15
ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2014/9/22	2015/9/21
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104（S_Cable 9）	279067	HUBER+SUHNER	2015/2/17	2016/2/16
ETSTW-Cable 031	Microwave Cable	SUCOFLEX 104（S_Cable 10）	238092	HUBER+SUHNER	2014/11/26	2015/11/25
ETSTW-Cable 043	Microwave Cable	SUCOFLEX 104	317576	HUBER+SUHNER	2014/11/26	2015/11/25
ETSTW-Cable 048	Microwave Cable	SUCOFLEX 104	325518	HUBER+SUHNER	2014/11/26	2015/11/25
ETSTW-Cable 053	N TYPE To SMA Cable	RG142	None	JYE BAO CO.,LTD.	2015/2/17	2016/2/16
ETSTW-Cable 058	Microwave Cable	SUCOFLEX 104	none	HUBER+SUHNER	2015/2/17	2016/2/16
WTSTW-SW 002	EMI TEST SOFTWARE	EZ_EMC	None	Farad	Version ETS-03A1	

2.4 General Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.4-2009 5.2 using a 50μH 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 C63.4-2009 6.4 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. The ambient. temperature of the UUT was 23°C with a humidity of 40 %.

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 dBμV) 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 dBμV + 10.36 dB + 6 dB = 36.36 dBμV/m @3m

The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m (non metallic table) and arranged according to ANSI C63.4-2009 6.3.1. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to the frequency specified as follows:

(1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
(2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
(3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.
(4) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a)(1)-(a)(3) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this Section, whichever is the higher frequency range of investigation.

For hand-held devices, a exploratory test was performed with three (3) orthogonal planes to determine the highest emissions.
Measurements were made by Worldwide Testing Services(Taiwan) Co., Ltd. at the registered open field test site located 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.

When the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.

The formula is as follows:
Average = Peak + Duty Factor
Duty Factor = 20 log (dwell time/T)
T = 100ms when the pulse train period is over 100 ms or the period of the pulse train.

Modified Limits for peak according to 15.35 (b) = Max Permitted average Limits + 20dB

ANSI STANDARD C63.4-2009 10.2.7: 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	15.247(b) IC RSS-210 A8.4	☒	☒	☐
Equivalent radiated Power	15.247(b) IC RSS-210 A8.4	☒	☒	☐
Spurious Emissions radiated – Transmitter operating	15.247(c) IC RSS-210 A8.5	☒	☒	☐
Spurious Emissions conducted – Transmitter operating	15.247 IC RSS-210 A8.5	☐	☐	☐
Carrier Frequency Separation	15.247(a) (1) IC RSS-210 A8.1	☒	☒	☐
Number of Hopping Frequencies	15.247(a) (1)(i) IC RSS-210 A8.1	☒	☒	☐
Time of Occupancy (Dwell Time)	15.247(a) (1)(i) IC RSS-210 A8.1	☒	☒	☐
20 dB Bandwidth	15.247(a) (1)(i) IC RSS-210 A8.1	☒	☒	☐
Band-edge Compliance of RF Emission	15.247(c) IC RSS-210 A8.1&8.5	☒	☒	☐
Radiated Emission from Receiver part	15.109 IC RSS-210 2.5 IC RSS-Gen Table 2	☒	☒	☐
Power Line Conducted Emission	15.207(a) IC RSS-Gen	☒	☒	☐

The follows is intended to leave blank.

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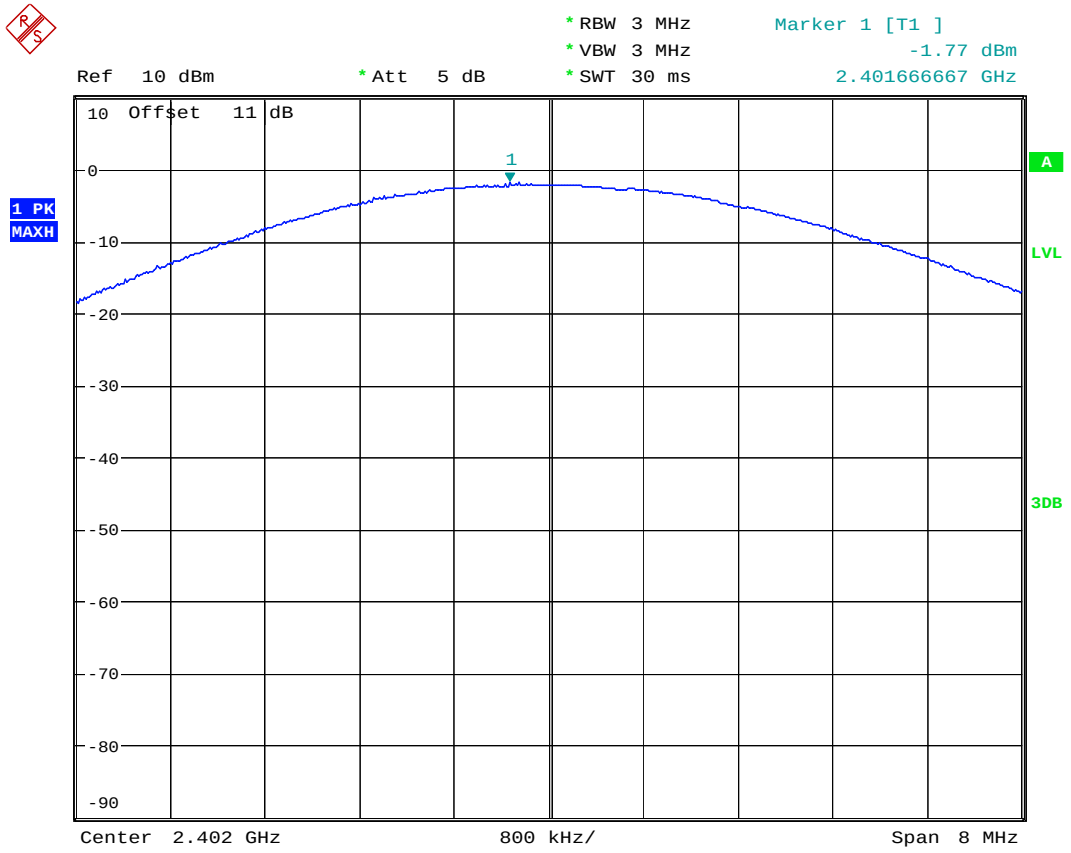
3.1 Peak Output Power (transmitter)

FCC Rule: 15.247

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).

Normal mode



MAX OUTPUT POWER CH0

Date: 17.SEP.2014 10:36:38

Registration number: W6M21312-13727-C-1
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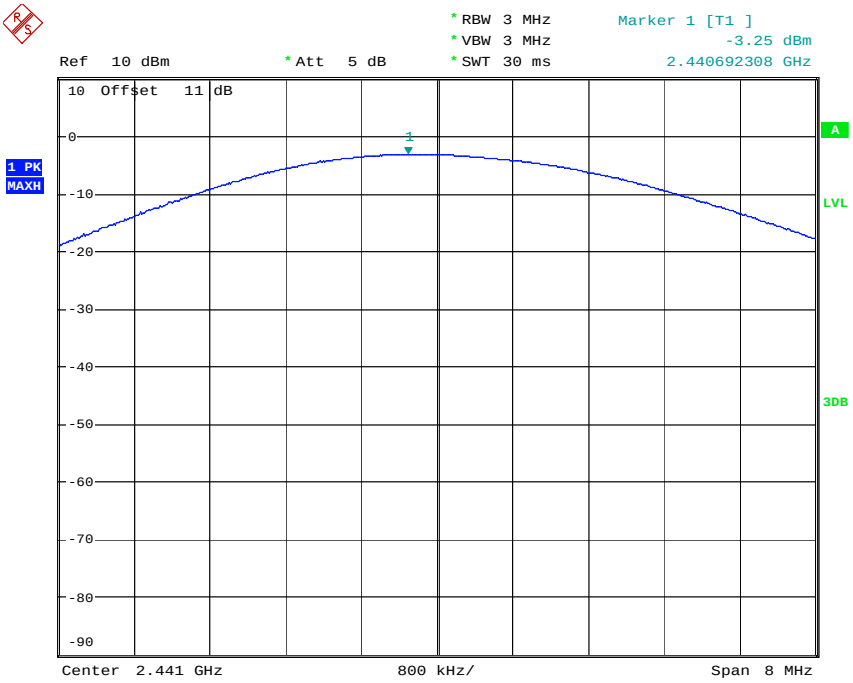
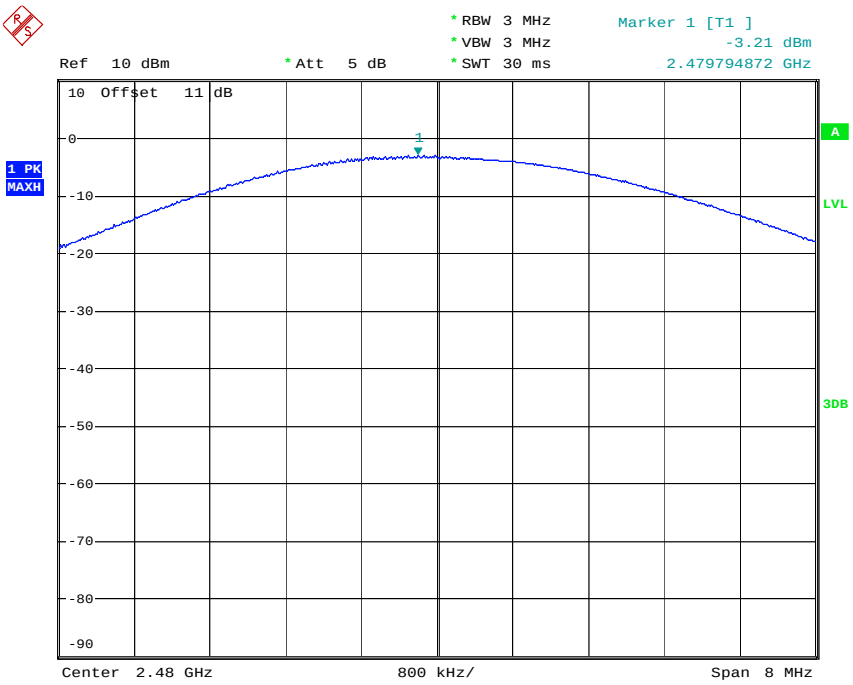


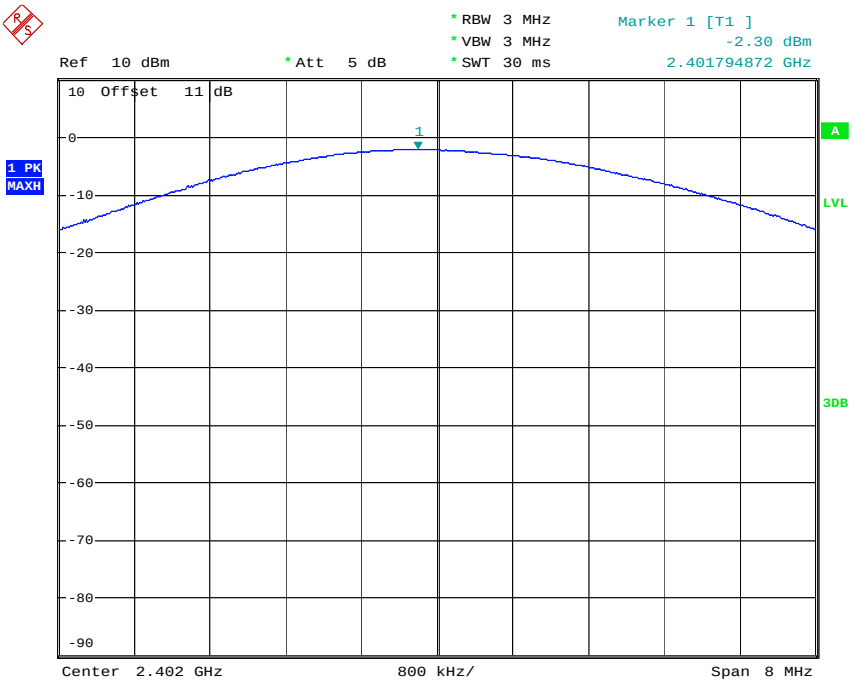
MAX OUTPUT POWER CH39
Date: 17.SEP.2014 10:36:11



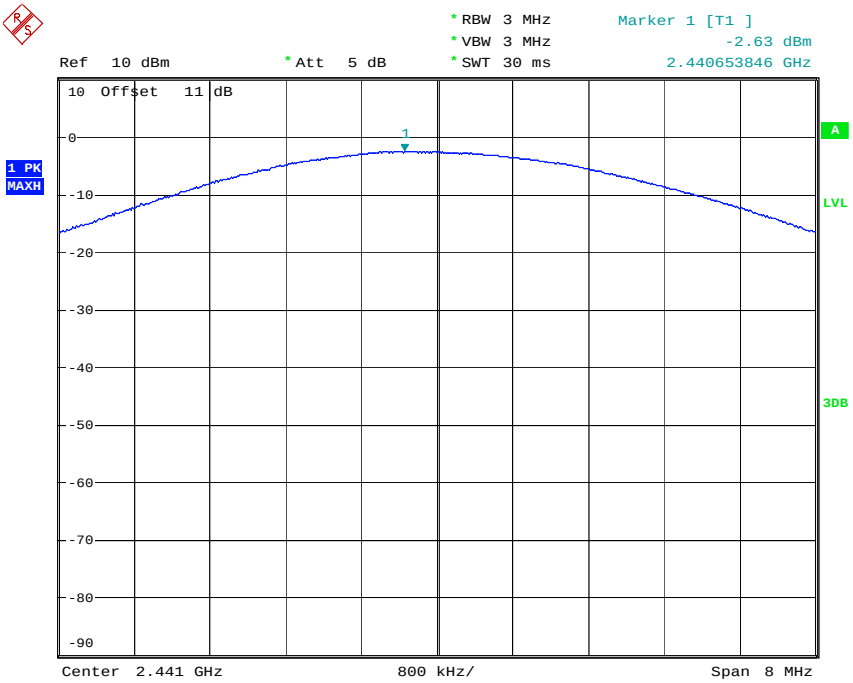
MAX OUTPUT POWER CH78
Date: 17.SEP.2014 10:35:22

Registration number: W6M21312-13727-C-1
FCC ID: M5X-MA505
IC: 2978A-MA505

EDR mode

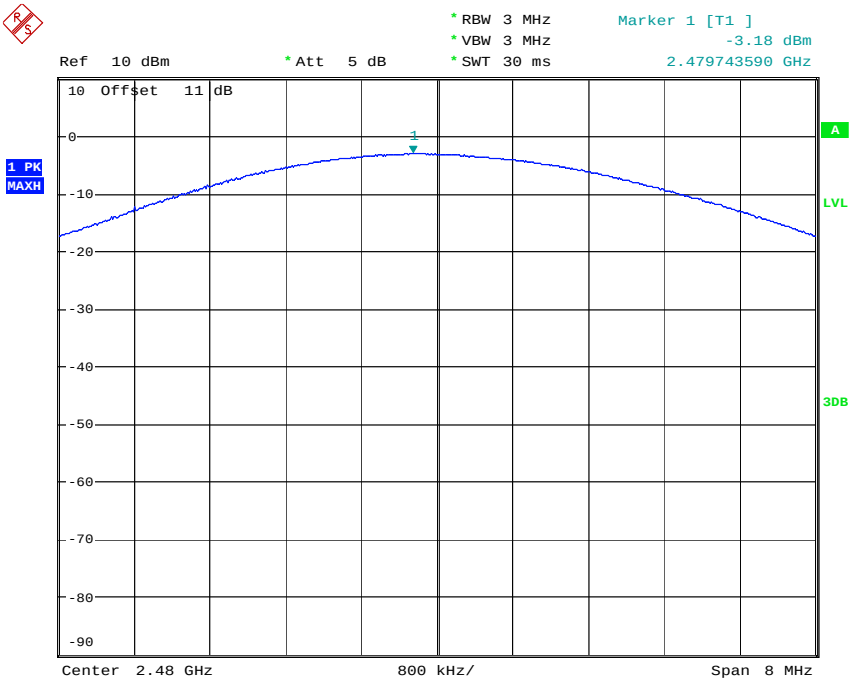


MAX OUTPUT POWER CH0 EDR MODE
Date: 17.SEP.2014 10:31:35



MAX OUTPUT POWER CH39 EDR MODE
Date: 17.SEP.2014 10:32:36

Registration number: W6M21312-13727-C-1
FCC ID: M5X-MA505
IC: 2978A-MA505



Maximum Peak Output Power

Limits:

Frequency MHz	Number of hopping channels			
	≥ 75	≥ 50	49 ≥ 25	74 ≥ 15
902-928	--	30 dBm	24 dBm	--
2400-2483.5 MHz	30 dBm	--	--	21 dBm
5725-5850 MHz	30 dBm	--	--	--

In case of employing transmitter antennas having antenna gain >dBi and using fixed poin-to point operation consider §15.247 (b)(4).

Test equipment used: ETSTW-RE 055, ETSTW-RE 050, ETSTW-RE 064

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3.2 RF Exposure Compliance Requirements

According to Supplement C, Edition 01-01 to OET Bulletin 65, Edition 97-01 this spread spectrum transmitter is categorically excluded from routine environmental evaluation because of the low power level, where there is a high likelihood of compliance with RF exposure standards.
The antenna used for this Bluetooth transceiver module must not be co-located or operating in conjunction with any other antenna or transmitter.

3.3 Out of Band Radiated Emissions

FCC Rule: 15.247(c) , 15.35
For out of band emissions that are close to or that exceed the 20 dB attenuation requirement described in the specification, radiated measurements were performed at a 3 m separation distance to determine whether these emissions complied with the general radiated emission requirement.
Limits:
For frequencies below 1GHz :
Max. reading – 20 dB

Guidance on Measurement of FHSS Systems:
"If the emission is pulsed, modify the unit for continuous operation , use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation." Here the correction was added to the limit instead subtracted from the reading.

Duty Cycle correction = 20 log (dwell time/100ms)
For frequencies above 1GHz (Peak measurements).
Limit = max. aver. reading-20dB +20dB(because Peak detector is used)

For frequencies above 1GHz (Average measurements).
Max. reading – 20 dB - duty cycle correction:

No duty cycle correction was added to the reading

Test equipment used: ETSTW-RE 003, ETSTW-RE 004, ETSTW-RE 111, ETSTW-RE 030, ETSTW-RE 064

Explanation: See attached diagrams in appendix.

3.4 Transmitter Radiated Emissions in restricted Bands

FCC Rules: 15.247 (c), 15.205, 15.209, 15.35
Radiated emission measurements were performed from 30 MHz to 26000 MHz.
For radiated emission tests, the analyzer setting was as followings:
RES BW VID BW
Frequency <1 GHz 100 kHz 100 kHz (Peak measurements)
Frequency >1 GHz 1 MHz 1 MHz (Peak measurements)
1 MHz 1 MHz (Average measurements)
Limits:

For frequencies below 1GHz :

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	46.0
Above 960	500	54.0

For frequencies above 1GHz (Average measurements).
Guidance on Measurement of FHSS Systems:
"If the emission is pulsed, modify the unit for continues operation , use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation." Here the correction was added to the limit instead subtracted from the reading.

Duty cycle correction = 20 log (dwell time/100ms)

For frequencies above 1GHz (Average measurements).

Limit – duty cycle correction

No duty cycle correction was added to the reading.

54.0dBµV/m

For frequencies above 1GHz (Peak measurements).

Limit + 20dB

54.0dBµV/m + 20 dB= 74 dBµV/m

Test equipment used: ETSTW-RE 003, ETSTW-RE 004, ETSTW-RE 030, ETSTW-RE 111, ETSTW-RE 064

Explanation: See attached diagrams in appendix.

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3.5 Spurious emissions (tx)

Spurious emission was measured with modulation (declared by manufacturer).
In any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c))

SAMPLE CALCULATION OF LIMIT. All results will be updated by an automatic measuring system in accordance to point 2.3.
Calculation of test results:
Such factors like antenna correction, cable loss, external attenuation etc. are already included in the provided measurement results. This is done by using validated test software and calibrated test system according the accreditation requirements.

The peak and average spurious emission plots was measured with the average limits.
In the Table being listed the critical peak and average value an exhibit the compliance with the above calculated Limits.

If in the column‘s correction factor states a value then the max. Field strength in the same row is corrected by a value gained from the “Marker-Delta-Method“ or the „Duty-Cycle Correction Factor“.

Summary table with radiated data of the test plots

Model:	MA-505	Date:	- -				
Mode:	- -	Temperature:	- -	°C	Engineer:	- -	
Polarization:	Horizontal	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) Peak	Reading (dBuV) Ave.	Factor (dB) Corr.	Result (dBuV/m) Peak	Result (dBuV/m) Ave.	Limit (dBuV/m) Peak	Limit (dBuV/m) Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -

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 above 1GHz: 30-1000 MHz = ± 4.32 dB, 1-18 GHz = ± 4.95 dB, 18-40 GHz = ± 2.94 dB ; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.**
6. **See attached diagrams in appendix.**

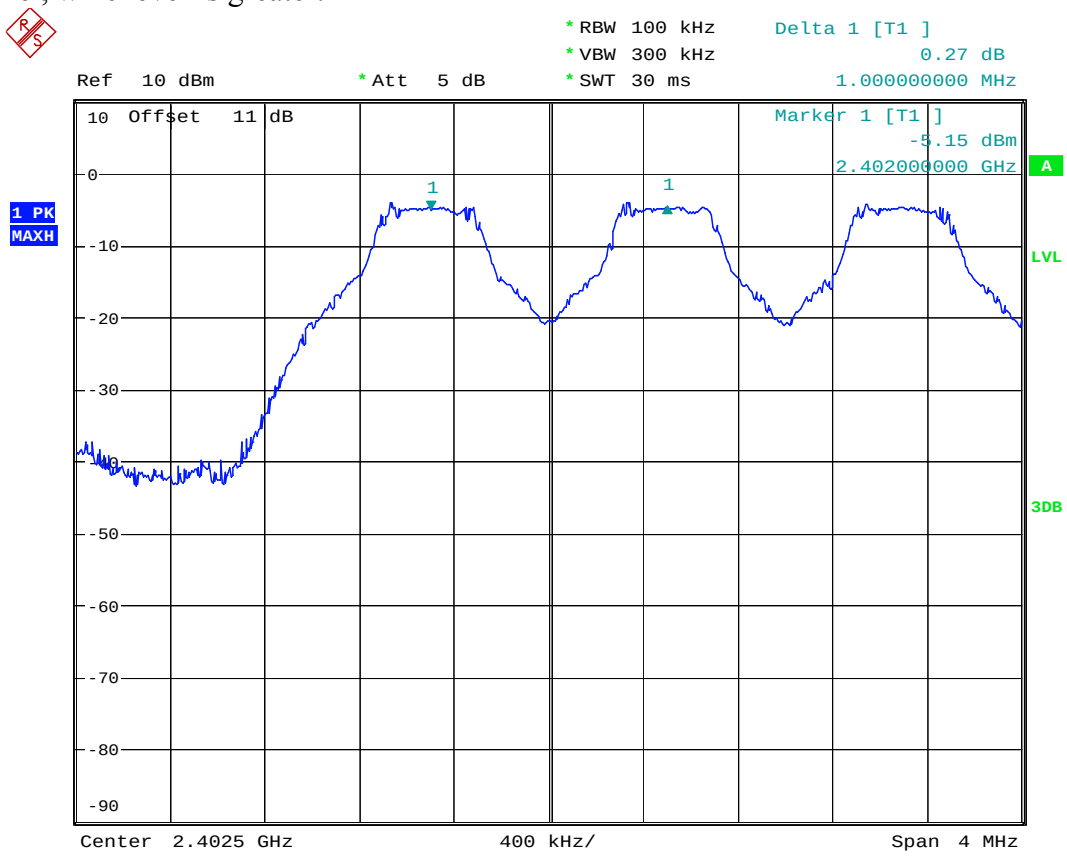
All other not noted test plots do not contain significant test results in relation to the limits.
TEST RESULT (Transmitter): The unit DOES meet the FCC requirements.
Test equipment used: ETSTW-RE 003, ETSTW-RE 004, ETSTW-RE 030, ETSTW-RE 111,ETSTW-RE 064 ETSTW-RE 088, ETSTW-RE 018

Registration number: W6M21312-13727-C-1
FCC ID: M5X-MA505
IC: 2978A-MA505

3.6 Carrier Frequency Separation

Carrier Frequency Separation was measured with modulation (declared by manufacturer).

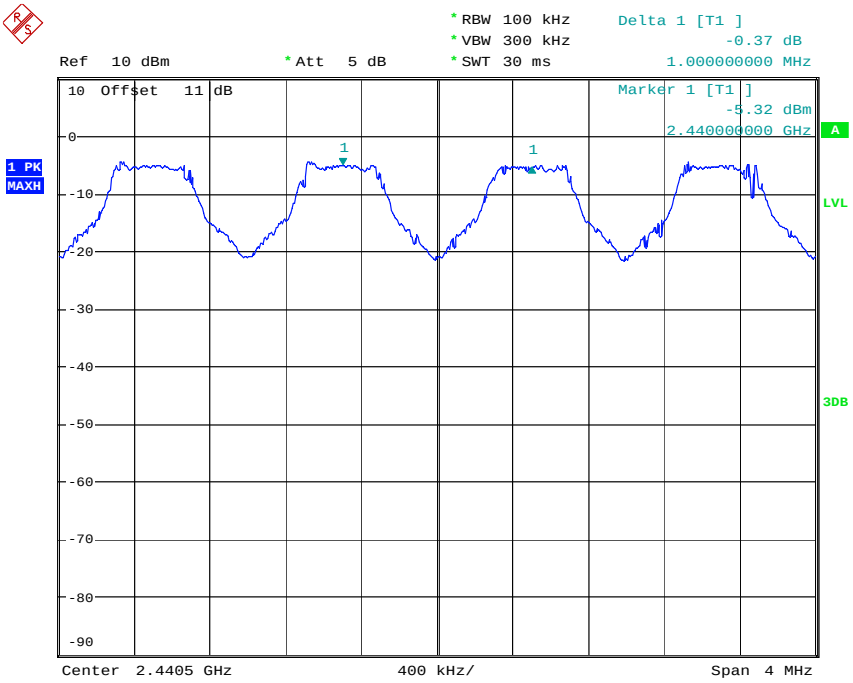
According to FCC rules part 15 subpart C §15.247 frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or 20 dB bandwidth of the hopping channel, whichever is greater.



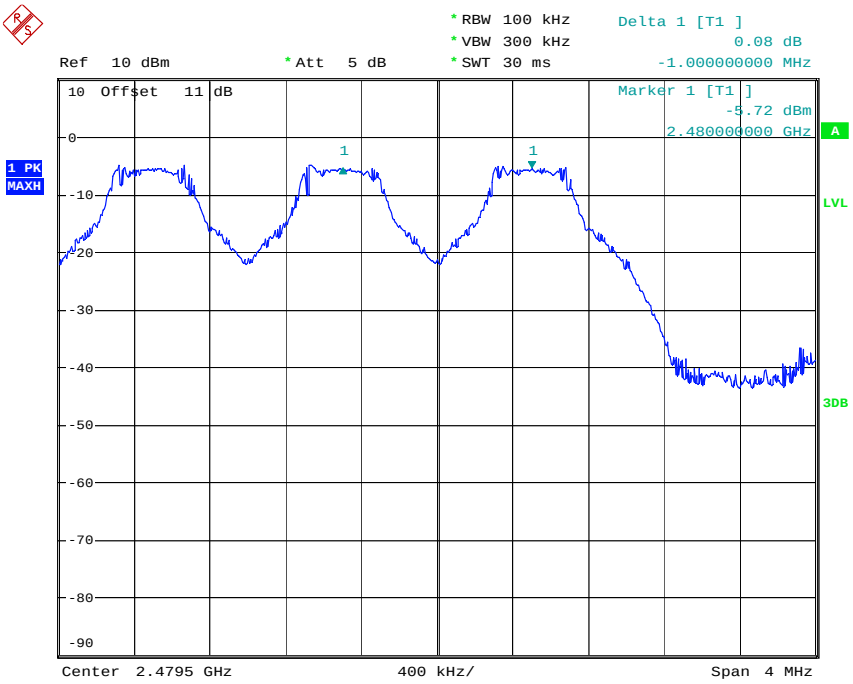
FREQUENCY SEPARATION CH0

Date: 17.SEP.2014 10:57:22

Registration number: W6M21312-13727-C-1
FCC ID: M5X-MA505
IC: 2978A-MA505



FREQUENCY SEPARATION CH39
Date: 17.SEP.2014 10:58:06



FREQUENCY SEPARATION CH78
Date: 17.SEP.2014 10:58:49

Limits:

Frequency Range MHz	Limits	
	20 dB bandwidth < 25 kHz	20 dB bandwidth > 25 kHz
902-928	25 kHz	20 dB bandwidth
2400-2483.5 5725-5850.0	25 kHz	20 dB bandwidth

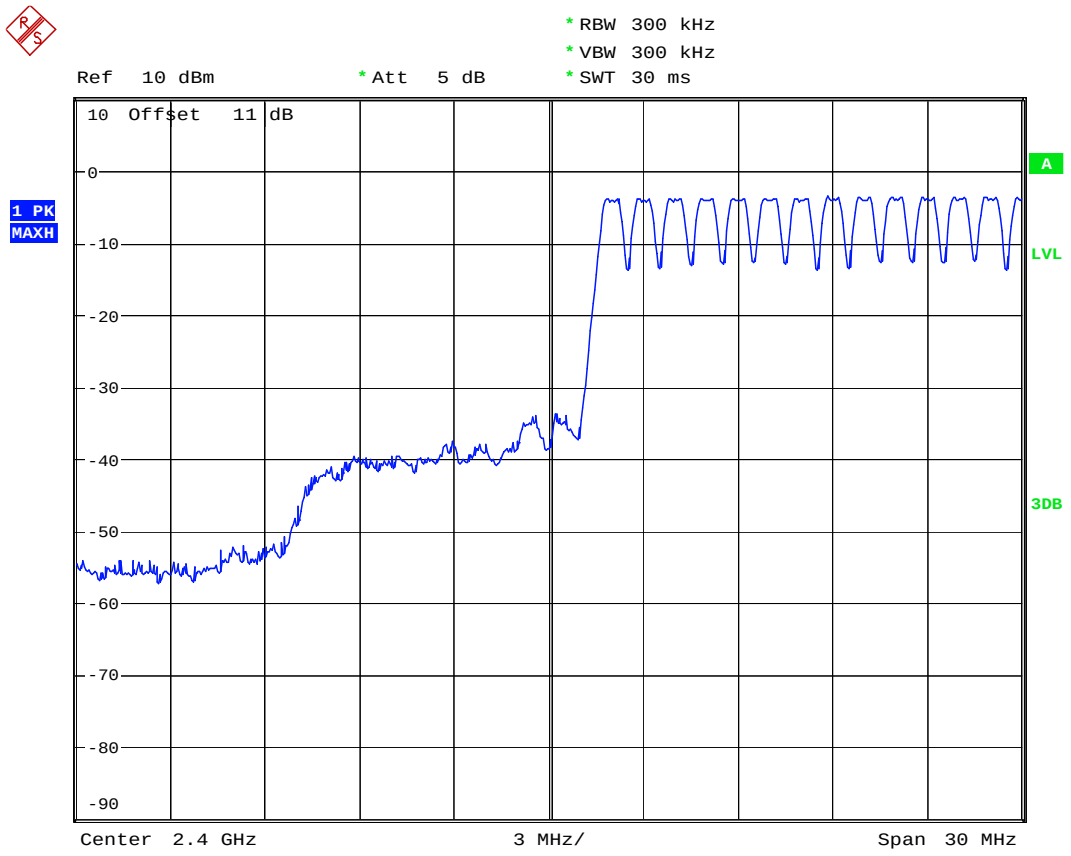
Test equipment used: ETSTW-RE 055, ETSTW-RE 064

Registration number: W6M21312-13727-C-1
FCC ID: M5X-MA505
IC: 2978A-MA505

3.7 Number of Hopping Frequencies

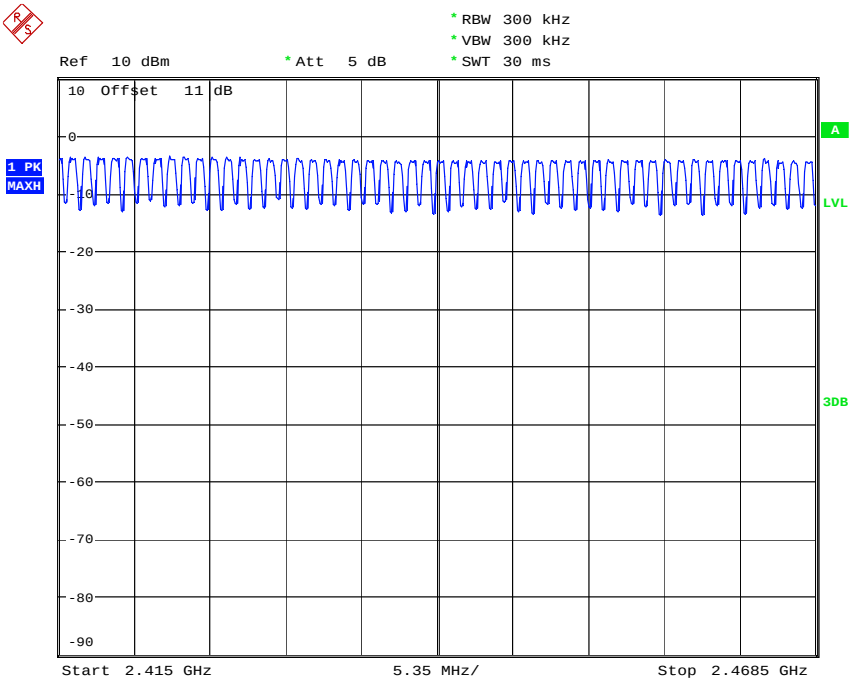
According to FCC rules part 15 subpart C §15.247 frequency hopping systems operating in the 2400-2483.5 MHz band shall use at least 15 hopping frequencies. Frequency hopping systems in 5725-5850 MHz bands shall use least 75 hopping frequencies.

For frequency hopping systems operating in the 902-928 MHz band: if the 20dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies; if the 20dB bandwidth of the hopping channel 250 kHz or greater, the system shall use at least 25 hopping frequencies.

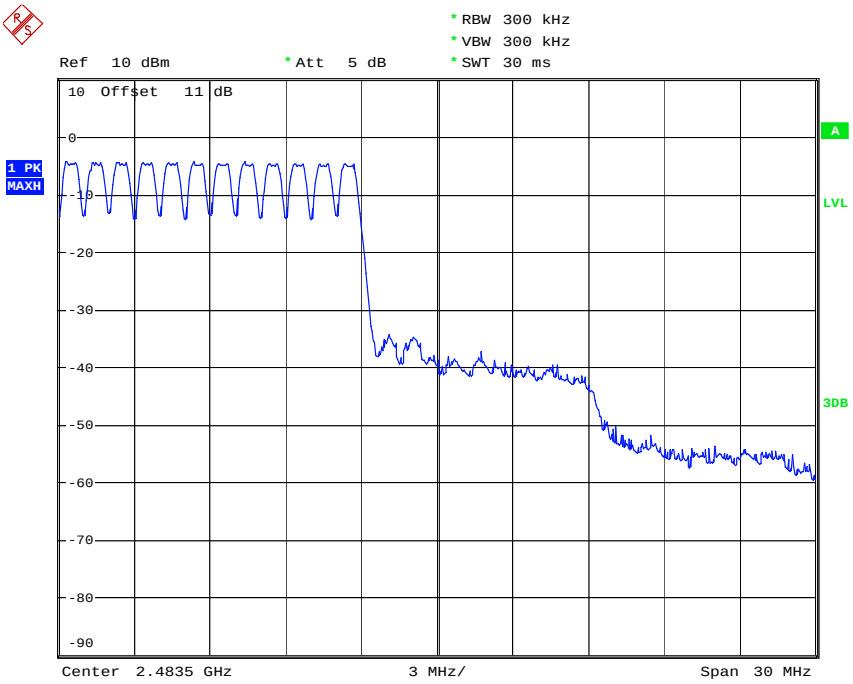


NUMBER OF HOPPING CH0-13
Date: 17.SEP.2014 10:54:41

Registration number: W6M21312-13727-C-1
FCC ID: M5X-MA505
IC: 2978A-MA505



NUMBER OF HOPPING CH14-66
Date: 17.SEP.2014 10:55:26



NUMBER OF HOPPING CH67-78
Date: 17.SEP.2014 10:56:03

Limits:

Frequency Range MHz	Limit	
	20dB Bandwidth	Number of Channels
902-928 MHz	Bandwidth < 250 kHz	≥ 50
	Bandwidth ≥ 250 kHz	≥ 25
2400-2483.5	not defined	15
5725-5850.0 MHz	1 MHz	75

Test equipment used: ETSTW-RE 055, ETSTW-RE 064

3.7.1 Pseudorandom Frequency Hopping Sequence

The generation of the hopping sequence is determined by the Bluetooth core specification and complies with the FCC requirements.

3.7.2 Coordination of hopping sequences to other transmitters

According to the Bluetooth core specification such a coordination is not possible. During scatternet function only one of the two hopping sequences will be used at a definite moment.

3.7.3 System Receiver Hopping Capability

According to the Bluetooth core specification. The system receivers shift frequencies in synchronization with the transmitted signals.

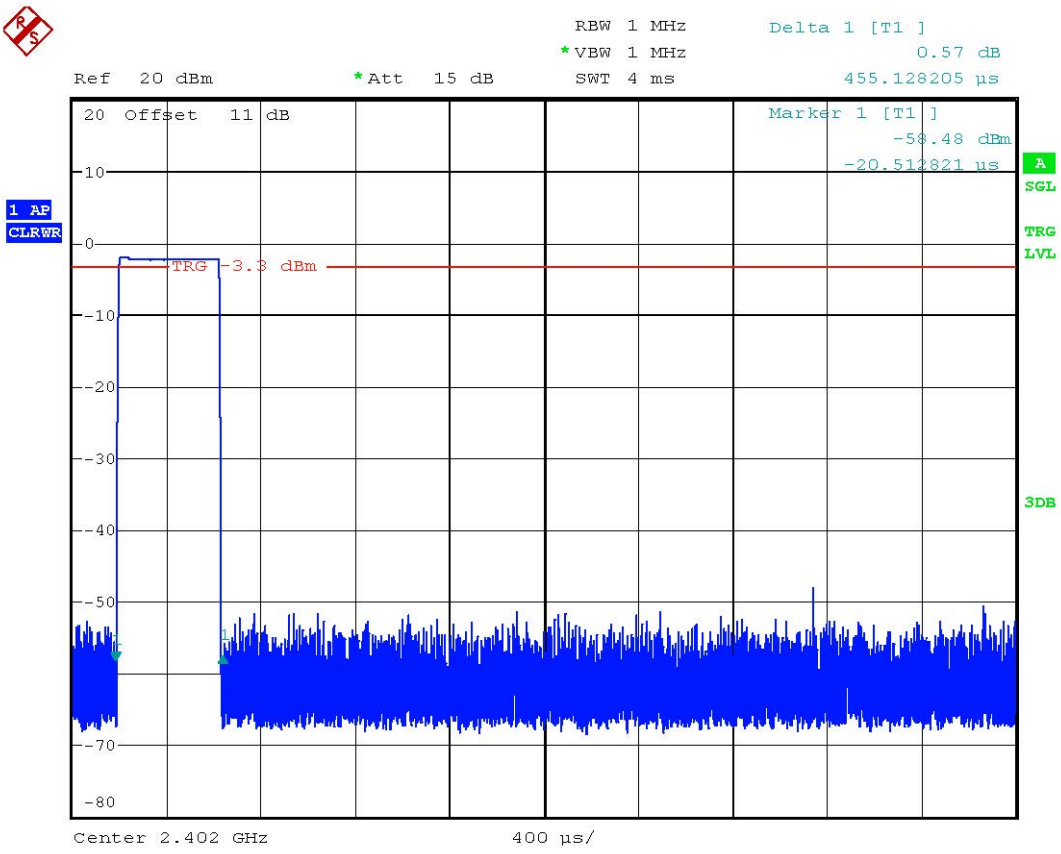
Registration number: W6M21312-13727-C-1
FCC ID: M5X-MA505
IC: 2978A-MA505

3.8 Time of Occupancy (Dwell Time)

Frequency hopping systems operating in the 5725-5850 MHz band shall use an average time of occupancy on any frequency not greater than 0.4 seconds within a 30 second period.

In 2400-2483.5 MHz band the average time of occupancy on any channel shall not be greater than 0.4 seconds multiplied by the number of hopping channels employed.

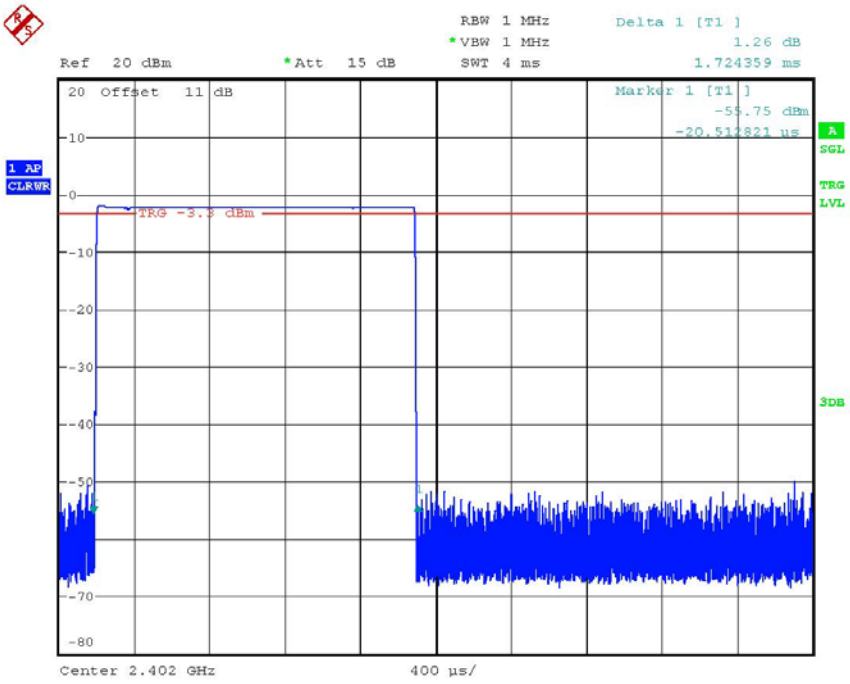
For frequency hopping systems operating in the 902-928 MHz band: if the 20dB bandwidth of the hopping channel is less than 250 kHz, the average time of occupancy on any frequency shall not greater than 0.4 seconds within a 20 second period; if the 20dB bandwidth of the hopping channel is 250 kHz or greater, the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period.



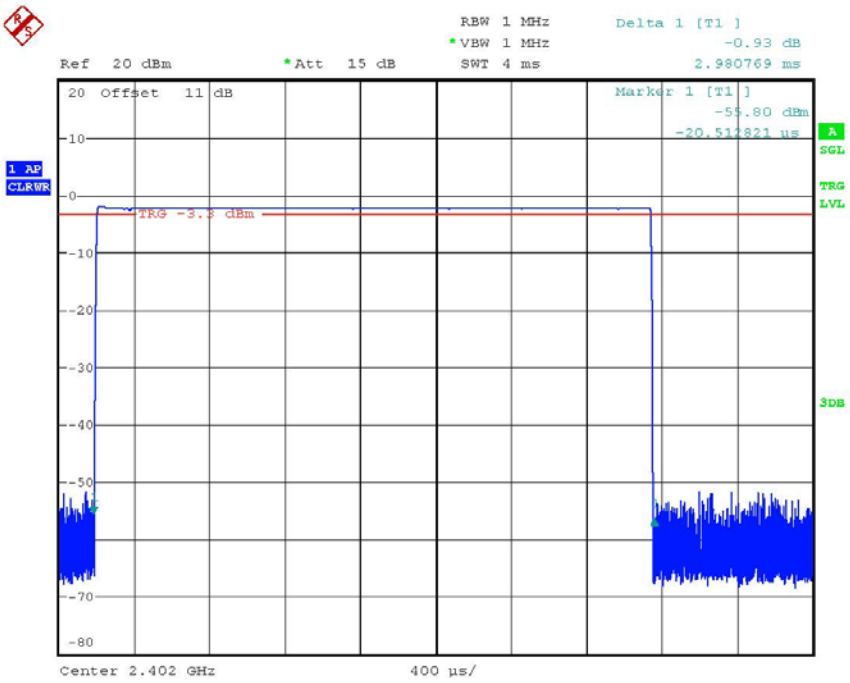
DWELL TIME CH0 DH1 (0.455ms * 320event = 145.6ms)

Date: 17.SEP.2014 04:24:25

Registration number: W6M21312-13727-C-1
FCC ID: M5X-MA505
IC: 2978A-MA505

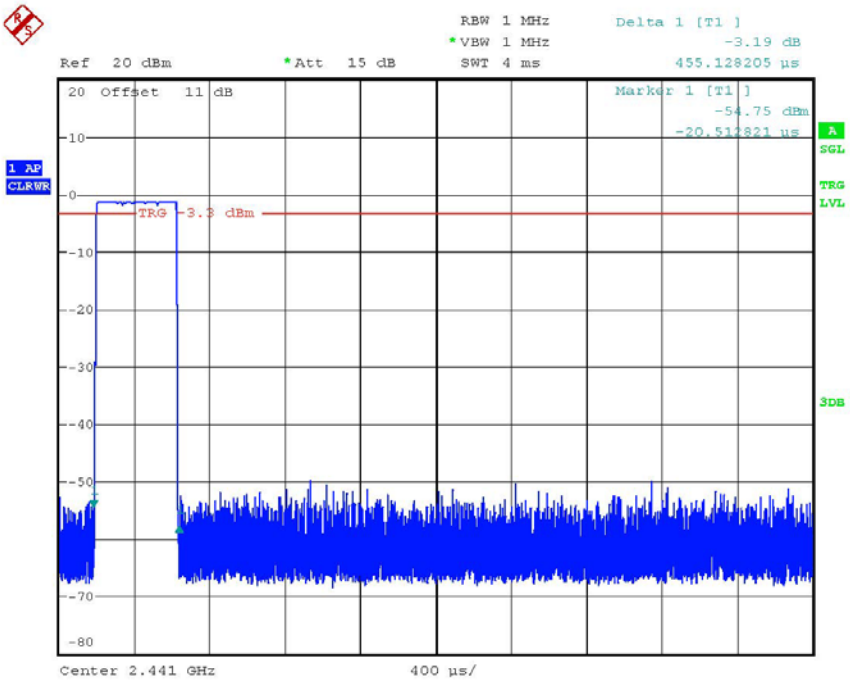


DWELL TIME CH0 DH3 (1.724ms * 160event = 275.84ms)
Date: 17.SEP.2014 04:28:05

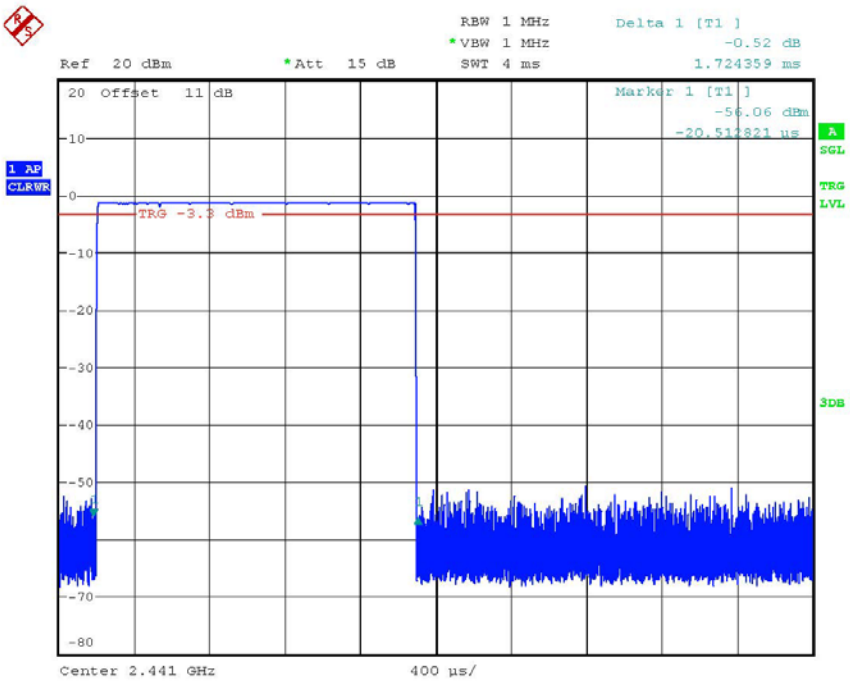


DWELL TIME CH0 DH5 (2.98ms * 106event = 315.88ms)
Date: 17.SEP.2014 04:29:46

Registration number: W6M21312-13727-C-1
FCC ID: M5X-MA505
IC: 2978A-MA505

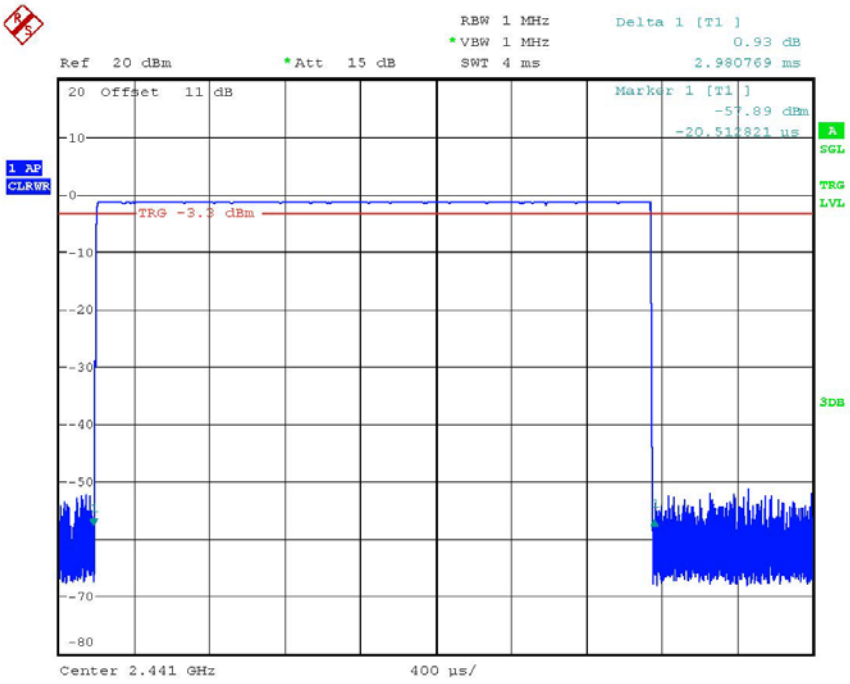


DWELL TIME CH39 DH1 (0.455ms * 320event = 145.6ms)
Date: 17.SEP.2014 04:25:01

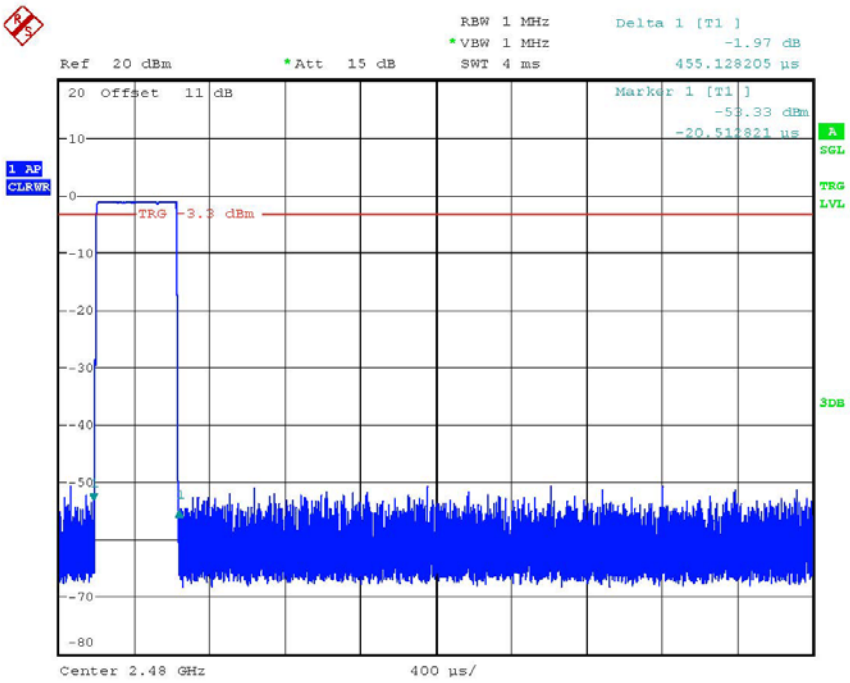


DWELL TIME CH39 DH3 (1.724ms * 160event = 275.84ms)
Date: 17.SEP.2014 04:27:38

Registration number: W6M21312-13727-C-1
FCC ID: M5X-MA505
IC: 2978A-MA505

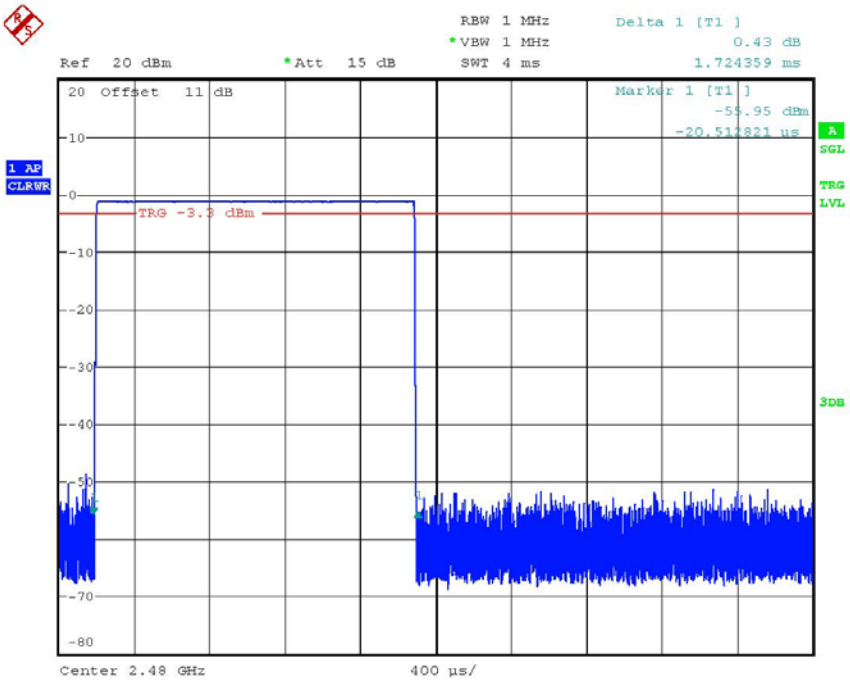


DWELL TIME CH39 DH5 (2.98ms * 106event = 315.88ms)
Date: 17.SEP.2014 04:30:23

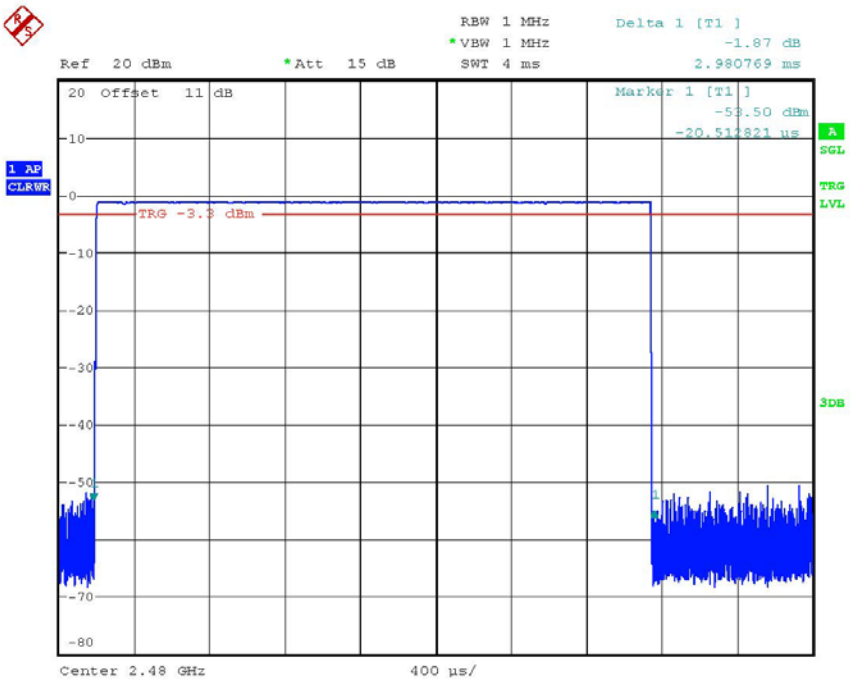


DWELL TIME CH78 DH1 (0.455ms * 320event = 145.6ms)
Date: 17.SEP.2014 04:25:44

Registration number: W6M21312-13727-C-1
FCC ID: M5X-MA505
IC: 2978A-MA505



DWELL TIME CH78 DH3 (1.724ms * 160event = 275.84ms)
Date: 17.SEP.2014 04:27:15



DWELL TIME CH78 DH5 (2.98ms * 106event = 315.88ms)
Date: 17.SEP.2014 04:30:56

Limits and measurement periods:

Frequency MHz	Number of channels	Measurement Periode	Limit
902 – 928	≥50	20 s	0.4 s
	49 ≥ 25	10 s	0.4 s
2400 – 2483.5	≥ 15	0.4 s * number of used channels	0.4 s
5725- 5850	≥ 75	30 s	0.4s

Test equipment used: ETSTW-RE 055, ETSTW-RE 064

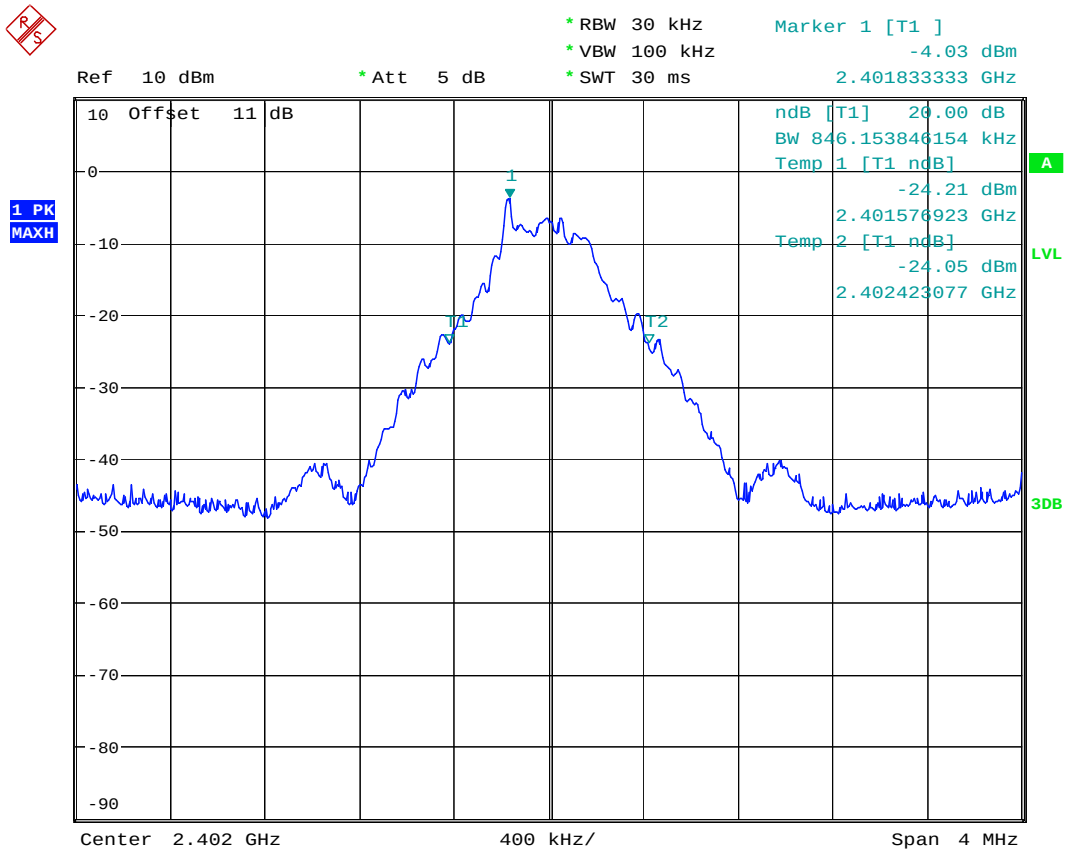
Registration number: W6M21312-13727-C-1
FCC ID: M5X-MA505
IC: 2978A-MA505

3.9 20dB Bandwidth

Frequency hopping systems operating in the 5725-5850 MHz bands shall use a maximum 20dB bandwidth of 1 MHz.
The 20dB bandwidth is measured on the lowest, middle and highest hopping channel.

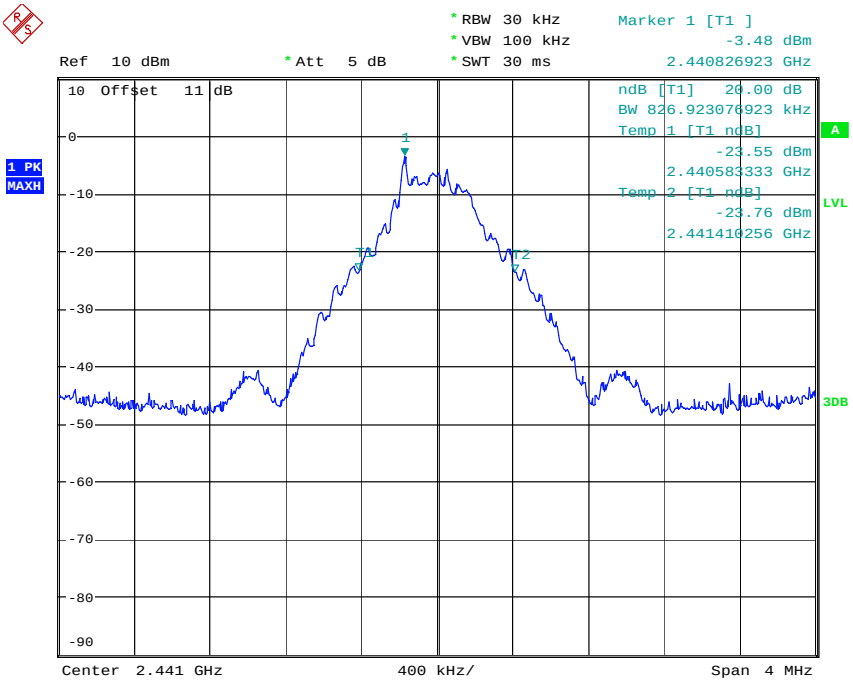
For frequency hopping systems operating in the 902-928 MHz band the maximum 20dB bandwidth of the hopping channel is 500 kHz.

Normal mode

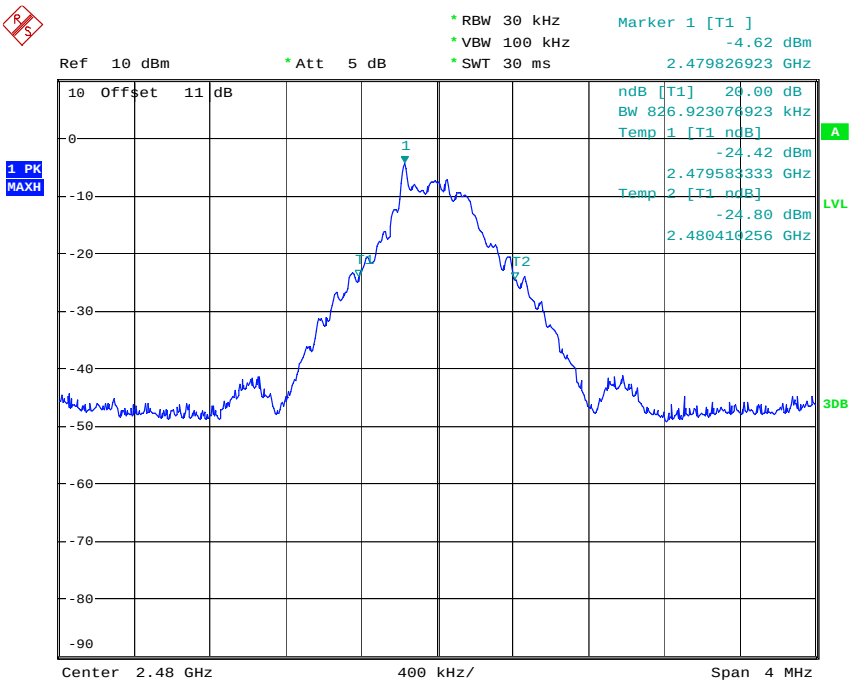


20DB BANDWIDTH CH0
Date: 17.SEP.2014 10:38:36

Registration number: W6M21312-13727-C-1
FCC ID: M5X-MA505
IC: 2978A-MA505



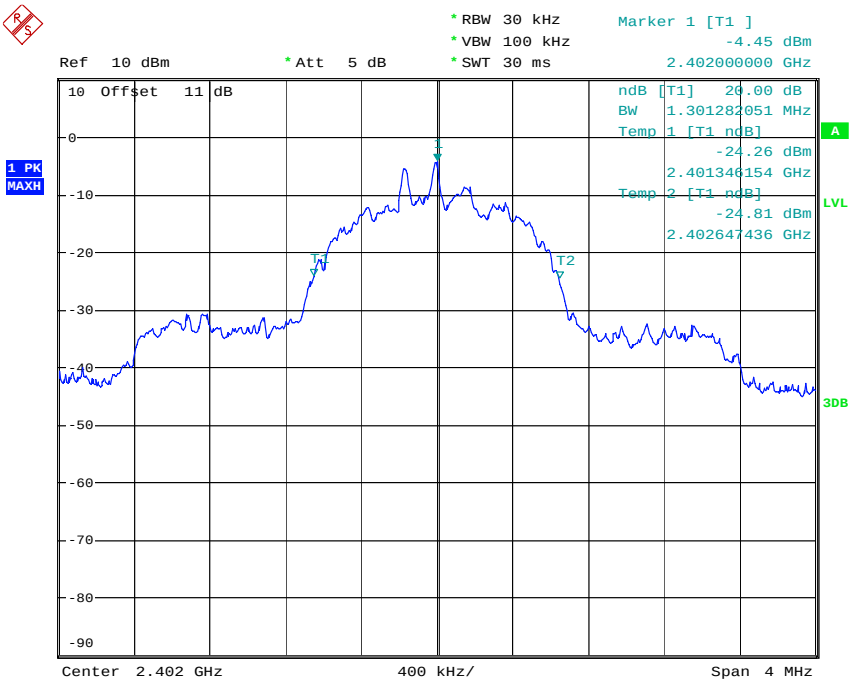
20DB BANDWIDTH CH39
Date: 17.SEP.2014 10:39:21



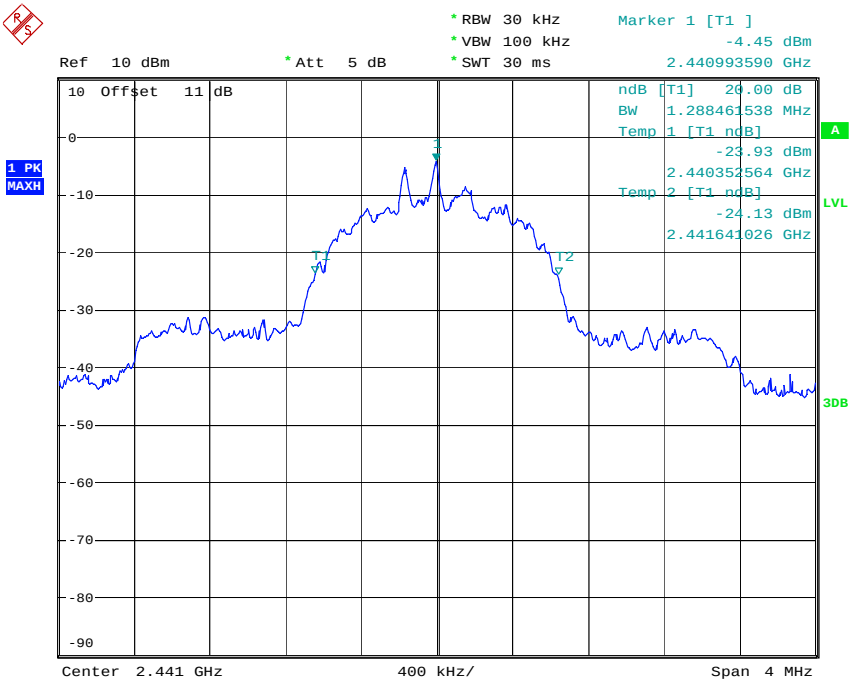
20DB BANDWIDTH CH78
Date: 17.SEP.2014 10:40:04

Registration number: W6M21312-13727-C-1
FCC ID: M5X-MA505
IC: 2978A-MA505

EDR mode

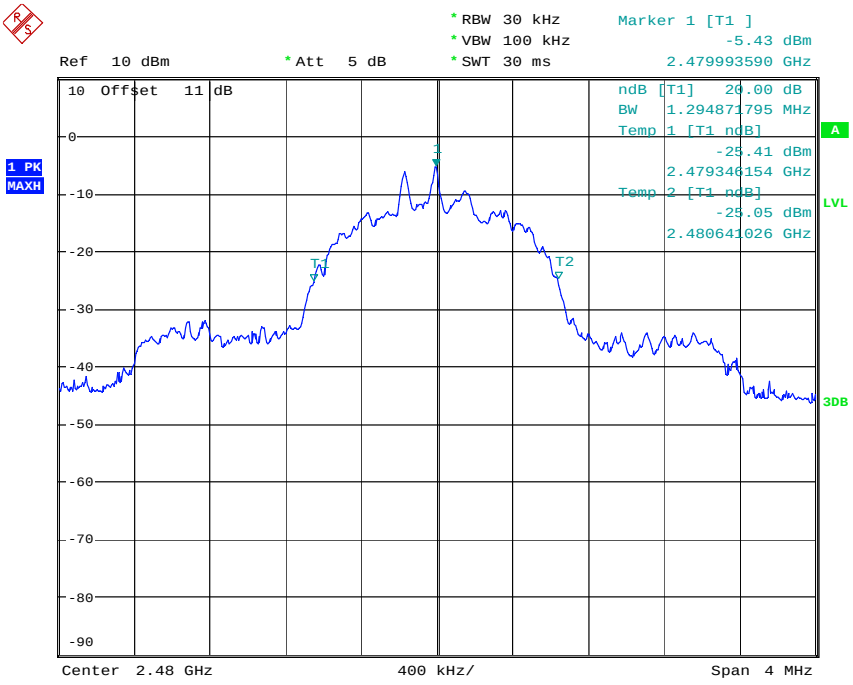


20DB BANDWIDTH CH0 EDR MODE
Date: 17.SEP.2014 10:42:56



20DB BANDWIDTH CH39 EDR MODE
Date: 17.SEP.2014 10:42:07

Registration number: W6M21312-13727-C-1
FCC ID: M5X-MA505
IC: 2978A-MA505



Limits:

Frequency Range / MHz	Limit
902-928	≤ 500 kHz
2400-2483.5	not defined
5725-5850	≤ 1 MHz

Test equipment used: ETSTW-RE 055, ETSTW-RE 064

3.9.1 System Receiver Input Bandwidth

It is determined in the Bluetooth core specification. The value matches to the bandwidth of transmitter signal.

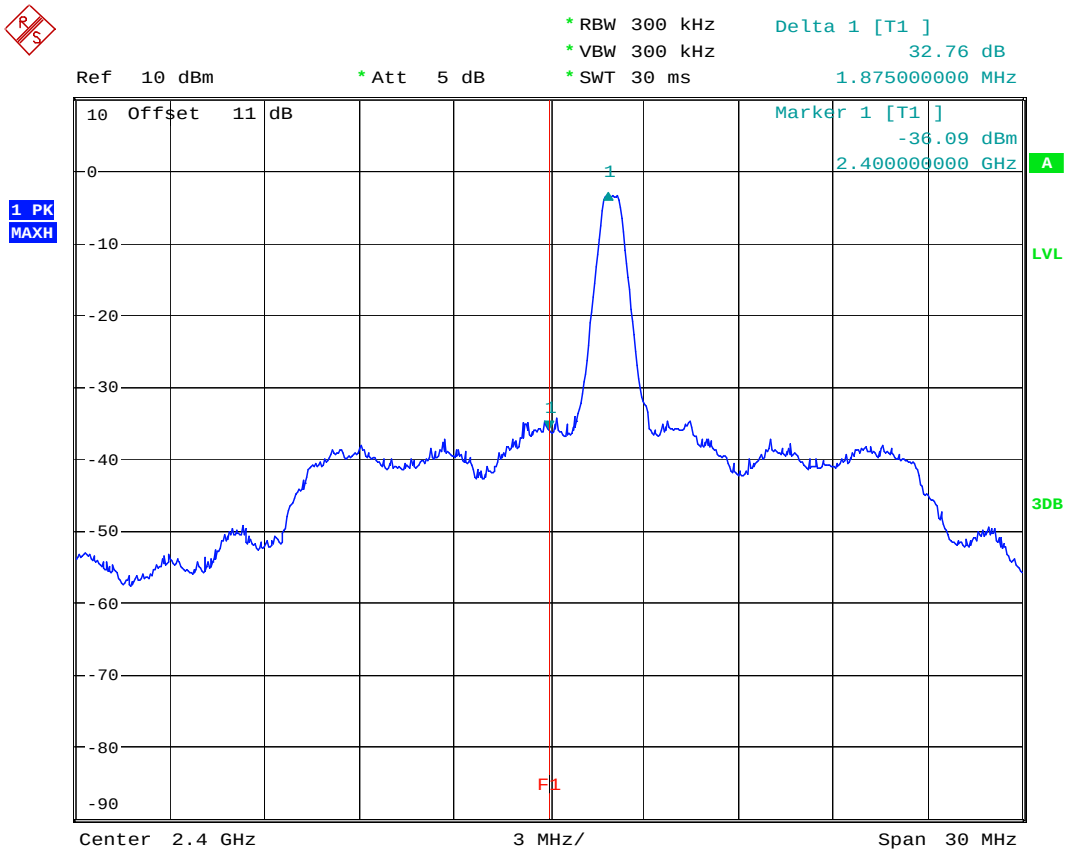
Registration number: W6M21312-13727-C-1
FCC ID: M5X-MA505
IC: 2978A-MA505

3.10 Band-edge Compliance of RF Emissions

According to FCC rules part 15 subpart C §15.247(c) in any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required.

In addition radiated emission which fall in the restricted bands, as defined in section 15.205(a), must also with the radiated emission limits.

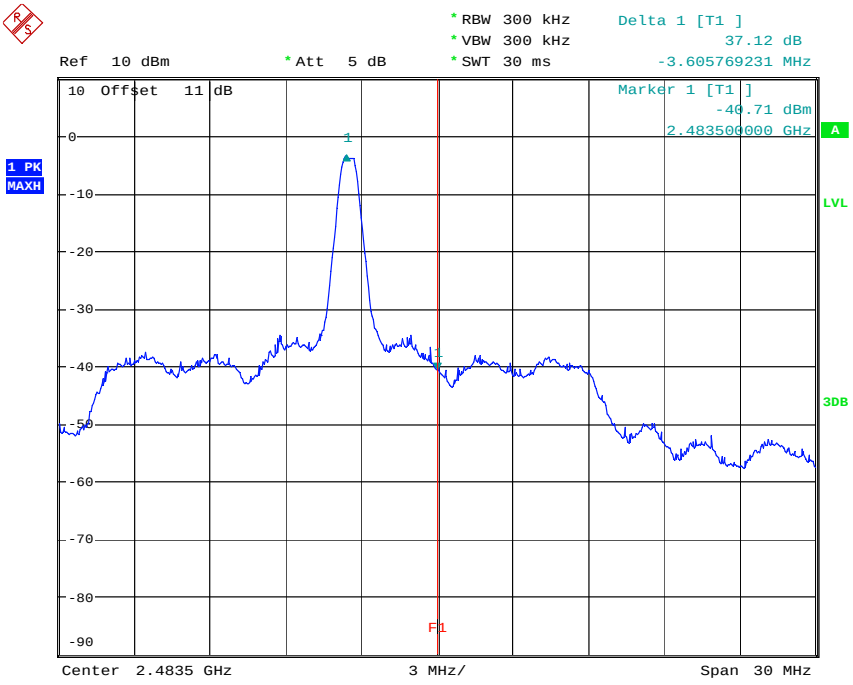
Normal mode



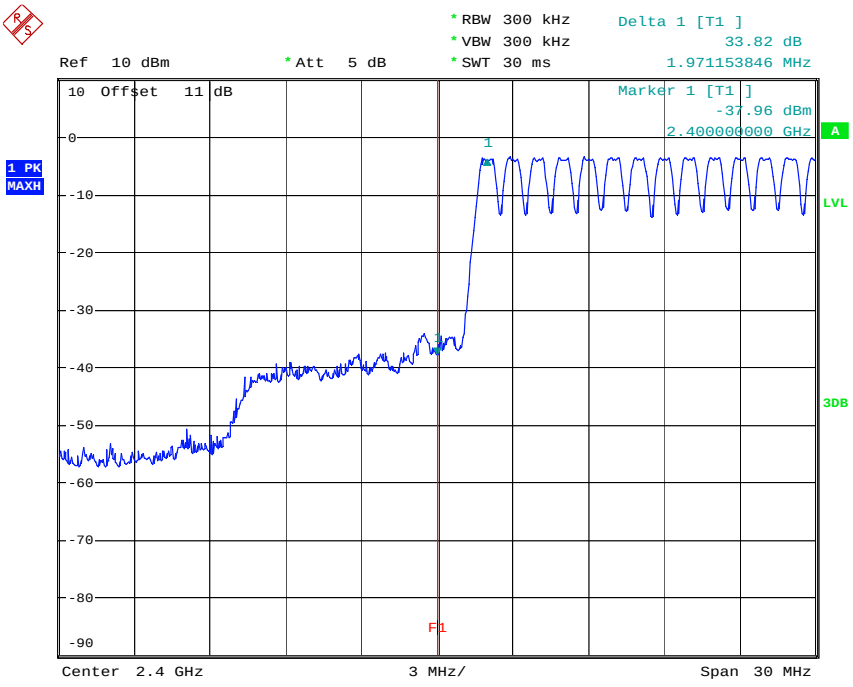
BANDEDGE CH0

Date: 17.SEP.2014 10:48:47

Registration number: W6M21312-13727-C-1
FCC ID: M5X-MA505
IC: 2978A-MA505

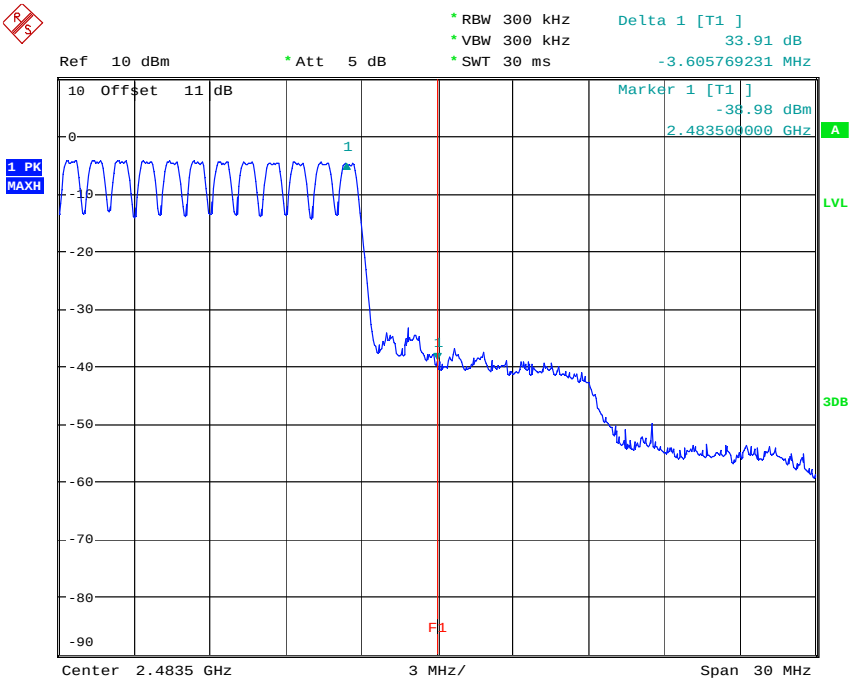


BANDEDGE CH78
Date: 17.SEP.2014 10:49:33



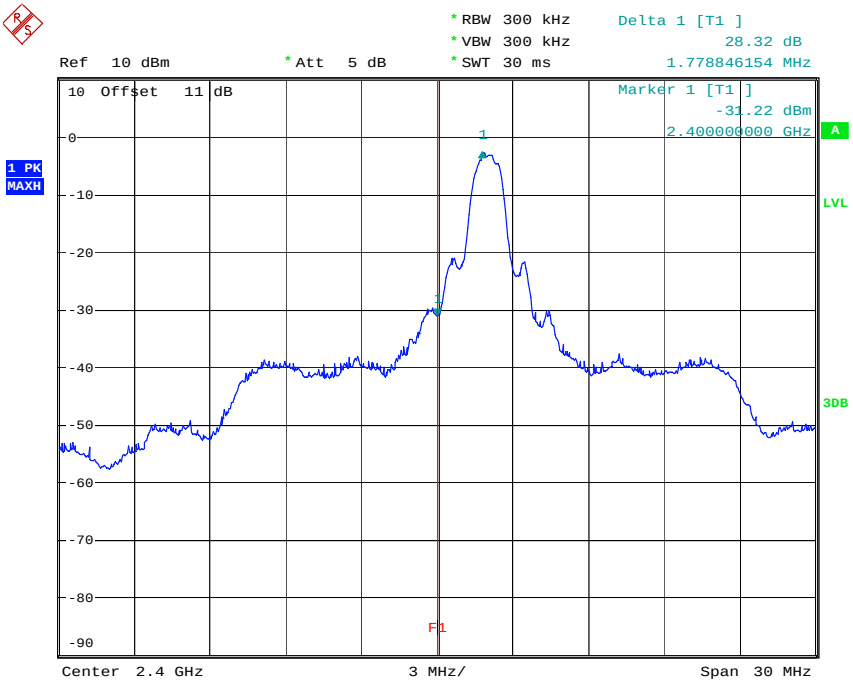
BANDEDGE CH0 HOPPING MODE
Date: 17.SEP.2014 10:53:26

Registration number: W6M21312-13727-C-1
FCC ID: M5X-MA505
IC: 2978A-MA505



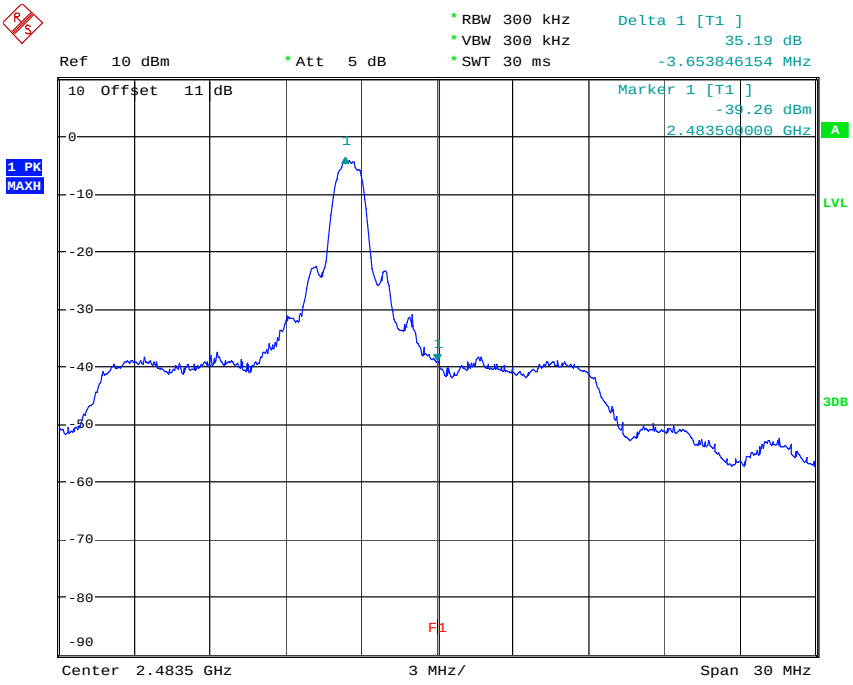
BANDEDGE CH78 HOPPING MODE
Date: 17.SEP.2014 10:50:54

EDR mode

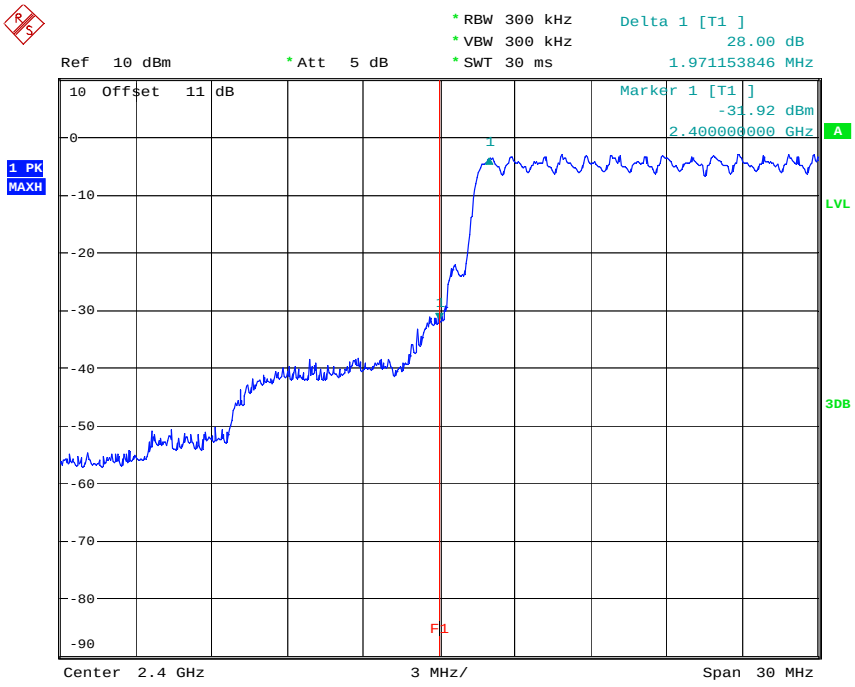


BANDEDGE CH0 EDR MODE
Date: 17.SEP.2014 10:48:01

Registration number: W6M21312-13727-C-1
FCC ID: M5X-MA505
IC: 2978A-MA505

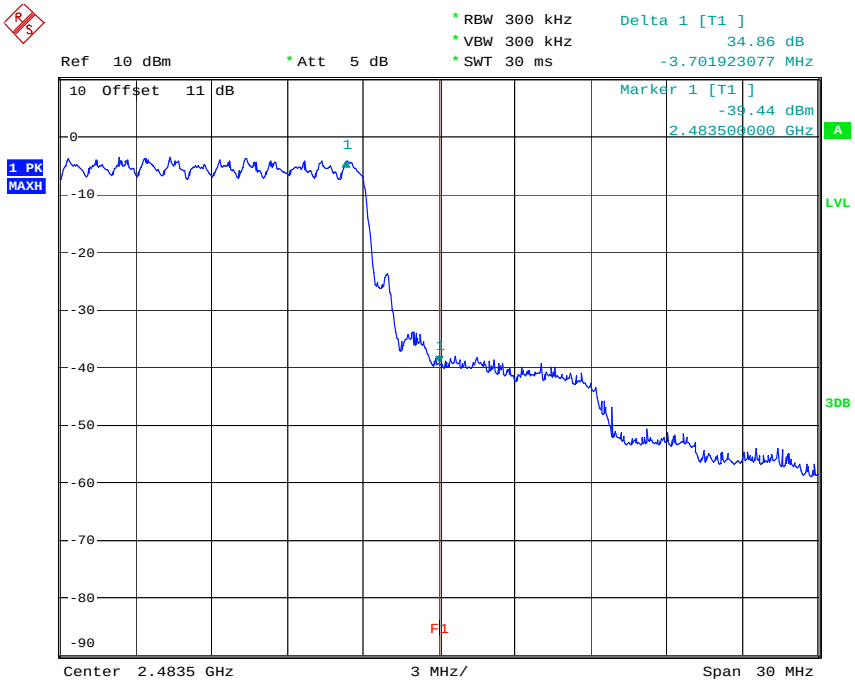


BANDEDGE CH78 EDR MODE
Date: 17.SEP.2014 10:47:11



BANDEDGE CH0 EDR HOPPING MODE
Date: 17.SEP.2014 10:52:47

Registration number: W6M21312-13727-C-1
FCC ID: M5X-MA505
IC: 2978A-MA505



BANDEDGE CH78 EDR HOPPING MODE
Date: 17.SEP.2014 10:52:03

Limits:

Frequency Range / MHz	Limit
902 –928 2400 – 2483.5 5725 - 5850	- 20 dB

Test equipment used: ETSTW-RE 055, ETSTW-RE 064

3.11 Radiated Emissions from Receiver Part

FCC Rule: 15.109

Summary table with radiated data of the test plots

Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency of Emission (MHz)	Field Strength (microvolts/meter)	Field Strength (dBmicrovolts/meter)
30 – 88	100	40.0
88 – 216	150	43.5
216 – 960	200	46.0
Above 960	500	54.0

Summary table with radiated data of the test plots

Model: MA-505 Date: - -
Mode: - - Temperature: - - °C Engineer: - -
Polarization: Horizontal 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) Peak	Reading (dBuV) Ave.	Factor (dB) Corr.	Result (dBuV/m) Peak	Result (dBuV/m) Ave.	Limit (dBuV/m) Peak	Limit (dBuV/m) Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -

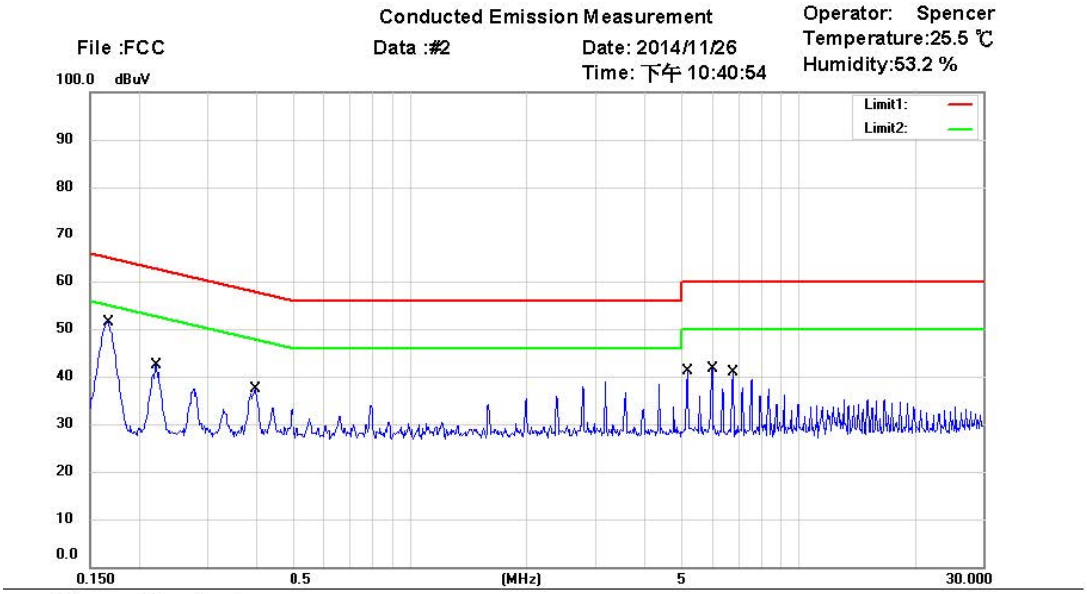
Note
1. **Correction Factor = Antenna factor + Cable loss - Preamplifier**
2. **The formula of measured value as: Test Result = Reading + Correction Factor**
3. **Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average**
4. **All not in the table noted test results are more than 20 dB below the relevant limits.**
5. **Measurement uncertainty above 1GHz: 30-1000 MHz = ± 4.32 dB, 1-18 GHz = ± 4.95 dB, 18-40 GHz = ± 2.94 dB ; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.**
6. **See attached diagrams in appendix.**

Test equipment used: ETSTW-RE 055, ETSTW-RE 064, ETSTW-RE 003, ETSTW-RE 004, ETSTW-RE 030 ETSTW-RE 111

3.12 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.

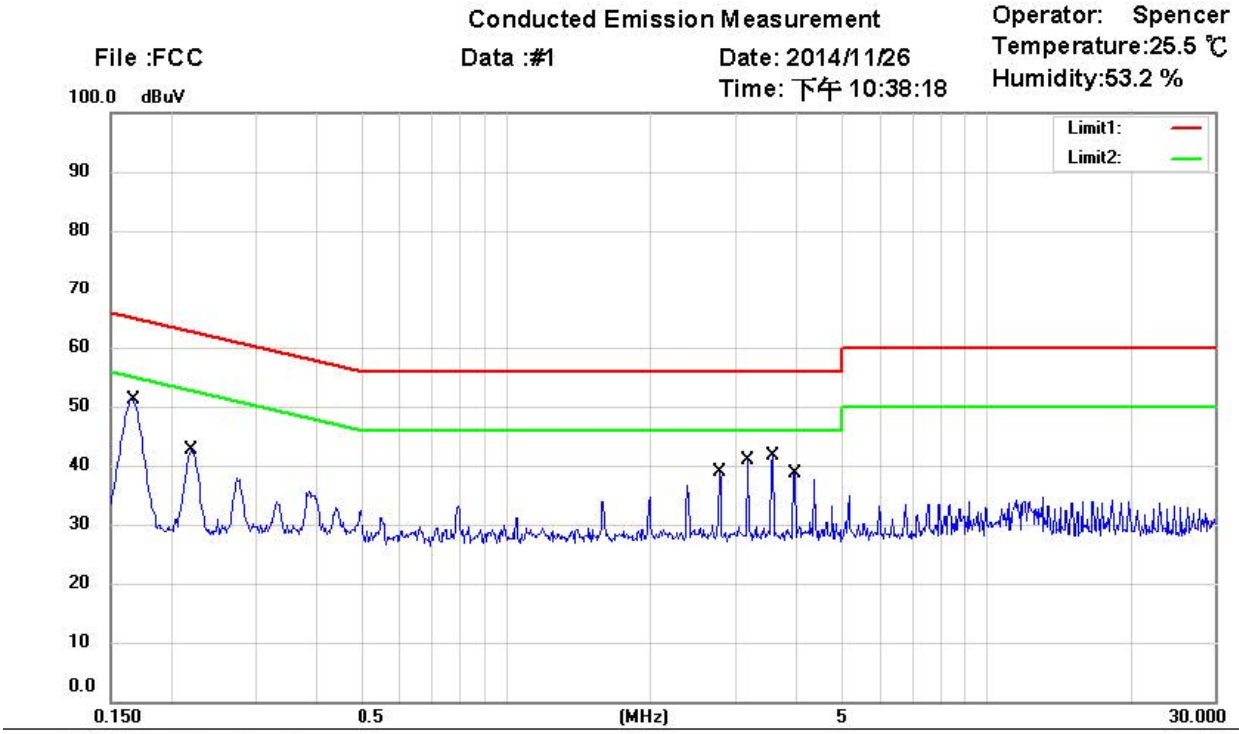
This measurement was transact first with instrumentation using an average and peak detector and a 10 kHz bandwidth. If the peak detector achieves a calculated level, the measurement is repeated by an instrumentation using a quasi-peak detector.



Site : Chamber 3
Condition : FCC Part 15 Class B Conduction (QP)
Phase: N
EUT : W6M21312-13727
Power : 120 Va.c.
M/N: MA-505
Test Mode : Charge CD+USB(Play)+LINE IN
Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1663	40.12	QP	9.76	49.88	65.14	-15.26	
*	0.1663	35.83	AVG	9.76	45.59	55.14	-9.55	
	0.2210	29.87	QP	9.76	39.63	62.78	-23.15	
	0.2210	23.76	AVG	9.76	33.52	52.78	-19.26	
	0.3967	23.72	QP	9.77	33.49	57.92	-24.43	
	0.3967	23.21	AVG	9.77	32.98	47.92	-14.94	
	5.1625	27.41	QP	9.98	37.39	60.00	-22.61	
	5.1625	25.38	AVG	9.98	35.36	50.00	-14.64	
	5.9625	5.95	QP	10.02	15.97	60.00	-44.03	
	5.9625	-0.07	AVG	10.02	9.95	50.00	-40.05	
	6.7500	27.88	QP	10.05	37.93	60.00	-22.07	
	6.7500	25.58	AVG	10.05	35.63	50.00	-14.37	

Registration number: W6M21312-13727-C-1
FCC ID: M5X-MA505
IC: 2978A-MA505



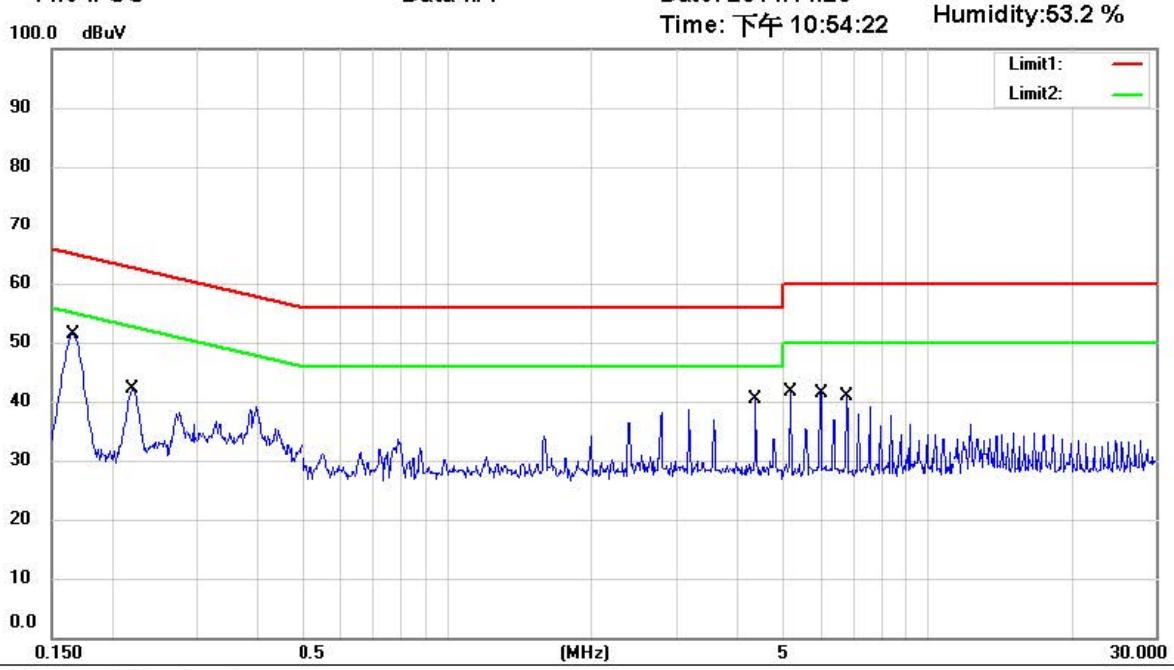
Site : Chamber 3
Condition : FCC Part 15 Class B Conduction (QP)
Phase: L1
EUT : W6M21312-13727
Power : 120 Va.c.
M/N: MA-505
Test Mode : Charge CD+USB(Play)+LINE IN
Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1661	39.98	QP	9.70	49.68	65.15	-15.47	
	0.1661	35.83	AVG	9.70	45.53	55.15	-9.62	
	0.2202	30.11	QP	9.70	39.81	62.81	-23.00	
	0.2202	23.45	AVG	9.70	33.15	52.81	-19.66	
	2.7770	26.65	QP	9.78	36.43	56.00	-19.57	
	2.7770	26.18	AVG	9.78	35.96	46.00	-10.04	
	3.1753	28.61	QP	9.80	38.41	56.00	-17.59	
	3.1753	28.13	AVG	9.80	37.93	46.00	-8.07	
	3.5690	29.48	QP	9.82	39.30	56.00	-16.70	
*	3.5690	28.92	AVG	9.82	38.74	46.00	-7.26	
	3.9673	26.30	QP	9.84	36.14	56.00	-19.86	
	3.9673	25.71	AVG	9.84	35.55	46.00	-10.45	

Registration number: W6M21312-13727-C-1
FCC ID: M5X-MA505
IC: 2978A-MA505

Conducted Emission Measurement

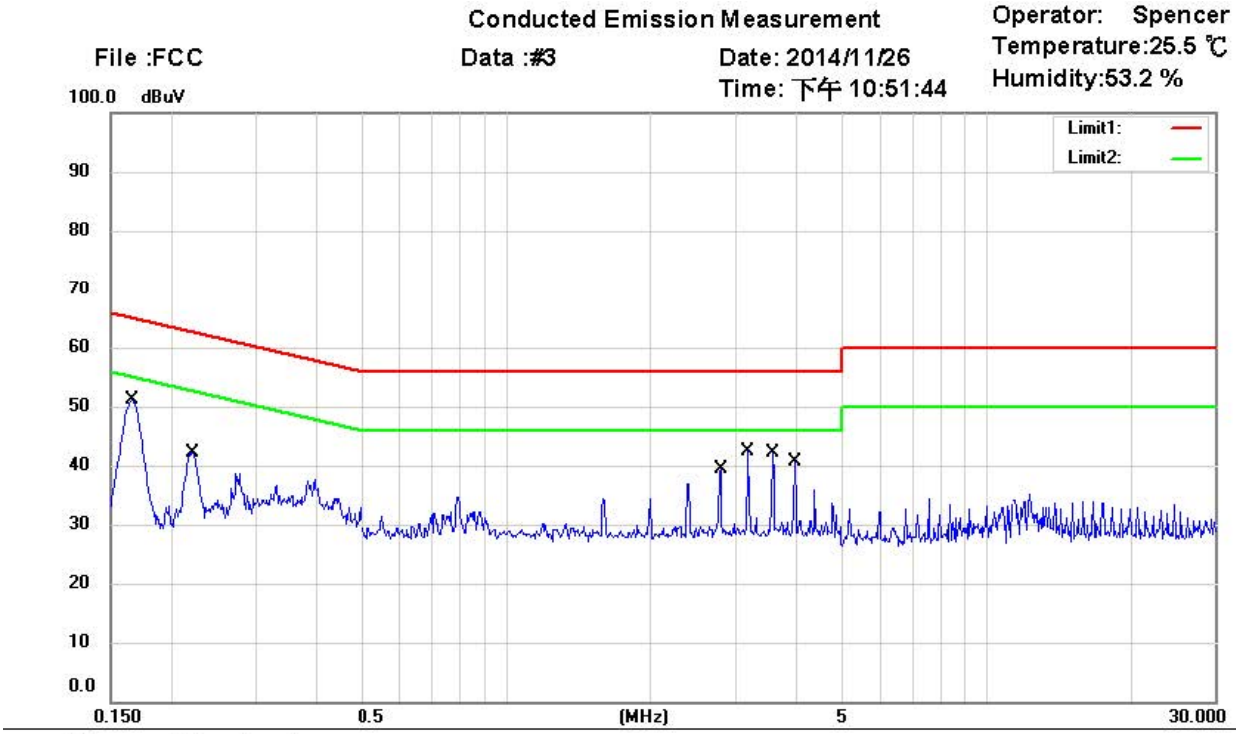
File :FCC
Data :#4
Date: 2014/11/26
Time: 下午 10:54:22
Operator: Spencer
Temperature:25.5 ℃
Humidity:53.2 %



Site : Chamber 3
Condition : FCC Part 15 Class B Conduction (QP)
Phase: N
EUT : W6M21312-13727
Power : 120 Va.c.
M/N: MA-505
Test Mode : Charge CD+SD(Play)+LINE IN
Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1655	40.34	QP	9.76	50.10	65.18	-15.08	
	0.1655	36.06	AVG	9.76	45.82	55.18	-9.36	
	0.2202	29.75	QP	9.76	39.51	62.81	-23.30	
	0.2202	23.91	AVG	9.76	33.67	52.81	-19.14	
	4.3745	28.42	QP	9.94	38.36	56.00	-17.64	
*	4.3745	27.81	AVG	9.94	37.75	46.00	-8.25	
	5.1750	19.73	QP	9.98	29.71	60.00	-30.29	
	5.1750	15.75	AVG	9.98	25.73	50.00	-24.27	
	5.9625	29.24	QP	10.02	39.26	60.00	-20.74	
	5.9625	28.32	AVG	10.02	38.34	50.00	-11.66	
	6.7625	28.30	QP	10.05	38.35	60.00	-21.65	
	6.7625	27.59	AVG	10.05	37.64	50.00	-12.36	

Registration number: W6M21312-13727-C-1
FCC ID: M5X-MA505
IC: 2978A-MA505



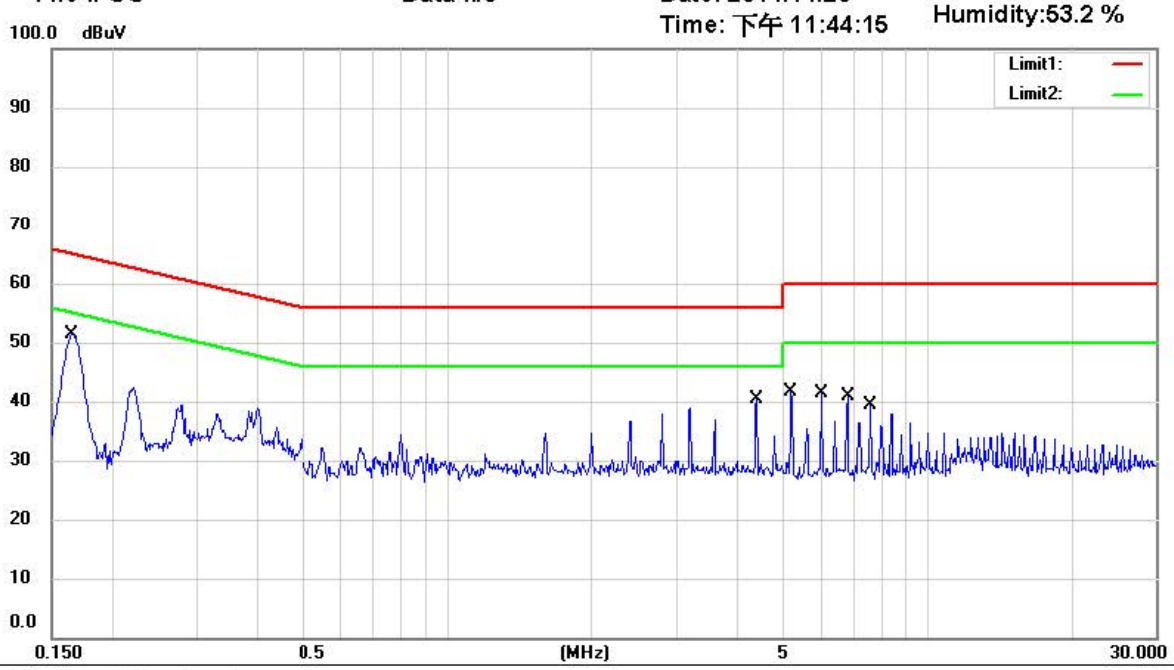
Site : Chamber 3
Condition : FCC Part 15 Class B Conduction (QP)
Phase: L1
EUT : W6M21312-13727
Power : 120 Va.c.
M/N: MA-505
Test Mode : Charge CD+SD(Play)+LINE IN
Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1652	39.98	QP	9.70	49.68	65.20	-15.52	
	0.1652	36.06	AVG	9.70	45.76	55.20	-9.44	
	0.2218	29.73	QP	9.70	39.43	62.75	-23.32	
	0.2218	23.03	AVG	9.70	32.73	52.75	-20.02	
	2.7838	26.43	QP	9.78	36.21	56.00	-19.79	
	2.7838	26.01	AVG	9.78	35.79	46.00	-10.21	
	3.1798	30.80	QP	9.80	40.60	56.00	-15.40	
*	3.1798	30.35	AVG	9.80	40.15	46.00	-5.85	
	3.5780	30.40	QP	9.82	40.22	56.00	-15.78	
	3.5780	29.89	AVG	9.82	39.71	46.00	-6.29	
	3.9763	28.19	QP	9.84	38.03	56.00	-17.97	
	3.9763	27.40	AVG	9.84	37.24	46.00	-8.76	

Registration number: W6M21312-13727-C-1
FCC ID: M5X-MA505
IC: 2978A-MA505

Conducted Emission Measurement

File :FCC
Data :#6
Date: 2014/11/26
Time: 下午 11:44:15
Operator: Spencer
Temperature:25.5 ℃
Humidity:53.2 %



Site : Chamber 3
Condition : FCC Part 15 Class B Conduction (QP)
Phase: N
EUT : W6M21312-13727
Power : 120 Va.c.
M/N: MA-505
Test Mode : Charge USB+USB(Play)+LINE IN
Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1650	40.26	QP	9.76	50.02	65.21	-15.19	
	0.1650	36.06	AVG	9.76	45.82	55.21	-9.39	
	4.3902	27.30	QP	9.94	37.24	56.00	-18.76	
*	4.3902	26.72	AVG	9.94	36.66	46.00	-9.34	
	5.1875	29.50	QP	9.98	39.48	60.00	-20.52	
	5.1875	28.62	AVG	9.98	38.60	50.00	-11.40	
	5.9875	26.59	QP	10.02	36.61	60.00	-23.39	
	5.9875	24.87	AVG	10.02	34.89	50.00	-15.11	
	6.7875	22.45	QP	10.05	32.50	60.00	-27.50	
	6.7875	17.58	AVG	10.05	27.63	50.00	-22.37	
	7.5875	15.27	QP	10.08	25.35	60.00	-34.65	
	7.5875	10.95	AVG	10.08	21.03	50.00	-28.97	

Registration number: W6M21312-13727-C-1
FCC ID: M5X-MA505
IC: 2978A-MA505

Conducted Emission Measurement

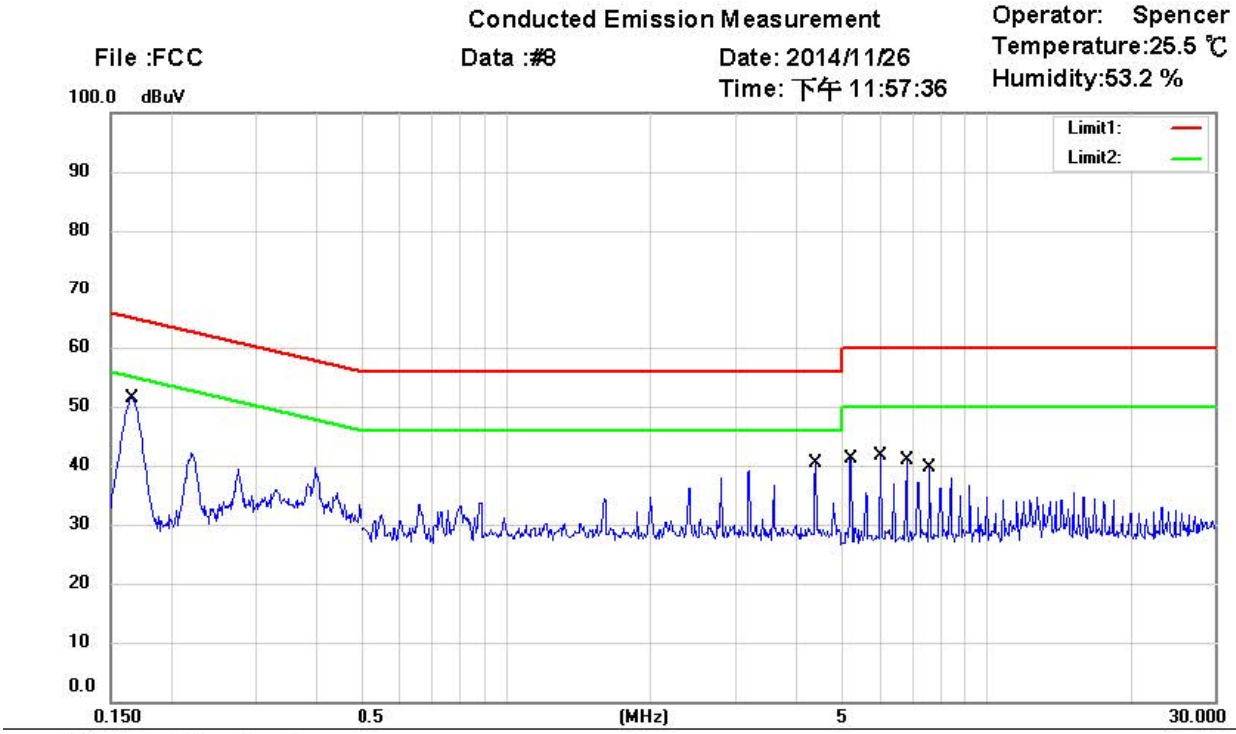
File :FCC Data :#5 Date: 2014/11/26 Time: 下午 11:41:35

Operator: Spencer
Temperature:25.5 ℃
Humidity:53.2 %

Site : Chamber 3
Condition : FCC Part 15 Class B Conduction (QP)
Phase: L1
EUT : W6M21312-13727
Power : 120 Va.c.
M/N: MA-505
Test Mode : Charge USB+USB(Play)+LINE IN
Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1666	39.68	QP	9.76	49.44	65.13	-15.69	
	0.1666	35.75	AVG	9.76	45.51	55.13	-9.62	
	0.2212	30.13	QP	9.76	39.89	62.77	-22.88	
	0.2212	23.29	AVG	9.76	33.05	52.77	-19.72	
	2.7950	25.64	QP	9.85	35.49	56.00	-20.51	
	2.7950	25.06	AVG	9.85	34.91	46.00	-11.09	
	3.1933	31.07	QP	9.87	40.94	56.00	-15.06	
*	3.1933	30.44	AVG	9.87	40.31	46.00	-5.69	
	3.5915	30.12	QP	9.90	40.02	56.00	-15.98	
	3.5915	29.50	AVG	9.90	39.40	46.00	-6.60	
	3.9898	28.27	QP	9.92	38.19	56.00	-17.81	
	3.9898	27.85	AVG	9.92	37.77	46.00	-8.23	

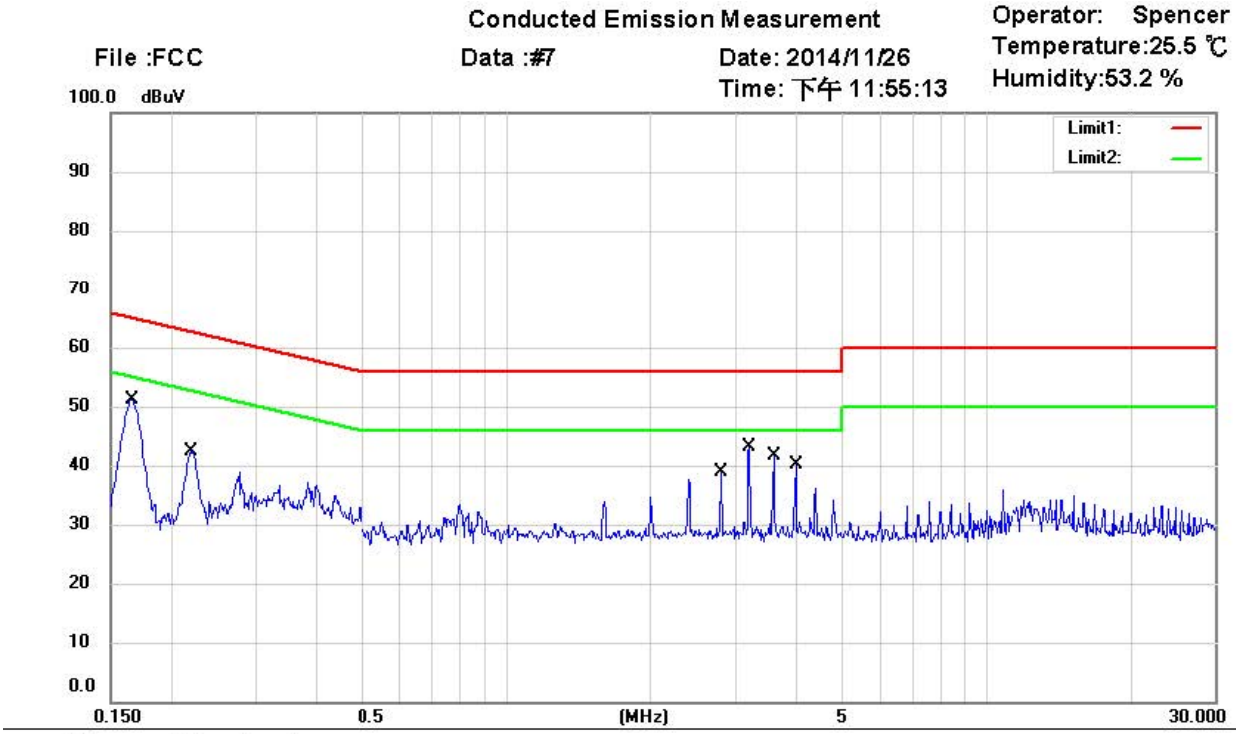
Registration number: W6M21312-13727-C-1
FCC ID: M5X-MA505
IC: 2978A-MA505



Site : Chamber 3
Condition : FCC Part 15 Class B Conduction (QP)
Phase: N
EUT : W6M21312-13727
Power : 120 Va.c.
M/N: MA-505
Test Mode : Charge USB+SD(Play)+LINE IN
Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1654	40.24	QP	9.76	50.00	65.19	-15.19	
	0.1654	35.83	AVG	9.76	45.59	55.19	-9.60	
	4.3925	27.94	QP	9.94	37.88	56.00	-18.12	
*	4.3925	27.20	AVG	9.94	37.14	46.00	-8.86	
	5.2000	2.26	QP	9.98	12.24	60.00	-47.76	
	5.2000	-3.24	AVG	9.98	6.74	50.00	-43.26	
	5.9875	29.90	QP	10.02	39.92	60.00	-20.08	
	5.9875	29.44	AVG	10.02	39.46	50.00	-10.54	
	6.7875	28.95	QP	10.05	39.00	60.00	-21.00	
	6.7875	28.31	AVG	10.05	38.36	50.00	-11.64	
	7.5875	26.50	QP	10.08	36.58	60.00	-23.42	
	7.5875	23.29	AVG	10.08	33.37	50.00	-16.63	

Registration number: W6M21312-13727-C-1
FCC ID: M5X-MA505
IC: 2978A-MA505



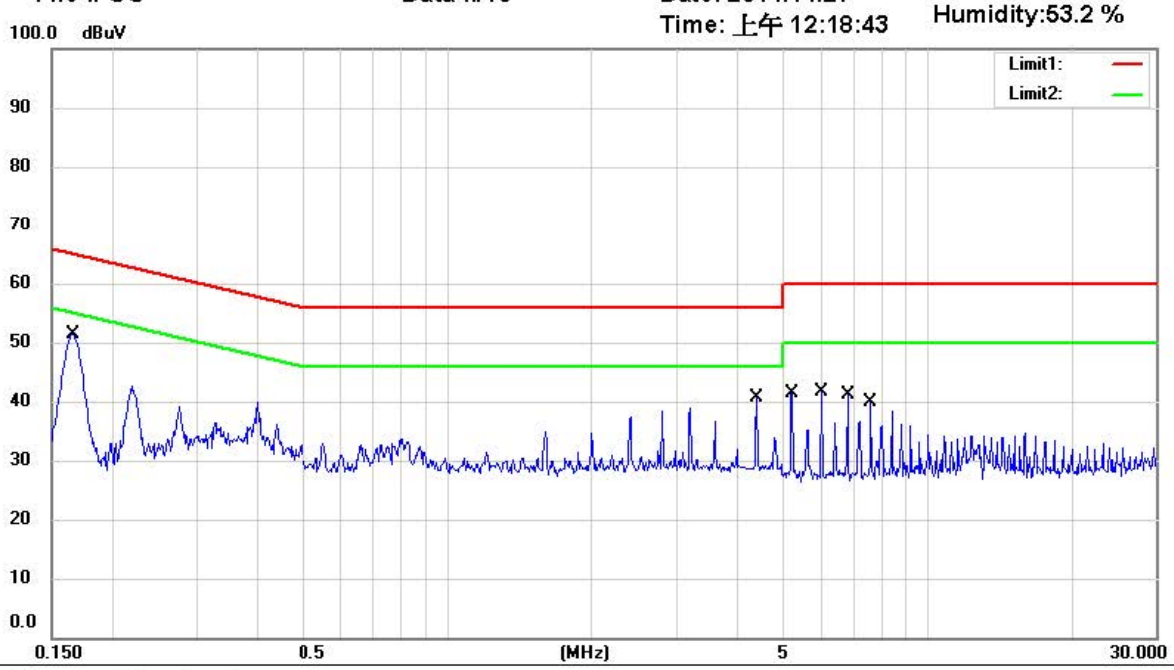
Site : Chamber 3
Condition : FCC Part 15 Class B Conduction (QP)
Phase: L1
EUT : W6M21312-13727
Power : 120 Va.c.
M/N: MA-505
Test Mode : Charge USB+SD(Play)+LINE IN
Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1652	39.88	QP	9.70	49.58	65.20	-15.62	
	0.1652	35.83	AVG	9.70	45.53	55.20	-9.67	
	0.2195	29.95	QP	9.70	39.65	62.84	-23.19	
	0.2195	23.20	AVG	9.70	32.90	52.84	-19.94	
	2.7950	26.53	QP	9.78	36.31	56.00	-19.69	
	2.7950	26.01	AVG	9.78	35.79	46.00	-10.21	
	3.1933	31.43	QP	9.80	41.23	56.00	-14.77	
*	3.1933	30.92	AVG	9.80	40.72	46.00	-5.28	
	3.5938	29.86	QP	9.82	39.68	56.00	-16.32	
	3.5938	29.26	AVG	9.82	39.08	46.00	-6.92	
	3.9943	27.13	QP	9.84	36.97	56.00	-19.03	
	3.9943	26.03	AVG	9.84	35.87	46.00	-10.13	

Registration number: W6M21312-13727-C-1
FCC ID: M5X-MA505
IC: 2978A-MA505

Conducted Emission Measurement

File :FCC
Data :#10
Date: 2014/11/27
Time: 上午 12:18:43
Operator: Spencer
Temperature:25.5 ℃
Humidity:53.2 %



Site : Chamber 3
Condition : FCC Part 15 Class B Conduction (QP)
Phase: N
EUT : W6M21312-13727
Power : 120 Va.c.
M/N: MA-505
Test Mode : Charge USB+SD(REC)+LINE IN
Note :

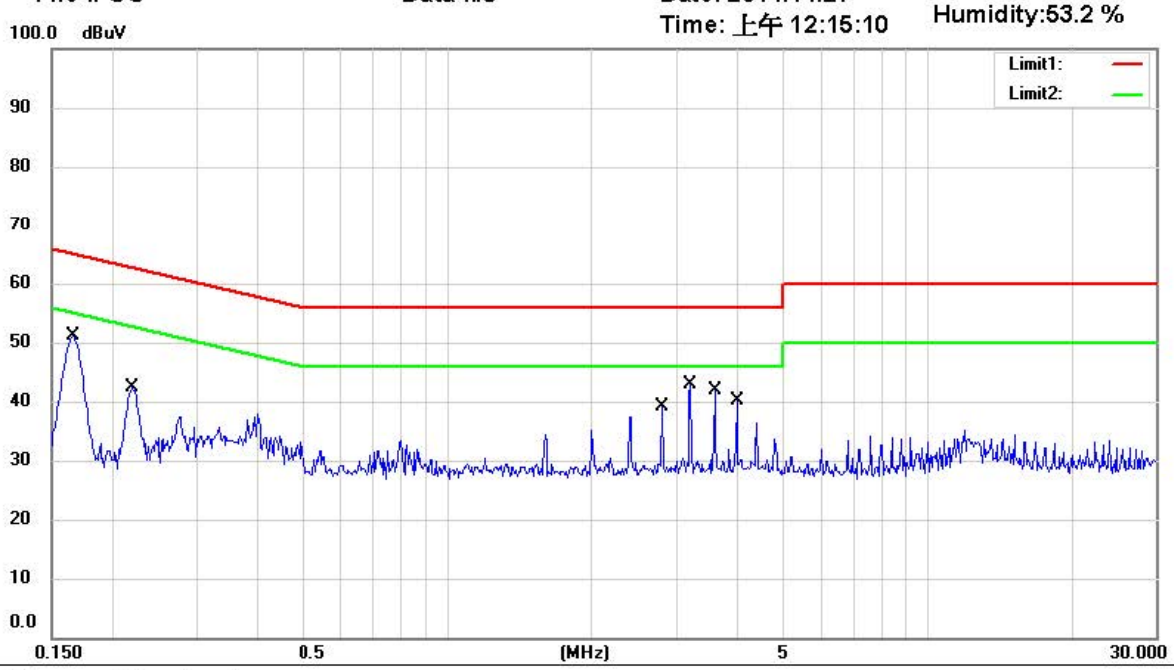
Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1655	40.22	QP	9.76	49.98	65.18	-15.20	
	0.1655	35.91	AVG	9.76	45.67	55.18	-9.51	
	4.3948	28.06	QP	9.94	38.00	56.00	-18.00	
*	4.3948	27.51	AVG	9.94	37.45	46.00	-8.55	
	5.2000	18.38	QP	9.98	28.36	60.00	-31.64	
	5.2000	12.47	AVG	9.98	22.45	50.00	-27.55	
	6.0000	13.29	QP	10.02	23.31	60.00	-36.69	
	6.0000	5.40	AVG	10.02	15.42	50.00	-34.58	
	6.8000	5.74	QP	10.05	15.79	60.00	-44.21	
	6.8000	-0.18	AVG	10.05	9.87	50.00	-40.13	
	7.6000	3.00	QP	10.08	13.08	60.00	-46.92	
	7.6000	-2.34	AVG	10.08	7.74	50.00	-42.26	

Registration number: W6M21312-13727-C-1
FCC ID: M5X-MA505
IC: 2978A-MA505

Conducted Emission Measurement

File :FCC Data :#9 Date: 2014/11/27 Time: 上午 12:15:10

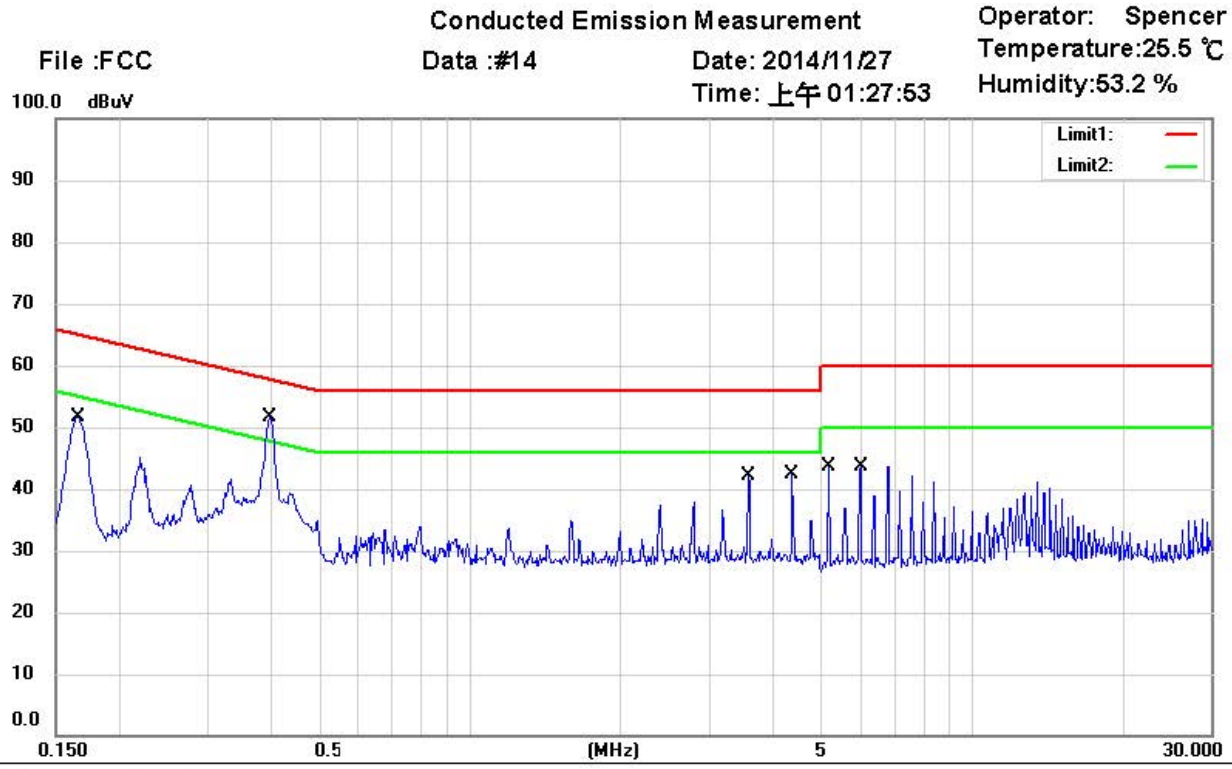
Operator: Spencer
Temperature:25.5 ℃
Humidity:53.2 %



Site : Chamber 3
Condition : FCC Part 15 Class B Conduction (QP) Phase: L1
EUT : W6M21312-13727 Power : 120 Va.c.
M/N: MA-505
Test Mode : Charge USB+SD(REC)+LINE IN
Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1652	39.90	QP	9.70	49.60	65.20	-15.60	
	0.1652	35.91	AVG	9.70	45.61	55.20	-9.59	
	0.2200	30.11	QP	9.70	39.81	62.82	-23.01	
	0.2200	23.37	AVG	9.70	33.07	52.82	-19.75	
	2.7950	26.37	QP	9.78	36.15	56.00	-19.85	
	2.7950	25.82	AVG	9.78	35.60	46.00	-10.40	
	3.1977	30.53	QP	9.80	40.33	56.00	-15.67	
*	3.1977	29.45	AVG	9.80	39.25	46.00	-6.75	
	3.5960	29.72	QP	9.82	39.54	56.00	-16.46	
	3.5960	29.01	AVG	9.82	38.83	46.00	-7.17	
	3.9943	28.37	QP	9.84	38.21	56.00	-17.79	
	3.9943	27.85	AVG	9.84	37.69	46.00	-8.31	

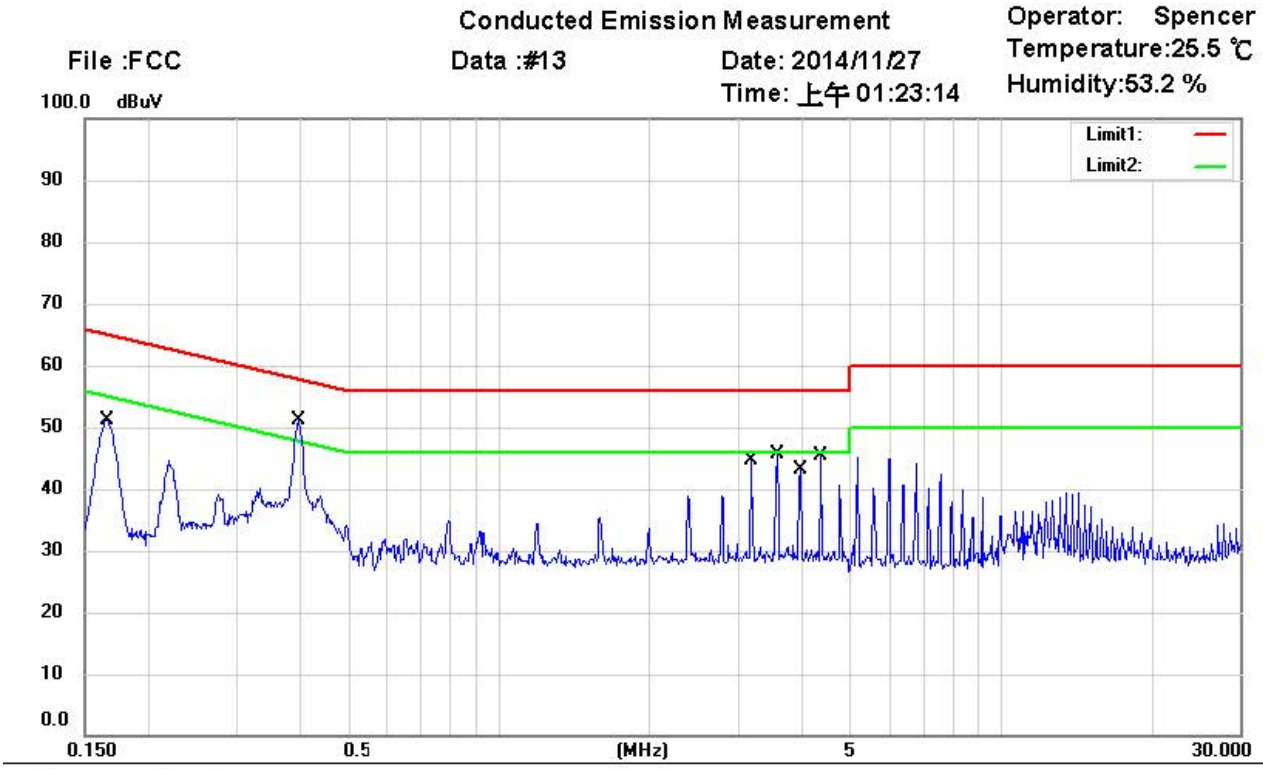
Registration number: W6M21312-13727-C-1
FCC ID: M5X-MA505
IC: 2978A-MA505



Site : Chamber 3
Condition : FCC Part 15 Class B Conduction (QP)
Phase: N
EUT : W6M21312-13727
Power : 120 Va.c.
M/N: MA-505
Test Mode : Charge USB+SD(Play)+LINE IN+EXT. SPKR
Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1654	40.24	QP	9.76	50.00	65.19	-15.19	
	0.1654	36.28	AVG	9.76	46.04	55.19	-9.15	
	0.3974	38.59	QP	9.77	48.36	57.91	-9.55	
*	0.3974	37.98	AVG	9.77	47.75	47.91	-0.16	
	3.5803	30.18	QP	9.89	40.07	56.00	-15.93	
	3.5803	29.34	AVG	9.89	39.23	46.00	-6.77	
	4.3768	30.63	QP	9.94	40.57	56.00	-15.43	
	4.3768	30.07	AVG	9.94	40.01	46.00	-5.99	
	5.1750	31.81	QP	9.98	41.79	60.00	-18.21	
	5.1750	31.11	AVG	9.98	41.09	50.00	-8.91	
	5.9750	26.24	QP	10.02	36.26	60.00	-23.74	
	5.9750	23.23	AVG	10.02	33.25	50.00	-16.75	

Registration number: W6M21312-13727-C-1
FCC ID: M5X-MA505
IC: 2978A-MA505



Site : Chamber 3
Condition : FCC Part 15 Class B Conduction (QP)
Phase: L1
EUT : W6M21312-13727
Power : 120 Va.c.
M/N: MA-505
Test Mode : Charge USB+SD(Play)+LINE IN+EXT. SPKR
Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1654	39.88	QP	9.70	49.58	65.19	-15.61	
	0.1654	36.28	AVG	9.70	45.98	55.19	-9.21	
	0.3974	38.09	QP	9.70	47.79	57.91	-10.12	
*	0.3974	37.59	AVG	9.70	47.29	47.91	-0.62	
	3.1775	33.29	QP	9.80	43.09	56.00	-12.91	
	3.1775	32.75	AVG	9.80	42.55	46.00	-3.45	
	3.5713	30.58	QP	9.82	40.40	56.00	-15.60	
	3.5713	28.84	AVG	9.82	38.66	46.00	-7.34	
	3.9718	31.49	QP	9.84	41.33	56.00	-14.67	
	3.9718	31.13	AVG	9.84	40.97	46.00	-5.03	
	4.3678	33.02	QP	9.86	42.88	56.00	-13.12	
	4.3678	32.20	AVG	9.86	42.06	46.00	-3.94	

Registration number: W6M21312-13727-C-1
FCC ID: M5X-MA505
IC: 2978A-MA505

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

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 = ±1.67 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.

Test equipment used: ETSTW-CE 001, ETSTW-CE 016, ETSTW-CE 006, ETSTW-RE 064

Appendix

Measurement diagrams

Spurious Emissions radiated

Spurious Emissions radiated _TX

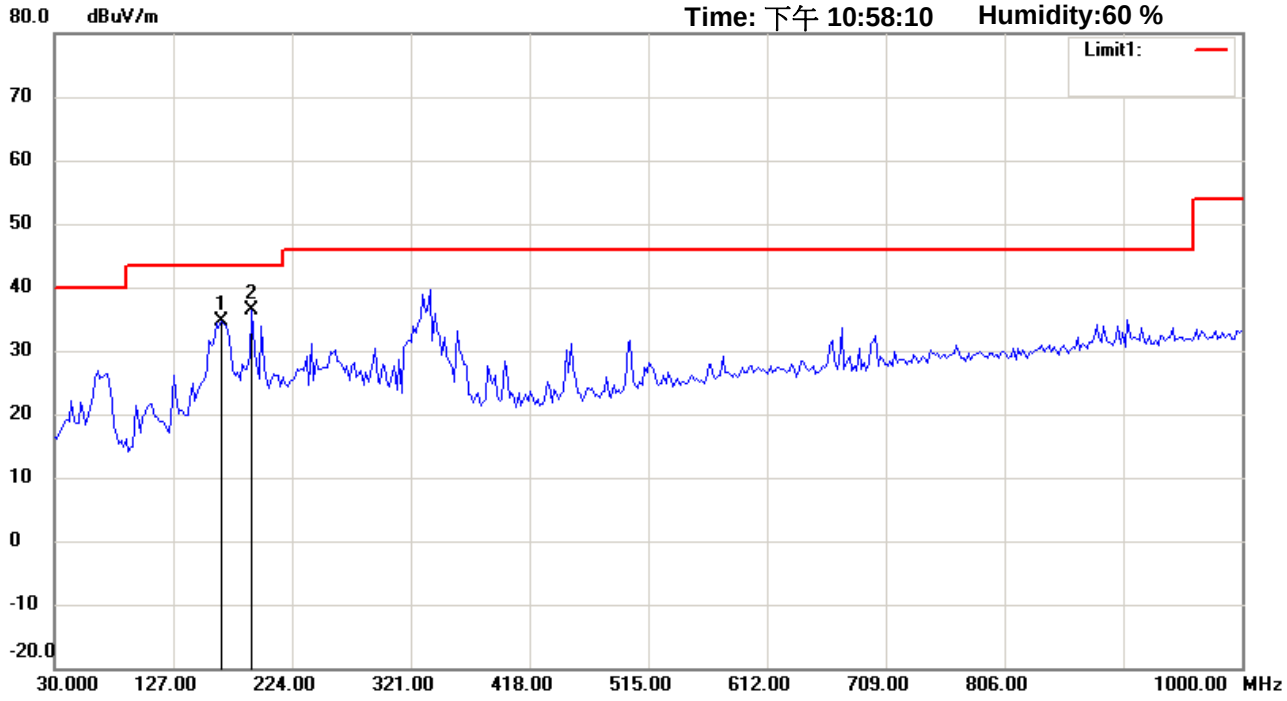
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :1 Data :#1 Date: 2014/10/8 Time: 下午 10:58:10

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

EUT : W6M21312-13727

M/N: MA-505

Test Mode : 2402MHz

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
	166.0721	19.61	peak	15.03	34.64	43.50	100	160	-8.86	
*	191.3427	24.09	peak	12.34	36.43	43.50	100	75	-7.07	

*:Maximum data x:Over limit !:over margin

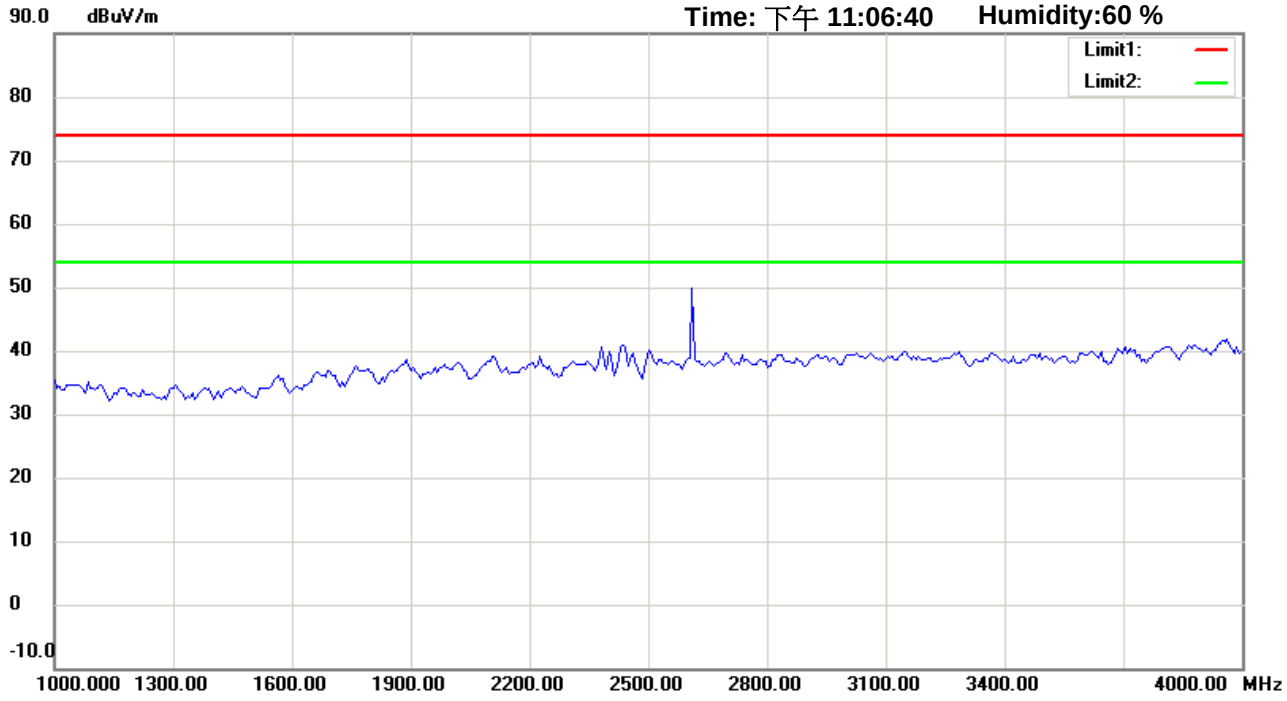
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3 Data :#1 Date: 2014/10/8 Time: 下午 11:06:40

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21312-13727

Power : 120 Va.c.

M/N: MA-505

Distance: 3m

Test Mode : 2402MHz

Note :

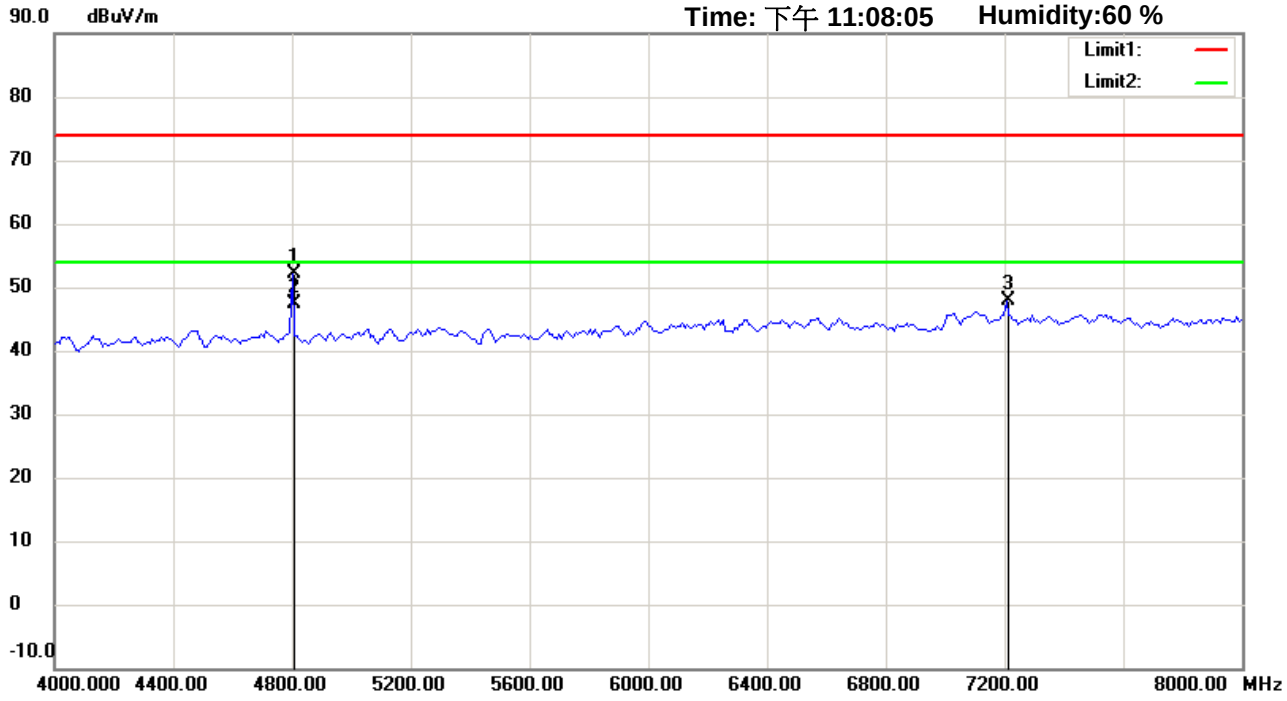
Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment

*:Maximum data x:Over limit !:over margin

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon
File :3 Data :#2 Date: 2014/10/8 Temperature:24 ℃
Time: 下午 11:08:05 Humidity:60 %



Site : Chamber
Condition : FCC_part 15 RE-Class C_Above 1GHz_PK
EUT : W6M21312-13727
M/N: MA-505
Test Mode : 2402MHz
Note :

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

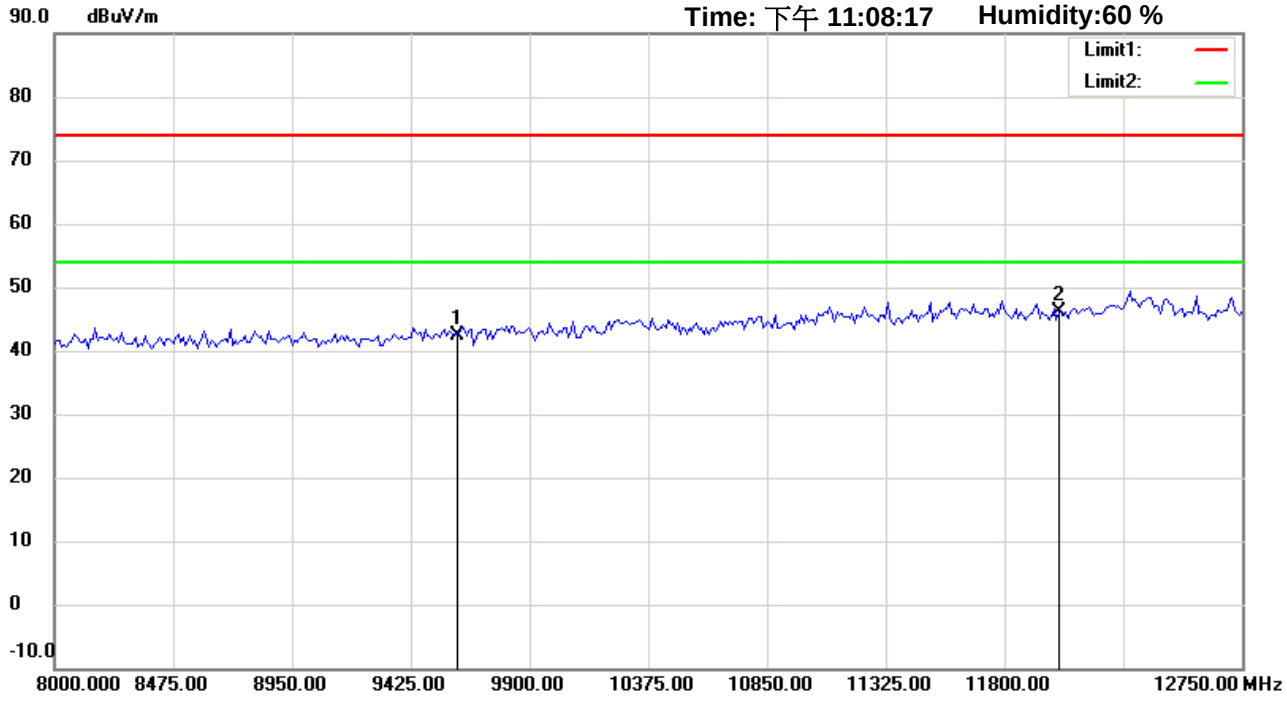
Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4804.018	51.79	peak	0.28	52.07	74.00	100	150	-21.93	
*	4804.018	47.10	AVG	0.28	47.38	54.00	100	150	-6.62	
	7206.413	44.15	peak	3.85	48.00	74.00	100	105	-26.00	

*:Maximum data x:Over limit !:over margin

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon
File :3 Data :#3 Date: 2014/10/8 Temperature:24 ℃
Time: 下午 11:08:17 Humidity:60 %



Site : Chamber
Condition : FCC_part 15 RE-Class C_Above 1GHz_PK
EUT : W6M21312-13727
M/N: MA-505
Test Mode : 2402MHz
Note :

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

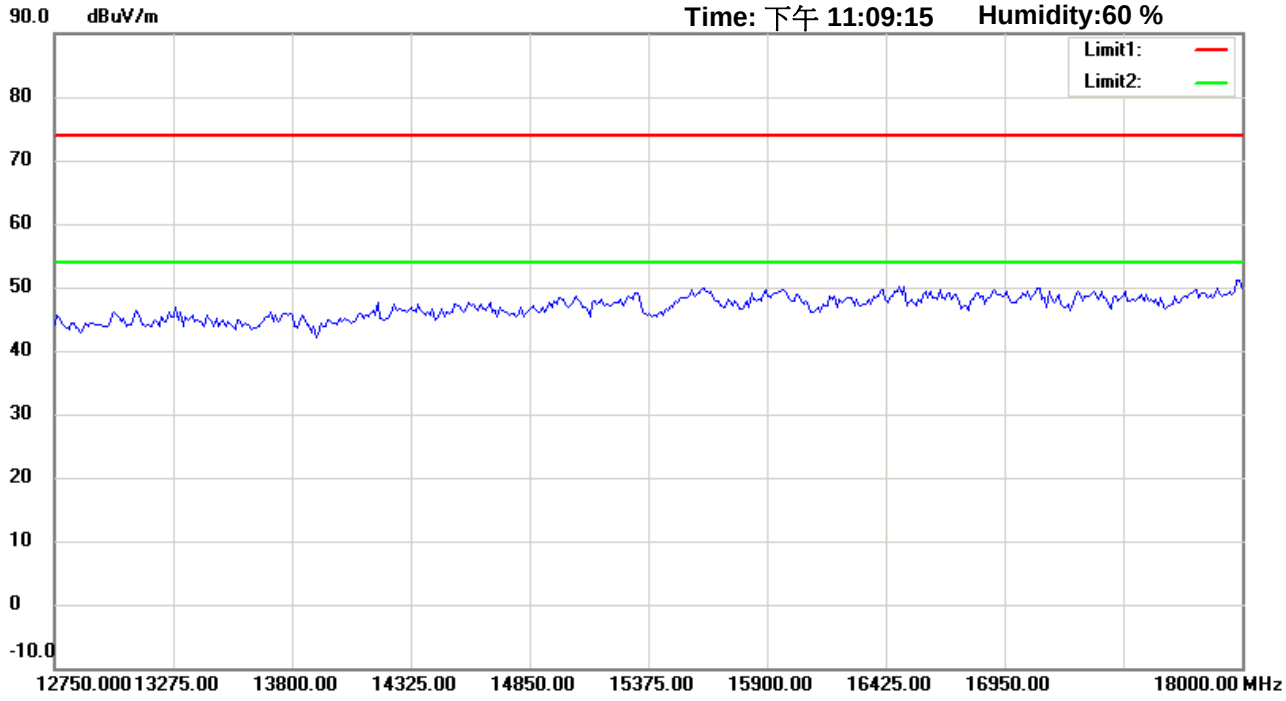
Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	9608.000	34.36	peak	7.93	42.29	74.00	100	75	-31.71	
*	12010.000	33.60	peak	12.65	46.25	74.00	100	130	-27.75	

*:Maximum data x:Over limit !:over margin

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon
File :3 Data :#4 Date: 2014/10/8 Temperature:24 ℃
Time: 下午 11:09:15 Humidity:60 %



Site : Chamber
Condition : FCC_part 15 RE-Class C_Above 1GHz_PK
EUT : W6M21312-13727
M/N: MA-505
Test Mode : 2402MHz
Note :

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

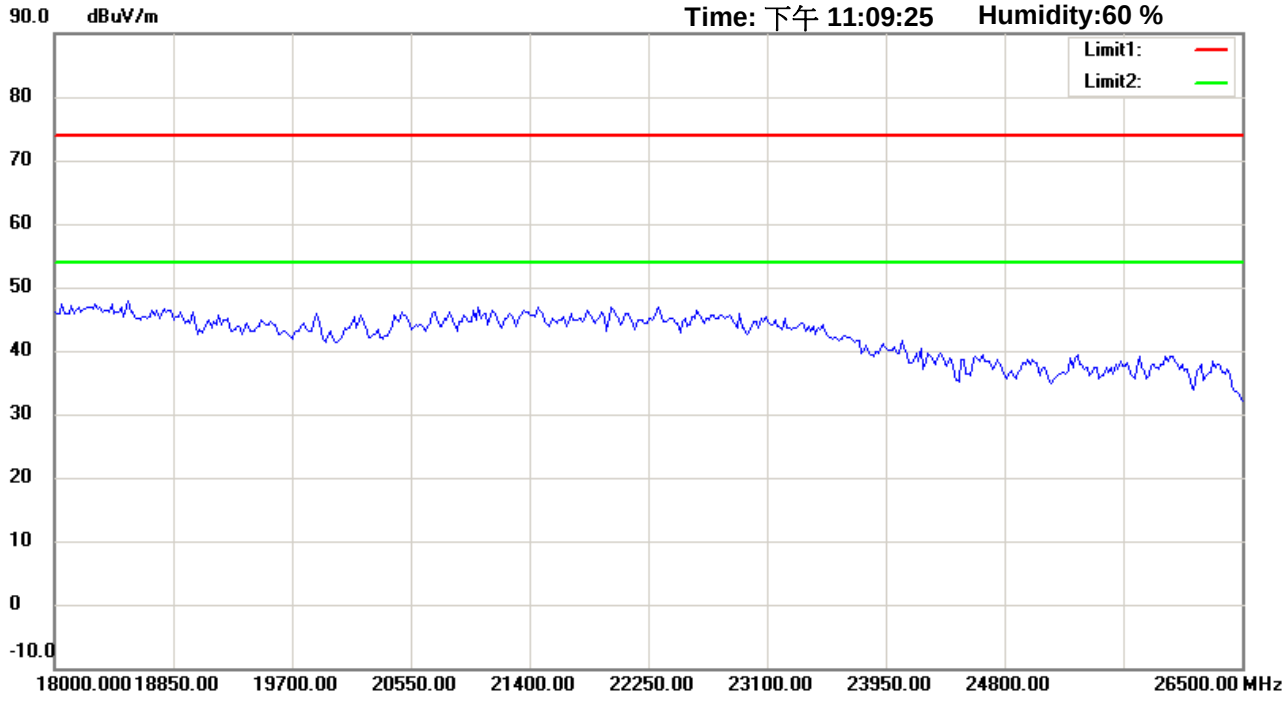
Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment

*:Maximum data x:Over limit !:over margin

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon
File :3 Data :#5 Date: 2014/10/8 Temperature:24 ℃
Time: 下午 11:09:25 Humidity:60 %



Site : Chamber
Condition : FCC_part 15 RE-Class C_Above 1GHz_PK
EUT : W6M21312-13727
M/N: MA-505
Test Mode : 2402MHz
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

*:Maximum data x:Over limit !:over margin

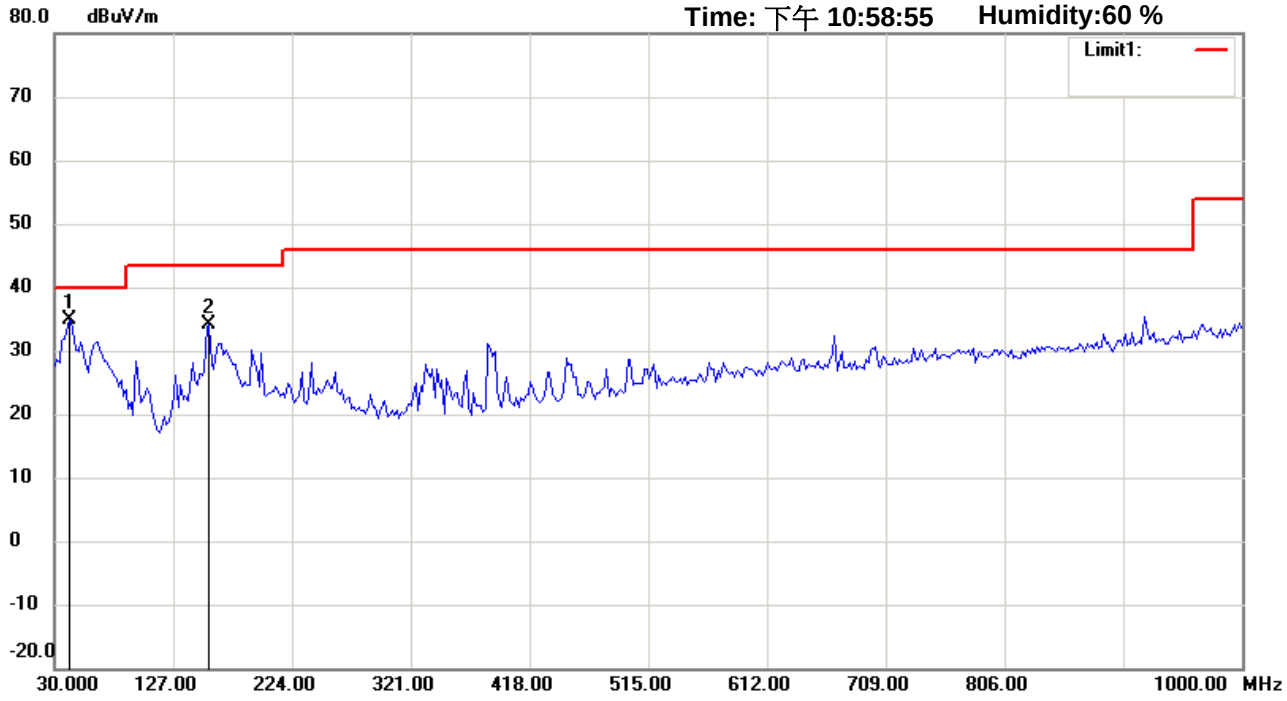
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :1 Data :#2 Date: 2014/10/8 Time: 下午 10:58:55

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

Polarization: *Vertical*

EUT : W6M21312-13727

Power : 120 Va.c.

M/N: MA-505

Distance: 3m

Test Mode : 2402MHz

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
*	41.6633	20.86	peak	13.93	34.79	40.00	100	215	-5.21	
	156.3527	18.65	peak	15.37	34.02	43.50	100	130	-9.48	

*:Maximum data x:Over limit !:over margin

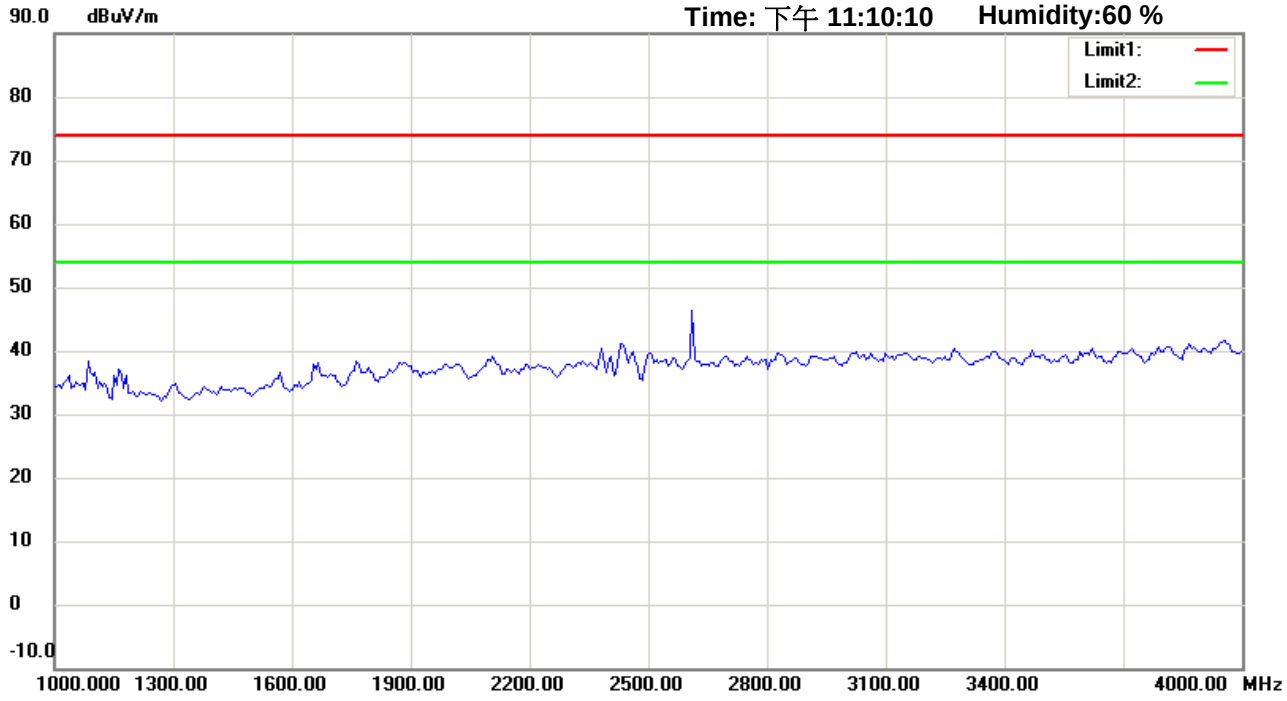
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3 Data :#6 Date: 2014/10/8 Time: 下午 11:10:10

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21312-13727

Power : 120 Va.c.

M/N: MA-505

Distance: 3m

Test Mode : 2402MHz

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

*:Maximum data x:Over limit !:over margin

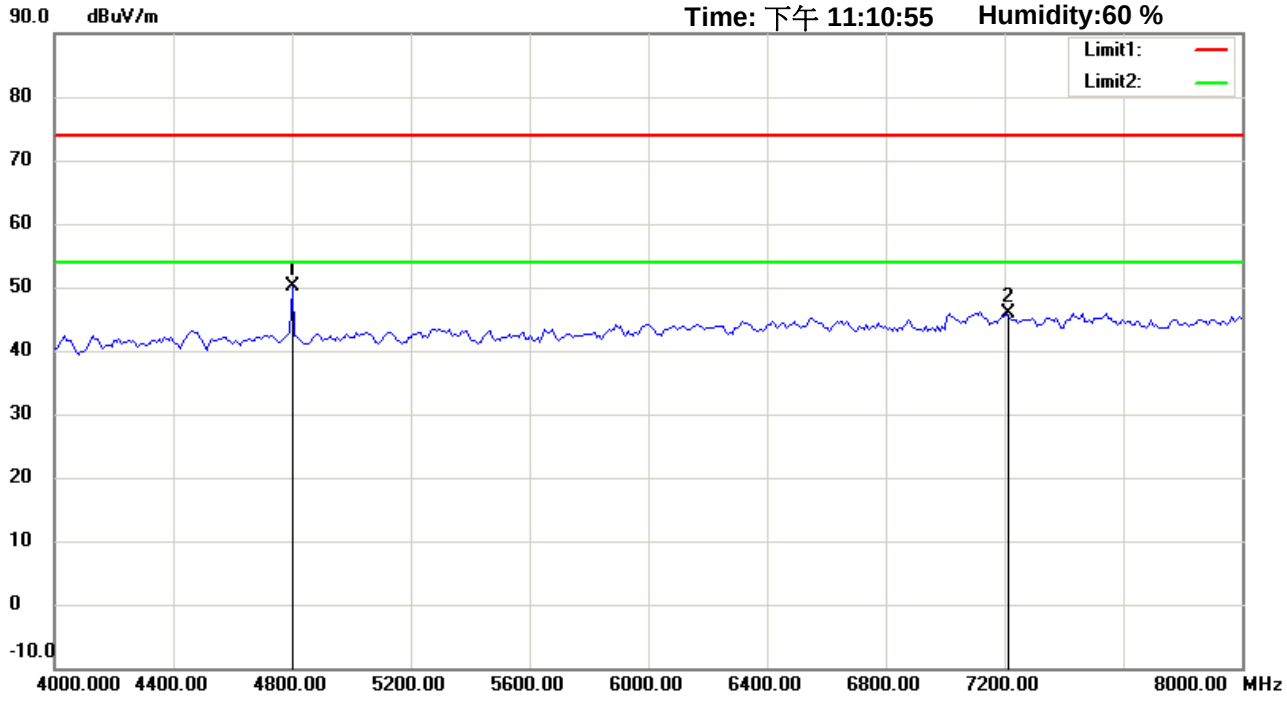
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3 Data :#7 Date: 2014/10/8 Time: 下午 11:10:55

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M21312-13727

M/N: MA-505

Test Mode : 2402MHz

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
*	4801.603	49.82	peak	0.27	50.09	74.00	100	115	-23.91	
	7206.413	42.10	peak	3.85	45.95	74.00	100	90	-28.05	

*:Maximum data x:Over limit !:over margin

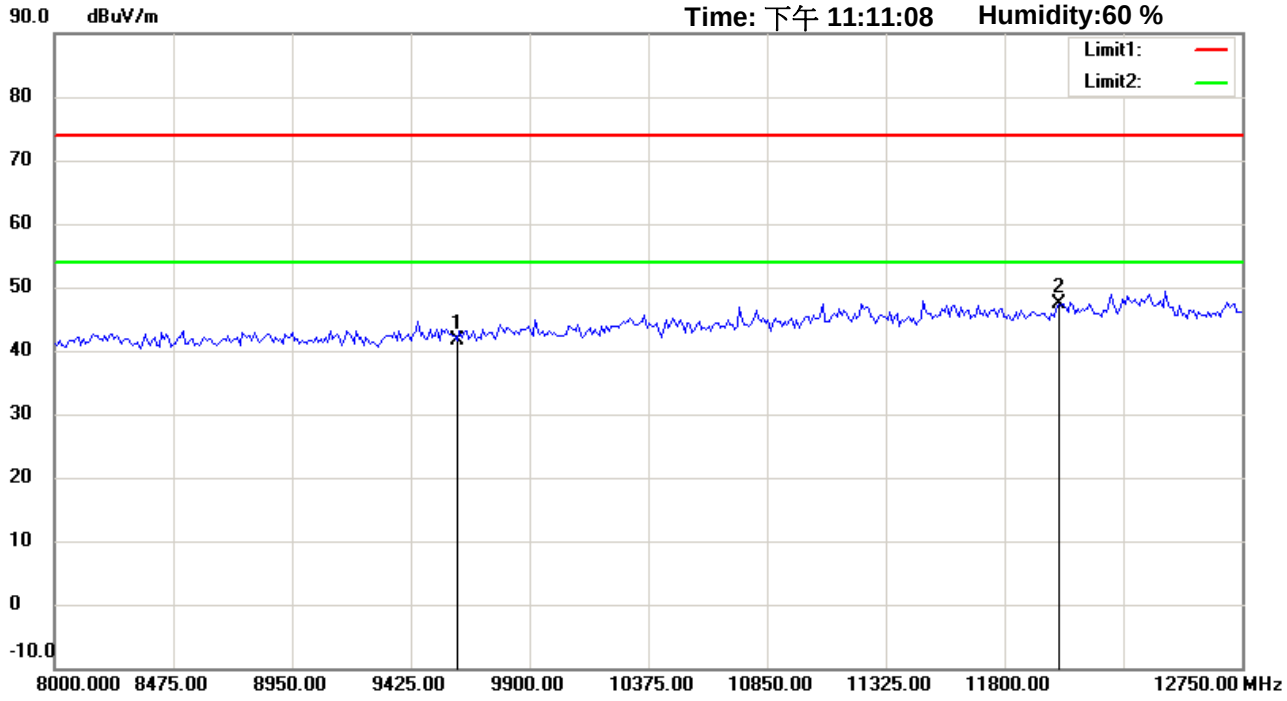
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3 Data :#8 Date: 2014/10/8 Time: 下午 11:11:08

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21312-13727

Power : 120 Va.c.

M/N: MA-505

Distance: 3m

Test Mode : 2402MHz

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
	9608.000	33.75	peak	7.93	41.68	74.00	100	210	-32.32	
*	12010.000	34.79	peak	12.65	47.44	74.00	100	95	-26.56	

*:Maximum data x:Over limit !:over margin

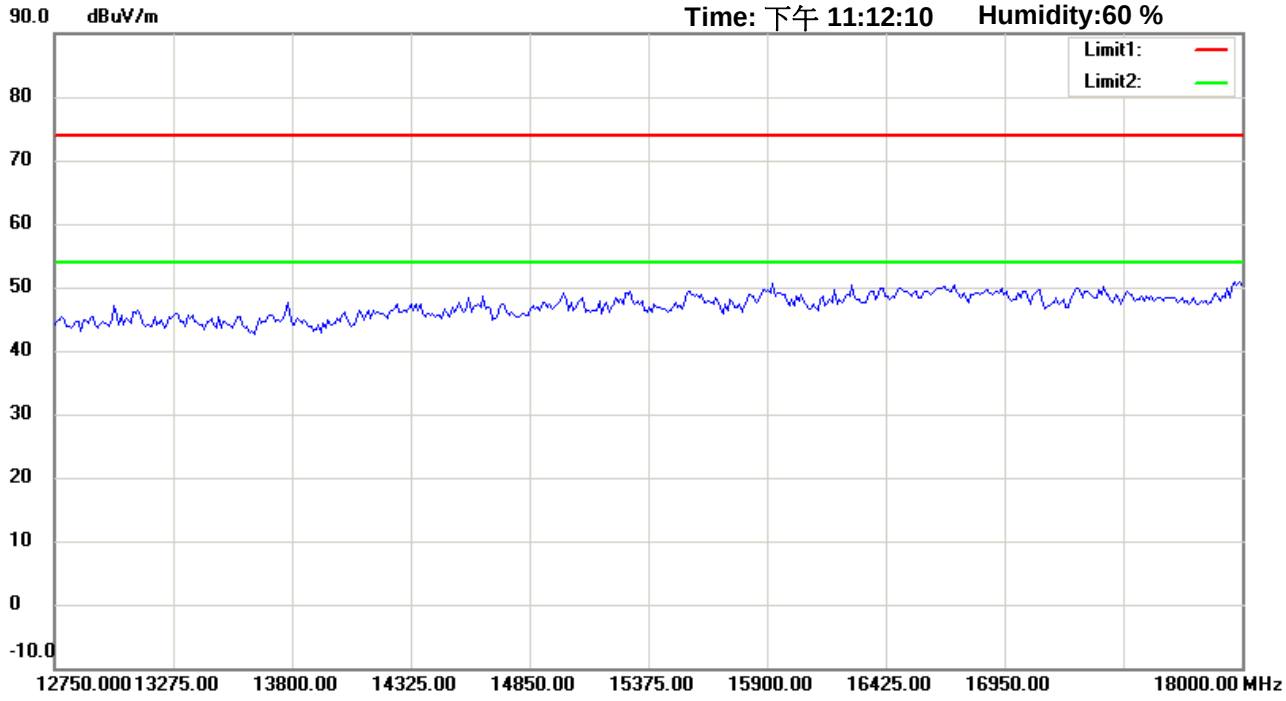
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3 Data :#9 Date: 2014/10/8 Time: 下午 11:12:10

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21312-13727

Power : 120 Va.c.

M/N: MA-505

Distance: 3m

Test Mode : 2402MHz

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

*:Maximum data x:Over limit !:over margin

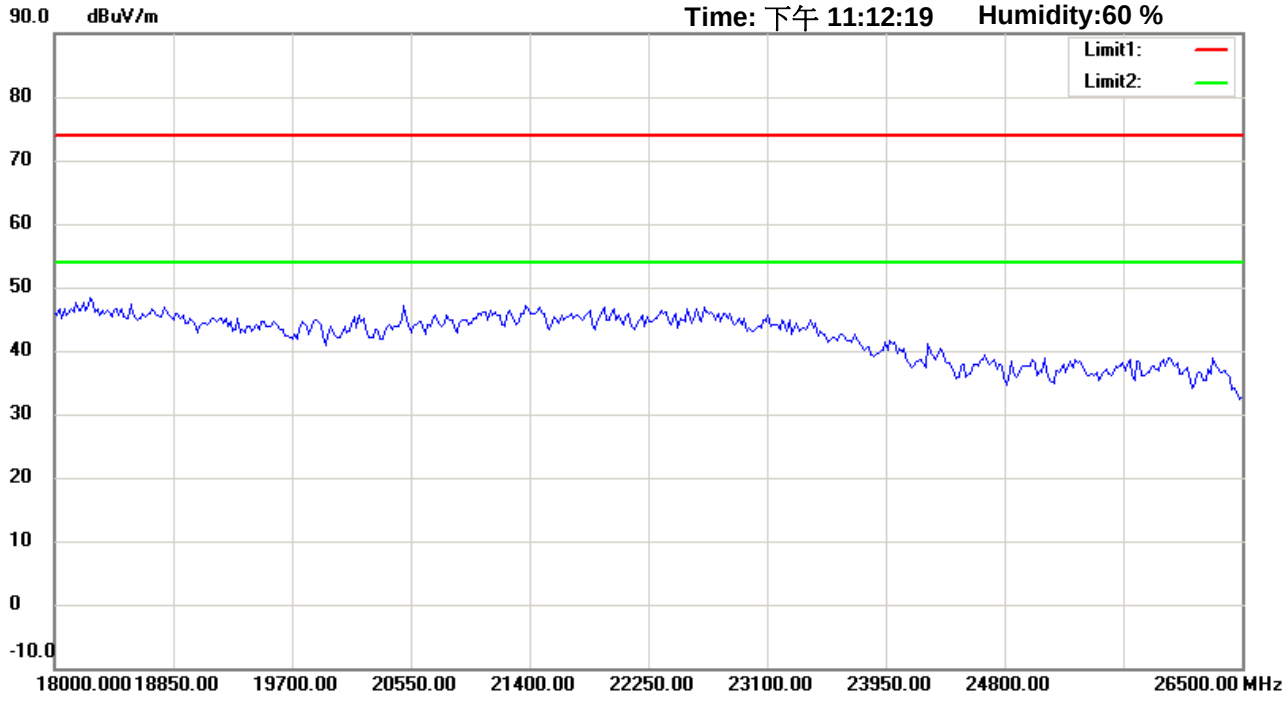
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3 Data :#10 Date: 2014/10/8 Time: 下午 11:12:19

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21312-13727

Power : 120 Va.c.

M/N: MA-505

Distance: 3m

Test Mode : 2402MHz

Note :

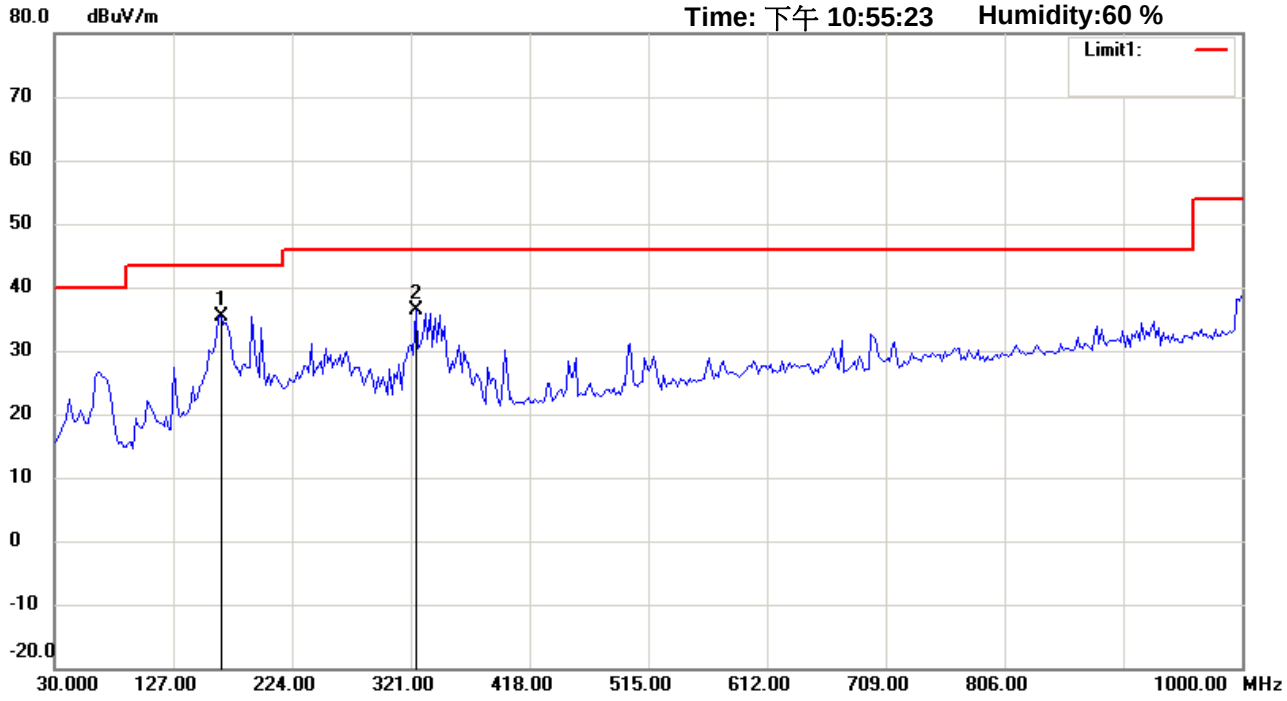
Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment

*:Maximum data x:Over limit !:over margin

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon
File :1 Data :#1 Date: 2014/10/8 Temperature:24 ℃
Time: 下午 10:55:23 Humidity:60 %



Site : Chamber
Condition : FCC_part 15 RE-Class C_30-1000MHz
EUT : W6M21312-13727
M/N: MA-505
Test Mode : 2441MHz
Note :

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

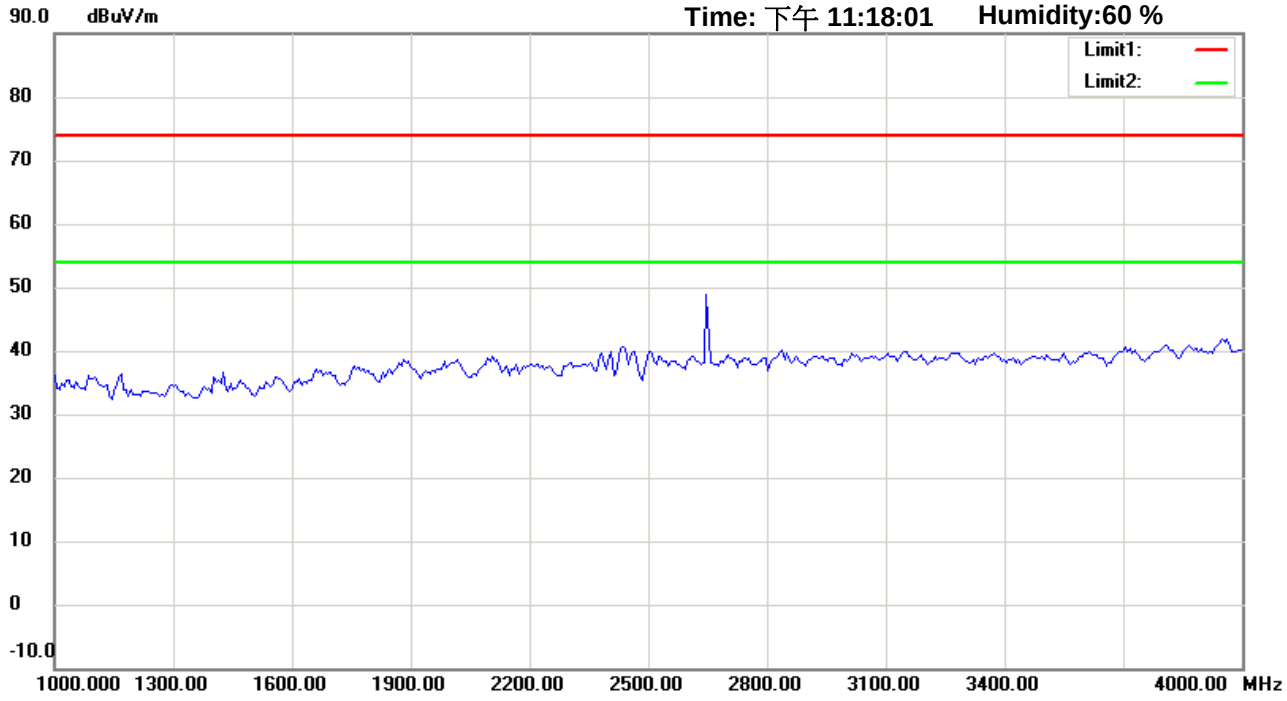
Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	166.0721	20.41	peak	15.03	35.44	43.50	100	105	-8.06	
	325.4708	19.82	peak	16.64	36.46	46.00	100	170	-9.54	

*:Maximum data x:Over limit !:over margin

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon
File :3 Data :#1 Date: 2014/10/8 Temperature:24 ℃
Time: 下午 11:18:01 Humidity:60 %



Site : Chamber
Condition : FCC_part 15 RE-Class C_Above 1GHz_PK
EUT : W6M21312-13727
M/N: MA-505
Test Mode : 2441MHz
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

*:Maximum data x:Over limit !:over margin

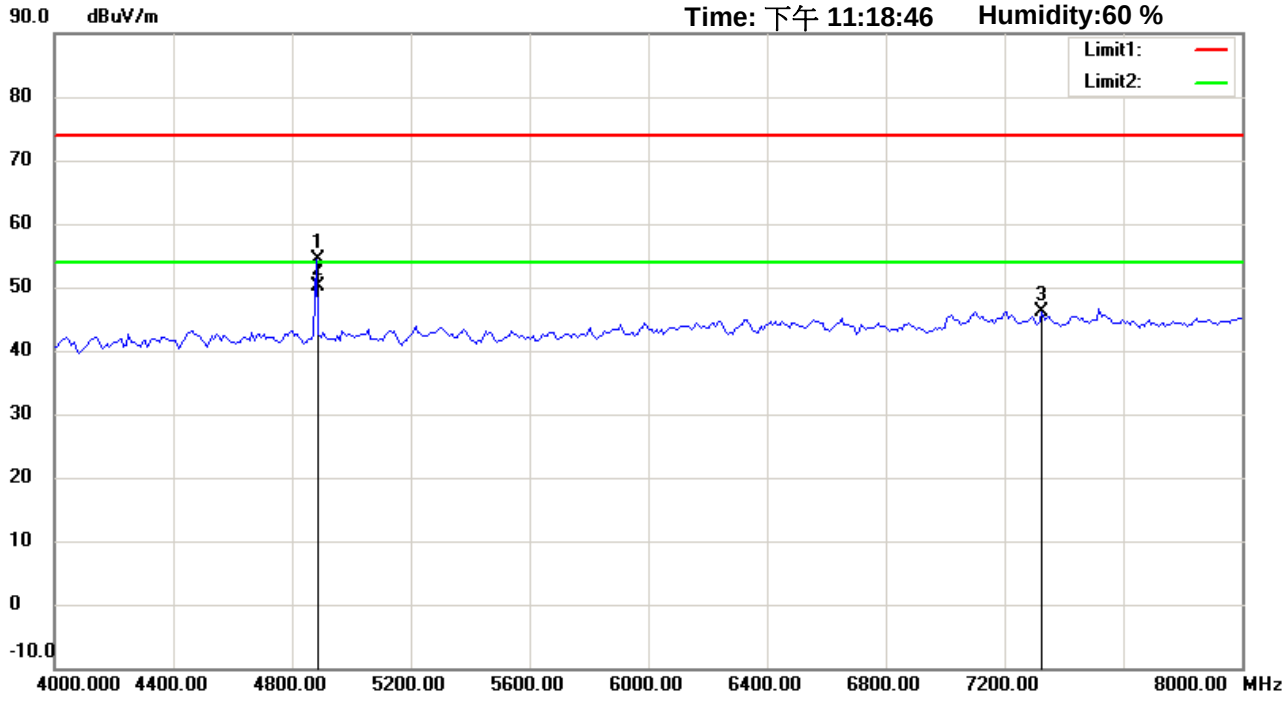
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3 Data :#2 Date: 2014/10/8 Time: 下午 11:18:46

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M21312-13727

M/N: MA-505

Test Mode : 2441MHz

Note :

Polarization: *Horizontal*

Power : 120 Va.c.

Distance: 3m

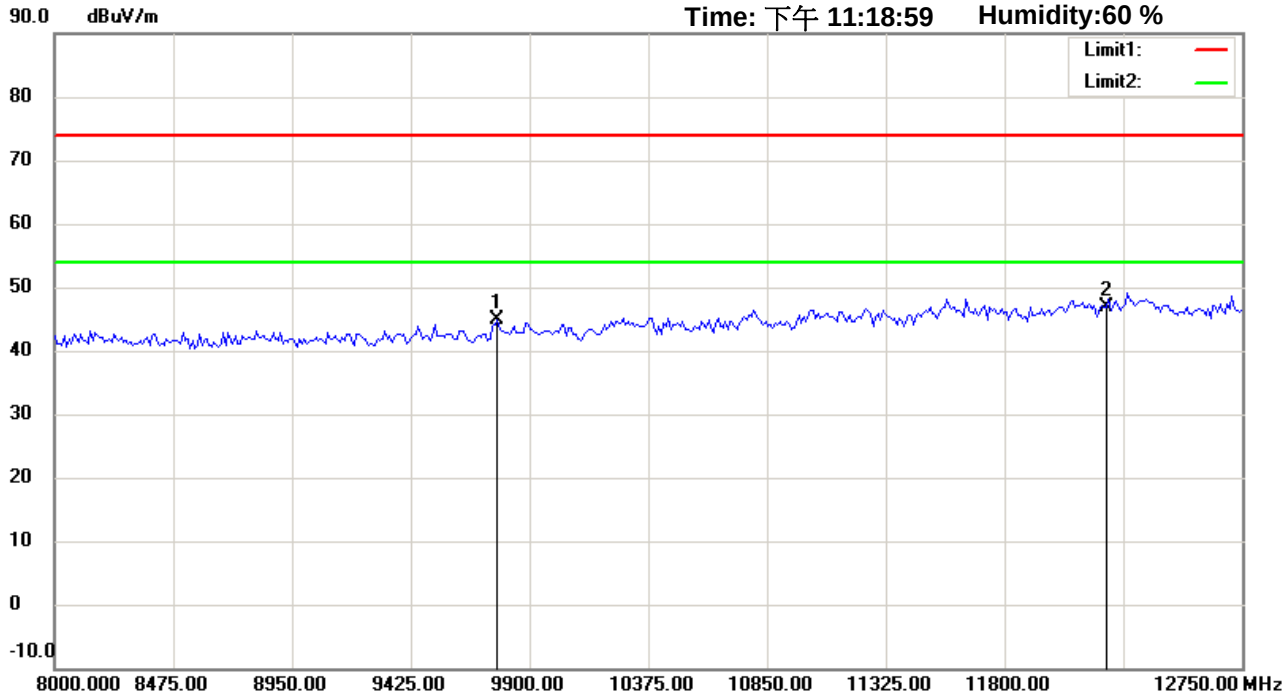
Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4882.039	53.92	peak	0.48	54.40	74.00	100	145	-19.60	
*	4882.039	49.77	AVG	0.48	50.25	54.00	100	145	-3.75	
	7326.653	42.39	peak	3.67	46.06	74.00	100	95	-27.94	

*:Maximum data x:Over limit !:over margin

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon
File :3 Data :#3 Date: 2014/10/8 Temperature:24 ℃
Time: 下午 11:18:59 Humidity:60 %



Site : Chamber
Condition : FCC_part 15 RE-Class C_Above 1GHz_PK
EUT : W6M21312-13727
M/N: MA-505
Test Mode : 2441MHz
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
	9764.000	36.46	peak	8.33	44.79	74.00	100	105	-29.21	
*	12205.000	33.13	peak	13.75	46.88	74.00	100	130	-27.12	

*:Maximum data x:Over limit !:over margin

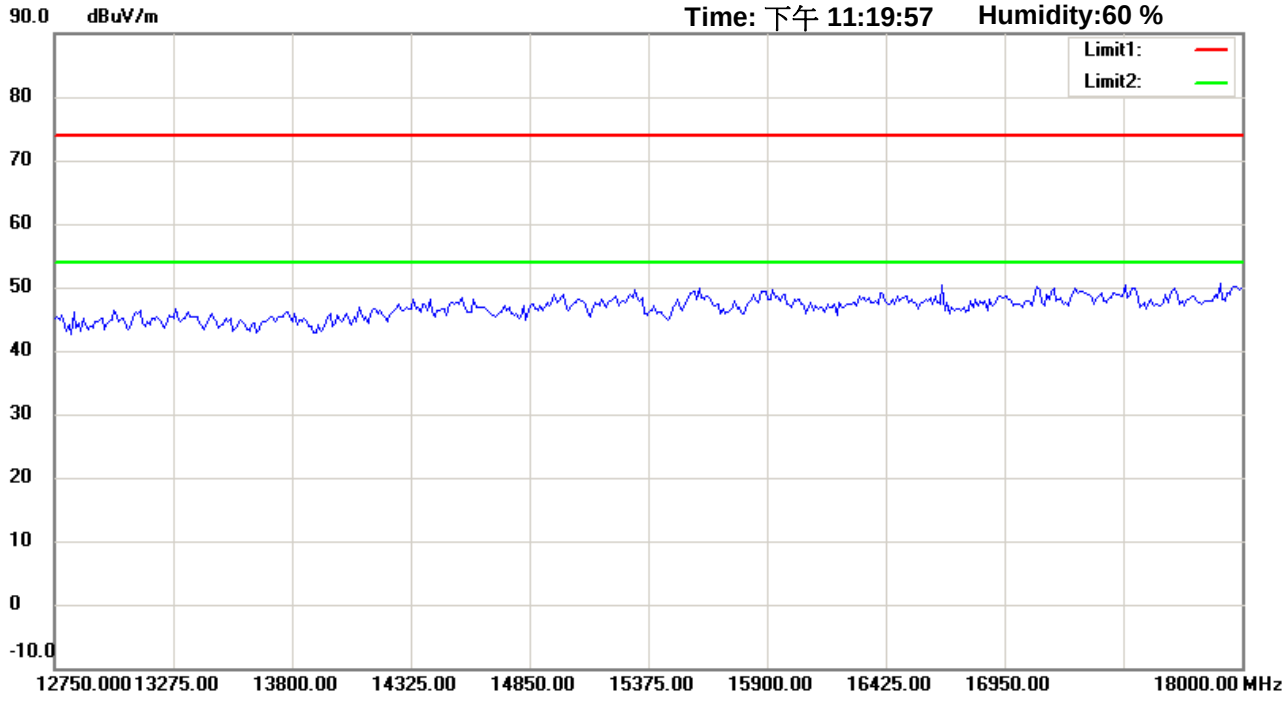
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3 Data :#4 Date: 2014/10/8 Time: 下午 11:19:57

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M21312-13727

M/N: MA-505

Test Mode : 2441MHz

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

*:Maximum data x:Over limit !:over margin

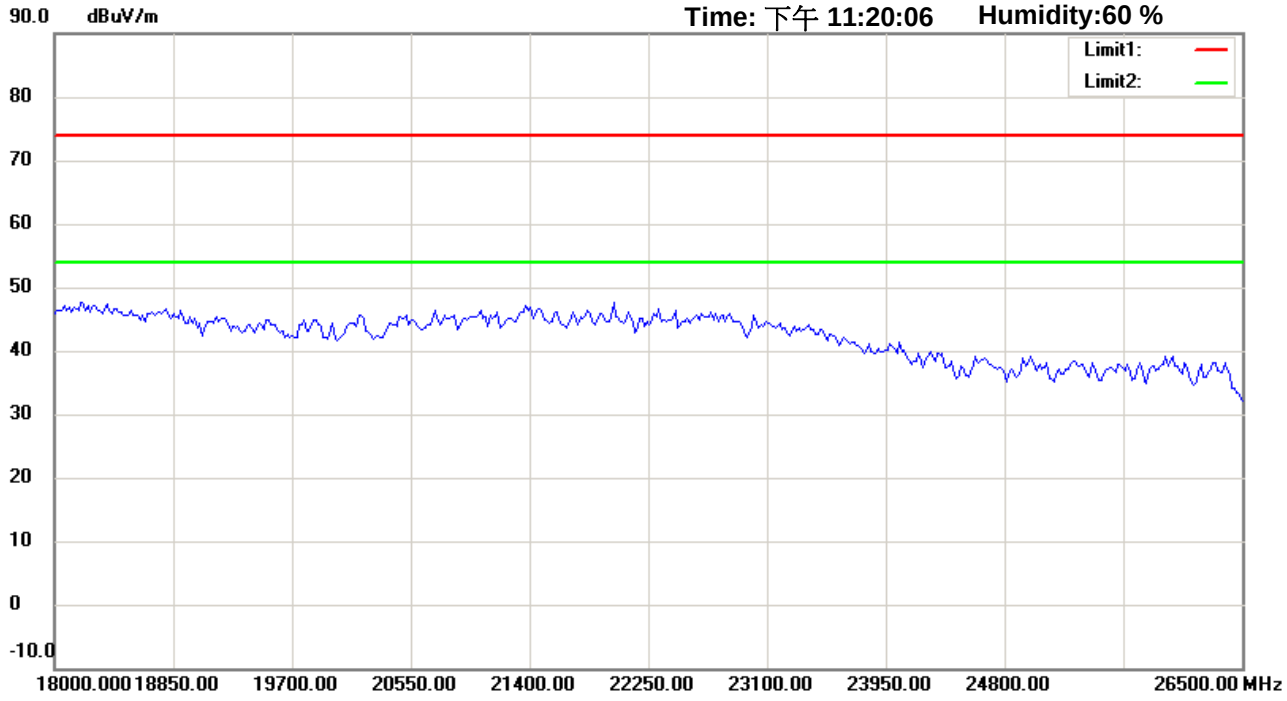
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3 Data :#5 Date: 2014/10/8 Time: 下午 11:20:06

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M21312-13727

M/N: MA-505

Test Mode : 2441MHz

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

*:Maximum data x:Over limit !:over margin

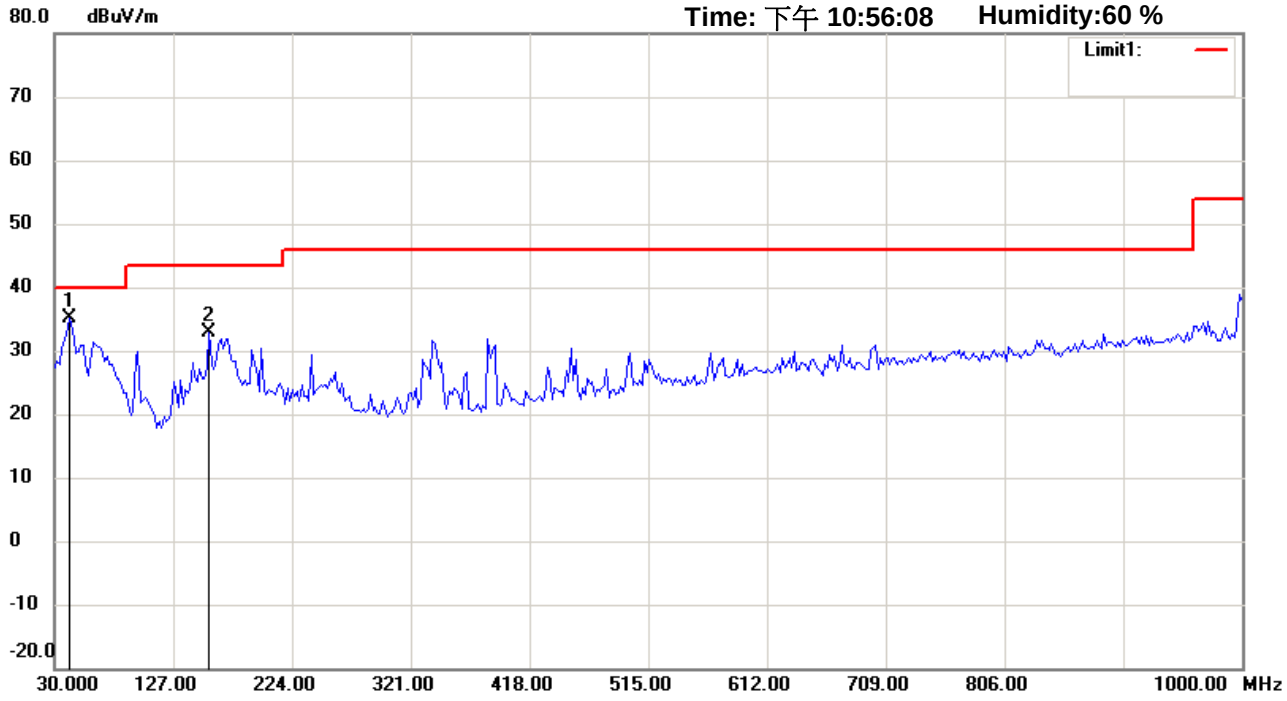
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :1 Data :#2 Date: 2014/10/8 Time: 下午 10:56:08

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

EUT : W6M21312-13727

M/N: MA-505

Test Mode : 2441MHz

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
*	41.6633	21.09	peak	13.93	35.02	40.00	100	35	-4.98	
	156.3527	17.50	peak	15.37	32.87	43.50	100	120	-10.63	

*:Maximum data x:Over limit !:over margin

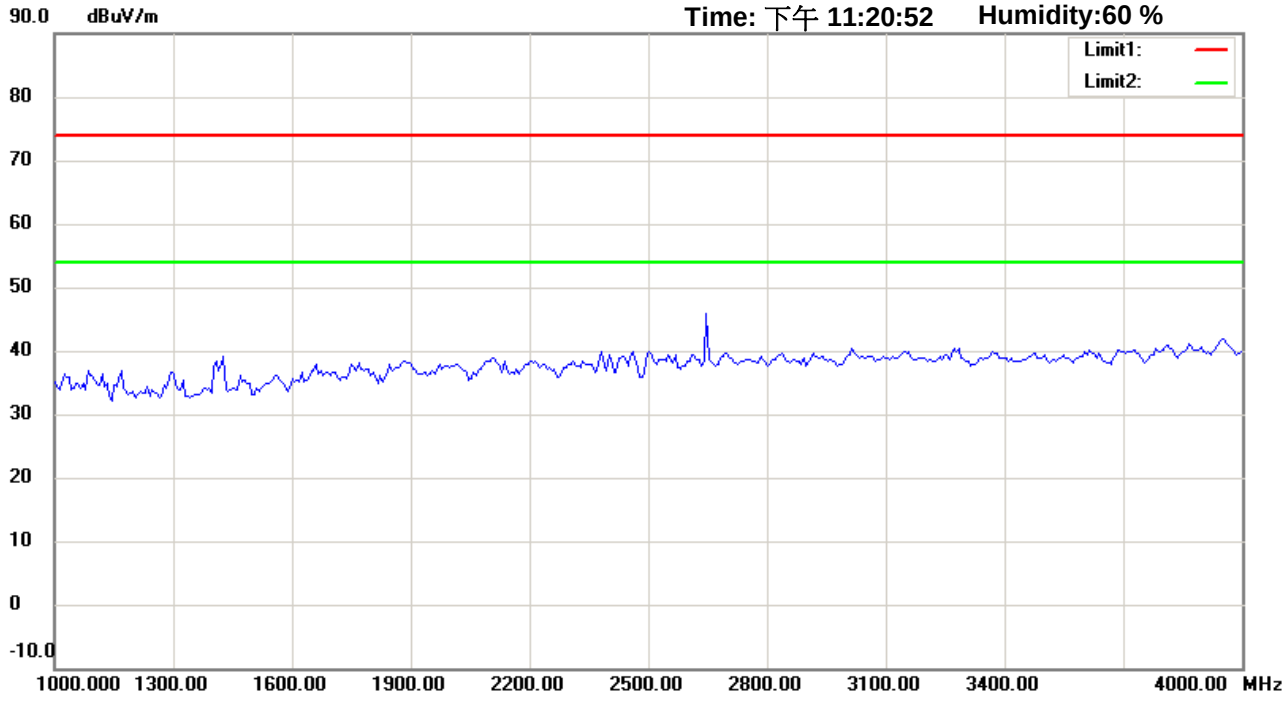
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3 Data :#6 Date: 2014/10/8 Time: 下午 11:20:52

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21312-13727

Power : 120 Va.c.

M/N: MA-505

Distance: 3m

Test Mode : 2441MHz

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

*:Maximum data x:Over limit !:over margin

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
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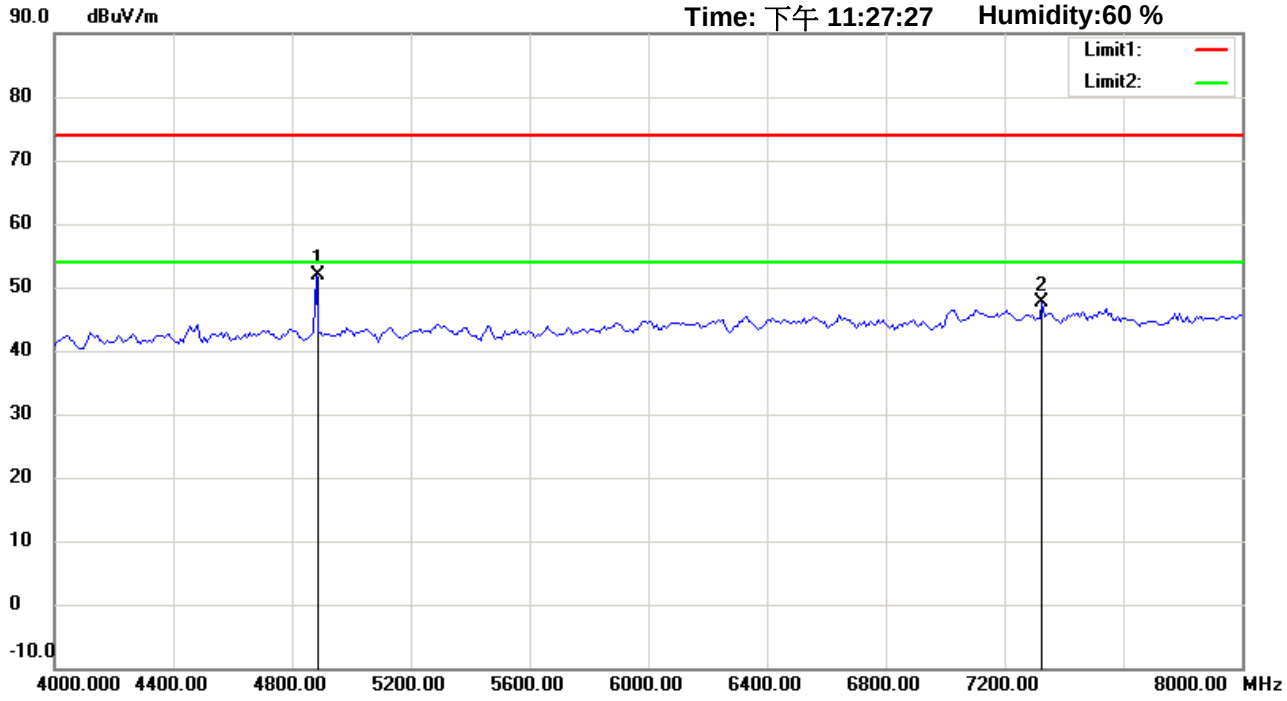
Radiated Emission Measurement

Operator: Leon
File :3 Data :#7 Date: 2014/10/8 Temperature:24 ℃
Time: 下午 11:27:27 Humidity:60 %



Site : Chamber
Condition : FCC_part 15 RE-Class C_Above 1GHz_PK
EUT : W6M21312-13727
M/N: MA-505
Test Mode : 2441MHz
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
*	4881.764	51.36	peak	0.47	51.83	74.00	100	160	-22.17	
	7326.653	43.91	peak	3.67	47.58	74.00	100	125	-26.42	

*:Maximum data x:Over limit !:over margin

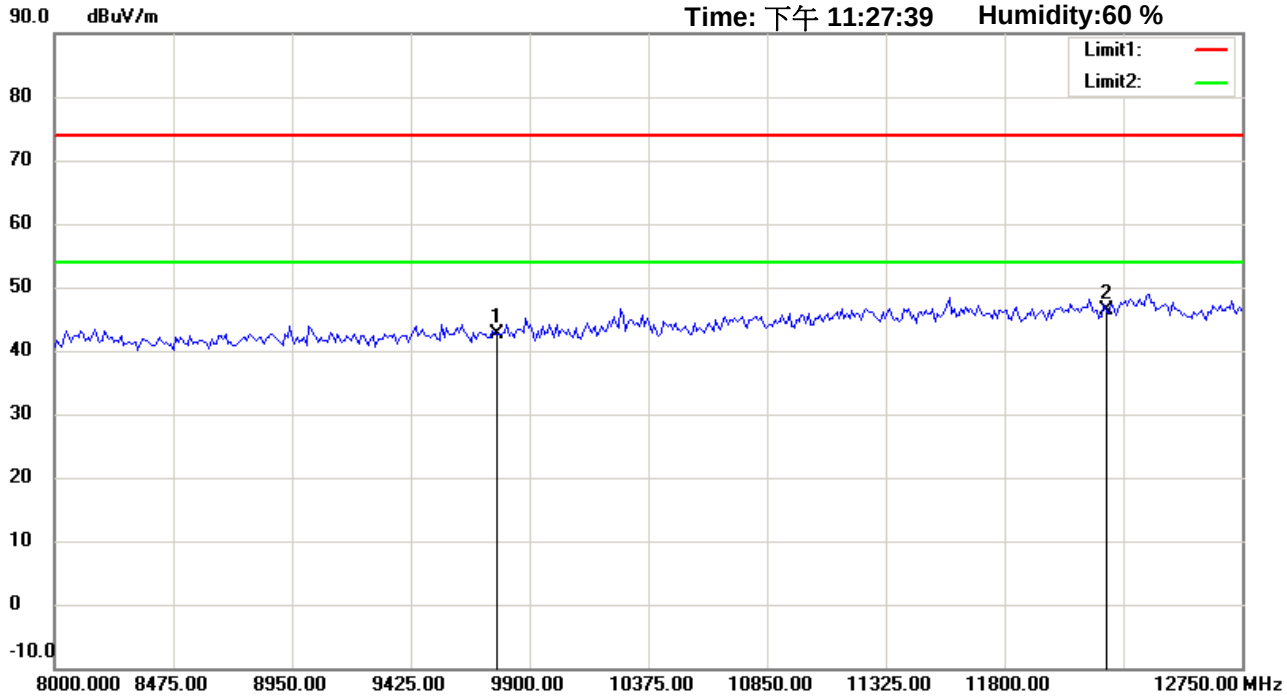
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3 Data :#8 Date: 2014/10/8 Time: 下午 11:27:39

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21312-13727

Power : 120 Va.c.

M/N: MA-505

Distance: 3m

Test Mode : 2441MHz

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
	9764.000	34.33	peak	8.33	42.66	74.00	100	55	-31.34	
*	12205.000	32.54	peak	13.75	46.29	74.00	100	140	-27.71	

*:Maximum data x:Over limit !:over margin

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
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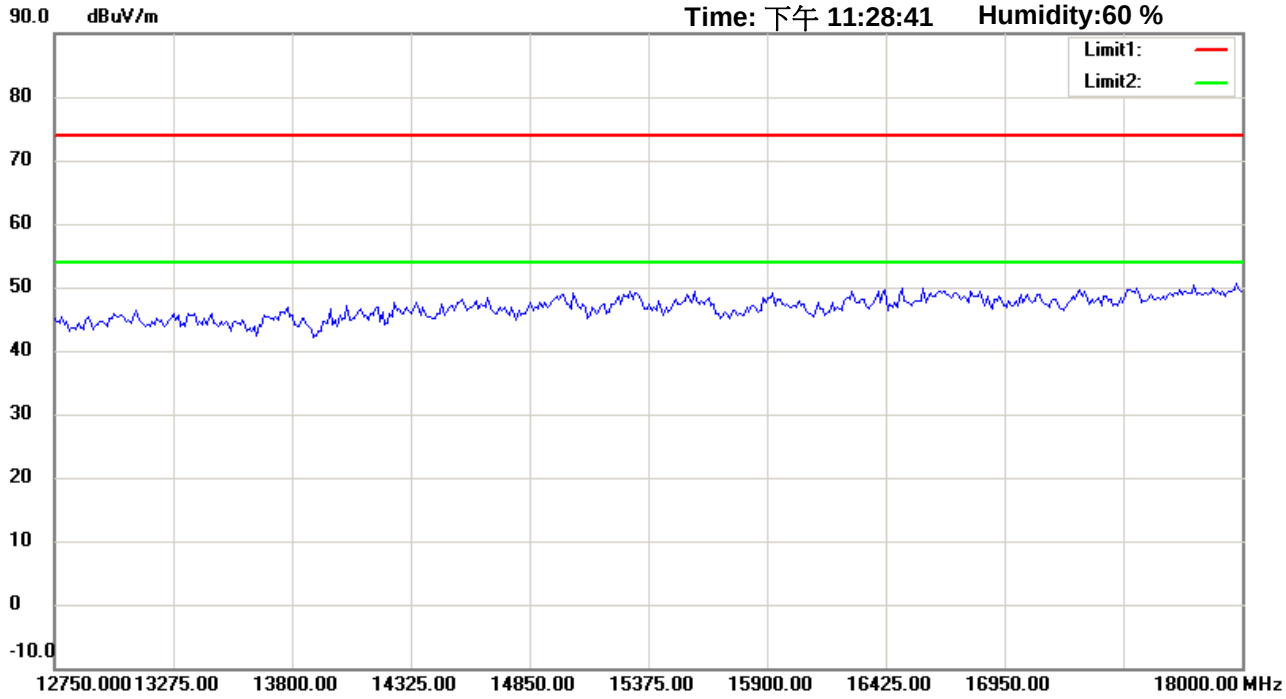
Radiated Emission Measurement

Operator: Leon

File :3 Data :#9 Date: 2014/10/8 Time: 下午 11:28:41

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21312-13727

Power : 120 Va.c.

M/N: MA-505

Distance: 3m

Test Mode : 2441MHz

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

*:Maximum data x:Over limit !:over margin

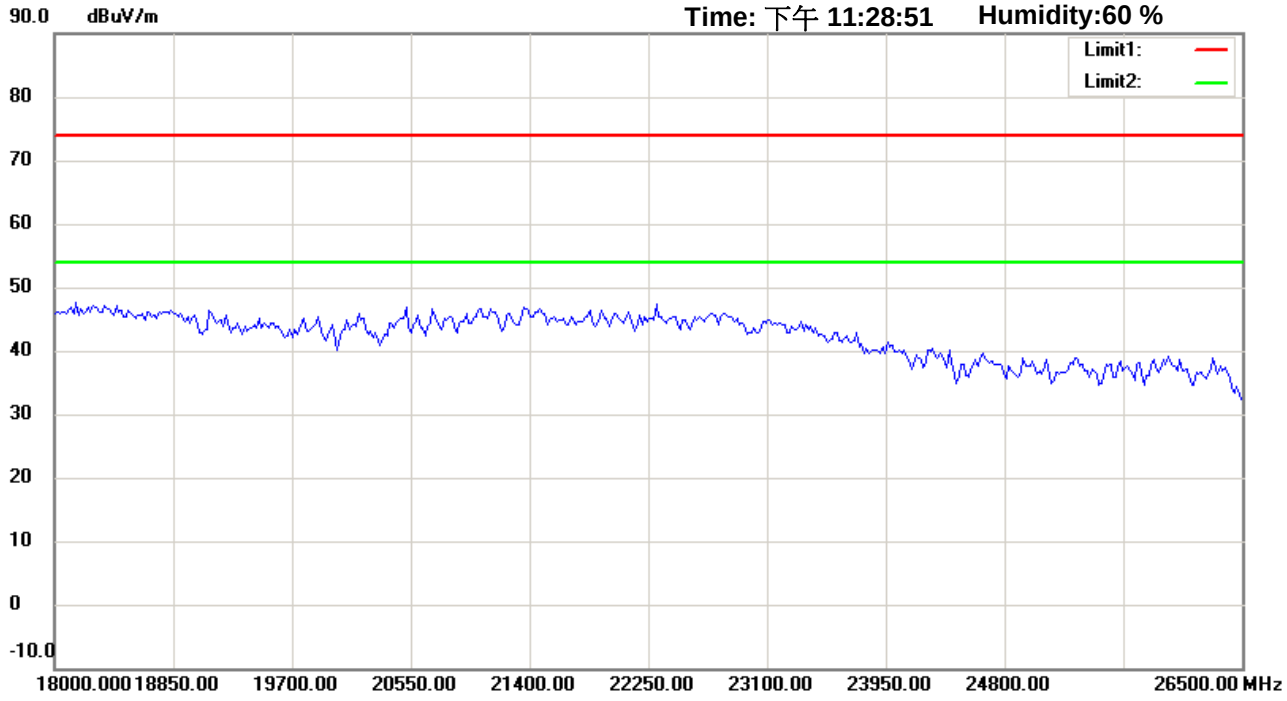
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3 Data :#10 Date: 2014/10/8 Time: 下午 11:28:51

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21312-13727

Power : 120 Va.c.

M/N: MA-505

Distance: 3m

Test Mode : 2441MHz

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

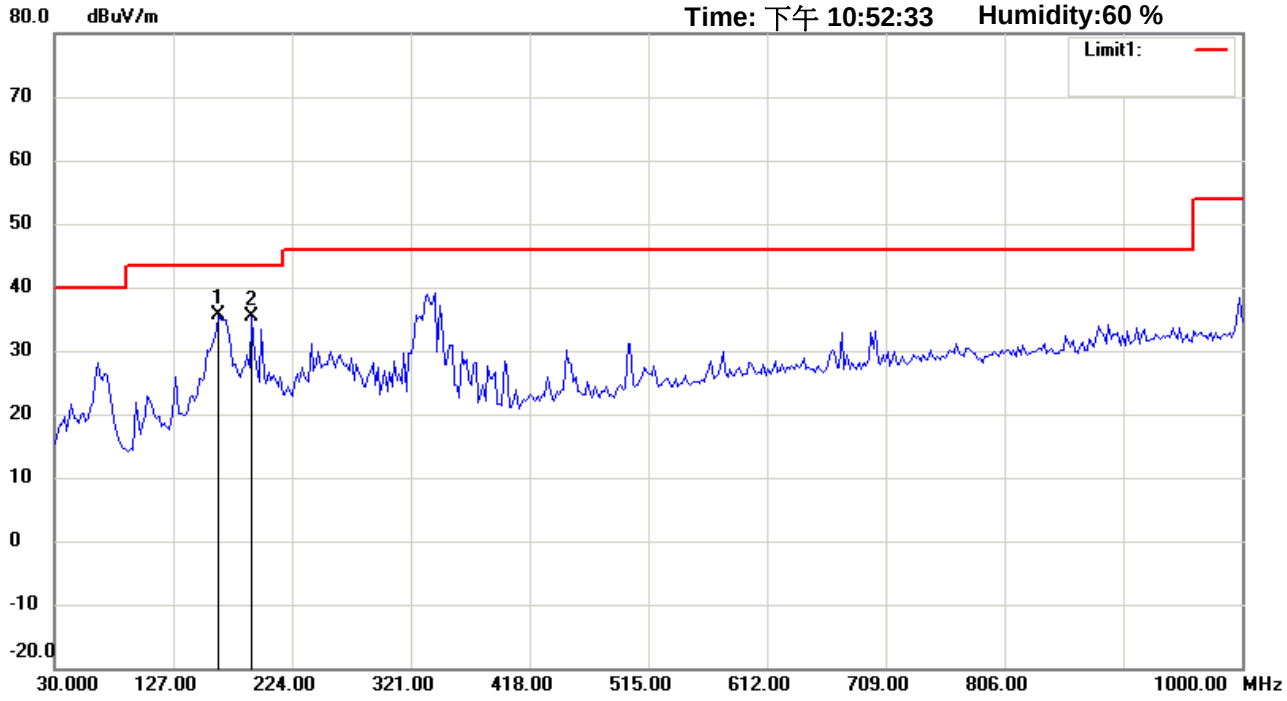
*:Maximum data x:Over limit !:over margin

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :1 Data :#1 Date: 2014/10/8 Time: 下午 10:52:33 Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

EUT : W6M21312-13727

M/N: MA-505

Test Mode : 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
*	164.1283	20.42	peak	15.15	35.57	43.50	100	155	-7.93	
	191.3427	23.11	peak	12.34	35.45	43.50	100	130	-8.05	

*:Maximum data x:Over limit !:over margin

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
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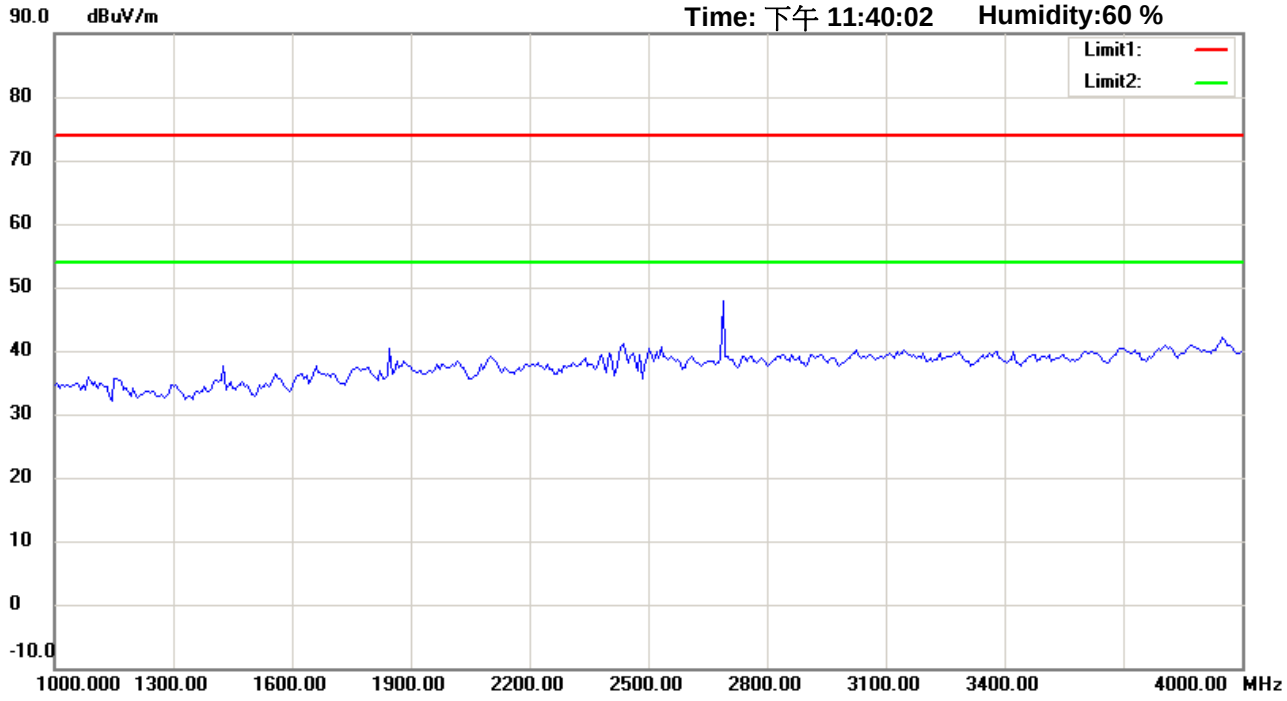
Radiated Emission Measurement

Operator: Leon

File :3 Data :#1 Date: 2014/10/8 Time: 下午 11:40:02

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21312-13727

Power : 120 Va.c.

M/N: MA-505

Distance: 3m

Test Mode : 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

*:Maximum data x:Over limit !:over margin

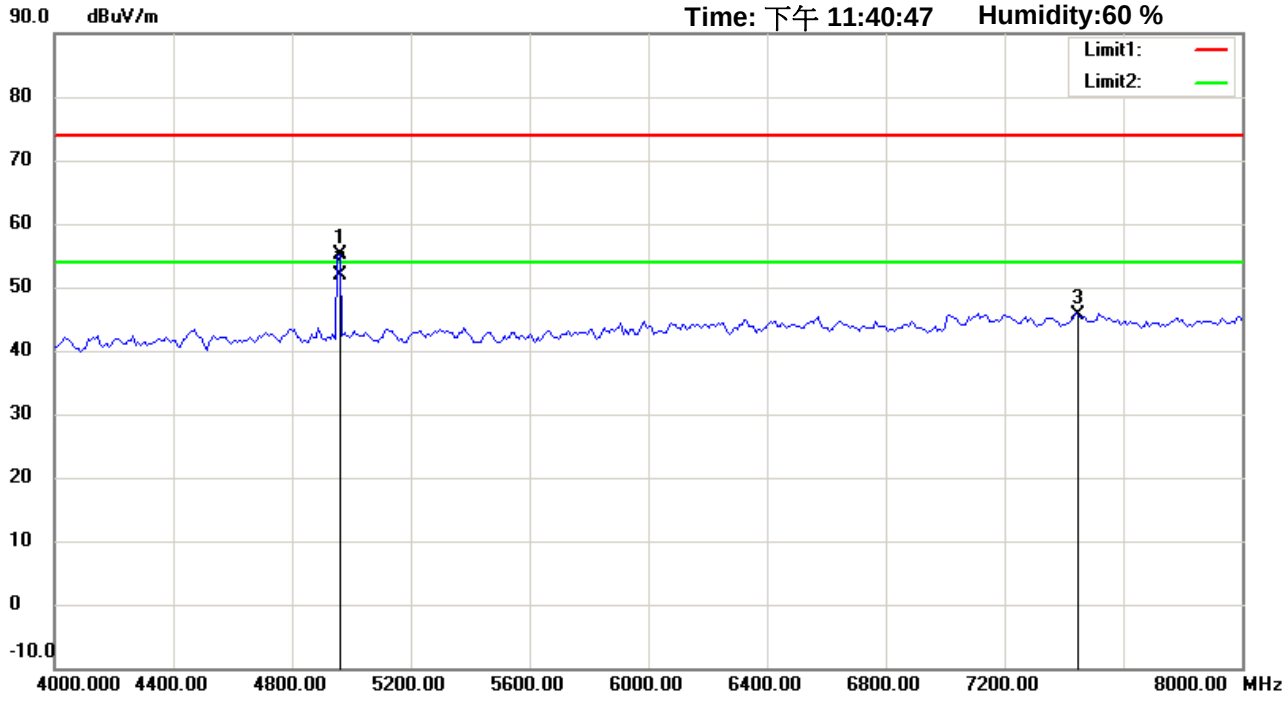
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3 Data :#2 Date: 2014/10/8 Time: 下午 11:40:47

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21312-13727

Power : 120 Va.c.

M/N: MA-505

Distance: 3m

Test Mode : 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
	4960.034	54.26	peak	0.88	55.14	74.00	100	140	-18.86	
*	4960.034	50.94	AVG	0.88	51.82	54.00	100	140	-2.18	
	7440.000	41.62	peak	3.93	45.55	74.00	100	125	-28.45	

*:Maximum data x:Over limit !:over margin

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Tel:+886-2-6606-8877
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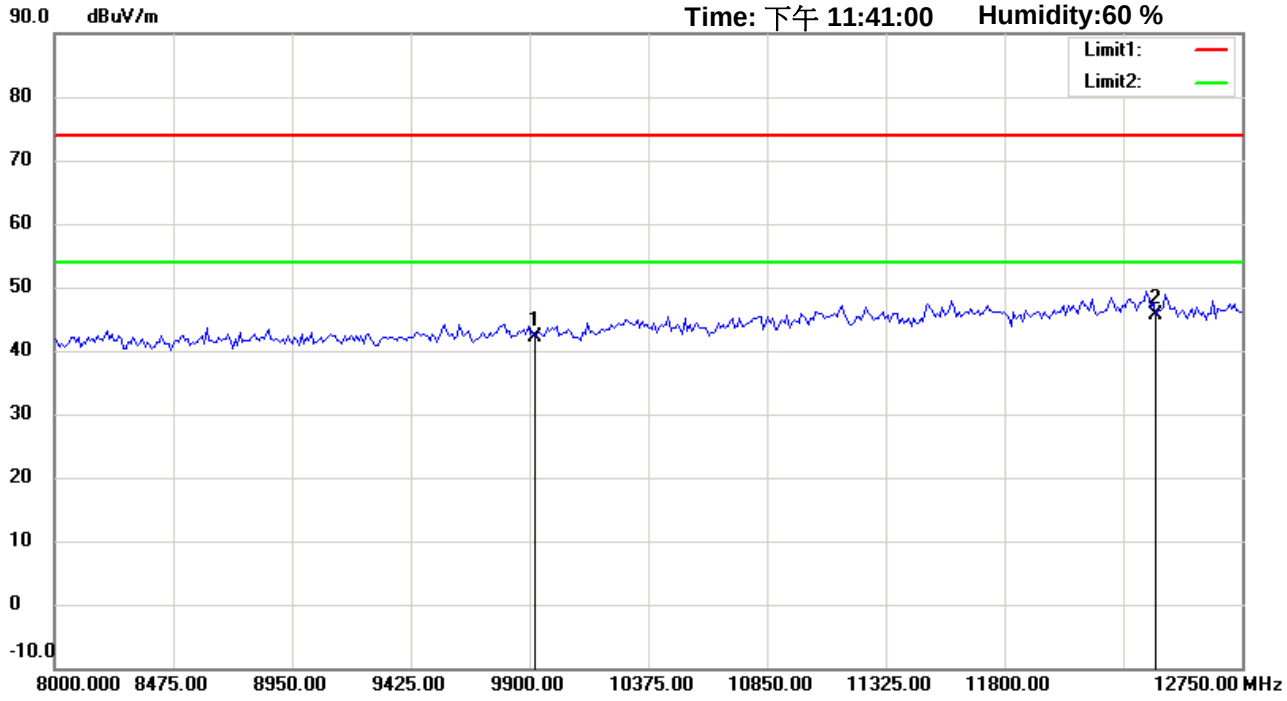
Radiated Emission Measurement

Operator: Leon

File :3 Data :#3 Date: 2014/10/8 Time: 下午 11:41:00

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21312-13727

Power : 120 Va.c.

M/N: MA-505

Distance: 3m

Test Mode : 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	33.75	peak	8.50	42.25	74.00	100	85	-31.75	
*	12400.000	31.15	peak	14.46	45.61	74.00	100	130	-28.39	

*:Maximum data x:Over limit !:over margin

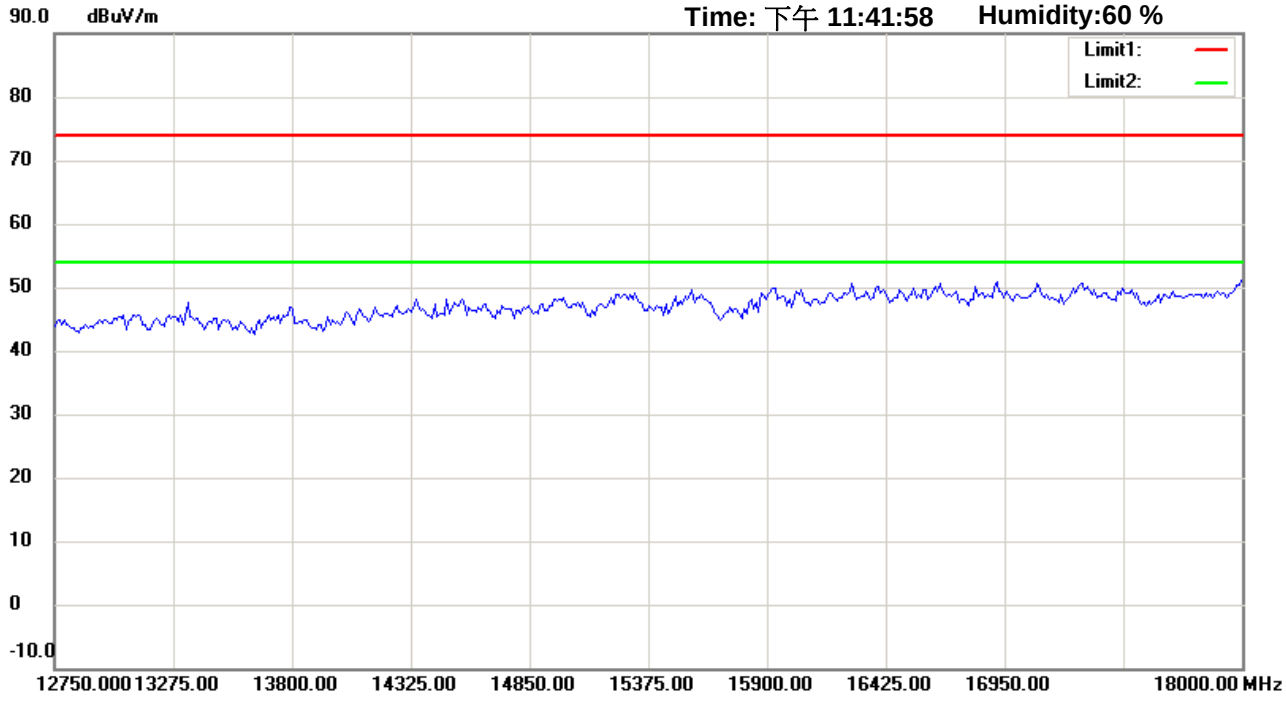
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3 Data :#4 Date: 2014/10/8 Time: 下午 11:41:58

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M21312-13727

M/N: MA-505

Test Mode : 2480MHz

Note :

Polarization: *Horizontal*

Power : 120 Va.c.

Distance: 3m

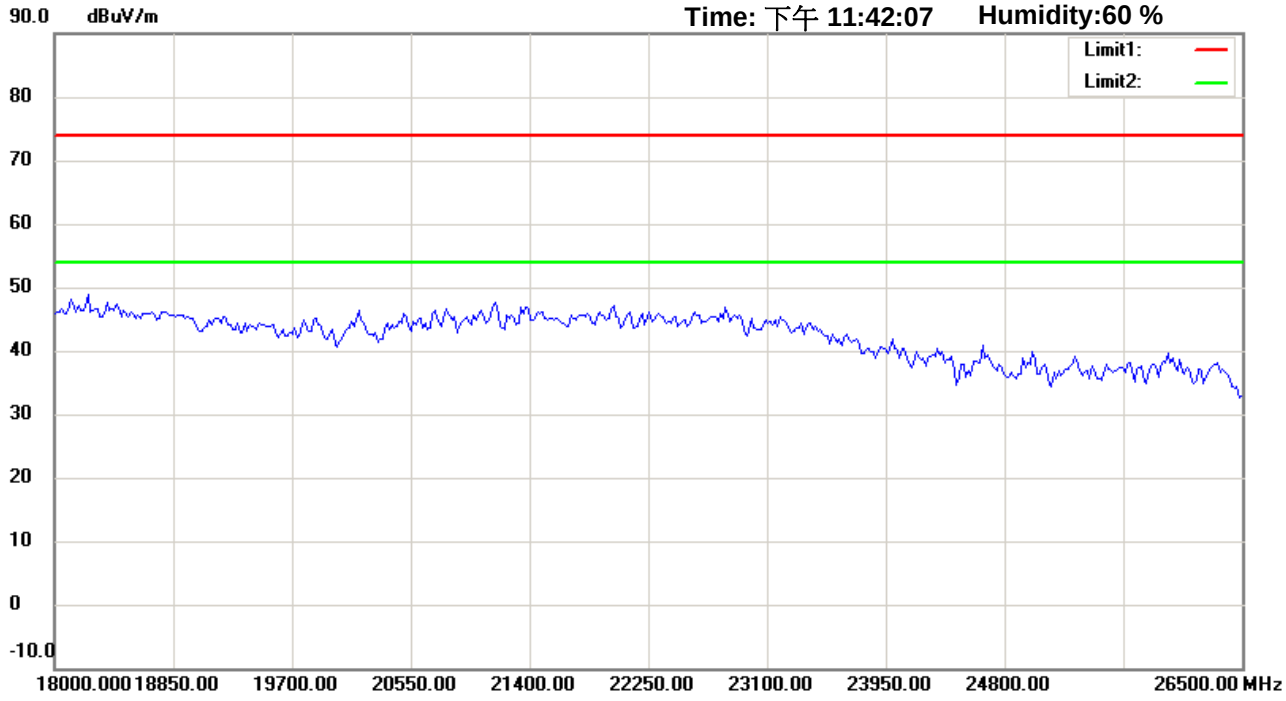
Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment

*:Maximum data x:Over limit !:over margin

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon
File :3 Data :#5 Date: 2014/10/8 Temperature:24 ℃
Time: 下午 11:42:07 Humidity:60 %



Site : Chamber
Condition : FCC_part 15 RE-Class C_Above 1GHz_PK
EUT : W6M21312-13727
M/N: MA-505
Test Mode : 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

*:Maximum data x:Over limit !:over margin

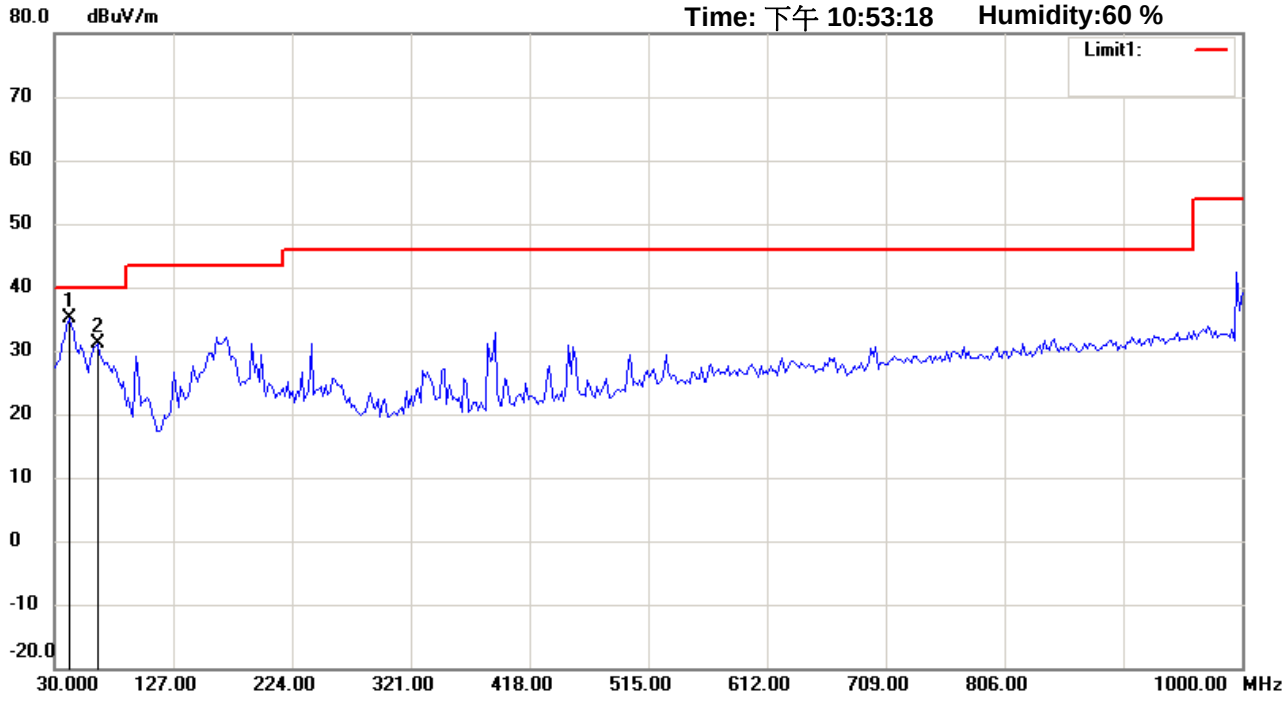
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :1 Data :#2 Date: 2014/10/8 Time: 下午 10:53:18

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

EUT : W6M21312-13727

M/N: MA-505

Test Mode : 2480MHz

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
*	41.6633	21.13	peak	13.93	35.06	40.00	100	60	-4.94	
	64.9900	18.65	peak	12.41	31.06	40.00	100	140	-8.94	

*:Maximum data x:Over limit !:over margin

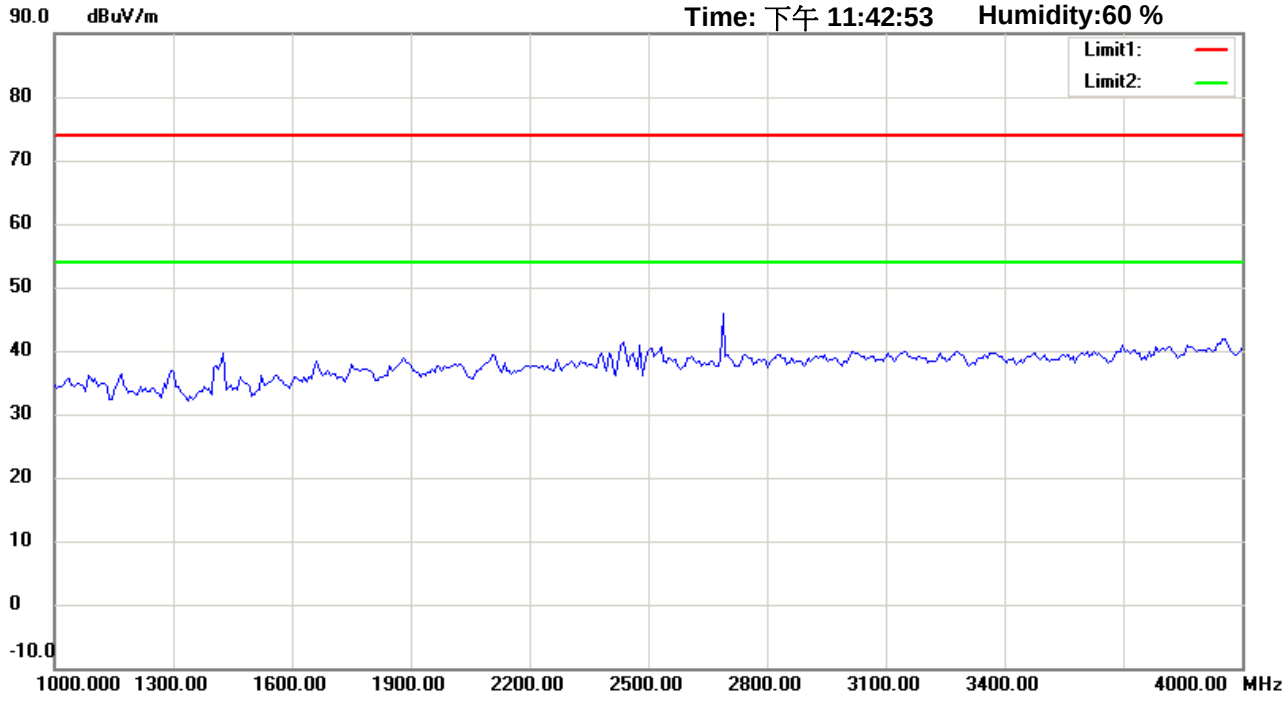
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3 Data :#6 Date: 2014/10/8 Time: 下午 11:42:53

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21312-13727

Power : 120 Va.c.

M/N: MA-505

Distance: 3m

Test Mode : 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

*:Maximum data x:Over limit !:over margin

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
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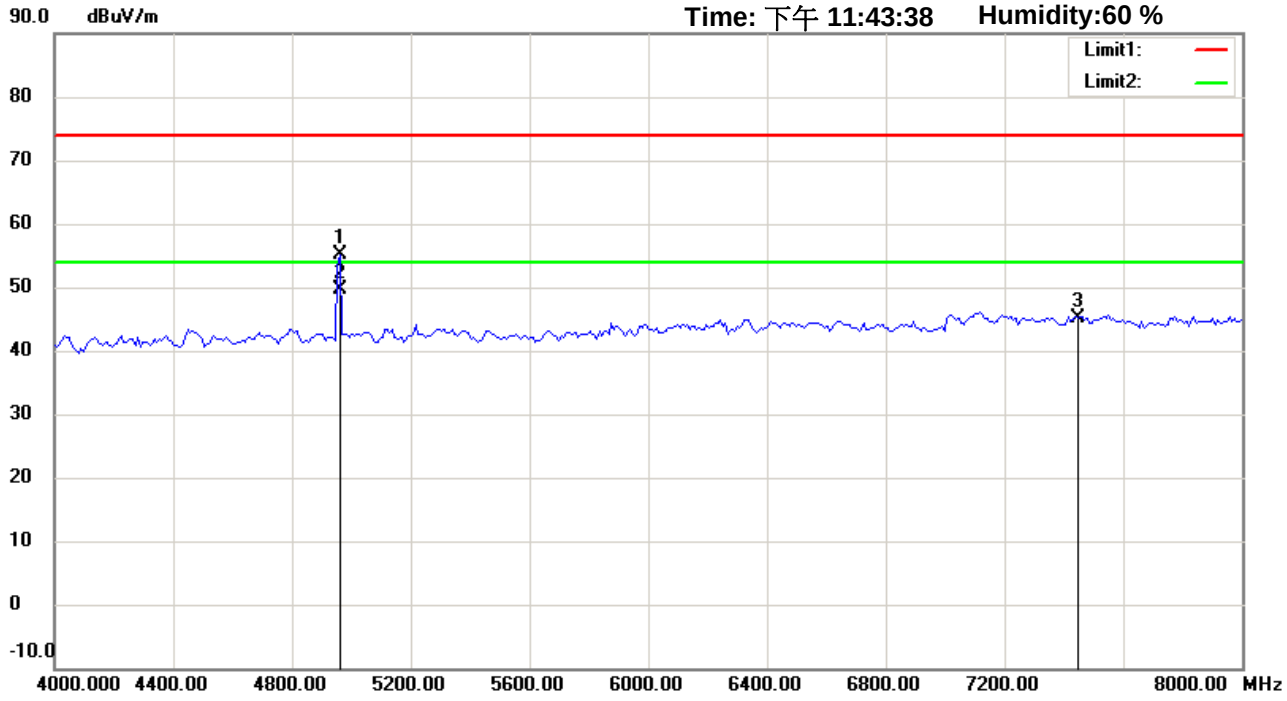
Radiated Emission Measurement

Operator: Leon

File :3 Data :#7 Date: 2014/10/8 Time: 下午 11:43:38

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21312-13727

Power : 120 Va.c.

M/N: MA-505

Distance: 3m

Test Mode : 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
	4960.074	54.22	peak	0.88	55.10	74.00	100	150	-18.90	
*	4960.074	48.74	AVG	0.88	49.62	54.00	100	150	-4.38	
	7440.000	41.18	peak	3.93	45.11	74.00	100	115	-28.89	

*:Maximum data x:Over limit !:over margin

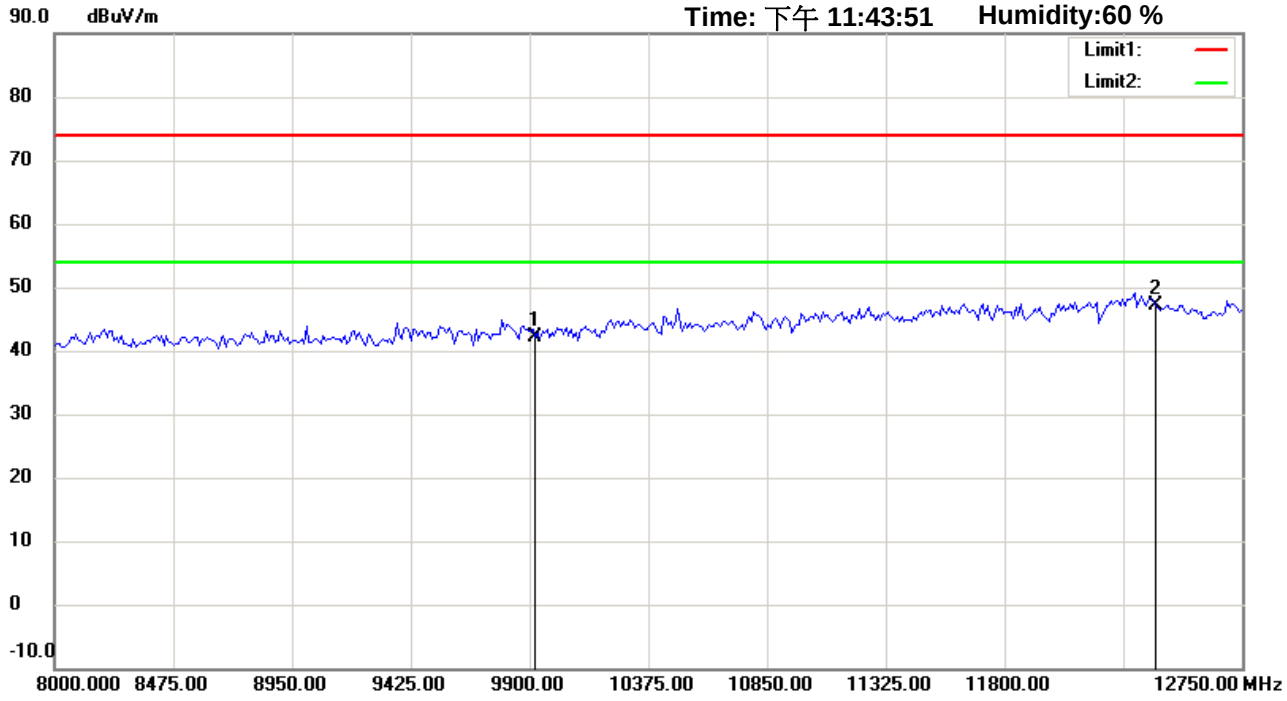
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3 Data :#8 Date: 2014/10/8 Time: 下午 11:43:51

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21312-13727

Power : 120 Va.c.

M/N: MA-505

Distance: 3m

Test Mode : 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	33.75	peak	8.50	42.25	74.00	100	135	-31.75	
*	12400.000	32.78	peak	14.46	47.24	74.00	100	60	-26.76	

*:Maximum data x:Over limit !:over margin

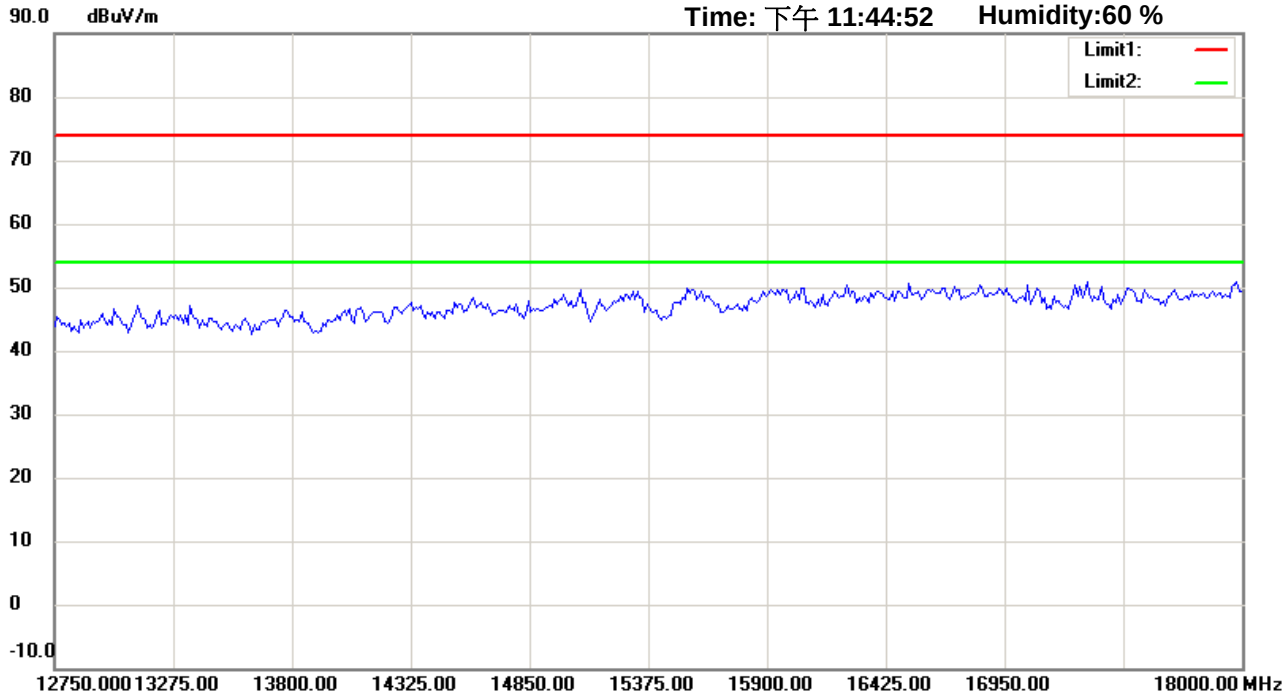
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3 Data :#9 Date: 2014/10/8 Time: 下午 11:44:52

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21312-13727

Power : 120 Va.c.

M/N: MA-505

Distance: 3m

Test Mode : 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

*:Maximum data x:Over limit !:over margin

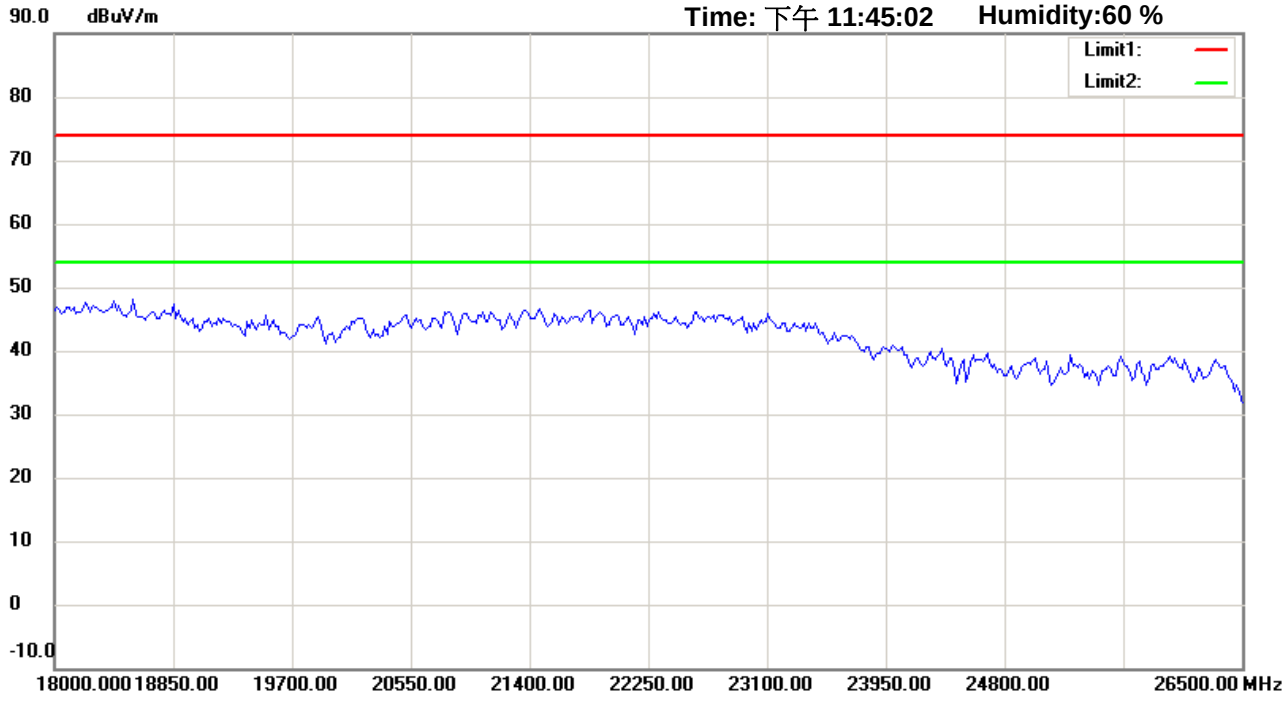
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3 **Data :#10** **Date: 2014/10/8** **Temperature:24 ℃**

Time: 下午 11:45:02 **Humidity:60 %**



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK **Polarization: *Vertical***

EUT : W6M21312-13727 **Power : 120 Va.c.**

M/N: MA-505 **Distance: 3m**

Test Mode : 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

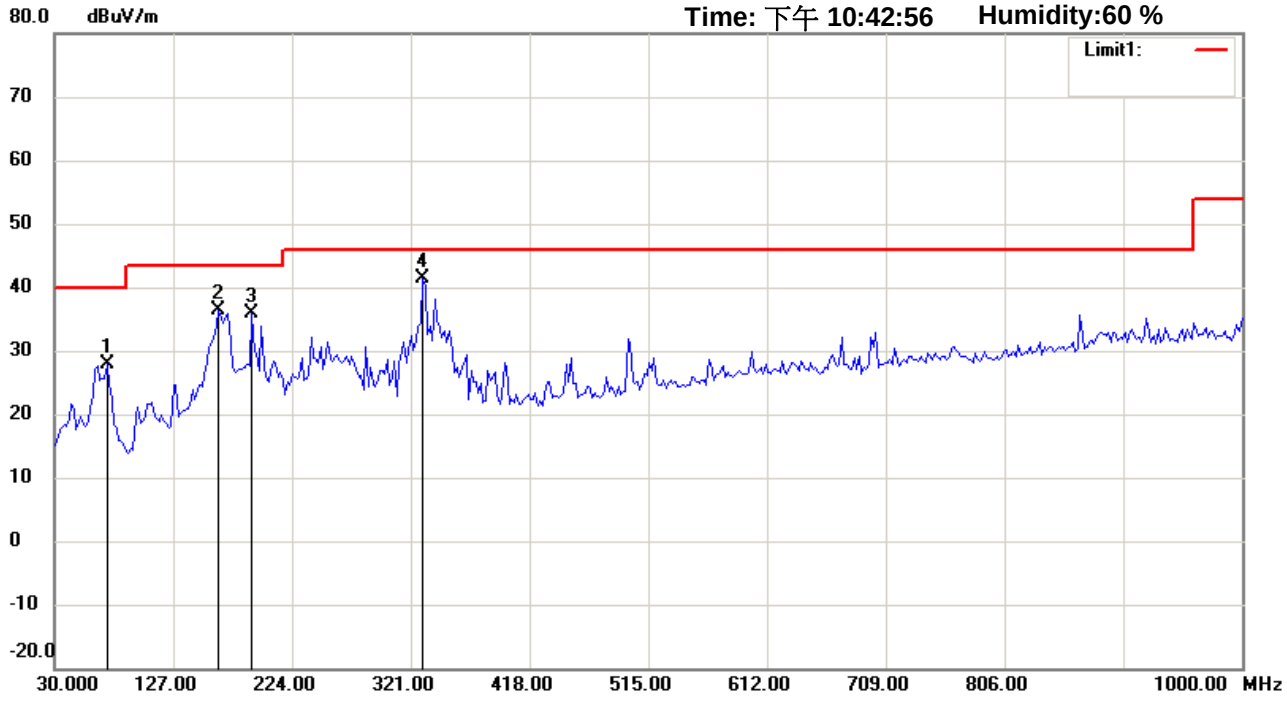
***:Maximum data x:Over limit !:over margin**

Spurious Emissions radiated _RX

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon
File :1 Data :#3 Date: 2014/10/8 Temperature:24 ℃
Time: 下午 10:42:56 Humidity:60 %



Site : Chamber
Condition : FCC_part 15 RE-Class B_30-1000MHz
EUT : W6M21312-13727
M/N: MA-505
Test Mode : 2402MHz
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
	72.7655	16.91	peak	10.98	27.89	40.00	100	130	-12.11	
	164.1283	21.26	peak	15.15	36.41	43.50	100	155	-7.09	
	191.3427	23.66	peak	12.34	36.00	43.50	100	170	-7.50	
*	331.3026	24.68	peak	16.80	41.48	46.00	100	90	-4.52	

*:Maximum data x:Over limit !:over margin

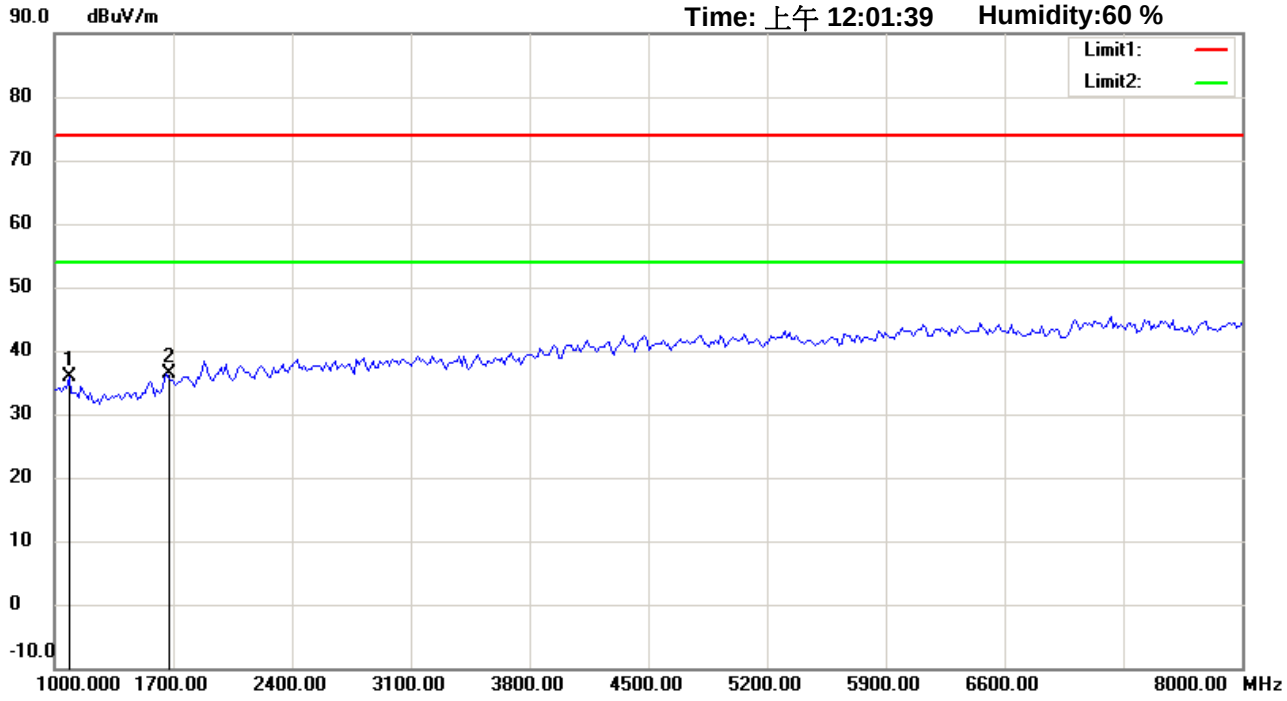
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3 Data :#1 Date: 2014/10/9 Time: 上午 12:01:39

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21312-13727

Power : 120 Va.c.

M/N: MA-505

Distance: 3m

Test Mode : 2402MHz

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
	1084.168	44.55	peak	-8.67	35.88	74.00	100	135	-38.12	
*	1659.319	44.19	peak	-7.69	36.50	74.00	100	90	-37.50	

*:Maximum data x:Over limit !:over margin

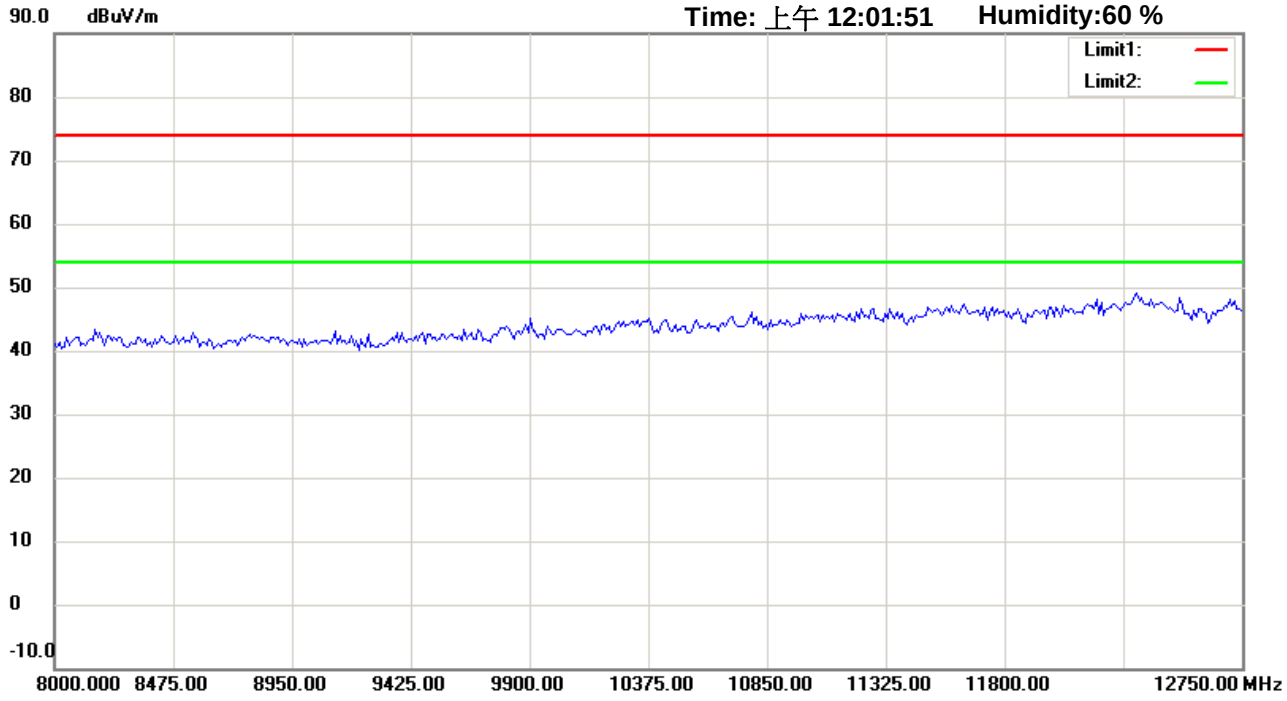
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3 Data :#2 Date: 2014/10/9 Time: 上午 12:01:51

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21312-13727

Power : 120 Va.c.

M/N: MA-505

Distance: 3m

Test Mode : 2402MHz

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

*:Maximum data x:Over limit !:over margin

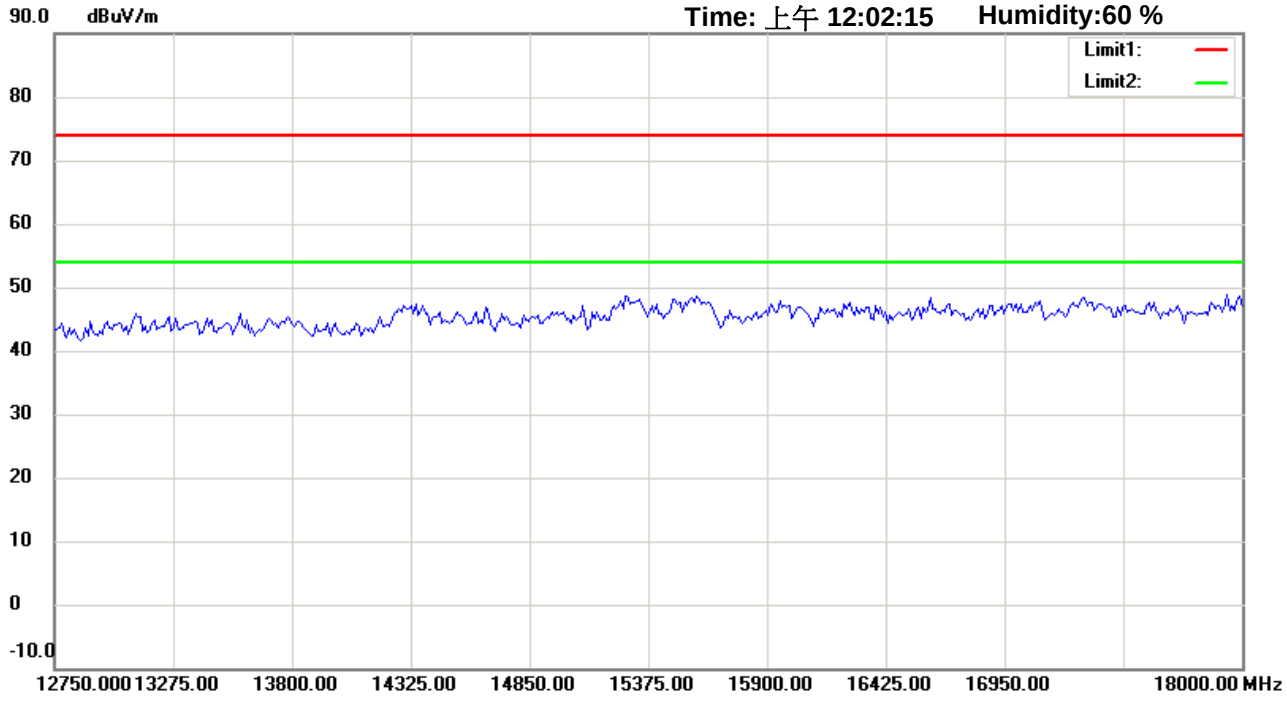
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3 Data :#3 Date: 2014/10/9 Time: 上午 12:02:15

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_Above 1GHz_PK

EUT : W6M21312-13727

M/N: MA-505

Test Mode : 2402MHz

Note :

Polarization: *Horizontal*

Power : 120 Va.c.

Distance: 3m

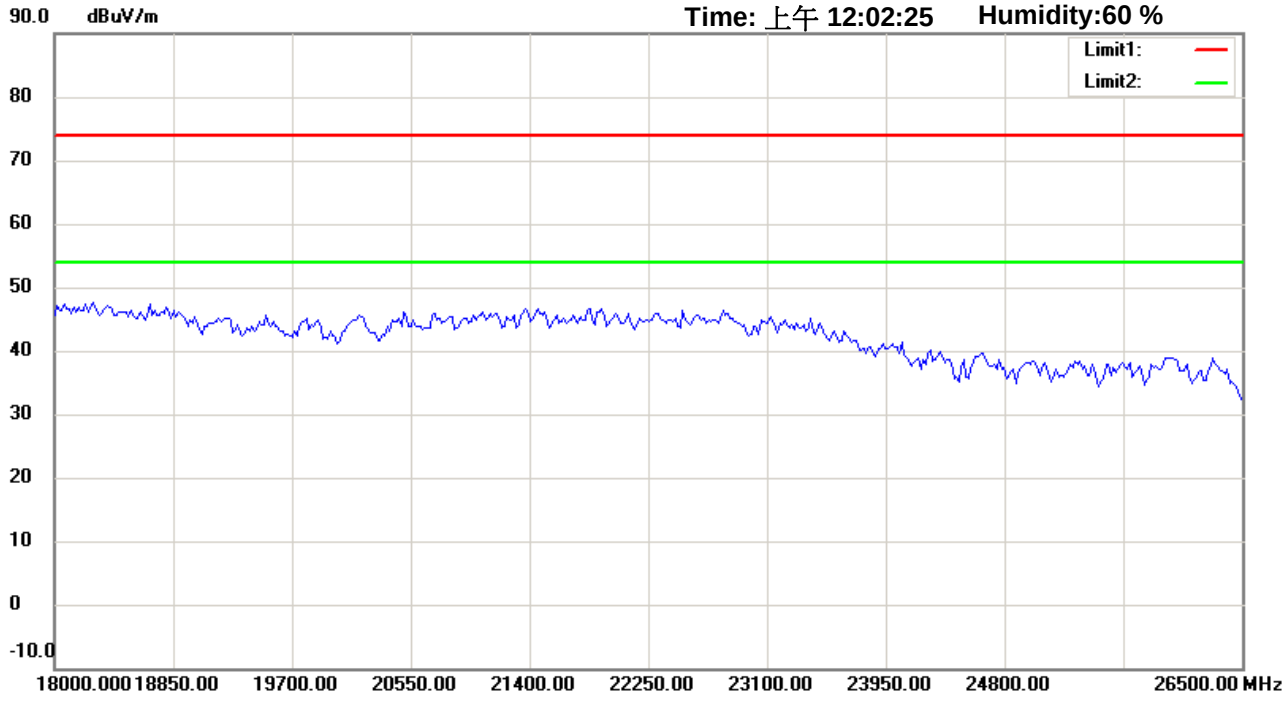
Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment

*:Maximum data x:Over limit !:over margin

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon
File :3 Data :#4 Date: 2014/10/9 Temperature:24 ℃
Time: 上午 12:02:25 Humidity:60 %



Site : Chamber
Condition : FCC_part 15 RE-Class B_Above 1GHz_PK
EUT : W6M21312-13727
M/N: MA-505
Test Mode : 2402MHz
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

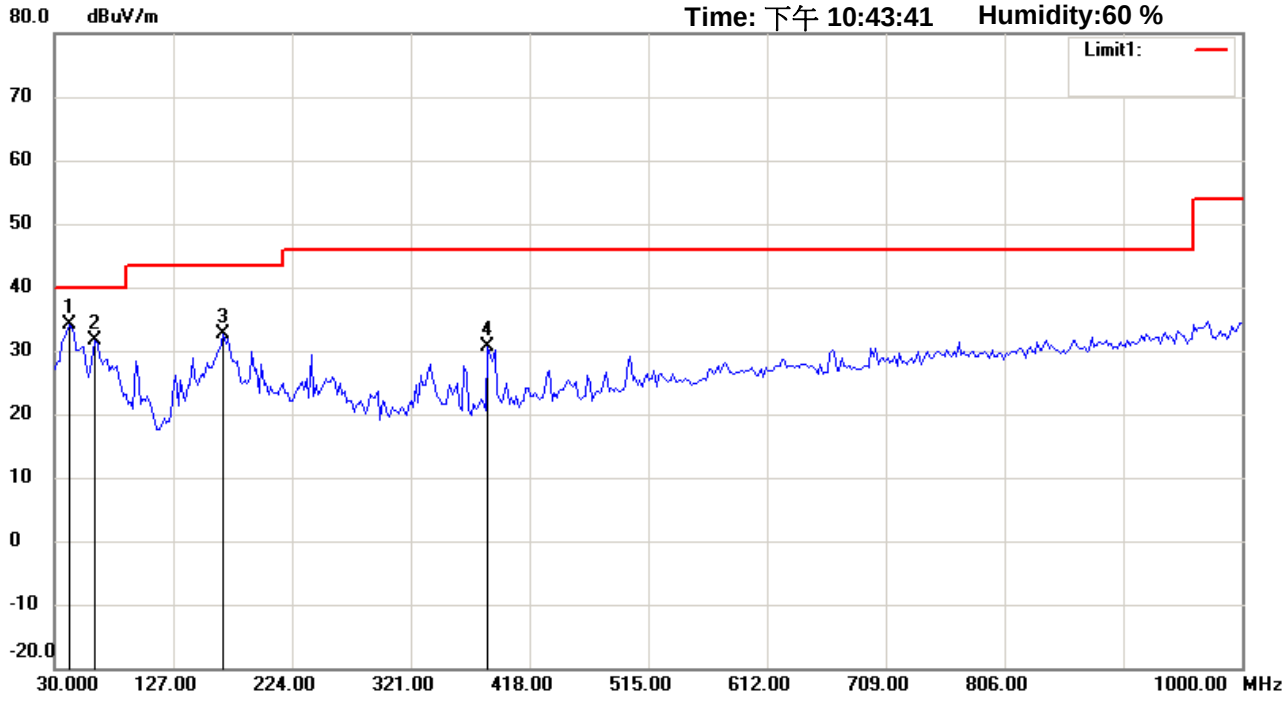
*:Maximum data x:Over limit !:over margin

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :1 Data :#4 Date: 2014/10/8 Time: 下午 10:43:41 Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_30-1000MHz

Polarization: *Vertical*

EUT : W6M21312-13727

Power : 120 Va.c.

M/N: MA-505

Distance: 3m

Test Mode : 2402MHz

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
*	41.6633	20.28	peak	13.93	34.21	40.00	100	55	-5.79	
	63.0461	18.93	peak	12.79	31.72	40.00	100	75	-8.28	
	168.0160	17.78	peak	14.91	32.69	43.50	100	120	-10.81	
	383.7876	12.26	peak	18.26	30.52	46.00	100	165	-15.48	

*:Maximum data x:Over limit !:over margin

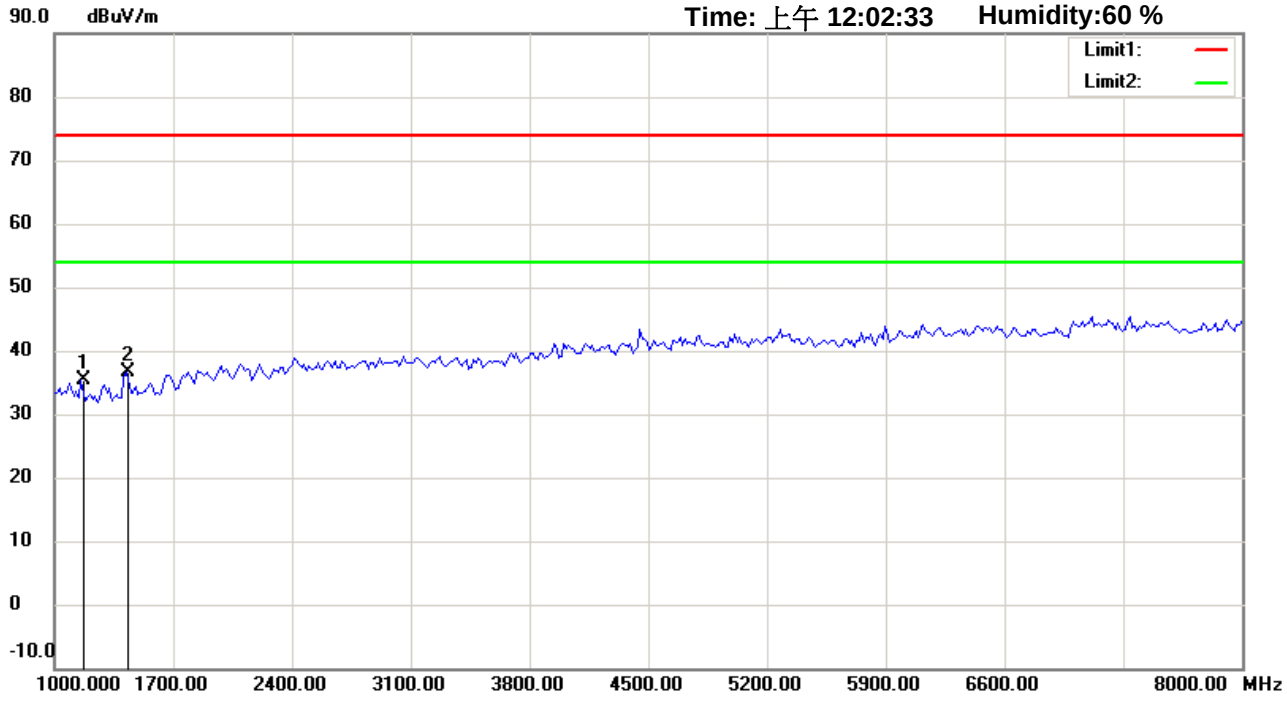
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3 Data :#5 Date: 2014/10/9 Time: 上午 12:02:33

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21312-13727

Power : 120 Va.c.

M/N: MA-505

Distance: 3m

Test Mode : 2402MHz

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
	1154.309	44.56	peak	-9.25	35.31	74.00	100	130	-38.69	
*	1420.842	45.89	peak	-9.29	36.60	74.00	100	65	-37.40	

*:Maximum data x:Over limit !:over margin

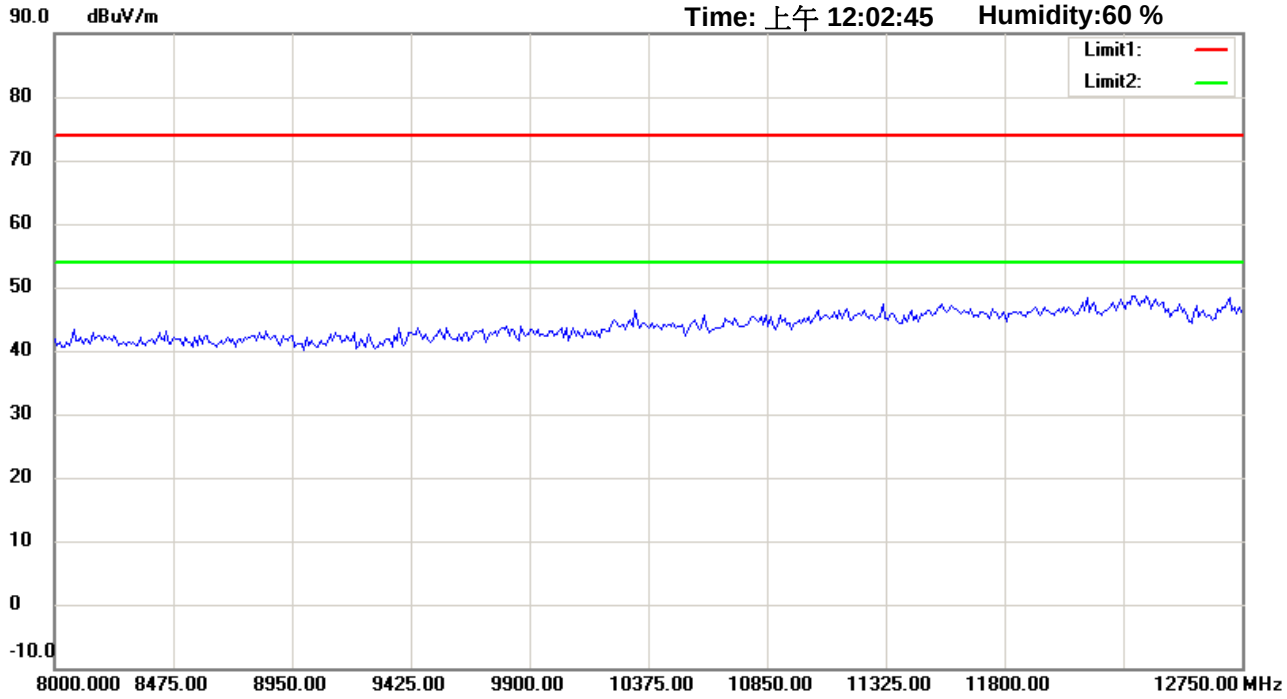
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3 Data :#6 Date: 2014/10/9 Time: 上午 12:02:45

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21312-13727

Power : 120 Va.c.

M/N: MA-505

Distance: 3m

Test Mode : 2402MHz

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

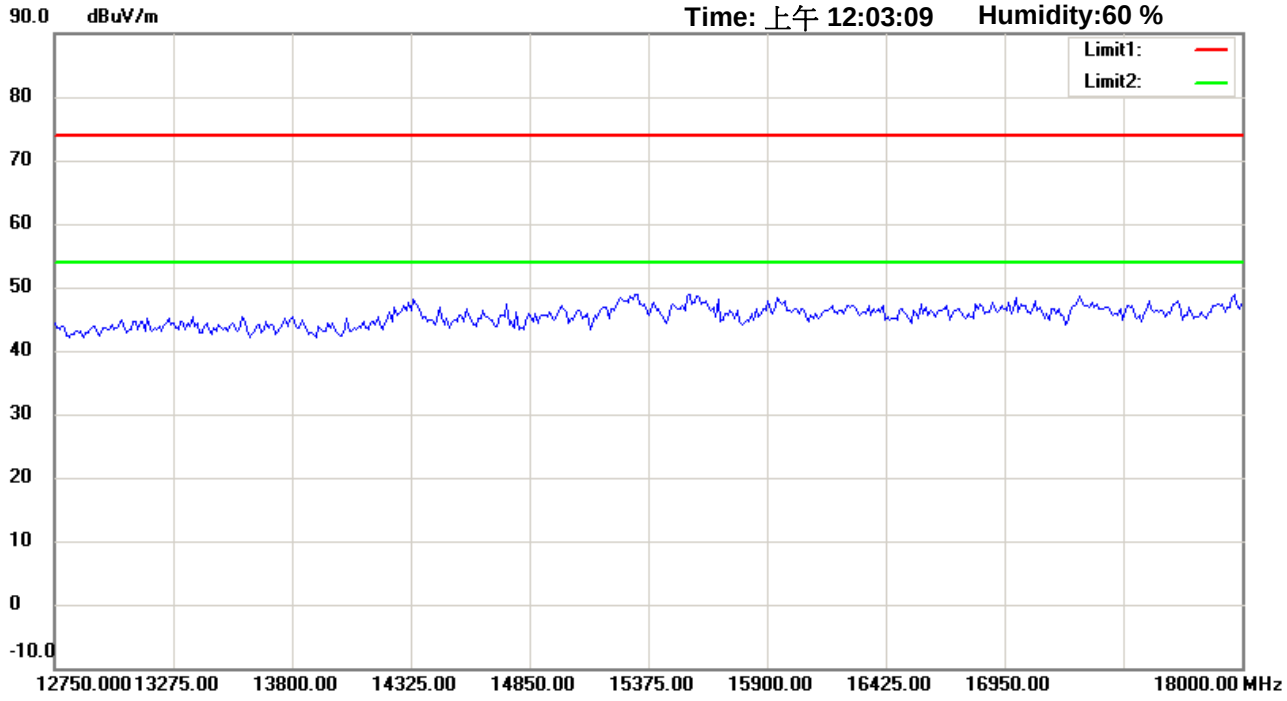
*:Maximum data x:Over limit !:over margin

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3 Data :#7 Date: 2014/10/9 Time: 上午 12:03:09 Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21312-13727

Power : 120 Va.c.

M/N: MA-505

Distance: 3m

Test Mode : 2402MHz

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

*:Maximum data x:Over limit !:over margin

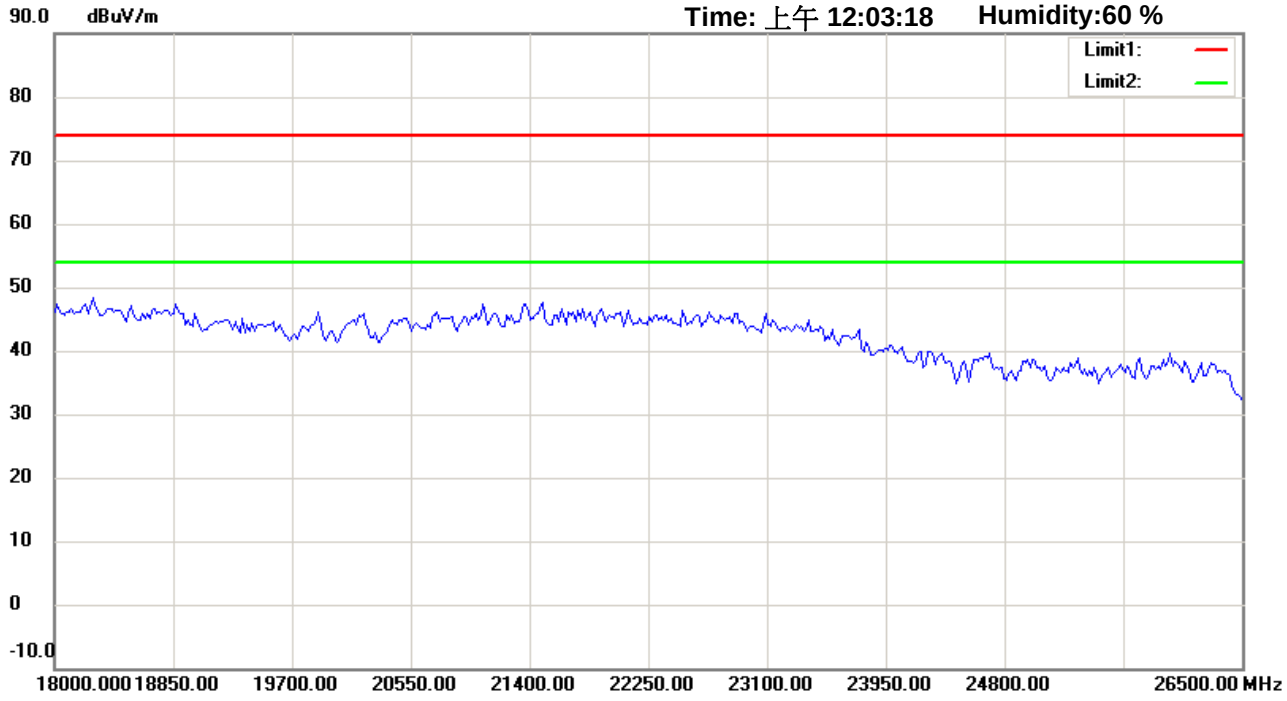
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3 Data :#8 Date: 2014/10/9 Time: 上午 12:03:18

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_Above 1GHz_PK

EUT : W6M21312-13727

M/N: MA-505

Test Mode : 2402MHz

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

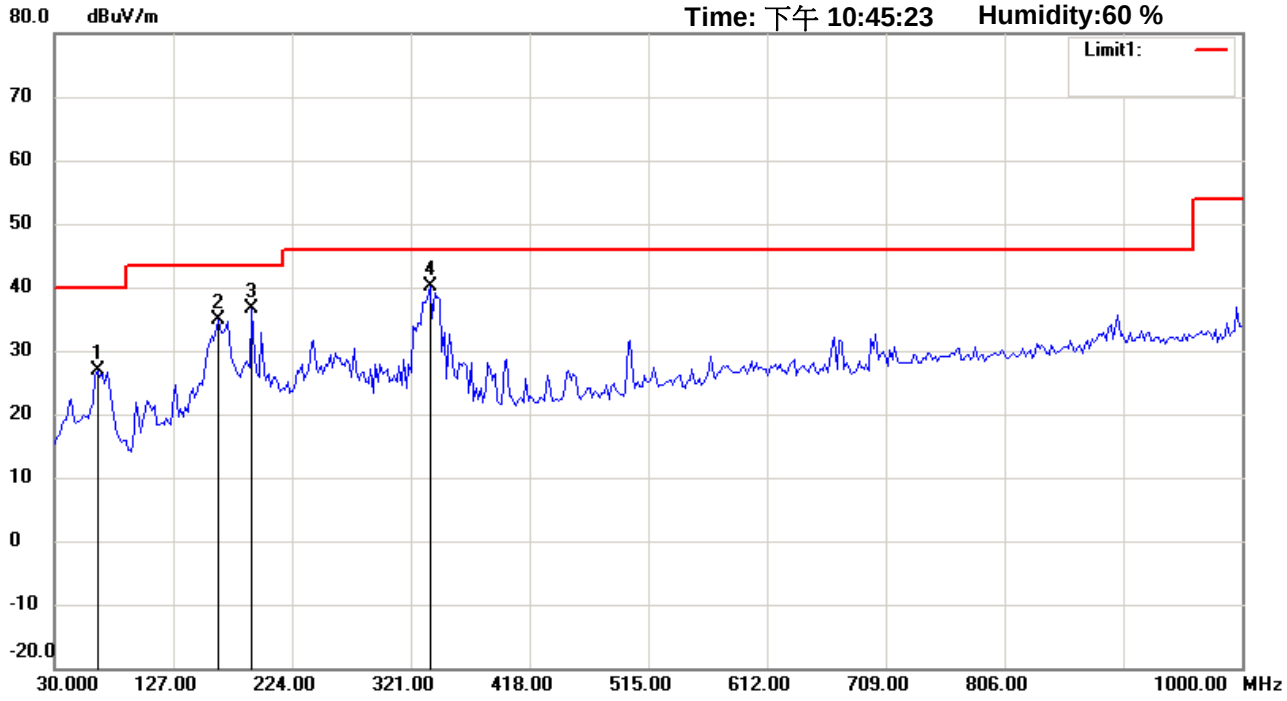
*:Maximum data x:Over limit !:over margin

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :1 Data :#1 Date: 2014/10/8 Time: 下午 10:45:23 Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_30-1000MHz

EUT : W6M21312-13727

M/N: MA-505

Test Mode : 2441MHz

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
	64.9900	14.55	peak	12.41	26.96	40.00	100	140	-13.04	
	164.1283	19.79	peak	15.15	34.94	43.50	100	80	-8.56	
	191.3427	24.20	peak	12.34	36.54	43.50	100	155	-6.96	
*	337.1343	23.23	peak	16.96	40.19	46.00	100	130	-5.81	

*:Maximum data x:Over limit !:over margin

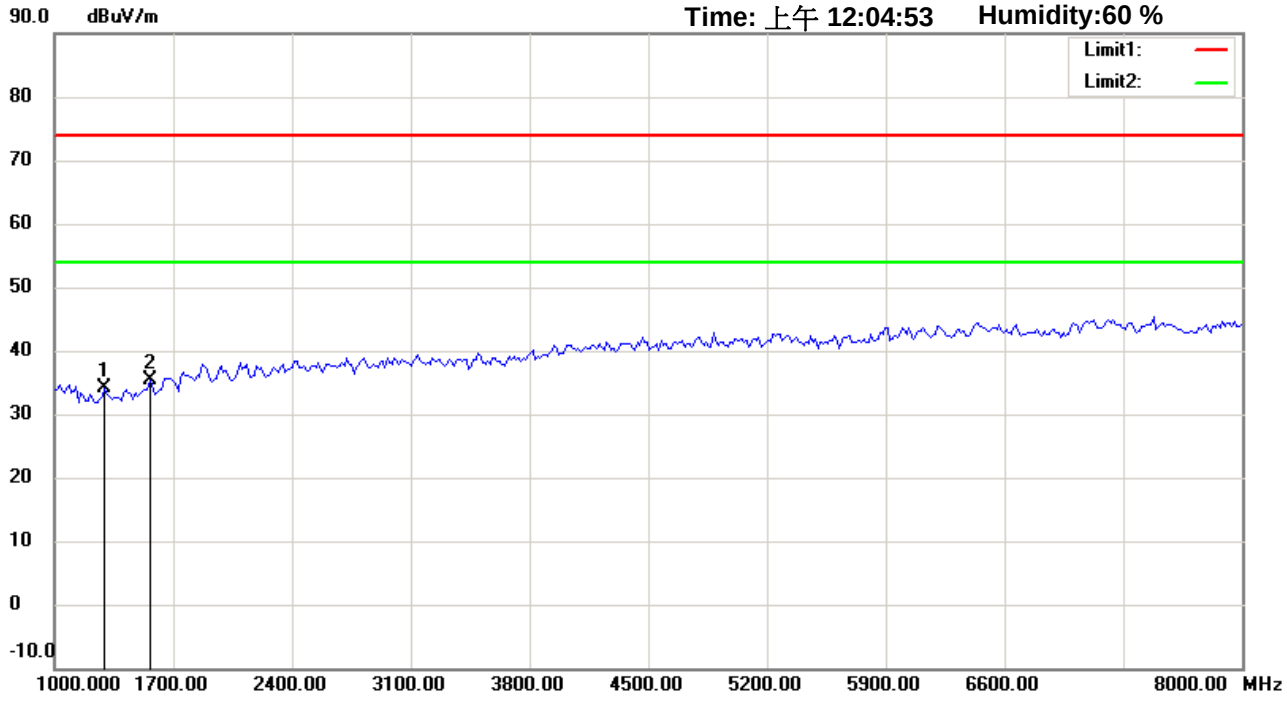
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3 Data :#1 Date: 2014/10/9 Time: 上午 12:04:53

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_Above 1GHz_PK

EUT : W6M21312-13727

M/N: MA-505

Test Mode : 2441MHz

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
	1294.589	43.18	peak	-9.16	34.02	74.00	100	170	-39.98	
*	1561.122	43.89	peak	-8.61	35.28	74.00	100	135	-38.72	

*:Maximum data x:Over limit !:over margin

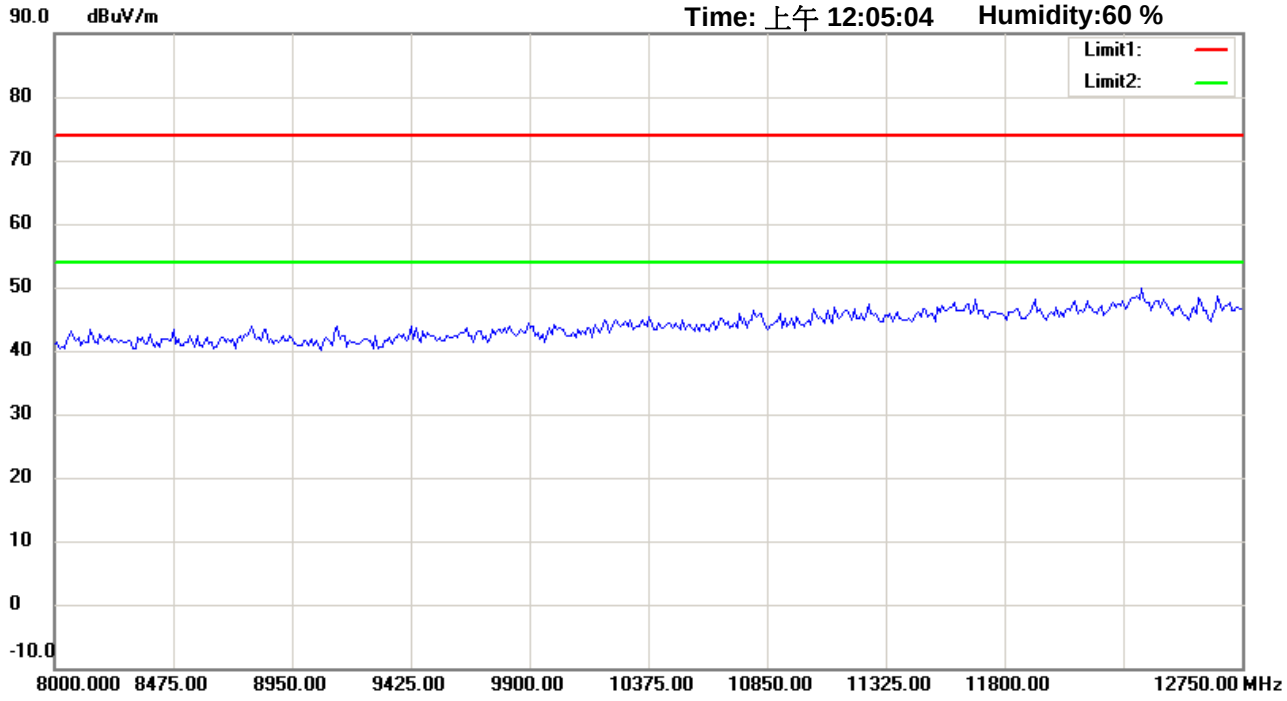
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3 Data :#2 Date: 2014/10/9 Time: 上午 12:05:04

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_Above 1GHz_PK

EUT : W6M21312-13727

M/N: MA-505

Test Mode : 2441MHz

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

*:Maximum data x:Over limit !:over margin

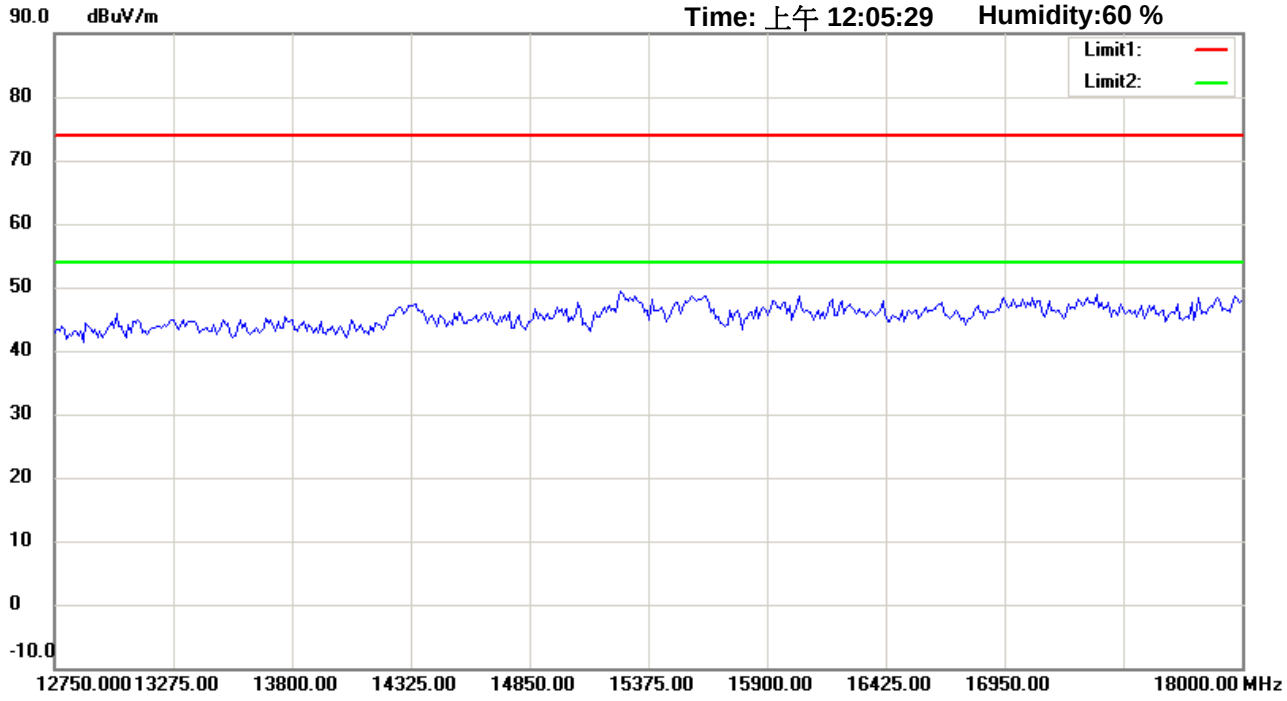
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3 Data :#3 Date: 2014/10/9 Time: 上午 12:05:29

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_Above 1GHz_PK

EUT : W6M21312-13727

M/N: MA-505

Test Mode : 2441MHz

Note :

Polarization: *Horizontal*

Power : 120 Va.c.

Distance: 3m

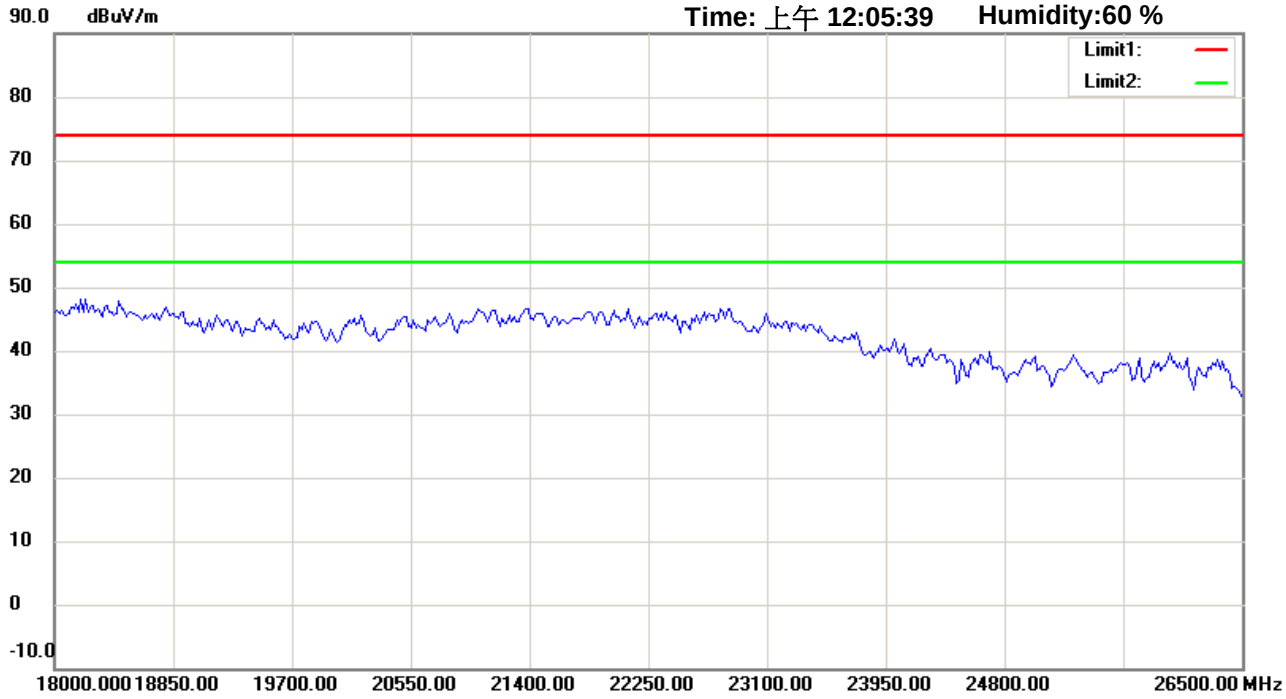
Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment

*:Maximum data x:Over limit !:over margin

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon
File :3 Data :#4 Date: 2014/10/9 Temperature:24 ℃
Time: 上午 12:05:39 Humidity:60 %



Site : Chamber
Condition : FCC_part 15 RE-Class B_Above 1GHz_PK
EUT : W6M21312-13727
M/N: MA-505
Test Mode : 2441MHz
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

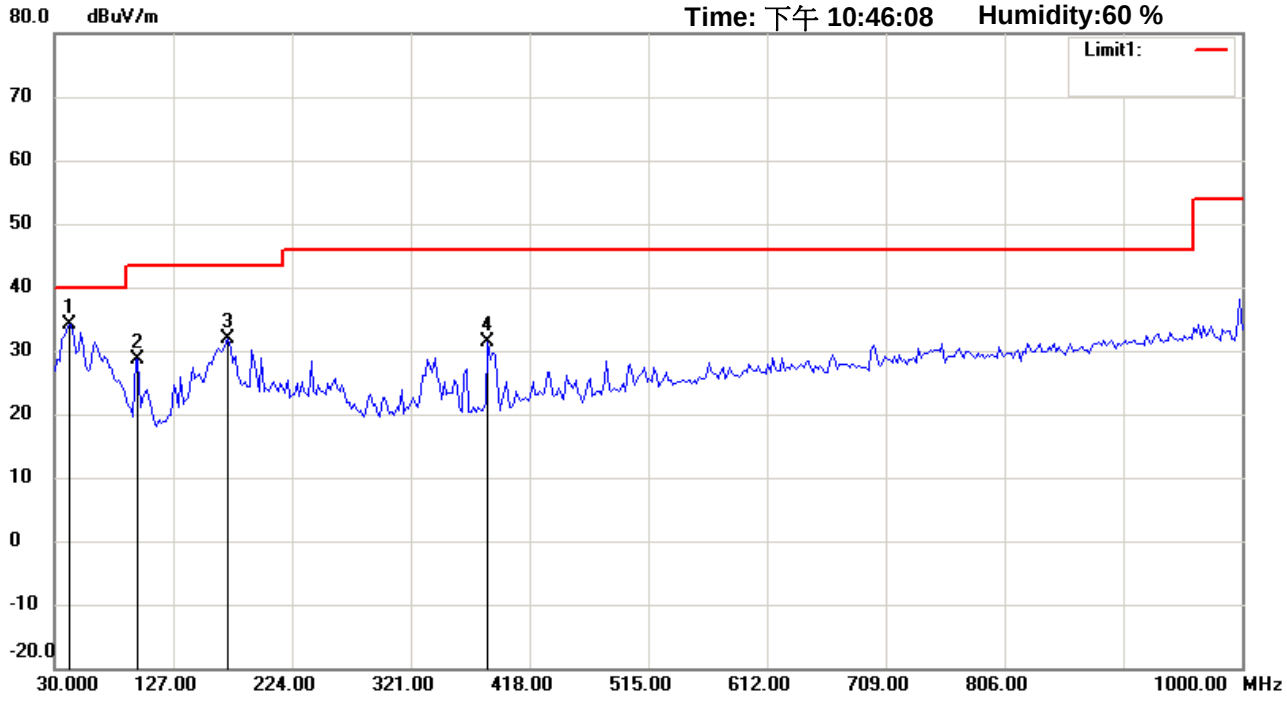
*:Maximum data x:Over limit !:over margin

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :1 Data :#2 Date: 2014/10/8 Time: 下午 10:46:08 Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_30-1000MHz

EUT : W6M21312-13727

M/N: MA-505

Test Mode : 2441MHz

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
*	41.6633	20.11	peak	13.93	34.04	40.00	100	175	-5.96	
	98.0361	18.26	peak	10.49	28.75	43.50	100	250	-14.75	
	171.9038	17.28	peak	14.58	31.86	43.50	100	80	-11.64	
	383.7876	13.24	peak	18.26	31.50	46.00	100	130	-14.50	

*:Maximum data x:Over limit !:over margin

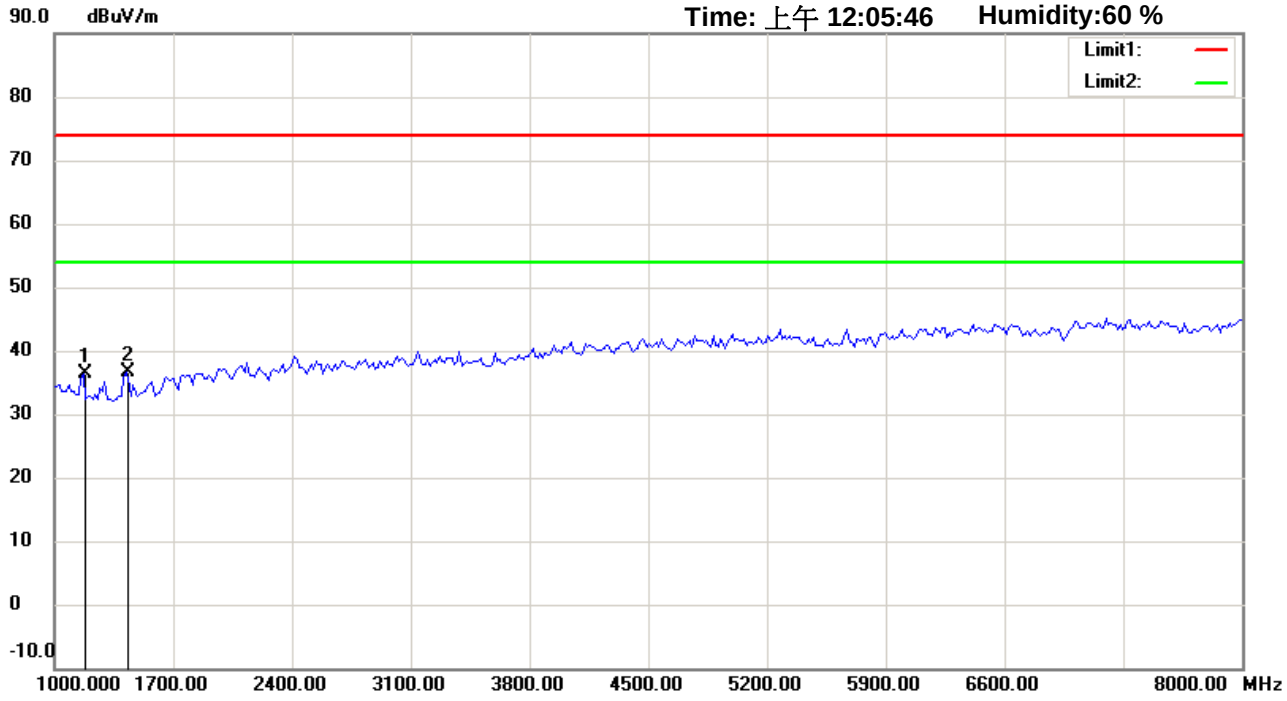
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3 Data :#5 Date: 2014/10/9 Time: 上午 12:05:46

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21312-13727

Power : 120 Va.c.

M/N: MA-505

Distance: 3m

Test Mode : 2441MHz

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
	1168.337	45.64	peak	-9.33	36.31	74.00	100	65	-37.69	
*	1420.842	45.98	peak	-9.29	36.69	74.00	100	110	-37.31	

*:Maximum data x:Over limit !:over margin

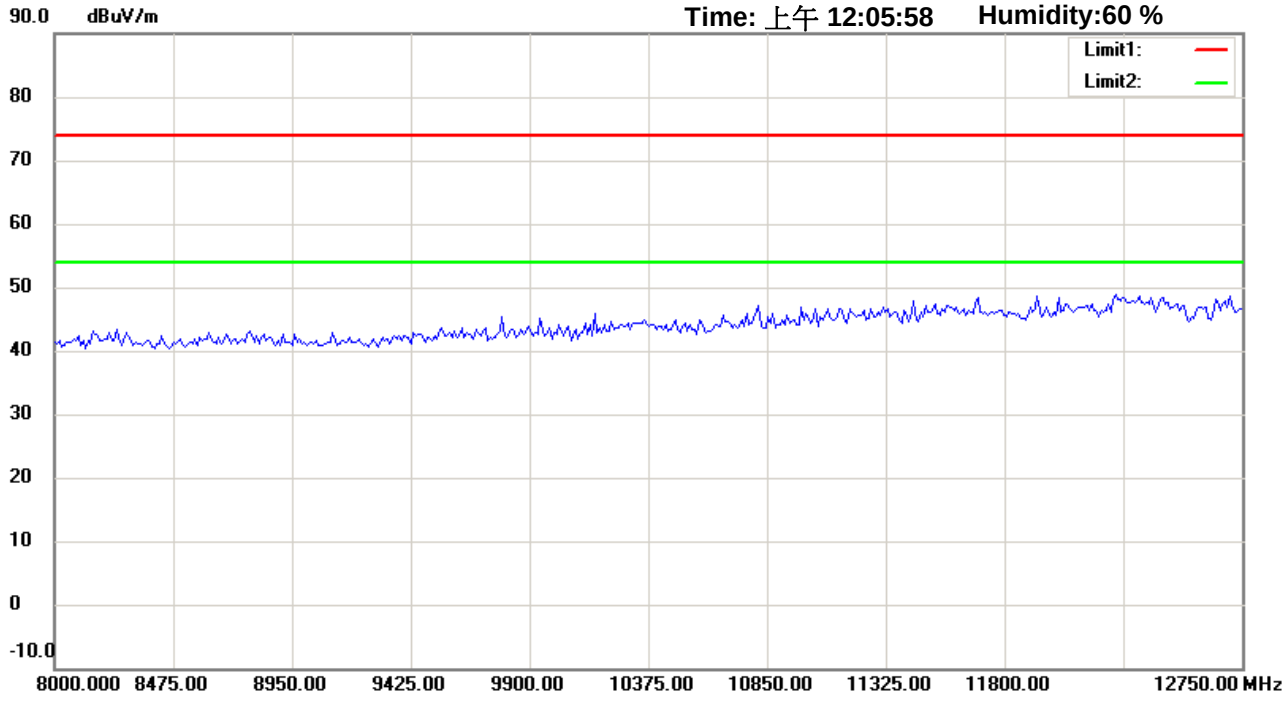
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3 Data :#6 Date: 2014/10/9 Time: 上午 12:05:58

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21312-13727

Power : 120 Va.c.

M/N: MA-505

Distance: 3m

Test Mode : 2441MHz

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

*:Maximum data x:Over limit !:over margin

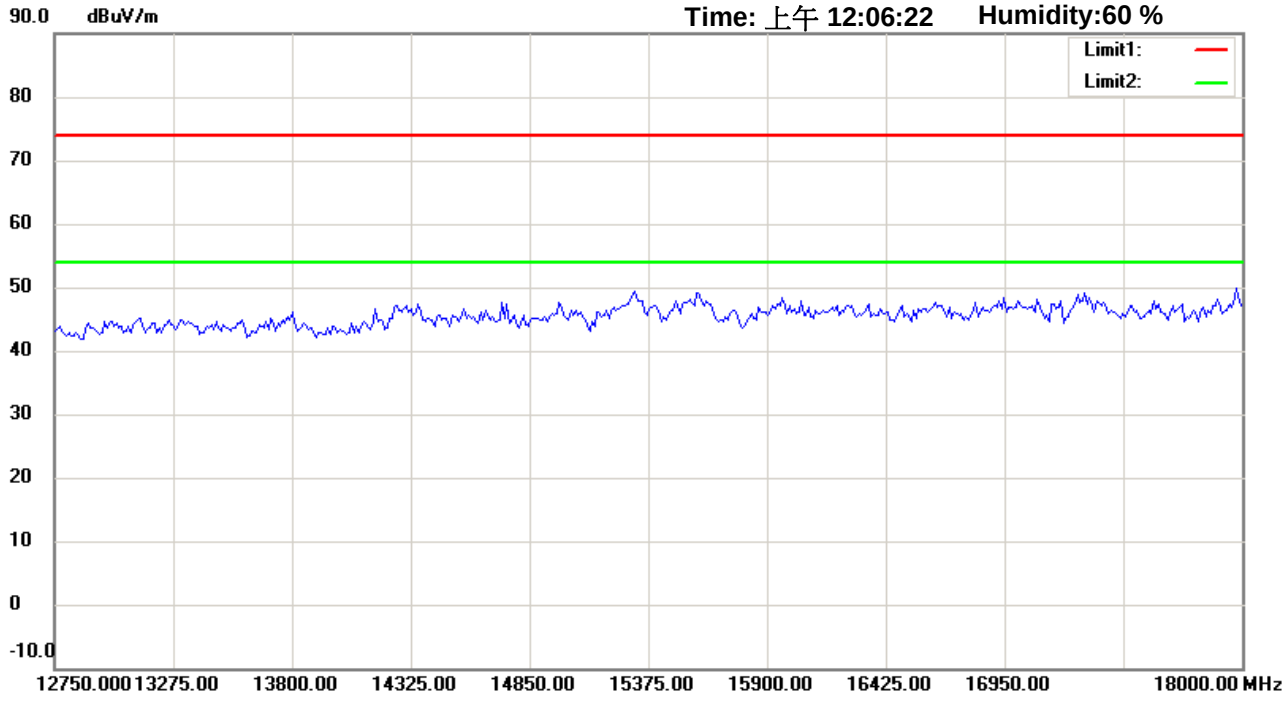
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3 Data :#7 Date: 2014/10/9 Time: 上午 12:06:22

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_Above 1GHz_PK

EUT : W6M21312-13727

M/N: MA-505

Test Mode : 2441MHz

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

*:Maximum data x:Over limit !:over margin

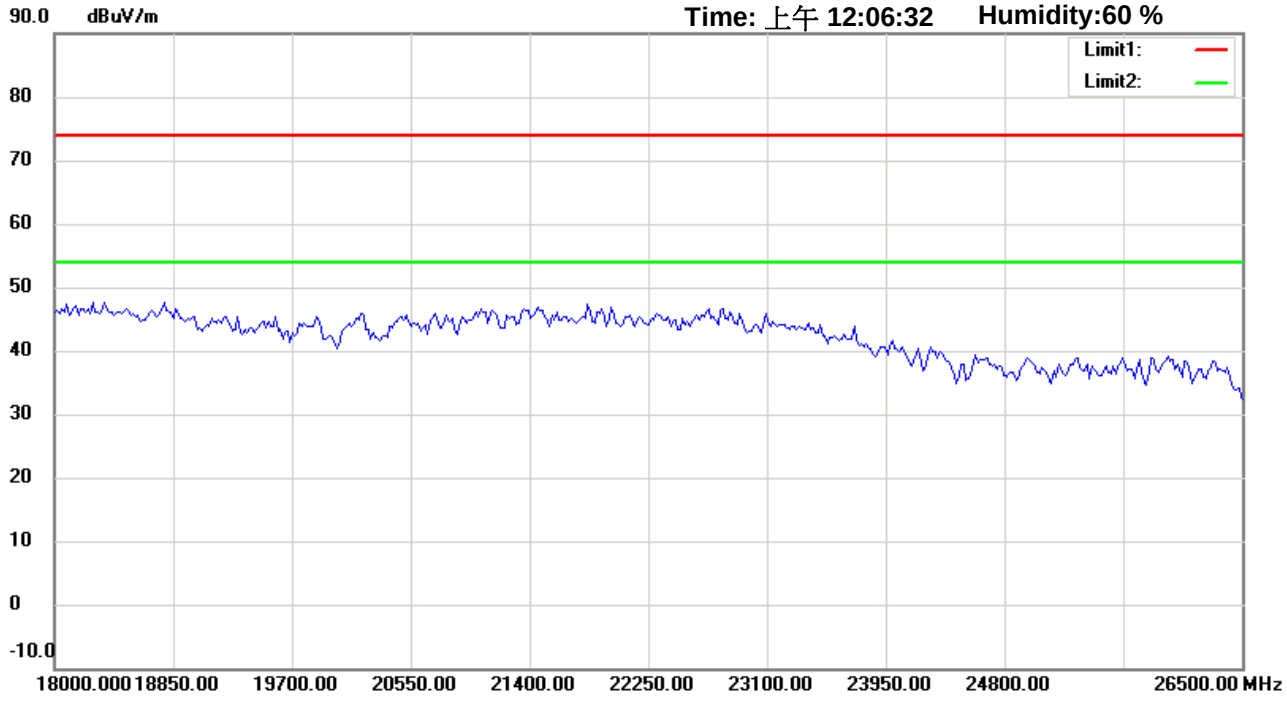
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3 Data :#8 Date: 2014/10/9 Time: 上午 12:06:32

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_Above 1GHz_PK

EUT : W6M21312-13727

M/N: MA-505

Test Mode : 2441MHz

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

*:Maximum data x:Over limit !:over margin

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
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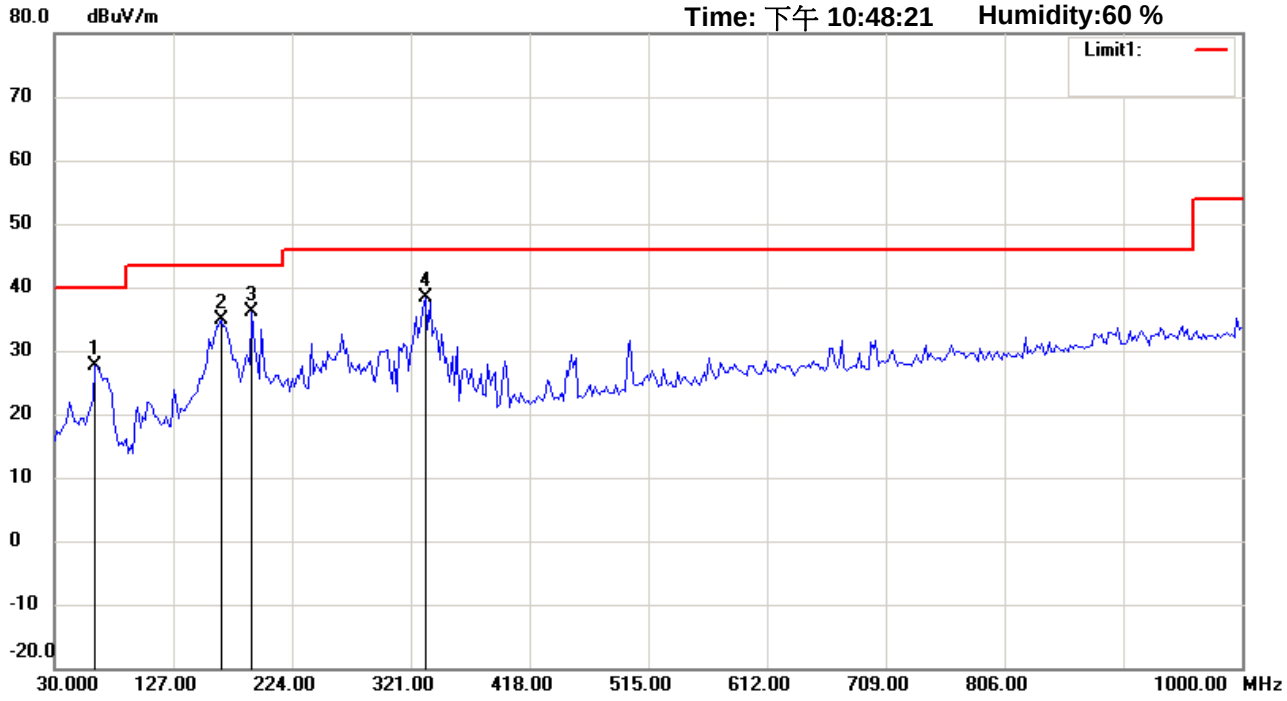
Radiated Emission Measurement

Operator: Leon

File :1 Data :#1 Date: 2014/10/8 Time: 下午 10:48:21 Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_30-1000MHz

EUT : W6M21312-13727

M/N: MA-505

Test Mode : 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
	63.0461	14.80	peak	12.79	27.59	40.00	100	90	-12.41	
	166.0721	19.77	peak	15.03	34.80	43.50	100	160	-8.70	
*	191.3427	23.72	peak	12.34	36.06	43.50	100	75	-7.44	
	333.2465	21.47	peak	16.85	38.32	46.00	100	50	-7.68	

*:Maximum data x:Over limit !:over margin

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
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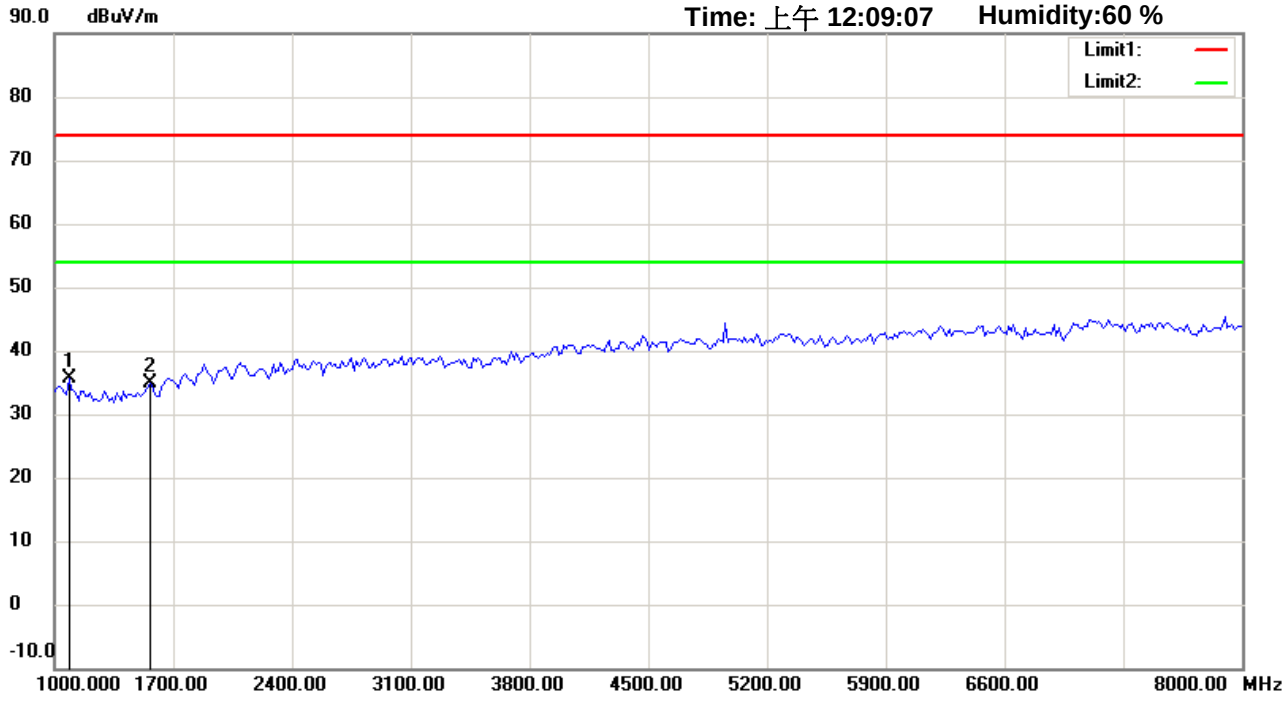
Radiated Emission Measurement

Operator: Leon

File :3 Data :#1 Date: 2014/10/9 Time: 上午 12:09:07

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_Above 1GHz_PK

EUT : W6M21312-13727

M/N: MA-505

Test Mode : 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
*	1084.168	44.38	peak	-8.67	35.71	74.00	100	35	-38.29	
	1561.122	43.50	peak	-8.61	34.89	74.00	100	110	-39.11	

*:Maximum data x:Over limit !:over margin

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
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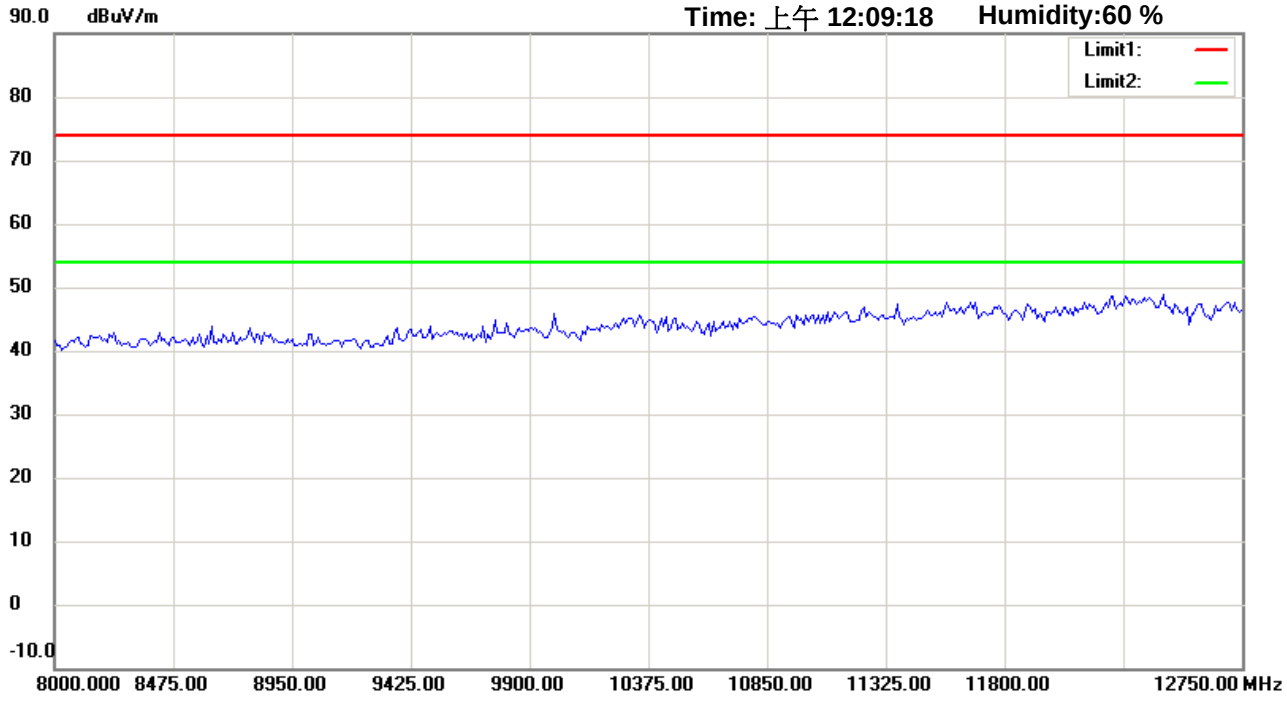
Radiated Emission Measurement

Operator: Leon

File :3 Data :#2 Date: 2014/10/9 Time: 上午 12:09:18

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_Above 1GHz_PK

EUT : W6M21312-13727

M/N: MA-505

Test Mode : 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

*:Maximum data x:Over limit !:over margin

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
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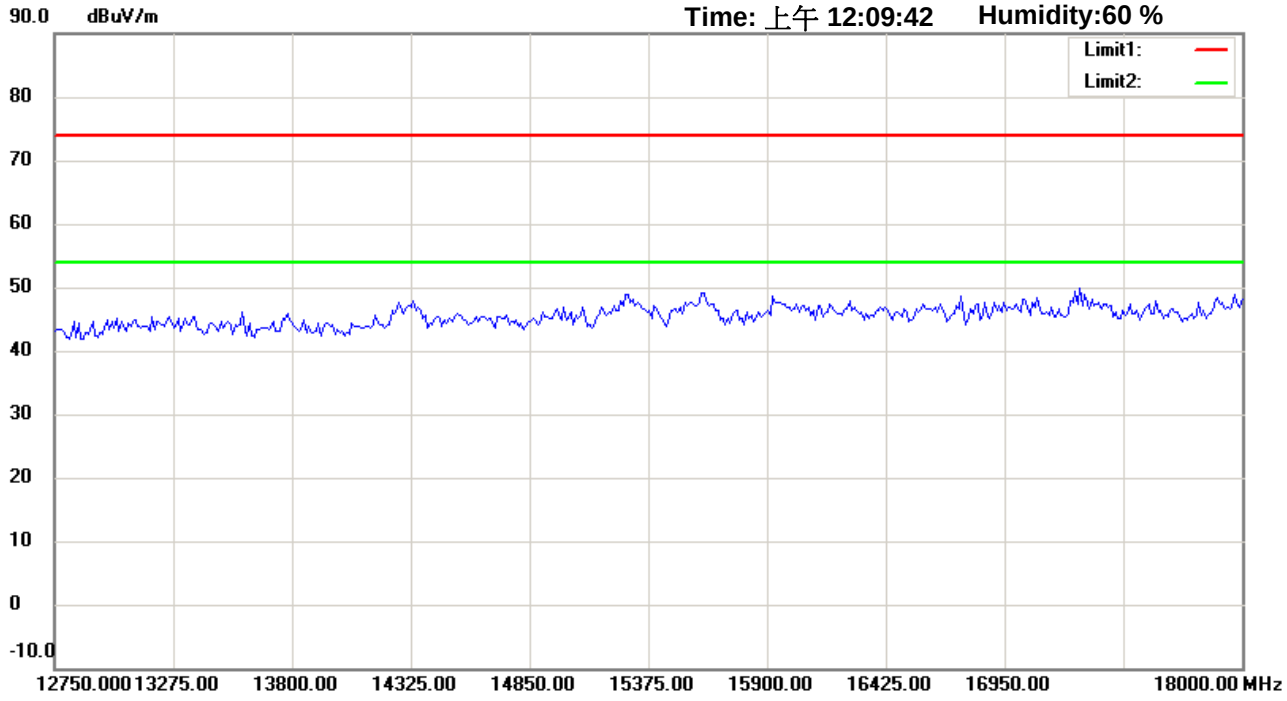
Radiated Emission Measurement

Operator: Leon

File :3 Data :#3 Date: 2014/10/9 Time: 上午 12:09:42

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_Above 1GHz_PK

EUT : W6M21312-13727

M/N: MA-505

Test Mode : 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

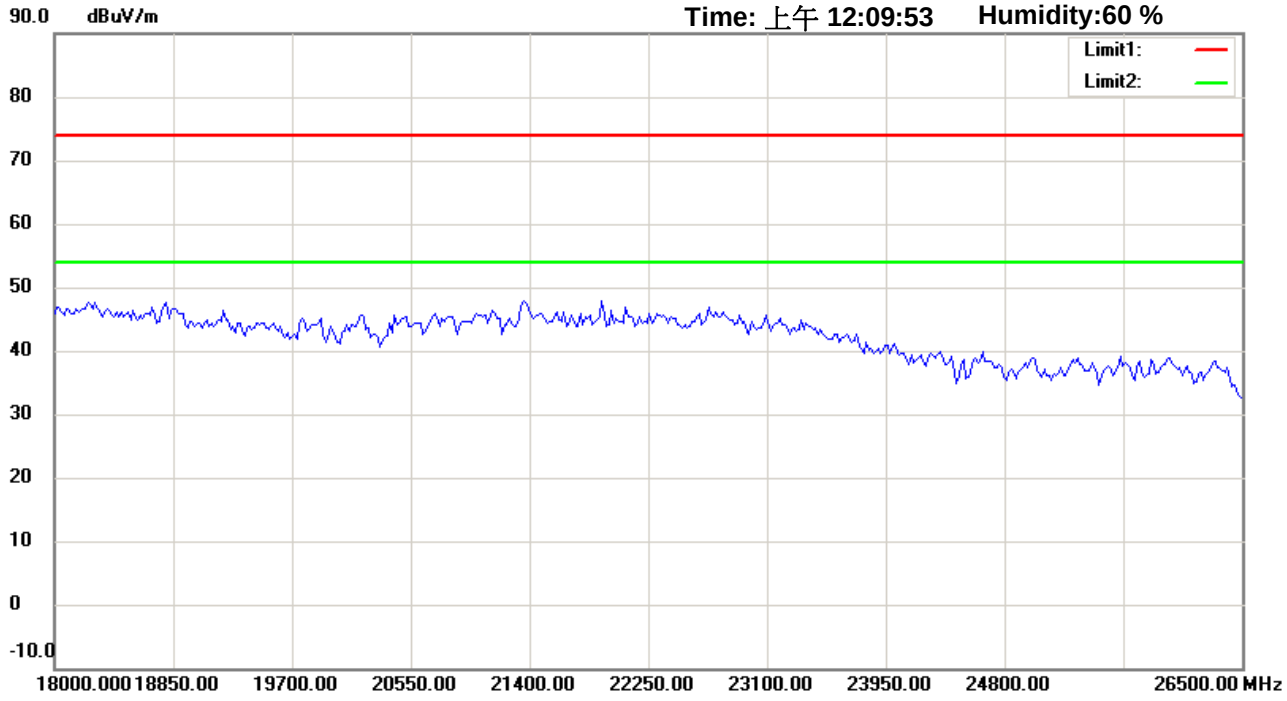
*:Maximum data x:Over limit !:over margin

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3 Data :#4 Date: 2014/10/9 Time: 上午 12:09:53 Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_Above 1GHz_PK

EUT : W6M21312-13727

M/N: MA-505

Test Mode : 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

*:Maximum data x:Over limit !:over margin

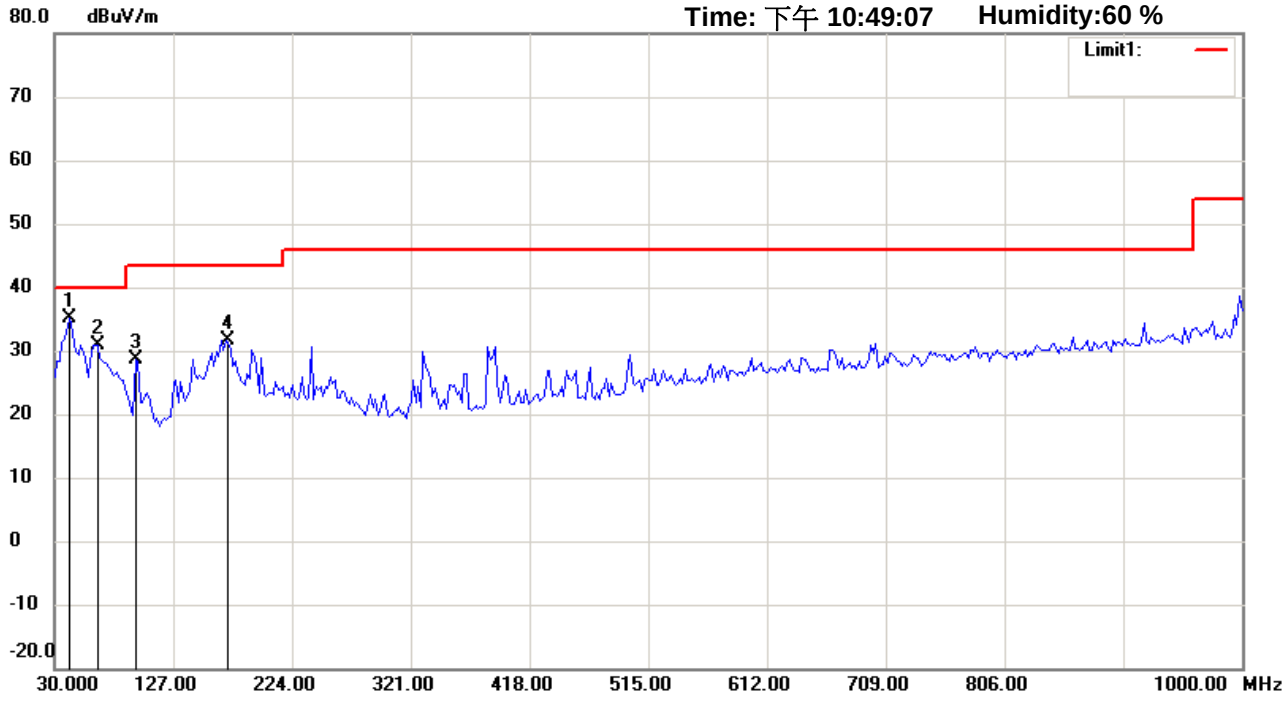
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :1 Data :#2 Date: 2014/10/8 Time: 下午 10:49:07

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_30-1000MHz

Polarization: *Vertical*

EUT : W6M21312-13727

Power : 120 Va.c.

M/N: MA-505

Distance: 3m

Test Mode : 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
*	41.6633	21.24	peak	13.93	35.17	40.00	100	125	-4.83	
	64.9900	18.46	peak	12.41	30.87	40.00	100	95	-9.13	
	96.0922	18.54	peak	10.09	28.63	43.50	100	130	-14.87	
	169.9600	16.92	peak	14.79	31.71	43.50	100	110	-11.79	

*:Maximum data x:Over limit !:over margin

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
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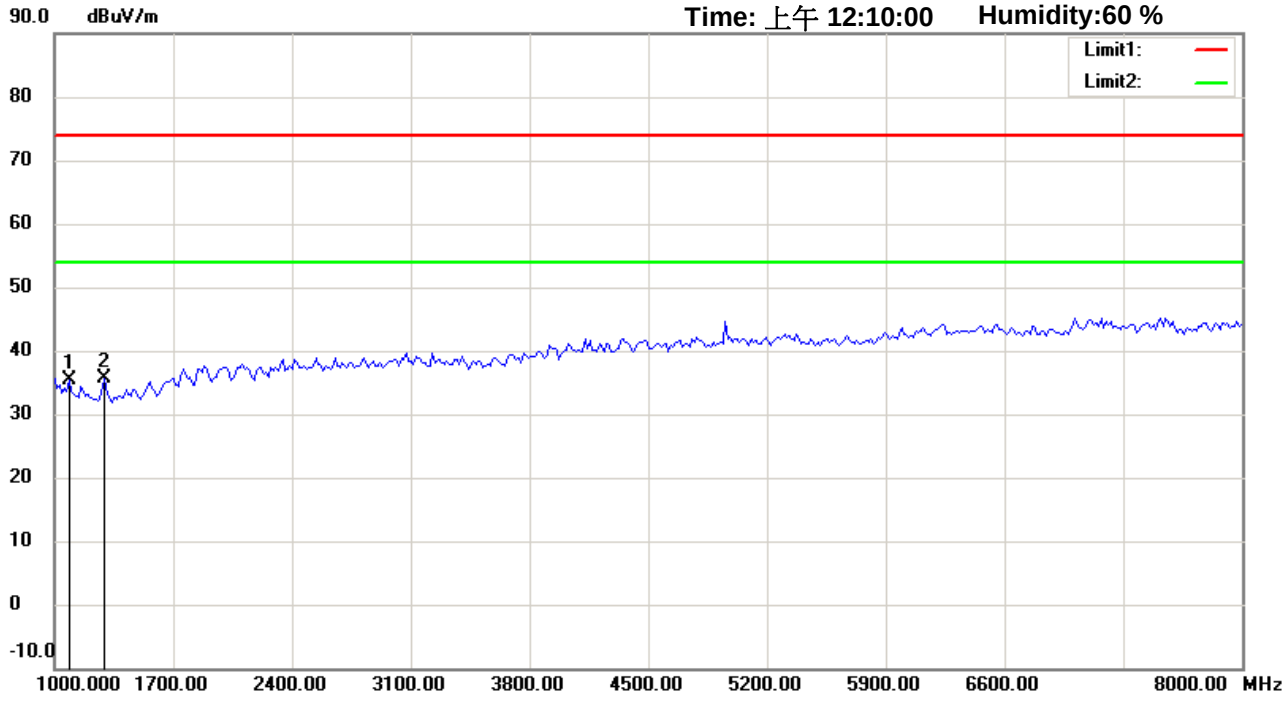
Radiated Emission Measurement

Operator: Leon

File :3 Data :#5 Date: 2014/10/9 Time: 上午 12:10:00

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21312-13727

Power : 120 Va.c.

M/N: MA-505

Distance: 3m

Test Mode : 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
	1084.168	44.04	peak	-8.67	35.37	74.00	100	110	-38.63	
*	1294.589	44.85	peak	-9.16	35.69	74.00	100	235	-38.31	

*:Maximum data x:Over limit !:over margin

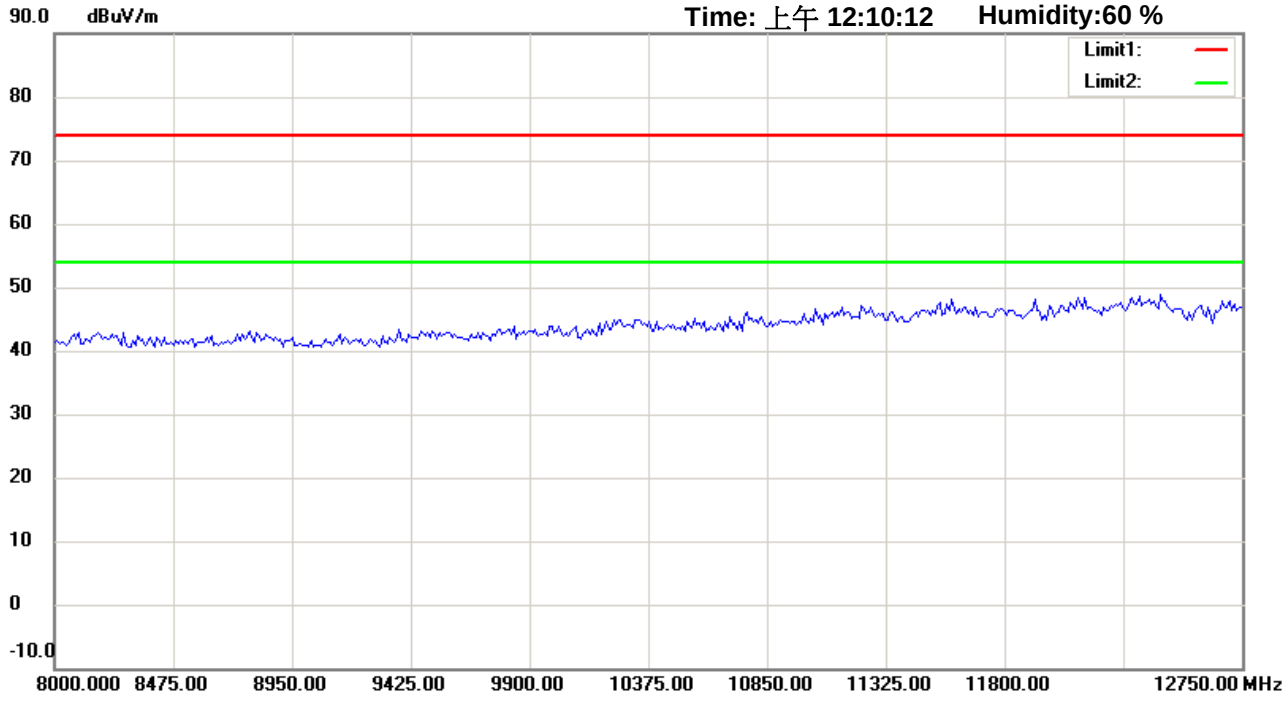
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3 Data :#6 Date: 2014/10/9 Time: 上午 12:10:12

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21312-13727

Power : 120 Va.c.

M/N: MA-505

Distance: 3m

Test Mode : 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

*:Maximum data x:Over limit !:over margin

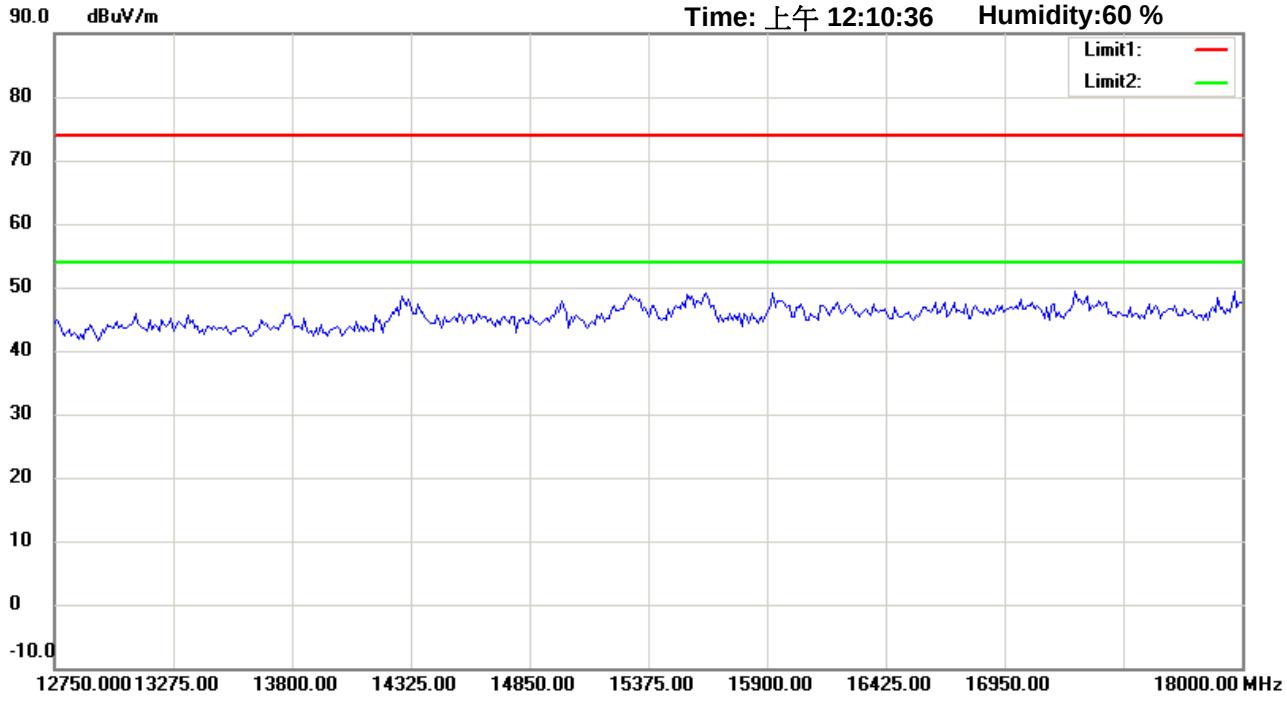
Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3 Data :#7 Date: 2014/10/9 Temperature:24 ℃

Time: 上午 12:10:36 Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21312-13727

Power : 120 Va.c.

M/N: MA-505

Distance: 3m

Test Mode : 2480MHz

Note :

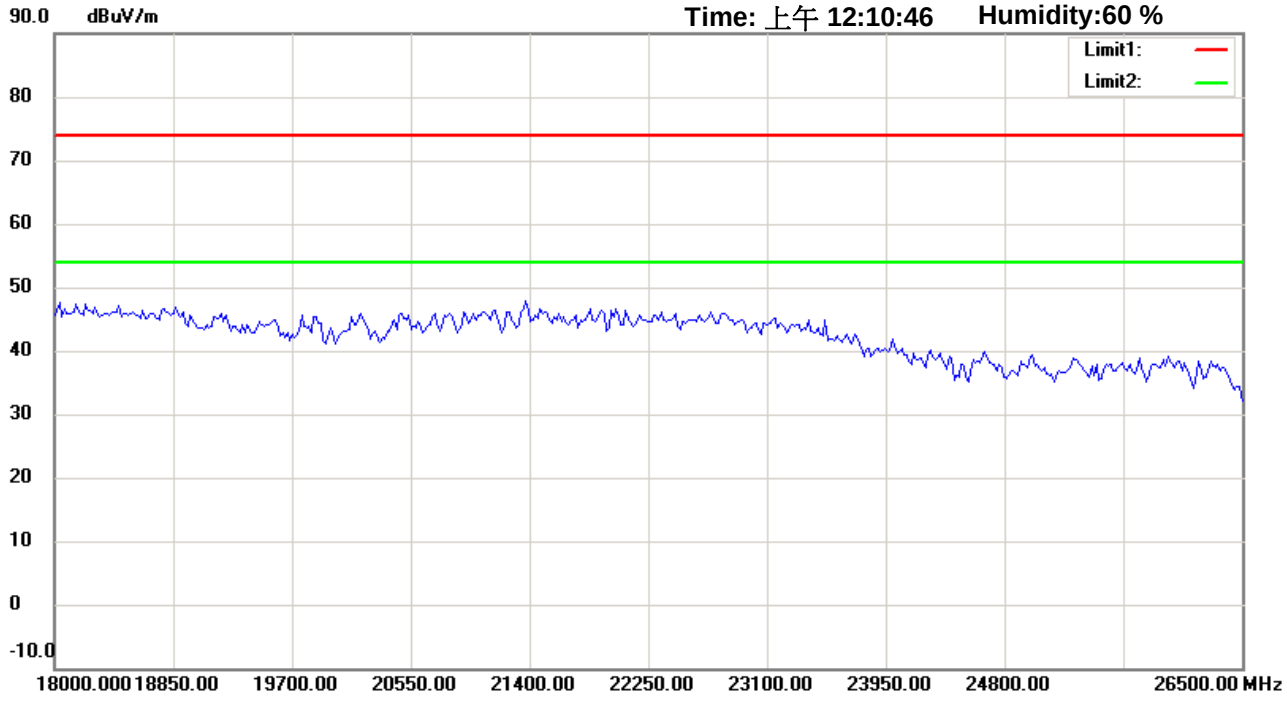
Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment

*:Maximum data x:Over limit !:over margin

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon
File :3 Data :#8 Date: 2014/10/9 Temperature:24 ℃
Time: 上午 12:10:46 Humidity:60 %



Site : Chamber
Condition : FCC_part 15 RE-Class B_Above 1GHz_PK
EUT : W6M21312-13727
M/N: MA-505
Test Mode : 2480MHz
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

*:Maximum data x:Over limit !:over margin