

FCC PART 74 / IC RSS-210 TEST REPORT

for

Transmitter

Model No.: ACT-70HC

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

of

Applicant: MIPRO Electronics Co., Ltd.

Address: 814 Pei-kang Road 600 Chia-yi Taiwan, R.O.C

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: 930600

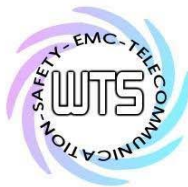
Industry Canada filed test laboratory Reg. No. IC 5679A-1, IC 5107A-1

A2LA Accredited No.: 2732.01



Report No.: W6M21405-14185-C-1

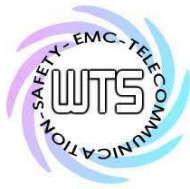
6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.
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Registration number: W6M21405-14185-C-1
FCC ID: M5X-ACT70HC
IC: 2978A-ACT70HC

TABLE OF CONTENTS

1	GENERAL INFORMATION.....	3
1.1	NOTES.....	3
1.2	TESTING LABORATORY	4
1.2.1	Location	4
1.2.2	Details of accreditation status	4
1.3	DETAILS OF APPROVAL HOLDER.....	5
1.4	APPLICATION DETAILS	5
1.5	GENERAL INFORMATION OF TEST ITEM.....	5
1.6	TEST STANDARDS.....	6
2	TECHNICAL TEST.....	7
2.1	SUMMARY OF TEST RESULTS	7
2.2	TEST ENVIRONMENT	7
2.3	TEST EQUIPMENT LIST.....	8
2.4	GENERAL TEST PROCEDURE	10
3	TEST RESULTS (ENCLOSURE)	11
4	RF POWER OUTPUT (CONDUCTED) , FCC 2.1046 (A) ; 74.861 (E)	12
4.1	TEST PROCEDURE.....	12
4.2	TEST RESULTS	12
5	RADIATED POWER.....	13
5.1	TEST PROCEDURE	13
5.2	TEST RESULTS	15
6	MODULATION DEVIATION , FCC 2.1047 (B) ; 74.861(E).....	27
6.1	TEST PROCEDURE.....	27
6.2	TEST RESULTS	27
7	AUDIO FREQUENCY RESPONSE , FCC 2.1047 (A).....	28
7.1	TEST PROCEDURE.....	28
7.2	TEST RESULTS	28
8	OCCUPIED BANDWIDTH/EMISSION MASK, FCC 2.1049 (C) ; 74.861 (E)(5)	29
8.1	TEST PROCEDURE.....	29
8.2	TEST RESULTS.....	29
8.3	LIMIT	38
9	SPURIOUS EMISSIONS AT ANTENNA TERMINALS FCC2.1051 ; 74.861 (E)	39
9.1	TEST PROCEDURE	39
9.2	TEST RESULTS	39
9.3	LIMIT	39



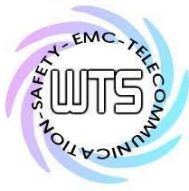
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

10	RADIATED SPURIOUS EMISSION , FCC 2.1053 ; 74.861 (E).....	41
10.1	TEST PROCEDURE.....	41
10.2	TEST RESULTS	41
10.3	EXPLANATION OF TEST RESULT.....	42
10.4	LIMITS	42
11	LINE CONDUCTED EMISSION , FCC 15.207.....	43
11.1	TEST PROCEDURE.....	43
11.2	TEST RESULTS	43
12	FREQUENCY STABILITY VS. TEMPERATURE , FCC 2.1055 , 74.861 (E)	44
12.1	TEST PROCEDURE.....	44
12.2	TEST RESULTS	44
13	FREQUENCY STABILITY VS. VOLTAGE , FCC 2.1055 (D) ; 74.861 (E).....	47
13.1	TEST PROCEDURE.....	47
13.2	TEST RESULTS	47



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14185-C-1
FCC ID: M5X-ACT70HC
IC: 2978A-ACT70HC

1 General Information

1.1 Notes

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

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

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

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

The test results of this test report relate exclusively to the item tested as specified in 1.5.

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

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

Tester:

March 27, 2015

Rick Chen

Rick Chen.

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

March 27, 2015

Kevin Wang

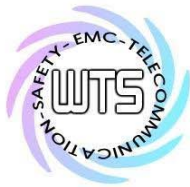
Kevin Wang

Date

WTS

Name

Signature



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

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: ./.

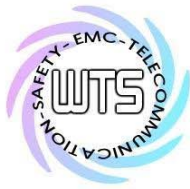
Street: ./.

Town: ./.

Country: ./.

Telephone: ./.

Fax: ./.



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

1.3 Details of approval holder

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

1.4 Application details

Date of receipt of test sample: July 11, 2014
Date of test: from July 14, 2014 to March 25, 2015

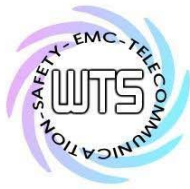
1.5 General information of Test item

Type of test item: Transmitter
Model Number: ACT-70HC
Brand Name: MIPRO
Multi-listing model number: ACT-72HC, ACT-7XXXX (X=0~9,A~Z,a~z or Blank)
Photos: see Annex

Technical data

Frequency band :

Frequency(MHz)	TV Band	Used Band
26.100-26.480	☐	☐
54.000-72.000	☐	☐
76.000-88.000	☐	☐
161.625-161.775	☐	☐
174.000-216.000	☐	☐
450.000-451.000	☐	☐
455.000-456.000	☐	☐
470.000-488.000	☒	☒
488.000-494.000	☒	☒
494.000-608.000	☒	☒
614.000-698.000	☒	☒
944.000-952.000	☐	☐



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

Frequency (ch A): 480.1 MHz

Frequency (ch B): 544 MHz

Frequency (ch C): 607.9 MHz

Frequency (ch D): 614.1 MHz

Frequency (ch E): 656 MHz

Frequency (ch F): 697.9 MHz

Antenna Type: HELICAL Antenna

Antenna Gain: 0 dBi

Power supply: Battery 3.7 VDC

Operation modes: Simplex

Manufacturer: (if applicable)

Name: ./.

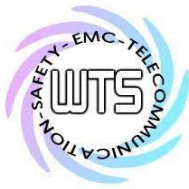
Street: ./.

Town: ./.

Country: ./.

1.6 Test standards

Technical standard: FCC Part 74 Subpart H , section 74.861 (2013-10)
CANADA RSS-210 Issue 8, Amendment 1 February 2015



Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

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.

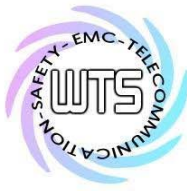


2.2 Test environment

Temperature: 23 °C

Relative humidity content: 20 ... 75 %

Air pressure: 86-103 KPa



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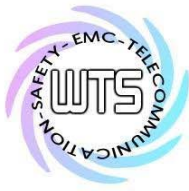
Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

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-EICHLITUNG RF STEP ATTENUATOR 139dB DPSP	334.6010.02	844581/024	R&S	Function Test	
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	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	2015/3/2	2016/3/1
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	2015/3/2	2016/3/1
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2015/3/2	2016/3/1
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2015/3/2	2016/3/1
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	2015/3/2	2016/3/1
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	2015/3/2	2016/3/1
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	
ETSTW-RE 122	SIGNAL GENERATOR	SMF100A	102149	R&S	2014/6/11	2015/6/10



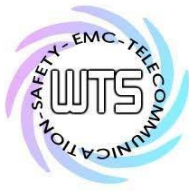
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

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	2015/3/2	2016/3/1
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	2015/2/25	2016/2/24
ETSTW-Cable 017	BNC Cable	X Cable	B Cable 2	Schwarz beck	2015/2/25	2016/2/24
ETSTW-Cable 018	BNC Cable	Y Cable	B Cable 3	Schwarz beck	2015/2/25	2016/2/24
ETSTW-Cable 019	BNC Cable	Z Cable	B Cable 4	Schwarz beck	2015/2/25	2016/2/24
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	2015/3/2	2016/3/1
ETSTW-Cable 027	Microwave Cable	SUCOFLEX 104	279083	HUBER+SUHNER	2015/3/2	2016/3/1
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	2015/3/2	2016/3/1
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	



Registration number: W6M21405-14185-C-1
FCC ID: M5X-ACT70HC
IC: 2978A-ACT70HC

2.4 General Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.4-2009 5.2 using a 50 μ H 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 100 kHz 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 %.

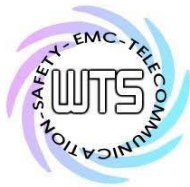
The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to the frequency specified as follows:

- (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 at the registered open field test site located at The Registration Number: When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

ANSI STANDARD C63.4-2009 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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Registration number: W6M21405-14185-C-1

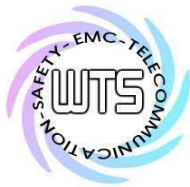
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3 Test results (enclosure)

Test case	Para. Number	Required	Test passed	Test failed
RF Power Output	2.1046 (a); 74.861 (e)(1) RSS-210 Section 6	☒	☒	☐
Modulation Deviation	2.1047 (b); 74.861 (e)(2) RSS-210 section 6	☒	☒	☐
Audio Frequency Response	2.1047 (a)	☒	☒	☐
Occupied Bandwidth / Emission Mask	2.1049 (c)(1); 74.861 (e)(5) RSS-210 Section 6 RSS-Gen	☒	☒	☐
Spurious Emissions at Antenna Terminals	2.1051 74.861(e)(6) RSS-210 Section 6	☐	☐	☐
Radiated Spurious Emission	2.1053 74.861(e)(6) RSS-210 Section 6	☒	☒	☐
Line Conducted Emissions	15.207 RSS-Gen	☐	☐	☐
Frequency Stability vs. Temperature	2.1055 (b); 74.861(e)(4) RSS-210 Section 6 RSS-Gen	☒	☒	☐
Frequency Stability vs. Voltage	2.1055 (a)(1); 74.861 (e)(4) RSS-210 Section 6 RSS-Gen	☒	☒	☐

The following is intentionally left blank.



Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

4 RF Power Output (conducted) , FCC 2.1046 (a) ; 74.861 (e)

4.1 Test procedure

This transmitter output was connected to a calibrated coaxial attenuator, the other end of which was connected to a spectrum analyzer. Transmitter output was derived with the spectrum analyzer in dBm. The power output at the transmitter antenna port was determined by assign the value of the attenuator to the spectrum analyzer reading.

An HP power meter was also used to measure the RF power.

Tests were performed with an un-modulated carrier at three frequencies (low , middle and high channels) and on all power levels , which can be set-up on the transmitters.

4.2 Test Results

Frequency Channel	Peak Output Power (dBm)
-- MHz	--
-- MHz	--
-- MHz	--

Limits:

LPAS operating in TV bands	
Frequency [MHz]	Conducted output power [mW]
54 – 72 76 – 88 174 - 216	50 (17 dBm)
470 – 608 614 - 698	250 (24 dBm)

LPAS operating in other than TV bands	
Conducted power [W]	1

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

Explanation :This test is not required.

Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

5 Radiated Power

5.1 Test Procedure

The EUT was positioned on a non-conductive turntable, 0.8m above the ground on an open test site. The radiated emission at the fundamental frequency was measured at 3m distance with a test antenna and spectrum analyzer.

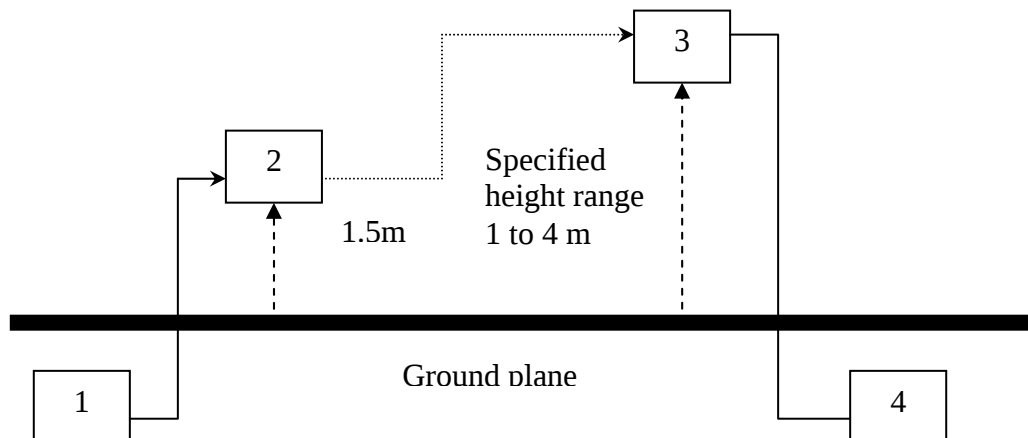
Worst case emission was recorded with the rotation of the turntable and the raising and lowering of the test antenna.

Substitution RF power Measurement at WTS

General :

The applied substitution method follows ANSI/TIA/EIA-603, ANSI/TIA/EIA-102.CAAA or the appropriate ETSI rules respectively.

The actual signal generated by the EUT can be determined by means of a substitution measurement in which a known signal source replaces the device to be measured.



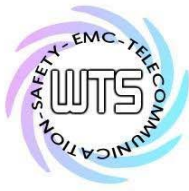
- 1) Signal generator ;
- 2) Substitution antenna ;
- 3) Test antenna ;
- 4) Spectrum analyzer or selective voltmeter.

The substitution antenna replaces the transmitter antenna at the same position and in vertical polarization. The frequency of the signal generator shall be adjusted to the measurement frequency.

The test antenna shall be raised or lowered, if necessary, to ensure that the maximum signal is still received. The input signal to the substitution antenna shall be adjusted in level until an equal or a known related level to that detected from the transmitter is obtained in the measurement receiver.

If a fully anechoic chamber is used as test site in order to provide free space conditions there is no need to change the height of the antenna.

The measurement will be repeated in horizontal position.



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

Calibration :

In order to make this kind of measurement more effective and to avoid subjective measurement faults ETS has installed automatic computer controlled measurement procedures.

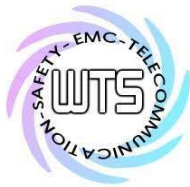
With the above described substitution method a test site is calibrated over the full frequency range which is used in suitable frequency steps. For a certain power level on the substitution antenna the received power over the whole frequency range is documented. All necessary antenna gains, cable losses, filter losses and amplifications of preamplifiers are taken in consideration. The summary of this calibration measurement performs a transducer factor that is related to the considered test site and a certain measurement distance. Differences of the radiated power levels of different test samples are determined by internal attenuation of measurement receiver . The proper function of such test site will be maintained by short term plausibility checks and periodical re-calibration.

Testing :

Now the test sample will be putted on the table at the defined position and the radiated power will be receiver and documented by the measurement receiver.

On test sites with ground plane the measurement antenna will be lowered and raised to maximum values at significant frequencies.

For peak power measurements the sample is turned by the turntable over 360 degree in order to find the direction with the maximum radiation or to document the max reading with the MAXHOLD function during the rotation.



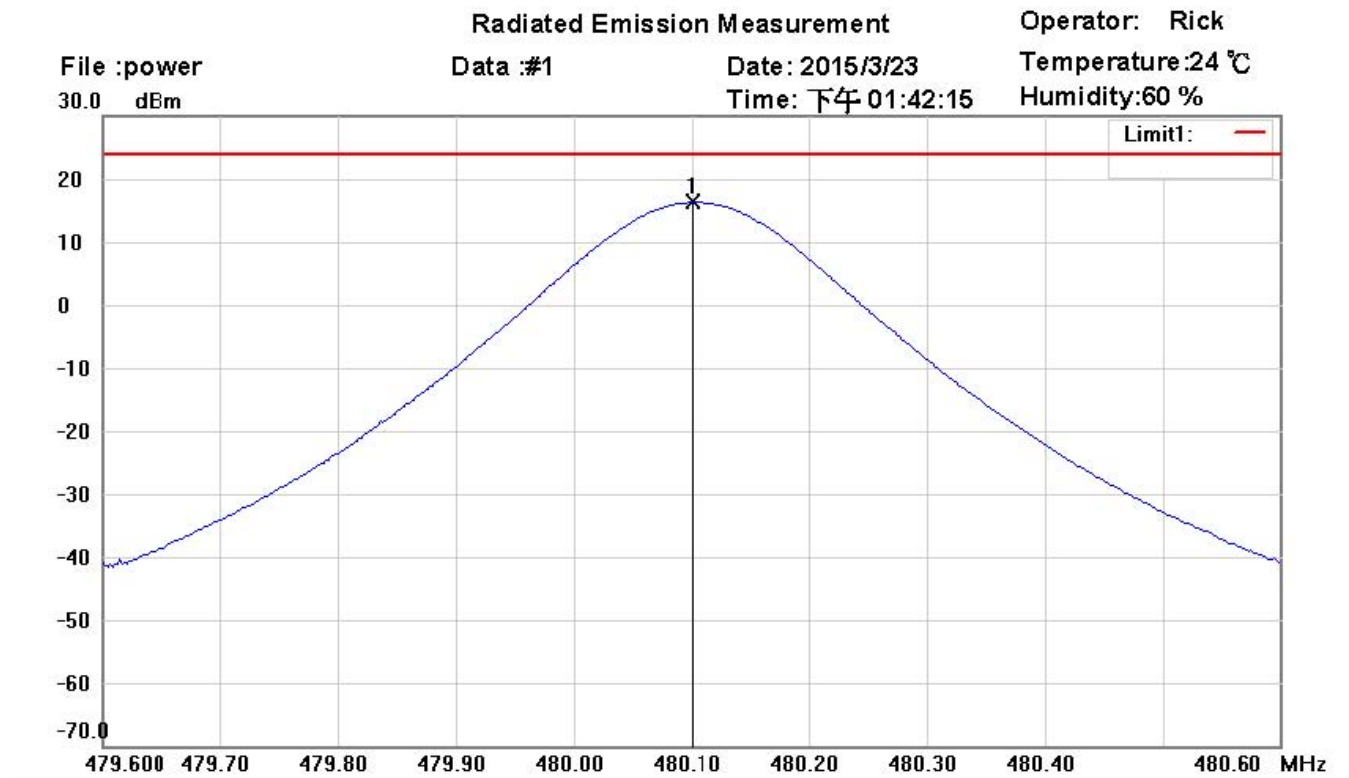
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

5.2 Test results



Site : Chamber

Condition : FCC 74.861 power(470-608 and 614-698)

EUT : W6M21405-14185

M/N:

Test Mode : Tx 480.1MHz

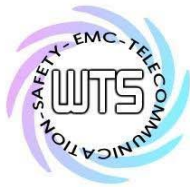
Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	480.1010	-10.47	peak	26.77	16.30	24.00	150	100	-7.70	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

Radiated Emission Measurement

Operator: Rick

File :power

Data :#2

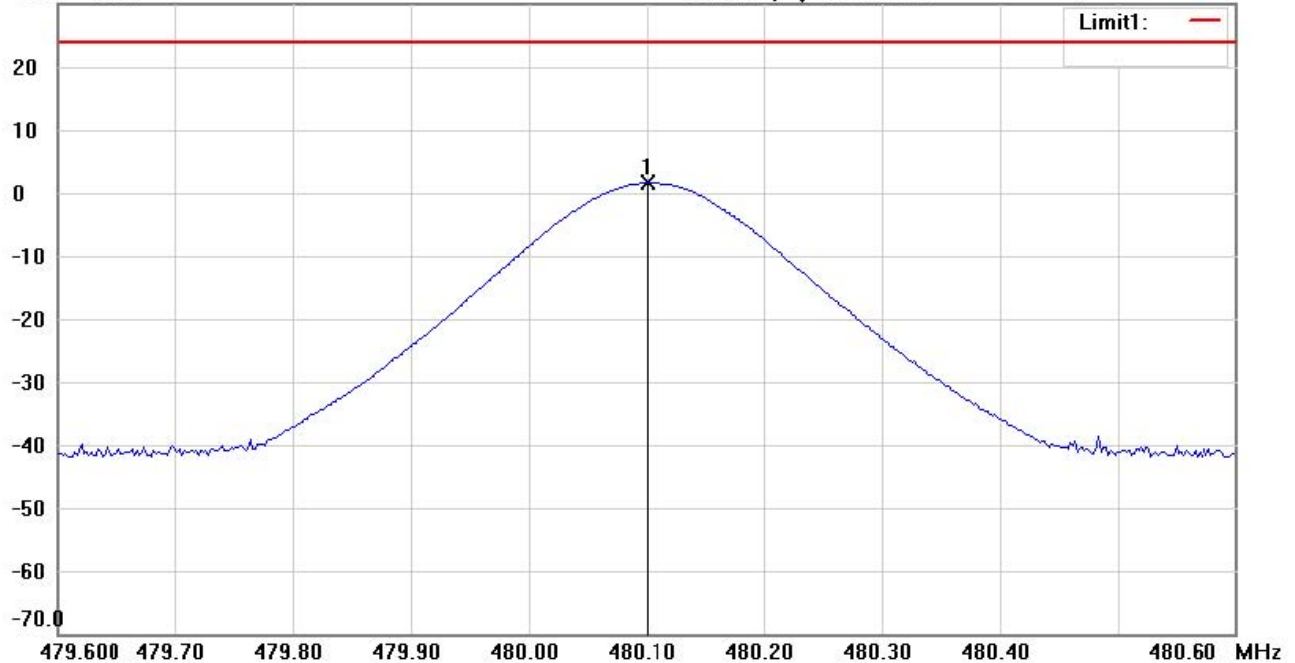
Date: 2015/3/23

Temperature:24 °C

30.0 dBm

Time: 下午 01:43:39

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 power(470-608 and 614-698)

Polarization: **Vertical**

EUT : W6M21405-14185

Power : 3.7Vdc

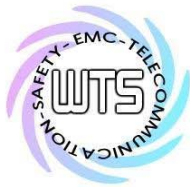
M/N:

Distance: 3m

Test Mode : Tx 480.1MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	480.1010	-26.29	peak	27.90	1.61	24.00	150	220	-22.39	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

Radiated Emission Measurement

Operator: Rick

File :POWER

Data :#1

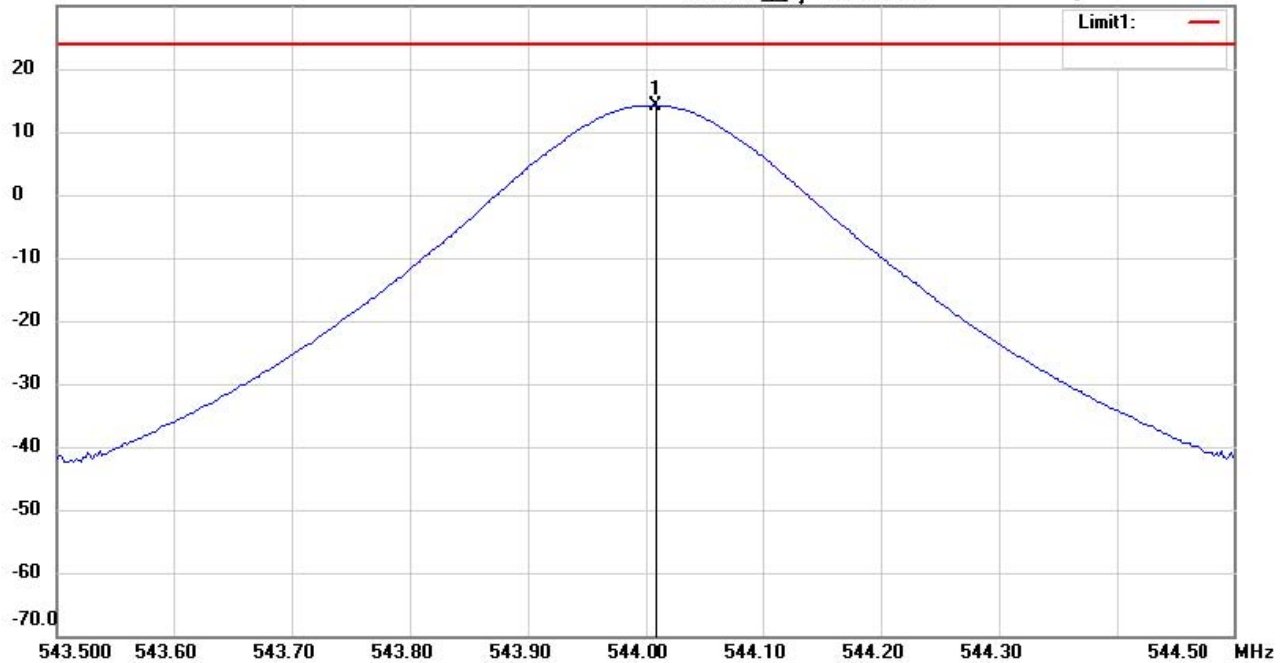
Date: 2015/3/24

Temperature:24 °C

30.0 dBm

Time: 上午 09:36:33

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 power(470-608 and 614-698)

Polarization: *Horizontal*

EUT : W6M21405-14185

Power : 3.7Vdc

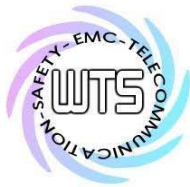
M/N:

Distance: 3m

Test Mode : Tx 544MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	544.0090	-12.36	peak	26.58	14.22	24.00	150	310	-9.78	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

Radiated Emission Measurement

Operator: Rick

File :POWER

Data :#2

Date: 2015/3/24

Temperature:24 °C

30.0 dBm

Time: 上午 09:38:49

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 power(470-608 and 614-698)

Polarization: **Vertical**

EUT : W6M21405-14185

Power : 3.7Vdc

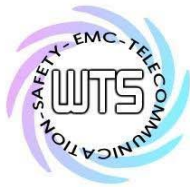
M/N:

Distance: 3m

Test Mode : Tx 544MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	544.0070	-27.56	peak	29.44	1.88	24.00	150	210	-22.12	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

Radiated Emission Measurement

Operator: Rick

File :power

Data :#1

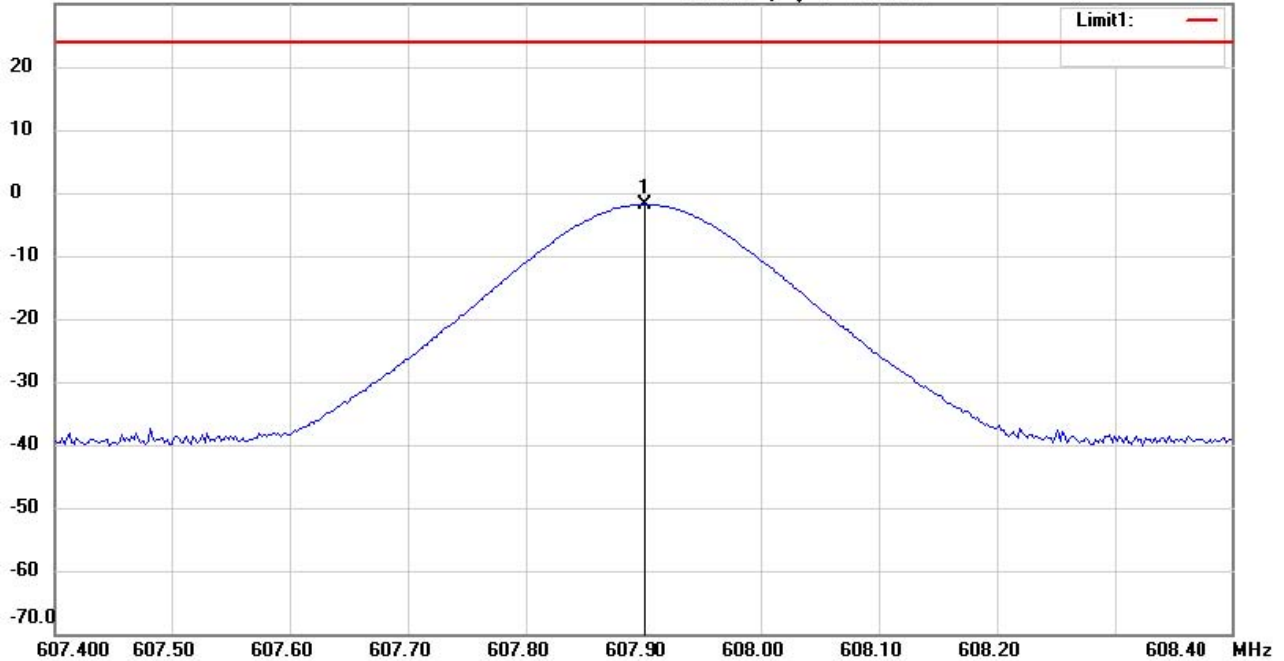
Date: 2015/3/12

Temperature:24 °C

30.0 dBm

Time: 下午 04:47:42

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 power(470-608 and 614-698)

Polarization: *Horizontal*

EUT : W6M21405-14185

Power : 3.7Vdc

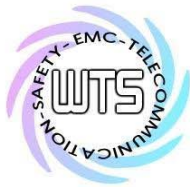
M/N:

Distance: 3m

Test Mode : Tx 607.9MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	607.9010	-31.43	peak	29.62	-1.81	24.00	150	210	-25.81	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

Radiated Emission Measurement

Operator: Rick

File :power

Data :#2

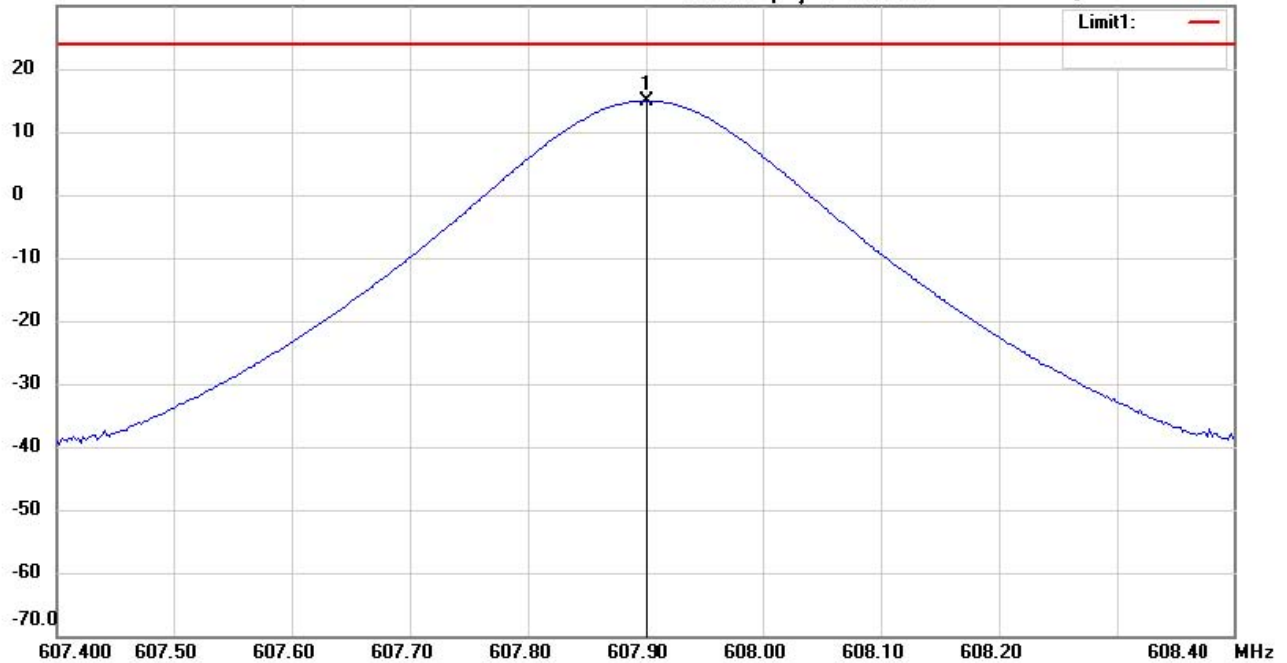
Date: 2015/3/12

Temperature:24 °C

30.0 dBm

Time: 下午 04:43:35

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 power(470-608 and 614-698)

Polarization: **Vertical**

EUT : W6M21405-14185

Power : 3.7Vdc

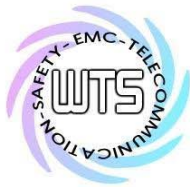
M/N:

Distance: 3m

Test Mode : Tx 607.9MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	607.9010	-14.70	peak	29.65	14.95	24.00	150	220	-9.05	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

Radiated Emission Measurement

Operator: Rick

File :power

Data :#2

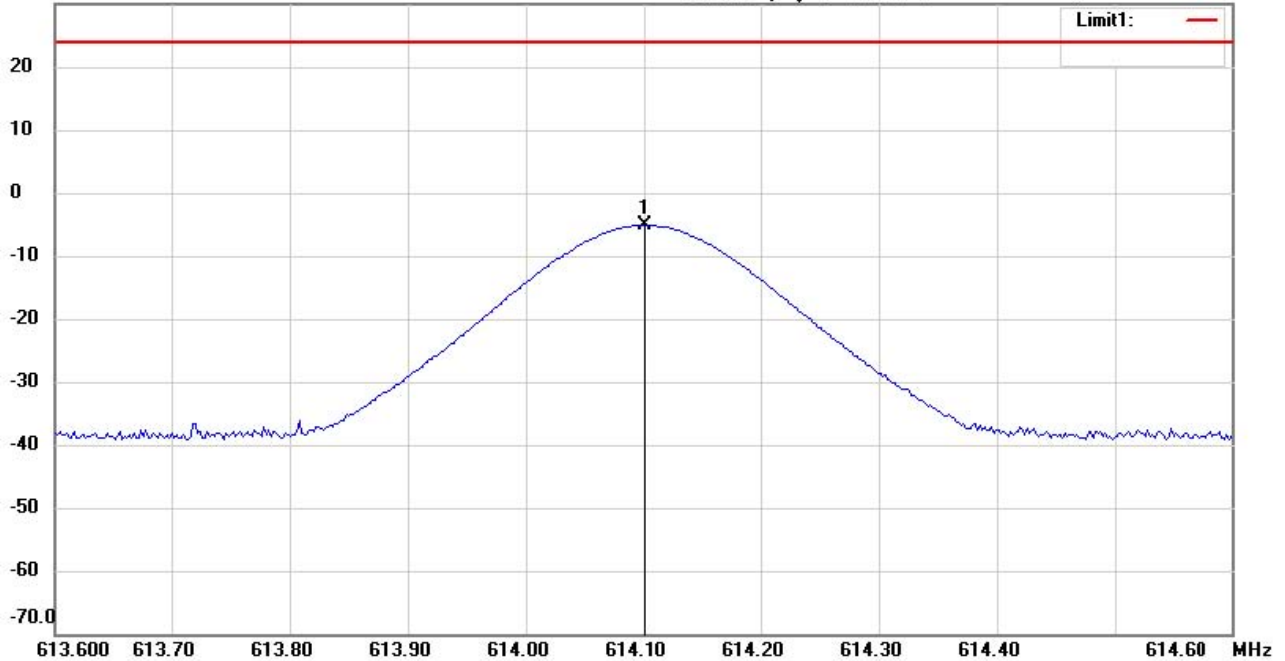
Date: 2015/3/12

Temperature:24 °C

30.0 dBm

Time: 下午 04:18:14

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 power(470-608 and 614-698)

Polarization: *Horizontal*

EUT : W6M21405-14185

Power : 3.7Vdc

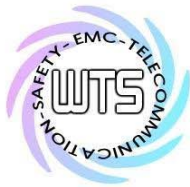
M/N:

Distance: 3m

Test Mode : Tx 614.1MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	614.1010	-35.19	peak	30.10	-5.09	24.00	150	200	-29.09	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

Radiated Emission Measurement

Operator: Rick

File :power

Data :#1

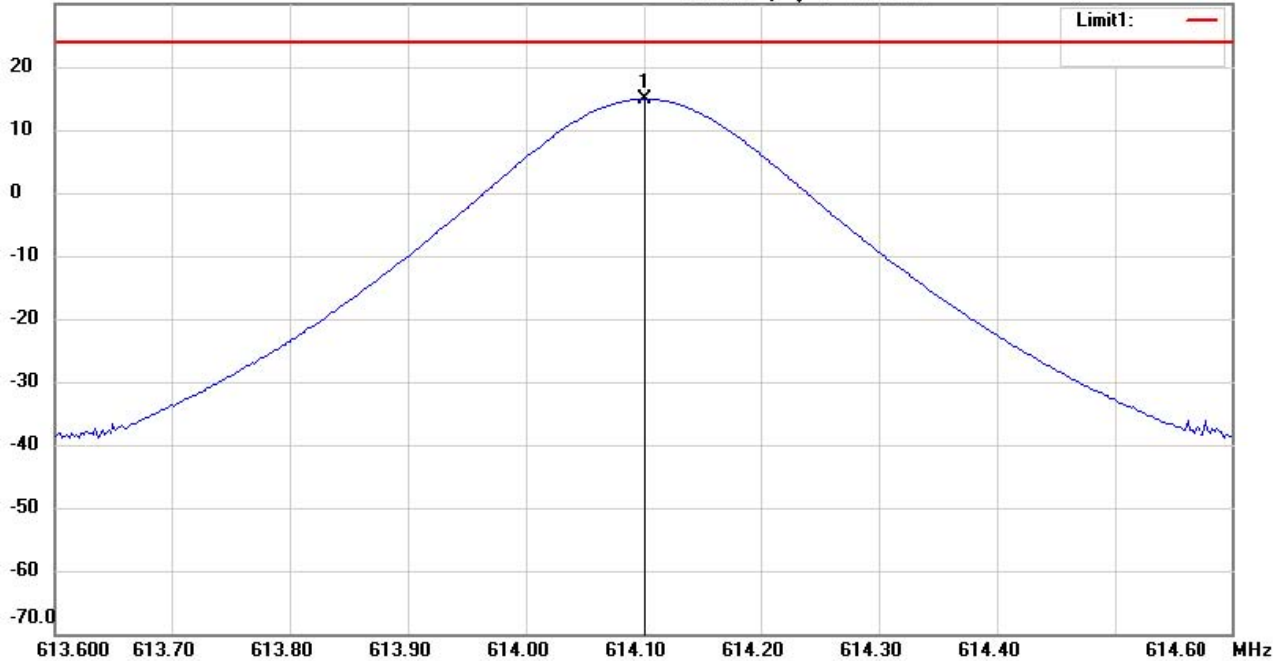
Date: 2015/3/12

Temperature:24 °C

30.0 dBm

Time: 下午 04:15:52

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 power(470-608 and 614-698)

Polarization: **Vertical**

EUT : W6M21405-14185

Power : 3.7Vdc

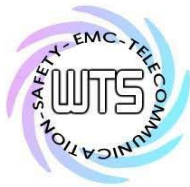
M/N:

Distance: 3m

Test Mode : Tx 614.1MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	614.1010	-14.76	peak	29.68	14.92	24.00	150	240	-9.08	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

Radiated Emission Measurement

Operator: Rick

File :power

Data :#2

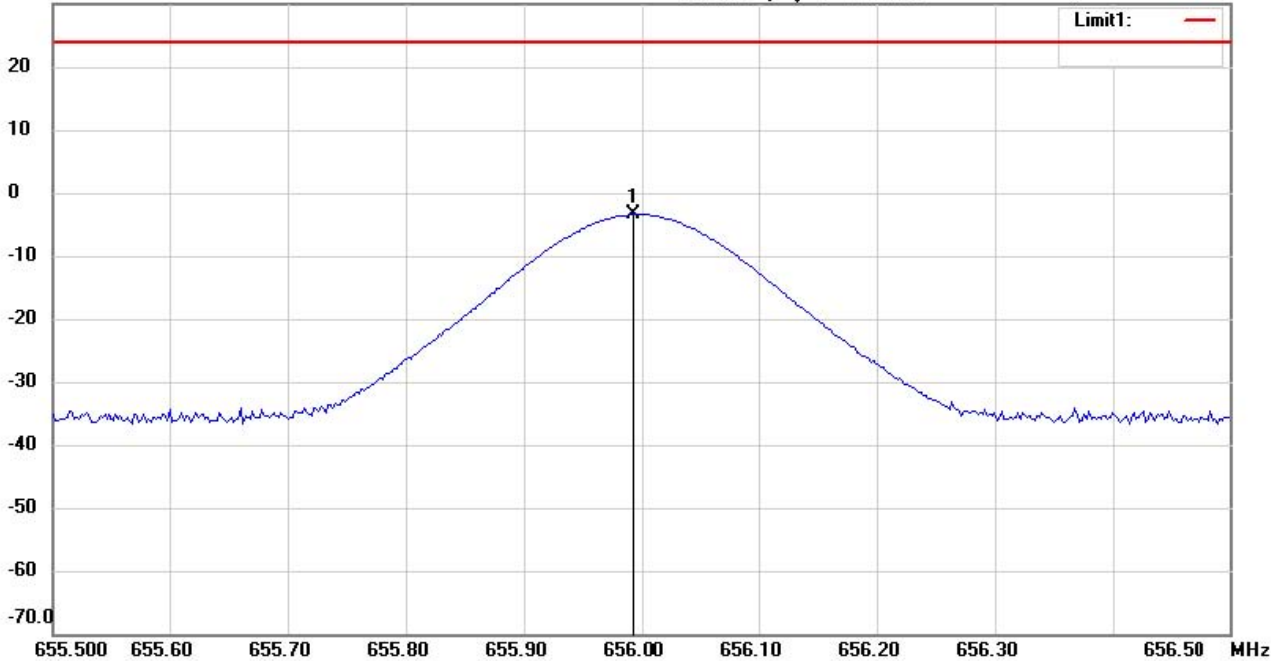
Date: 2015/3/12

Temperature:24 °C

30.0 dBm

Time: 下午 04:07:29

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 power(470-608 and 614-698)

Polarization: *Horizontal*

EUT : W6M21405-14185

Power : 3.7Vdc

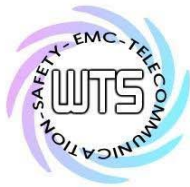
M/N:

Distance: 3m

Test Mode : Tx 656MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	655.9930	-36.26	peak	32.85	-3.41	24.00	150	70	-27.41	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

Radiated Emission Measurement

Operator: Rick

File :power

Data :#1

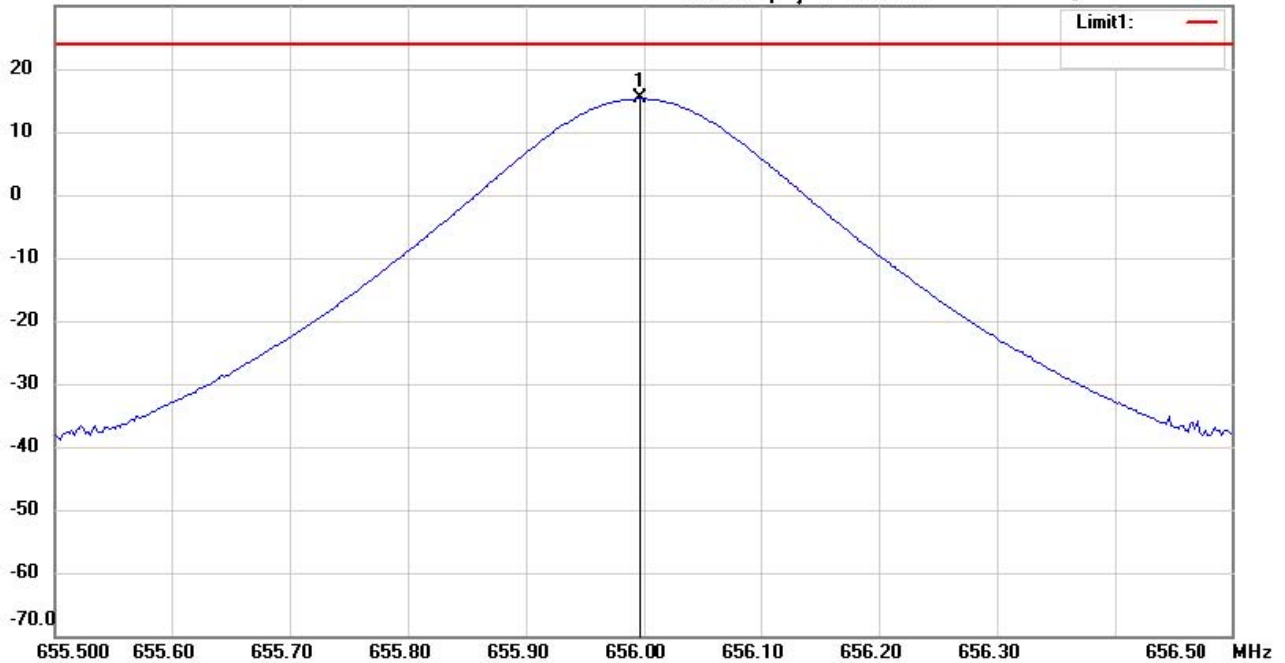
Date: 2015/3/12

Temperature:24 °C

30.0 dBm

Time: 下午 04:05:24

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 power(470-608 and 614-698)

Polarization: **Vertical**

EUT : W6M21405-14185

Power : 3.7Vdc

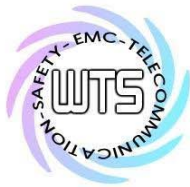
M/N:

Distance: 3m

Test Mode : Tx 656MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	655.9970	-14.86	peak	30.14	15.28	24.00	150	250	-8.72	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

Radiated Emission Measurement

Operator: Rick

File :POWER

Data :#1

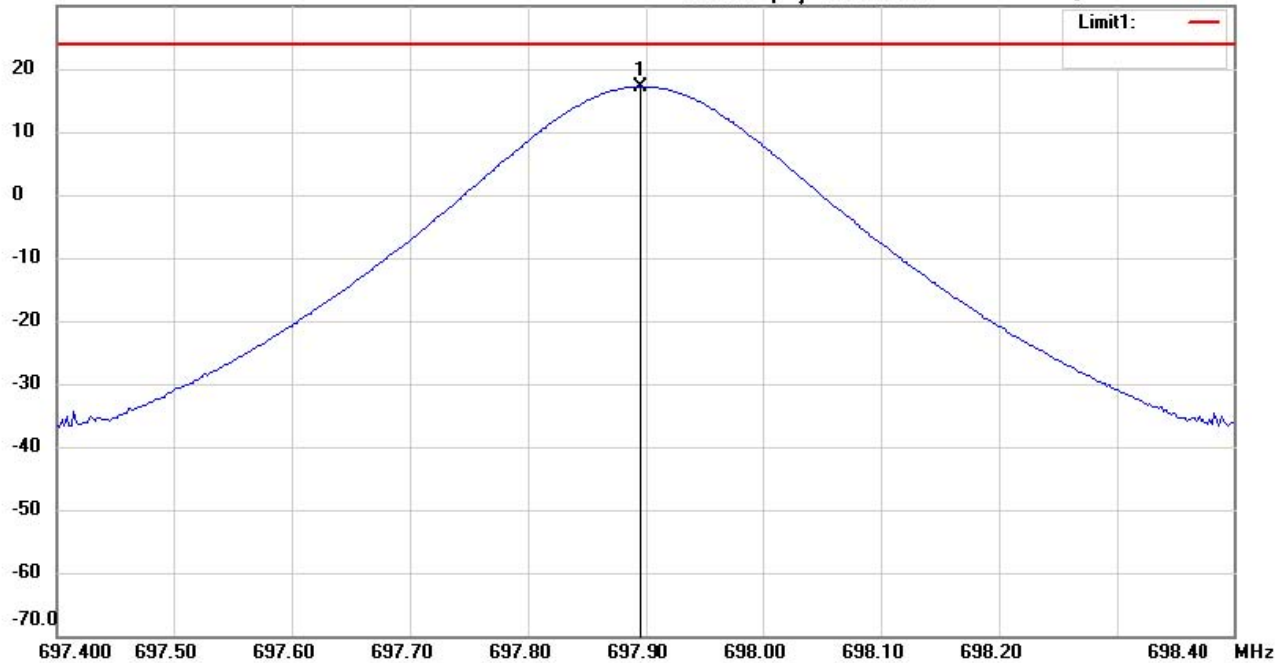
Date: 2015/3/12

Temperature:24 °C

30.0 dBm

Time: 下午 03:09:00

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 power(470-608 and 614-698)

Polarization: *Horizontal*

EUT : W6M21405-14185

Power : 3.7Vdc

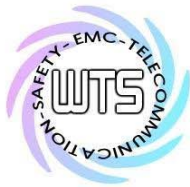
M/N:

Distance: 3m

Test Mode : Tx 697.9MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	697.8950	-15.24	peak	32.42	17.18	24.00	150	110	-6.82	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

Radiated Emission Measurement

Operator: Rick

File :POWER

Data :#2

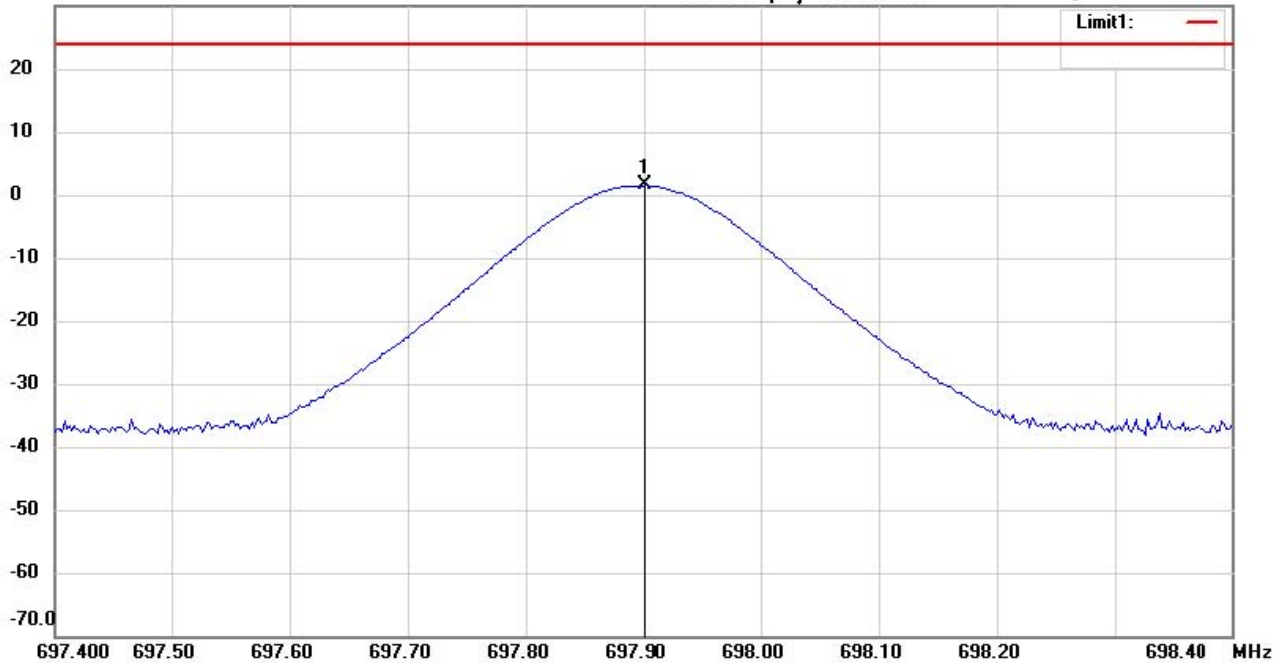
Date: 2015/3/12

Temperature:24 °C

30.0 dBm

Time: 下午 03:16:31

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 power(470-608 and 614-698)

Polarization: **Vertical**

EUT : W6M21405-14185

Power : 3.7Vdc

M/N:

Distance: 3m

Test Mode : Tx 697.9MHz

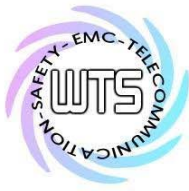
Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	697.9010	-30.51	peak	32.02	1.51	24.00	150	230	-22.49	

Test equipment used: ETSTW-RE 004, ETSTW-RE 122, ETSTW-RE 042, ETSTW-RE 043

Limit According to FCC PART 74.861(e)(1) and IC RSS-210 section 6 Table 1:

The output power limit: 250 mW (24 dBm)



Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

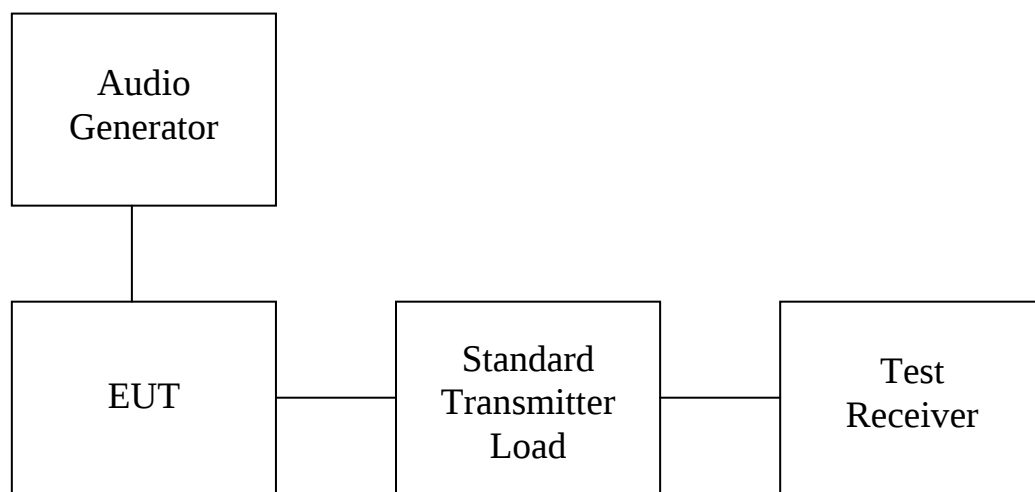
6 Modulation Deviation , FCC 2.1047 (b) ; 74.861(e)

6.1 Test procedure

Modulation limiting is the transmitter circuit's ability to limit the transmitter from producing deviations in excess of rated system deviation.

The audio signal generator is connected to the audio input of the EUT with its full rating.

The modulation response is measured at certain modulation frequencies, related to 1000Hz reference signal. Tests are performed for positive and negative modulation.

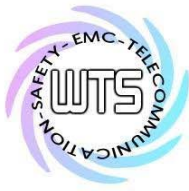


6.2 Test results

Limits : ± 75 kHz

Test equipment used: ETSTW-RE 072, ETSTW-RE 055, ETSTW-RE 050

Explanation: Please see attached diagrams as appendix.



Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

7 Audio frequency response , FCC 2.1047 (a)

7.1 Test procedure

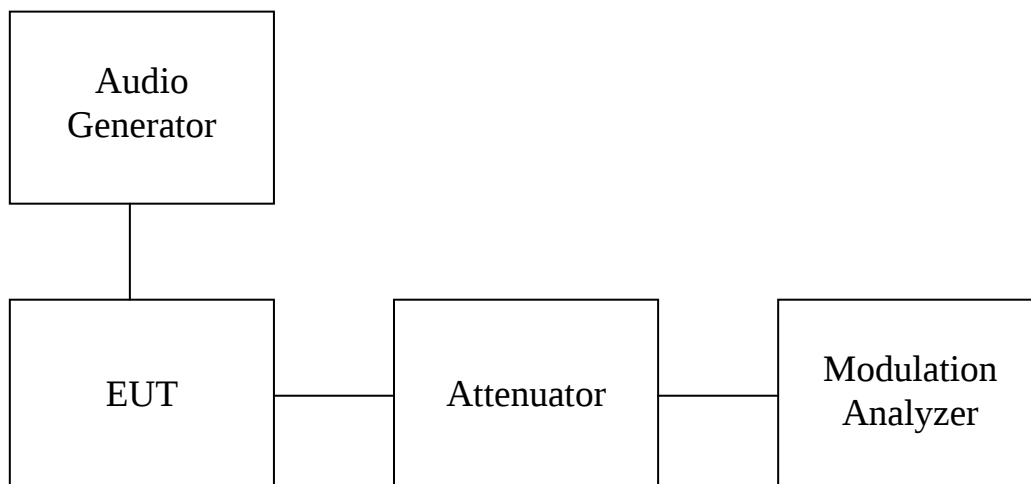
The audio frequency response is the degree of closeness to which the frequency deviation of the transmitter follows a prescribed characteristic.

The frequency response of the audio modulation part is measured over a frequency range of 100 Hz to 5000 Hz.

For 1000 Hz tone reference signal the audio generator level is adjusted to get 20% of the rated system deviation.

The deviations obtained over the frequency range from 100 Hz to 5000 Hz are recorded and compared with the reference deviation as follows :

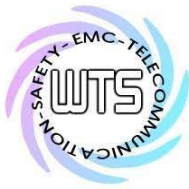
$$\text{Audio Frequency Response} = 20 \log [\text{DEV}_{\text{Freq}} / \text{DEV}_{\text{ref}}].$$



7.2 Test results

Explanation: Please see attached diagrams as appendix.

Test equipment used: ETSTW-RE 072



Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

8 Occupied Bandwidth/Emission Mask, FCC 2.1049 (c) ; 74.861 (e)(5)

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power. Near the carrier an Emission Mask is defined by the standard.

8.1 Test procedure

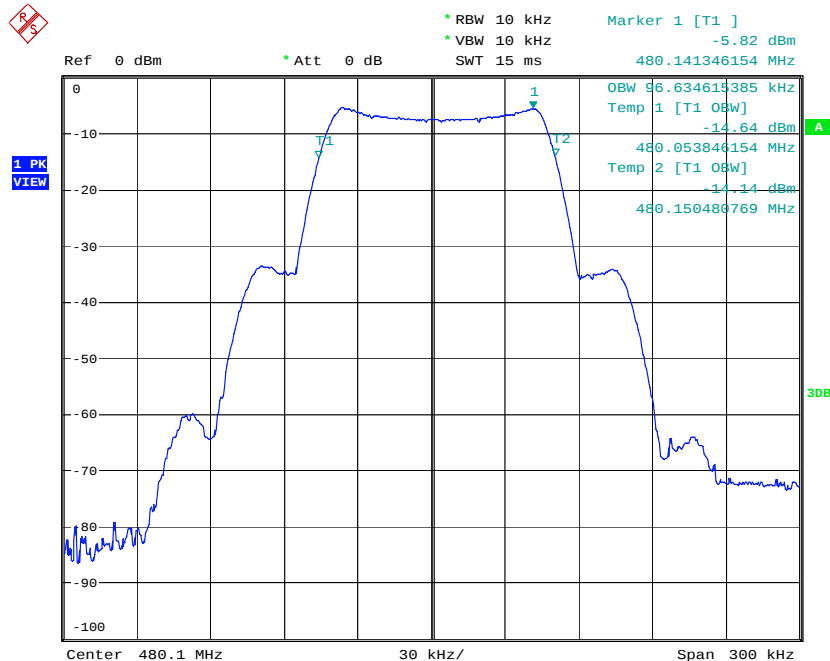
The RF output of the transceiver was connected to the input of the spectrum analyzer through sufficient attenuation.

Occupied Bandwidth was measured with a occupied bandwidth function of the analyzer.

The near the carrier emissions are measured by normal power measurement function of the analyzer.

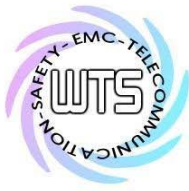
8.2 Test Results

Occupied Bandwidth



OCCUPIED BANDWIDTH 480.1MHZ 1KHZ

Date: 23.MAR.2015 18:10:31

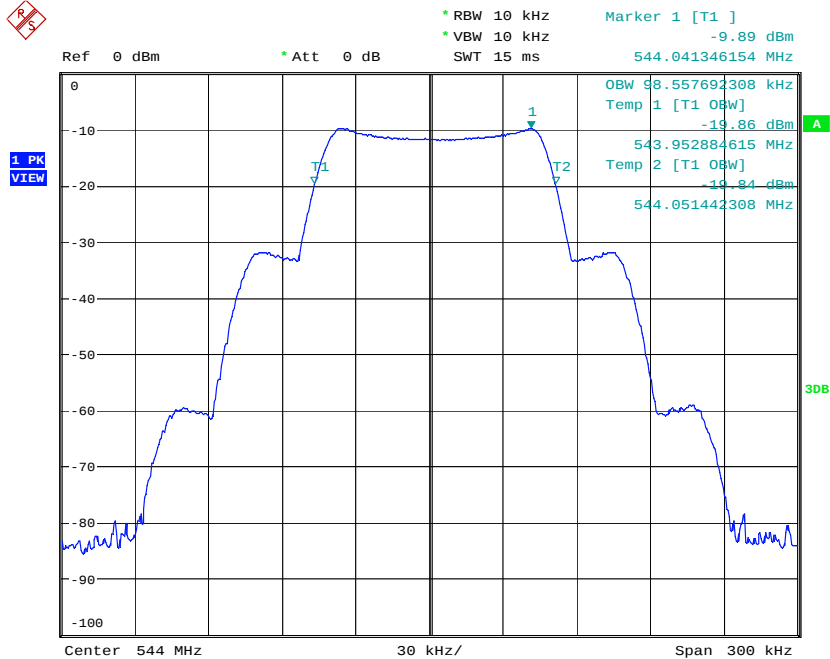


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14185-C-1

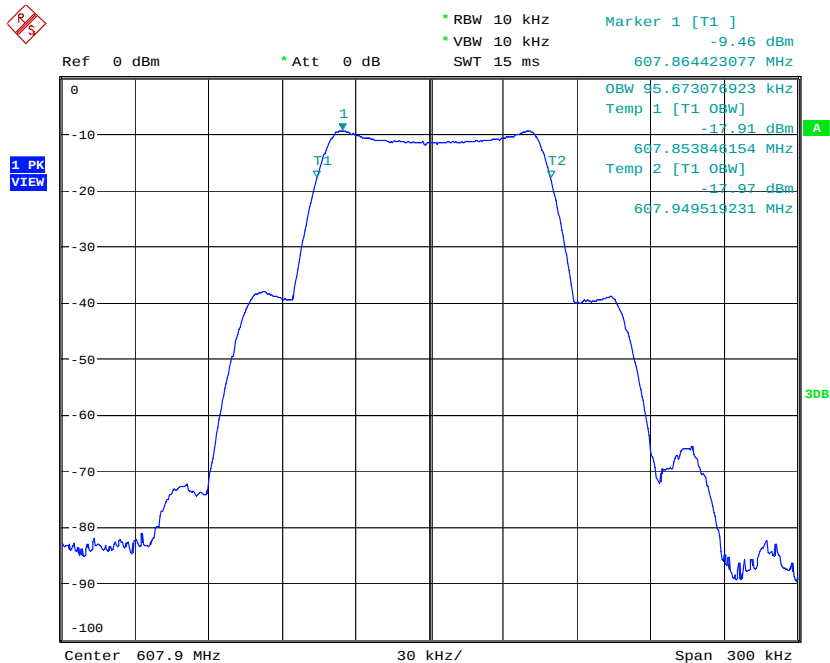
FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC



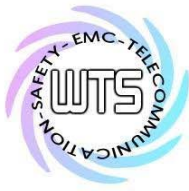
OCCUPIED BANDWIDTH 544MHz 1KHz

Date: 23.MAR.2015 18:13:03



OCCUPIED BANDWIDTH 607.9MHz 1KHz

Date: 23.MAR.2015 18:17:31

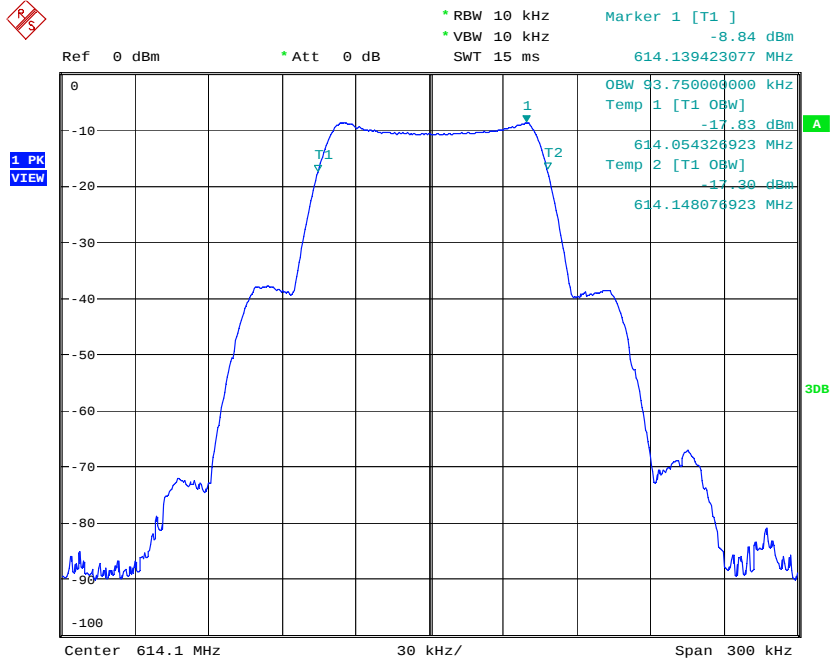


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14185-C-1

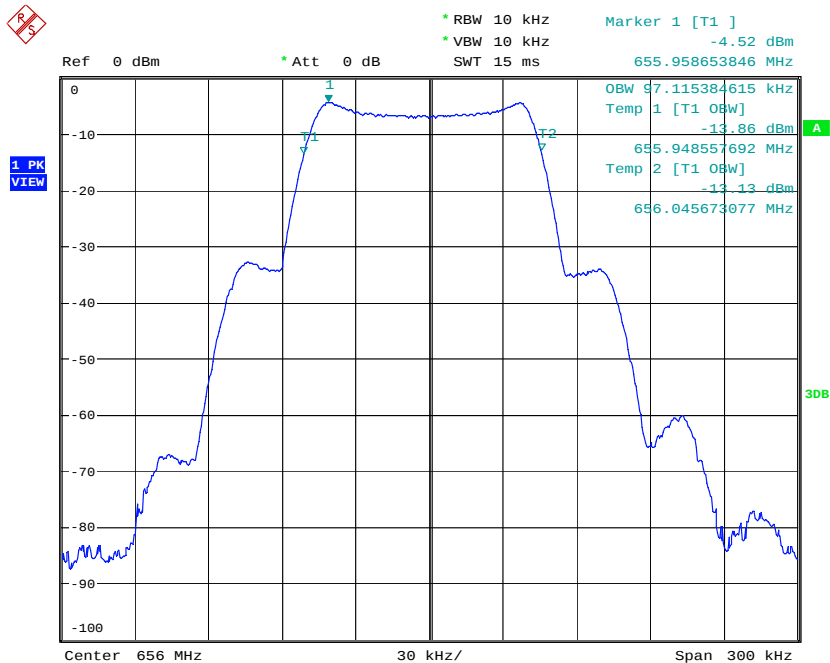
FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC



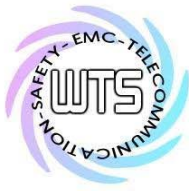
OCCUPIED BANDWIDTH 614.1MHz 1KHz

Date: 23.MAR.2015 18:20:05



OCCUPIED BANDWIDTH 656MHz 1KHz

Date: 23.MAR.2015 18:01:28

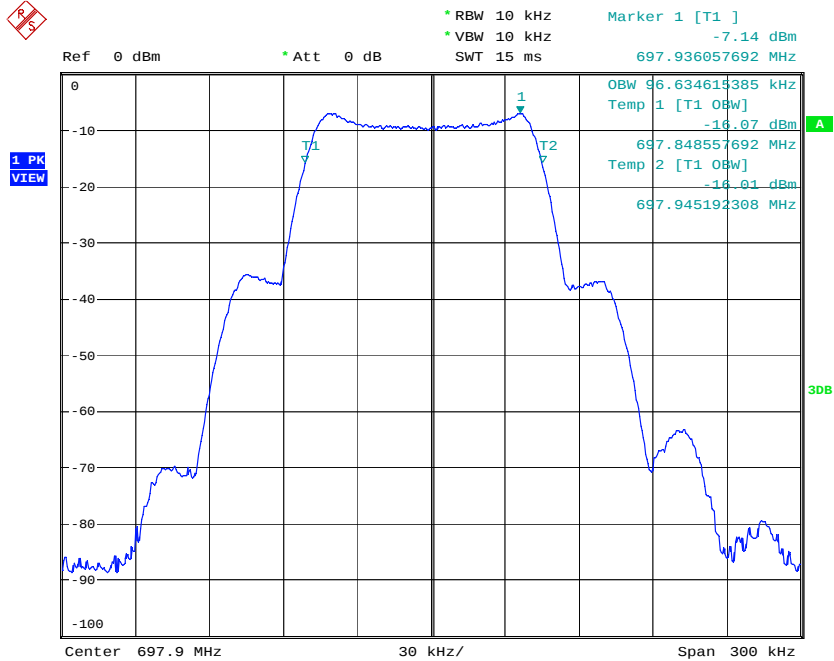


Worldwide Testing Services(Taiwan) Co., Ltd.

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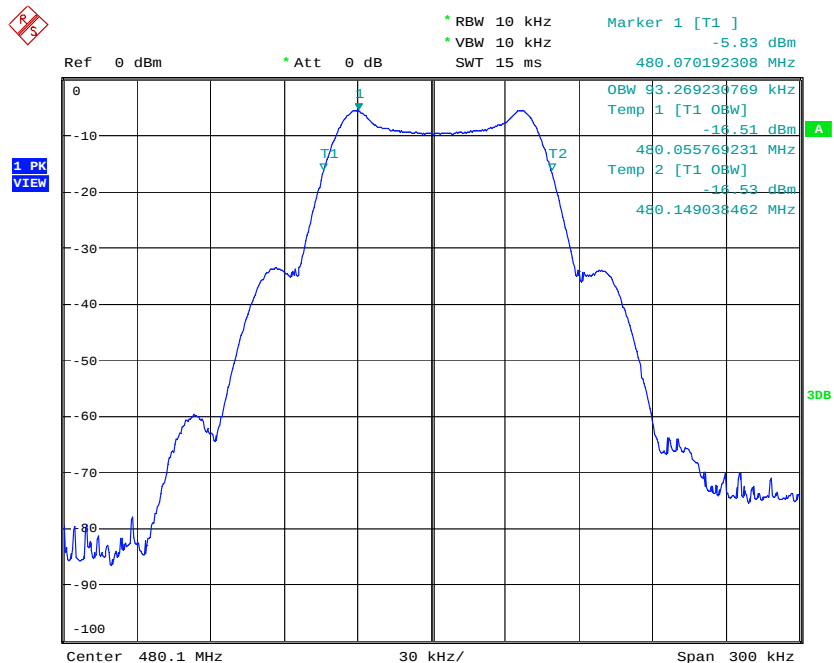
FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC



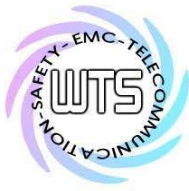
OCCUPIED BANDWIDTH 697.9MHz 1KHz

Date: 23.MAR.2015 18:05:26



OCCUPIED BANDWIDTH 480.1MHz 2.5KHz

Date: 23.MAR.2015 18:09:19

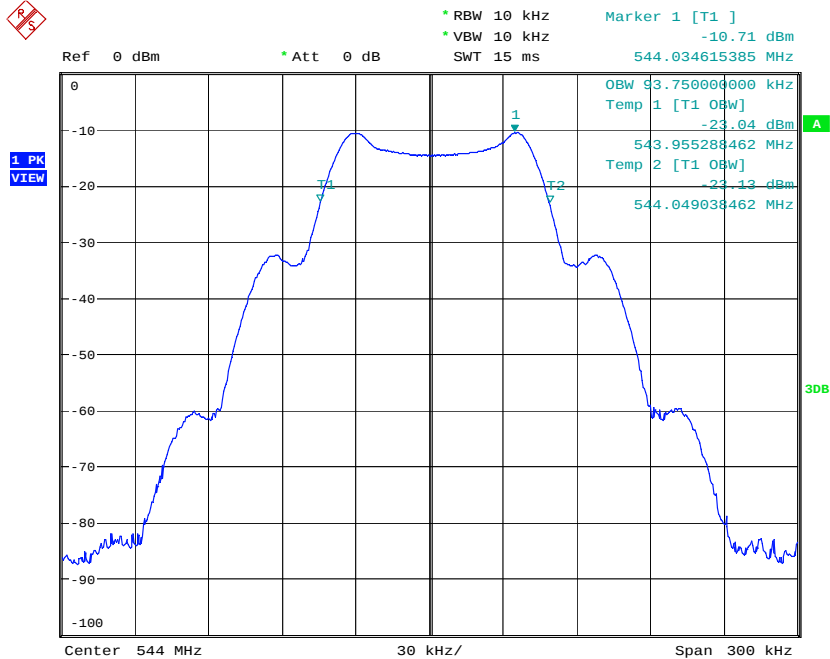


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14185-C-1

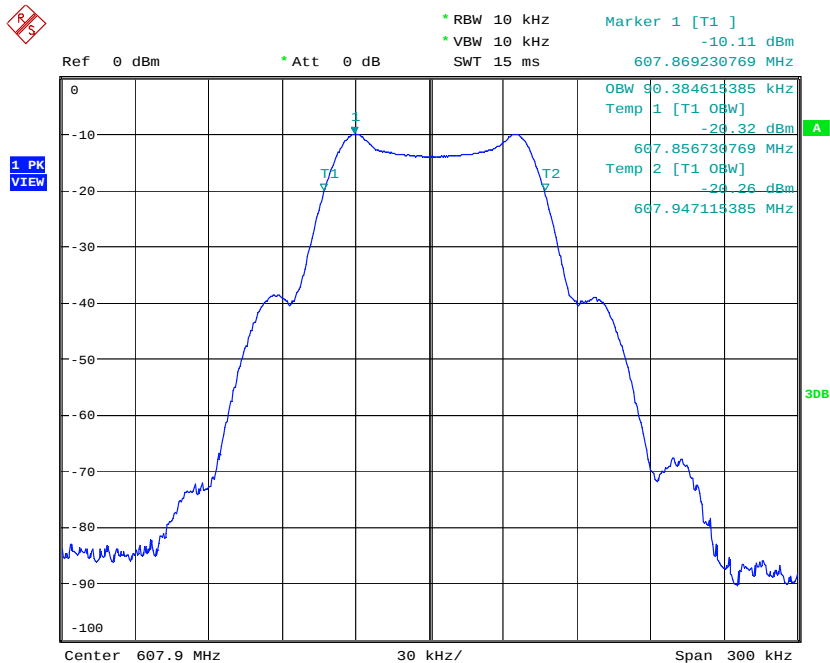
FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC



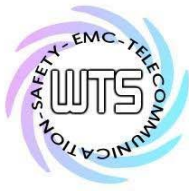
OCCUPIED BANDWIDTH 544MHz 2.5KHz

Date: 23.MAR.2015 18:14:04



OCCUPIED BANDWIDTH 607.9MHz 2.5KHz

Date: 23.MAR.2015 18:16:26

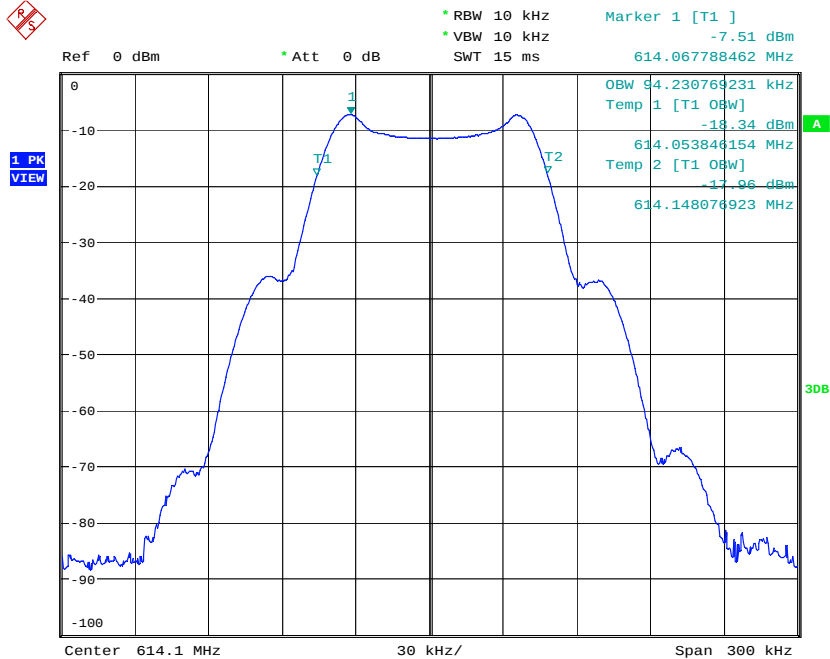


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14185-C-1

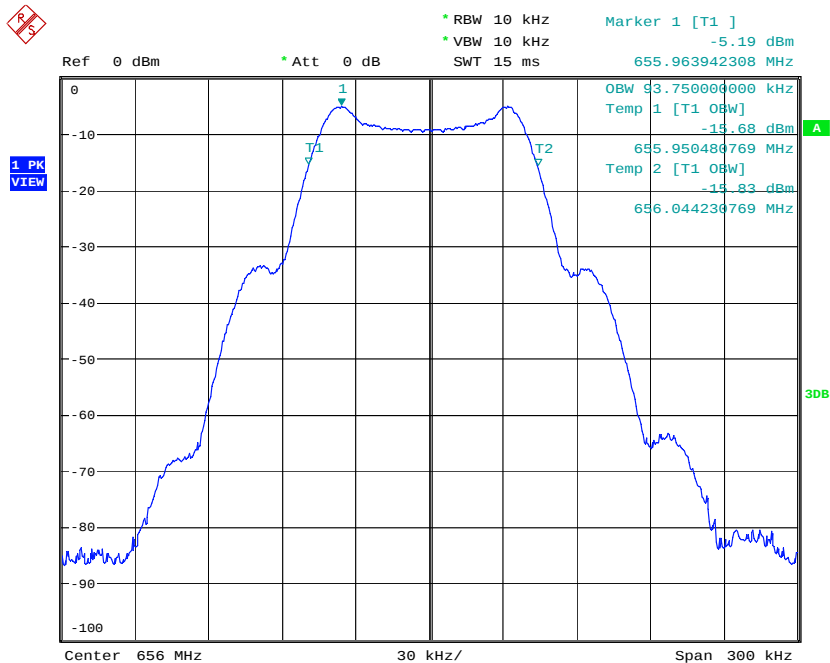
FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC



OCCUPIED BANDWIDTH 614.1MHz 2.5KHz

Date: 23.MAR.2015 18:21:52

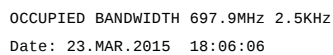


OCCUPIED BANDWIDTH 656MHz 2.5KHz

Date: 23.MAR.2015 18:00:48



IC: 2978A-ACT70HC



Ref 0 dBm *Att 0 dB 1 *SWT 90 ms 480.103525641 MHz

*RBW 10 kHz Marker 1 [T1] -0.39 dBm
*VBW 10 kHz

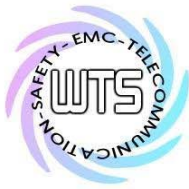
LEMIT CHUNK PASS

FCC74861

1 PK VIEW
2 PK VIEW

Center 480.1 MHz 110 kHz/
Span 1.1 MHz

page 35 of 48

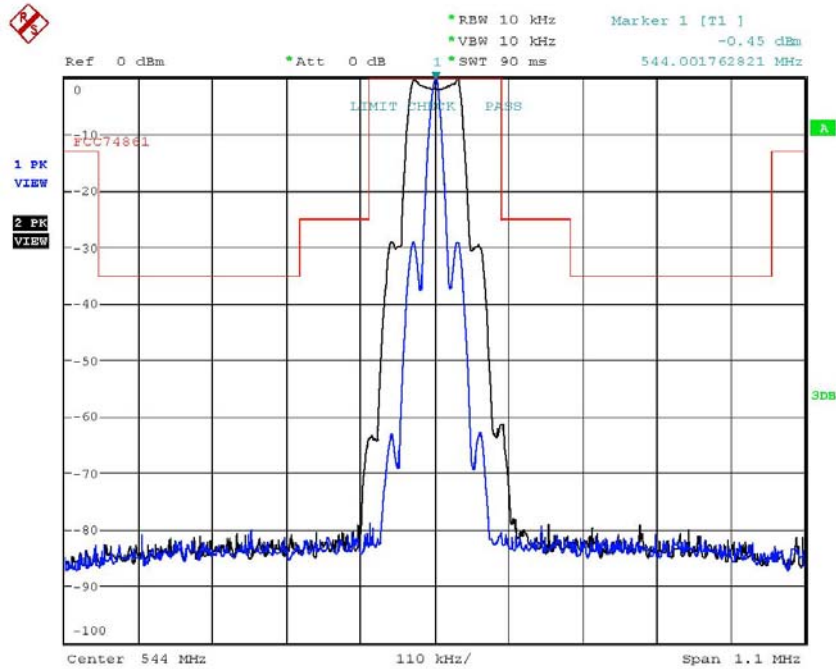


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14185-C-1

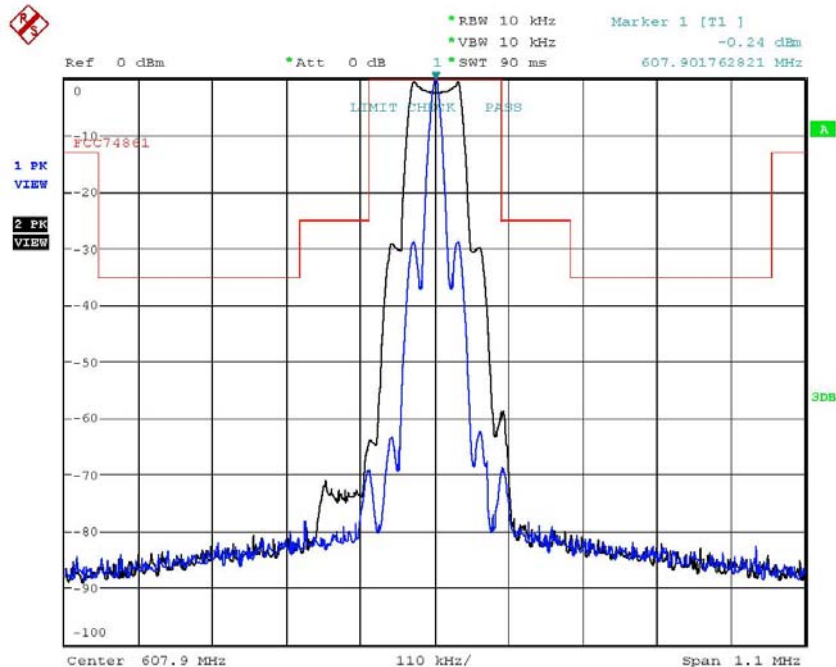
FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC



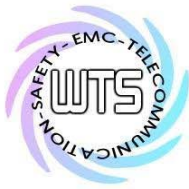
EMISSION MASK 544MHz

Date: 23.MAR.2015 17:21:59



EMISSION MASK 607.9MHz

Date: 23.MAR.2015 17:23:47

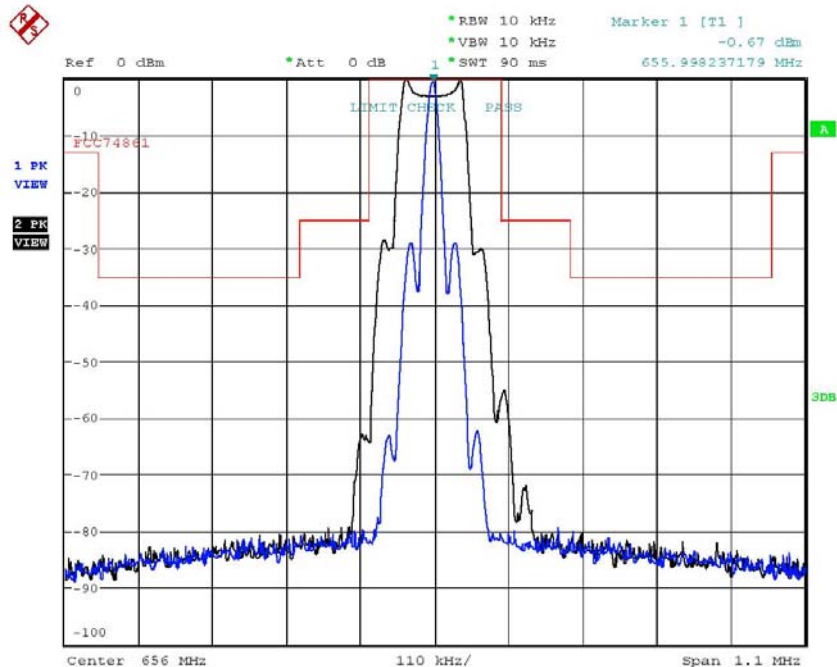
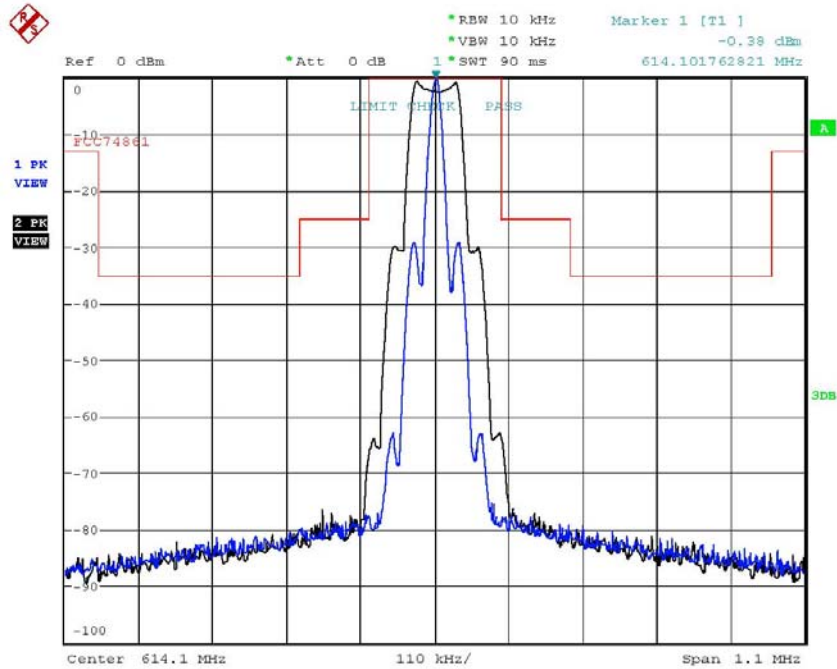


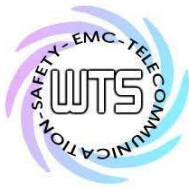
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

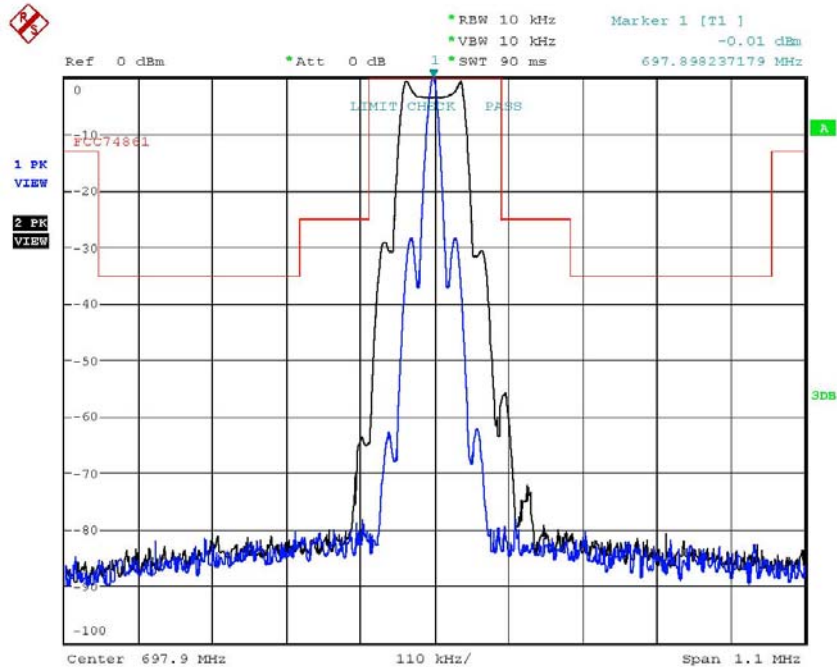




Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC



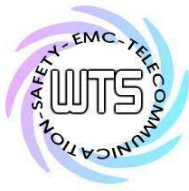
EMISSION MASK 697.9MHz
Date: 23.MAR.2015 16:46:02

**Limit According to FCC PART 74.861(e)(5) and RSS-210 Section 6:
bandwidth shall not exceed 200 kHz.**

8.3 Limit

The operating bandwidth shall not exceed 200 kHz.

Test equipment used: ETSTW-RE 055 , ETSTW-RE 072, ETSTW-RE 050



Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

9 Spurious Emissions at Antenna Terminals FCC2.1051 ; 74.861 (e)

9.1 Test procedure

This transmitter output was connected to a calibrated coaxial attenuator, the other end of which was connected to a spectrum analyzer. Transmitter output was derived with the spectrum analyzer in dBm.

The Spurious Emissions at Antenna Terminals was measured by the spectrum analyzer with a suitable notch filter and high-pass filter.

Tests were performed with an un-modulated carrier at three frequencies (low , middle and high channels) and on all power levels , which can be set-up on the transmitters.

9.2 Test Results

Summary table with conducted data of the test plots for Carrier Test Frequency

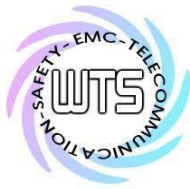
Frequency Marker Indication [MHz]	Indication Power Level [dBm]	Compliance Limit [dBm]	Margin
--	--	--	--
--	--	--	--
--	--	--	--
--	--	--	--
--	--	--	--

9.3 Limit

Compliance with § 74.861 requires that any emission be attenuated below the transmitter power at least $43 + 10 \log_{10} P$ (P = transmitter power in Watts).

The compliance limit was calculated as an example per the following table :

Maximum transmitter output power	17.18 dBm
Required attenuation	$43 + 10 \log_{10} 0.0522396188 \text{ W} = 30.18 \text{ dB}$
Maximum transmitter output power	17.18 dBm
<u>Required attenuation</u>	<u>30.18dB</u>
Compliance limit	-13 dBm



Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

According to RSS-210 and section 6.4.1, the mean power of emissions shall be attenuated below the mean output power of the transmitter in accordance with the following schedule:

The power of unwanted emissions (measured with a resolution bandwidth of 1% of the authorized bandwidth) shall be attenuated below the mean output power, P_{MEAN} in dBW, of the transmitter as follows:

(i) at least 25 dB on any frequency removed from the operating frequency by more than 50% up to and including 100% of the authorized bandwidth; and

(ii) (ii) at least 35 dB on any frequency removed from the operating frequency by more than 100% up to and including 250% of the authorized bandwidth.

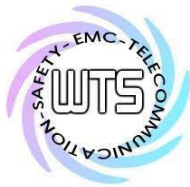
The power of unwanted emissions (measured with a resolution bandwidth of 30 kHz) shall be attenuated below the mean output power, P_{MEAN} in dBW, of the transmitter as follows:

(i) at least $55 + 10\log_{10}(P_{\text{MEAN}} \text{ in watts})$ dB: on any frequency removed from the operating frequency by more than 250% of the authorized bandwidth. The compliance limit was calculated as an example per the following table :

Maximum transmitter output power	17.18 dBm
Required attenuation	$55 + 10 \log_{10} 0.0522396188 \text{ W} = 42.18 \text{ dB}$
Maximum transmitter output power	17.18 dBm
<u>Required attenuation</u>	<u>42.18 dB</u>
Compliance limit	-25 dBm

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

Explanation : This test is not applicable.



Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

10 Radiated Spurious Emission , FCC 2.1053 ; 74.861 (e)

10.1 Test procedure

The EUT was positioned on a non-conductive turntable , 0.8m above the ground plane.

The radiated emission at the fundamental frequency was measured at 3 m distance with a test antenna and spectrum analyzer.

Worst case emission was recorded with the rotation of the turntable and the raising and lowering of the test antenna.

ERP was measured using a substitution method. The EUT was replaced by reference antenna connected to a signal generator.

The test of spurious radiated emission have been carried out with the ESK-Software from Rode & Schwarz. The measurements below 1GHz were performed with a measurement bandwidth of 100kHz, above 1GHz with a bandwidth of 1 MHz.

Spurious emission limits near the carrier are defined by a emission mask. This measurements are done in conducted mode.

10.2 Test Results

The measurements of the spurious emission at the upper , center and lower channel.

The measurement diagrams show that all significant spurs are well below the limit line.

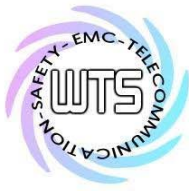
Summary table with radiated data of the test plots for Carrier Test Frequency

Model:	--	Date:	--				
Mode:	--	Temperature:	--	°C	Engineer:	--	
Polarization:	Horizontal	Humidity:	--	%			
Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--

Polarization:	Vertical						
Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--

Note:

1. Correction Factor = Antenna Gain + Cable Loss + Amplifier Gain
2. The formula of measured value as: Test Result = Reading + Correction Factor
3. All not in the table noted test results are more than 20 dB below the relevant limits.
4. Measurement uncertainty: 30-200MHz : ± 2.11 dB, 200-1000MHz : ± 2.09 dB, 1-18GHz : ± 2.71 dB
Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.
5. See the attached diagram as appendix.



Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

10.3 Explanation of test result

The measurements of the spurious emissions at the equipment output terminals were performed pursuant to the test procedure above in order to verify that any emissions are below the limits given by § 74.861 (6).

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.

In the Table being listed the critical peak and average value an exhibit the compliance with the above calculated Limits.

10.4 Limits

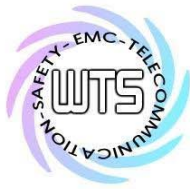
Compliance with § 74.861 requires that any emission be attenuated below the transmitter power at least $43 + 10 \log_{10} P$ (P = transmitter power in Watts).

The compliance limit was calculated as an example per the following table :

Maximum transmitter output power	17.18 dBm
Required attenuation	$43 + 10 \log_{10} 0.0522396188 \text{ W} = 30.18 \text{ dB}$
Maximum transmitter output power	17.18 dBm
<u>Required attenuation</u>	<u>30.18 dB</u>
Compliance limit	-13 dBm

Test equipment used: ETSTW-RE 004, ETSTW-RE 122, ETSTW-RE 030,
ETSTW-RE 042, ETSTW-RE 043, ETSTW-RE 044

Explanation : see attached diagrams in appendix.



Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

11 Line Conducted Emission , FCC 15.207

11.1 Test procedure

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.

11.2 Test Results

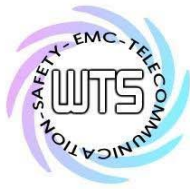
Model:	--	Date:	--					
Mode:	--	Temperature:	--	°C		Engineer:	--	
Polarization:	--	Humidity:	--	%				
Frequency (MHz)	Reading (dBuV) QP Ave.		Factor (dB) Corr.	Result (dBuV) QP Ave.		Limit (dBuV) QP Ave.		Margin (dB)
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

Polarization: L1

Frequency (MHz)	Reading (dBuV) QP Ave.		Factor (dB) Corr.	Result (dBuV) QP Ave.		Limit (dBuV) QP Ave.		Margin (dB)
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

- 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 = ± 1.41 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.
 7. This test is not required because the EUT uses battery.

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



Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

12 Frequency Stability vs. Temperature , FCC 2.1055 , 74.861 (e)

12.1 Test procedure

The equipment under test was connected to an external DC power supply and the RF output was connected to a frequency counter via feed through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable, exited the chamber through an opening made for that purpose.

After the temperature stabilized the frequency output was recorded from the counter.

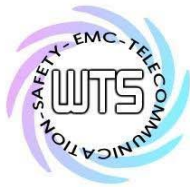
12.2 Test Results

480.1 MHz

°C	Freq	Error(kHz)	Error(ppm)
-30	480.106132	4.529	9.433
-20	480.106117	4.514	9.402
-10	480.105518	3.915	8.155
0	480.104251	2.648	5.515
+10	480.103156	1.553	3.235
+20	480.101603	0.000	0.000
+30	480.099925	-1.678	-3.495
+40	480.098320	-3.283	-6.838
+50	480.096571	-5.032	-10.481
Limit		24.005	50

544 MHz

°C	Freq	Error(kHz)	Error(ppm)
-30	544.007000	5.394	9.915
-20	544.006992	5.386	9.901
-10	544.006291	4.685	8.612
0	544.004741	3.135	5.763
+10	544.003941	2.335	4.292
+20	544.001606	0.000	0.000
+30	544.000131	-1.475	-2.711
+40	543.998310	-3.296	-6.059
+50	543.996251	-5.355	-9.844
Limit		27.200	50



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Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

607.9 MHz

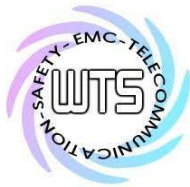
°C	Freq	Error(kHz)	Error(ppm)
-30	607.907211	5.609	9.227
-20	607.907211	5.609	9.227
-10	607.906410	4.808	7.909
0	607.904808	3.206	5.274
+10	607.904006	2.404	3.955
+20	607.901602	0.000	0.000
+30	607.900000	-1.602	-2.635
+40	607.898397	-3.205	-5.272
+50	607.895994	-5.608	-9.225
Limit		30.395	50

614.1 MHz

°C	Freq	Error(kHz)	Error(ppm)
-30	614.107525	5.922	9.643
-20	614.107462	5.859	9.541
-10	614.106001	4.398	7.162
0	614.105000	3.397	5.532
+10	614.103921	2.318	3.775
+20	614.101603	0.000	0.000
+30	614.099925	-1.678	-2.732
+40	614.098320	-3.283	-5.346
+50	614.096050	-5.553	-9.042
Limit		30.705	50

656 MHz

°C	Freq	Error(kHz)	Error(ppm)
-30	656.000000	2.404	3.665
-20	656.000801	3.205	4.886
-10	656.000801	3.205	4.886
0	656.000000	2.404	3.665
+10	655.999198	1.602	2.442
+20	655.996794	-0.802	-1.223
+30	655.995994	-1.602	-2.442
+40	655.994391	-3.205	-4.886
+50	655.992788	-4.808	-7.329
Limit		32.800	50



Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

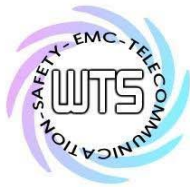
IC: 2978A-ACT70HC

697.9 MHz

°C	Freq	Error(kHz)	Error(ppm)
-30	697.900972	3.376	4.837
-20	697.900972	3.376	4.837
-10	697.900762	3.166	4.536
0	697.900026	2.430	3.482
+10	697.899064	1.468	2.103
+20	697.897596	0.000	0.000
+30	697.895791	-1.805	-2.586
+40	697.894118	-3.478	-4.984
+50	697.892154	-5.442	-7.798
Limit		34.895	50

**Limit According to FCC PART 74.861(e)(4) and IC RSS-210 section 6 Table 1:
The frequency tolerance of the transmitter shall be 0.005 percent.**

Test equipment used: ETSTW-RE 055, ETSTW-CE 009



Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

13 Frequency Stability vs. Voltage , FCC 2.1055 (d) ; 74.861 (e)

13.1 Test procedure

An external variable DC power supply was connected to the battery terminals of the equipment under test.

For hand carried , battery powered equipment primary supply voltage was reduced to the battery operating end point as specified by the manufacturer. The output frequency was recorded for each battery voltage.

13.2 Test Results

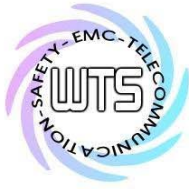
Test voltage: 3.145 Vd.c.

Frequency in MHz	Frequency Error (kHz)	Frequency Error (ppm)
480.101603	0.000	0.000
544.001606	0.000	0.000
607.901602	0.000	0.000
614.101603	0.000	0.000
655.997596	0.000	0.000
697.897596	0.000	0.000

Limit : $\pm 0.005\%$

**Limit According to FCC PART 74.861(e)(4) and IC RSS-210 section 6 Table 1:
The frequency tolerance of the transmitter shall be 0.005 percent.**

Test equipment used: ETSTW-RE 055



Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

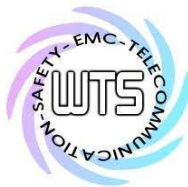
Appendix

A Photos

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

B Measurement diagrams

1. Modulation Deviation and Audio frequency response
2. Radiation Spurious Emission



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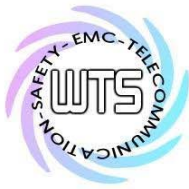
Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

External Photos





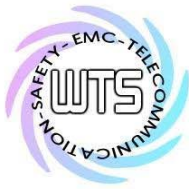
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC





Worldwide Testing Services(Taiwan) Co., Ltd.

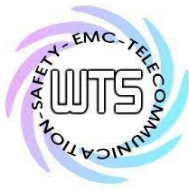
Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

Internal Photos





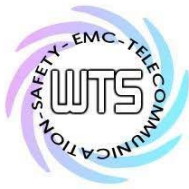
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC



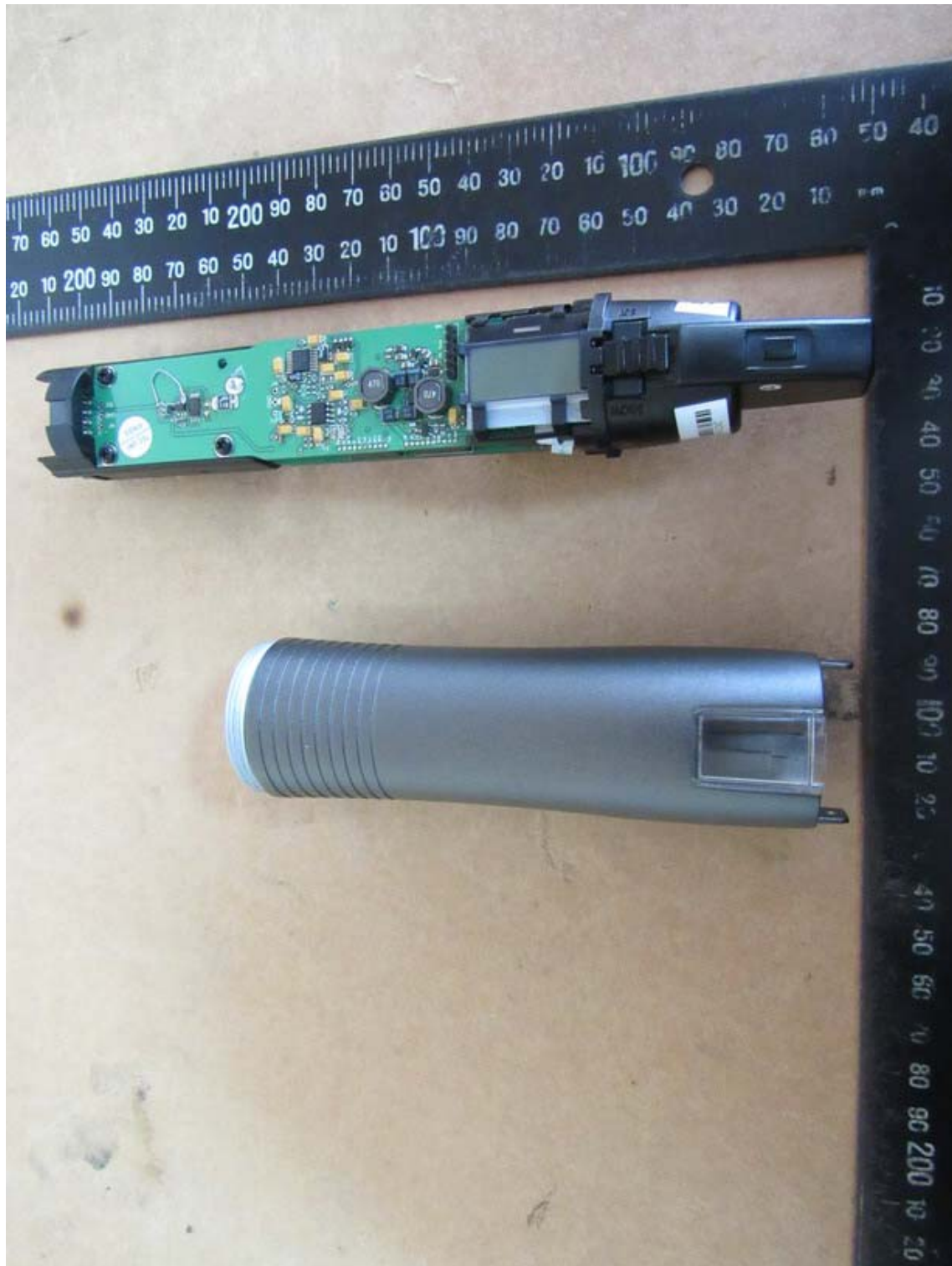


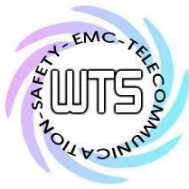
Worldwide Testing Services(Taiwan) Co., Ltd.

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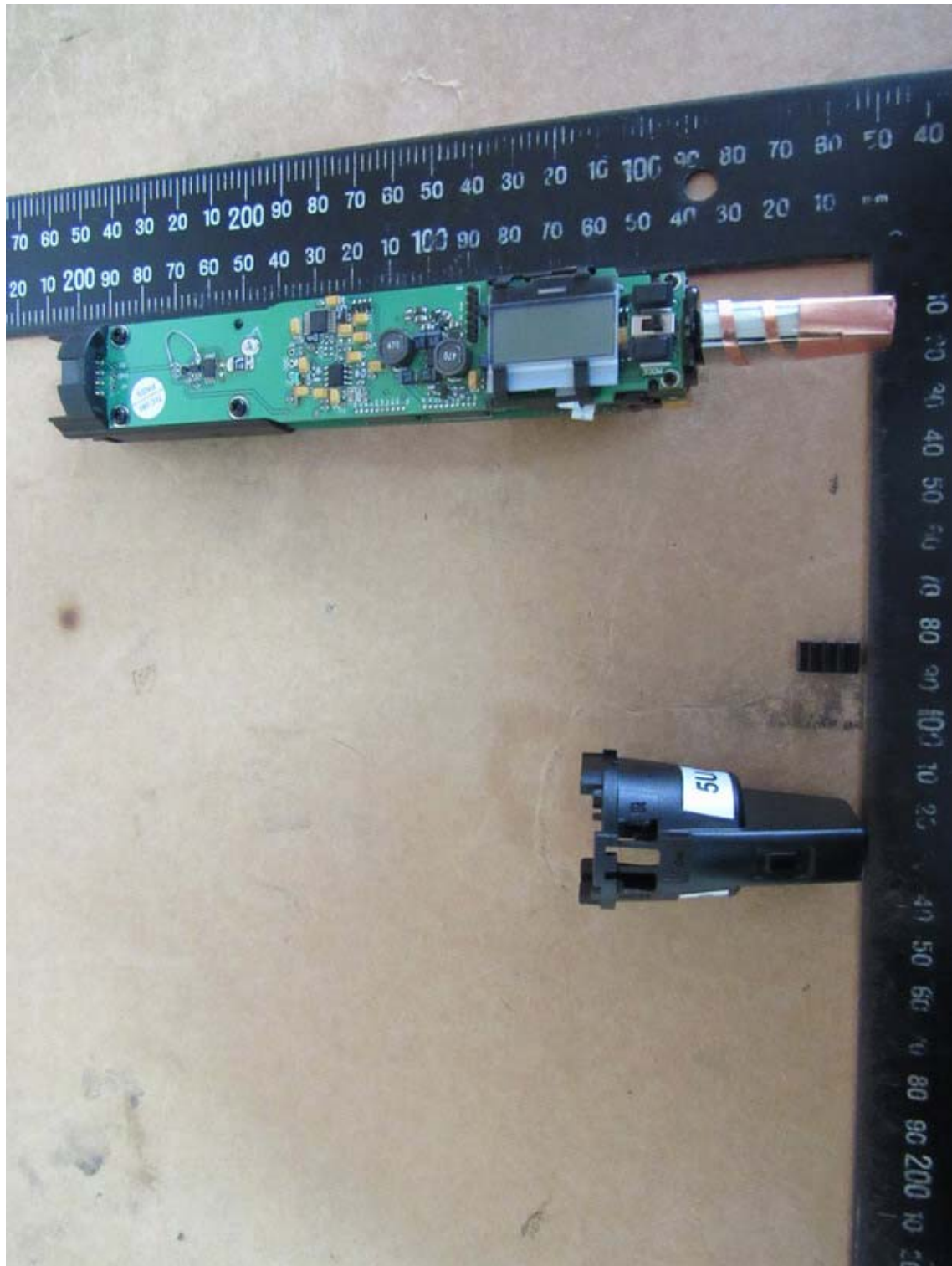


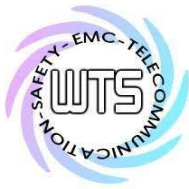
Worldwide Testing Services(Taiwan) Co., Ltd.

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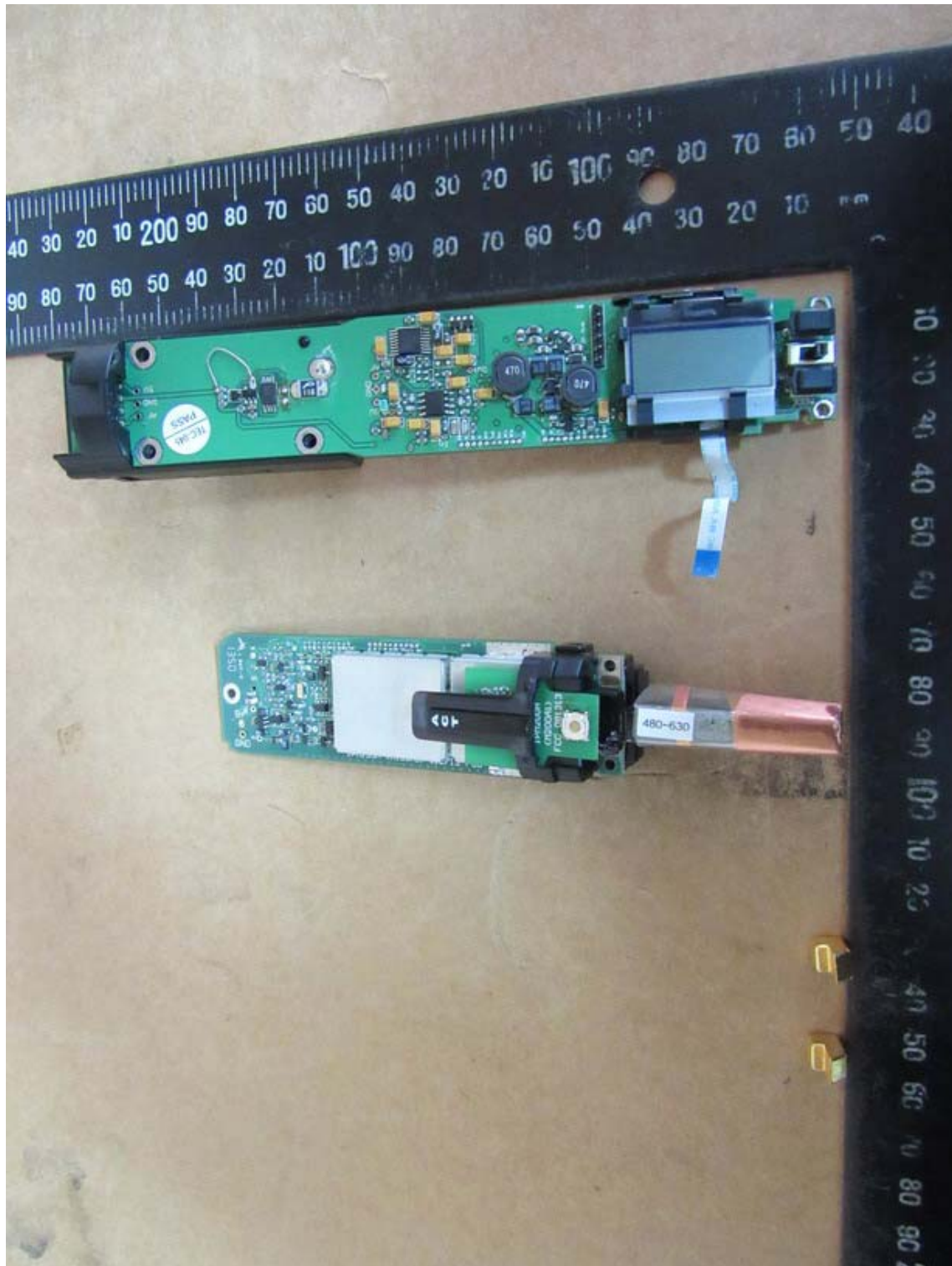


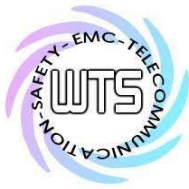
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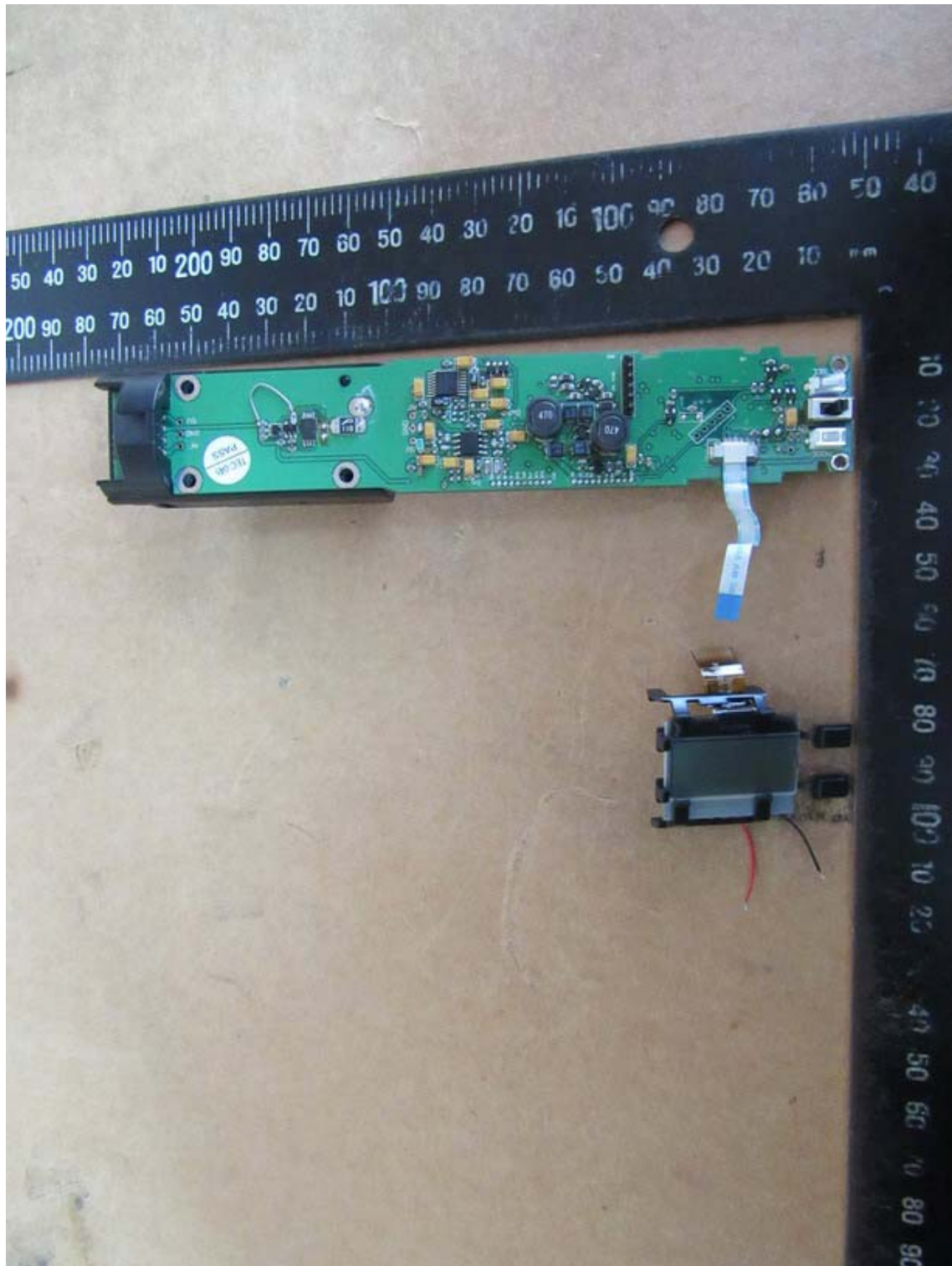


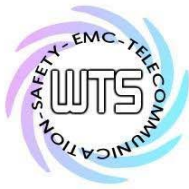
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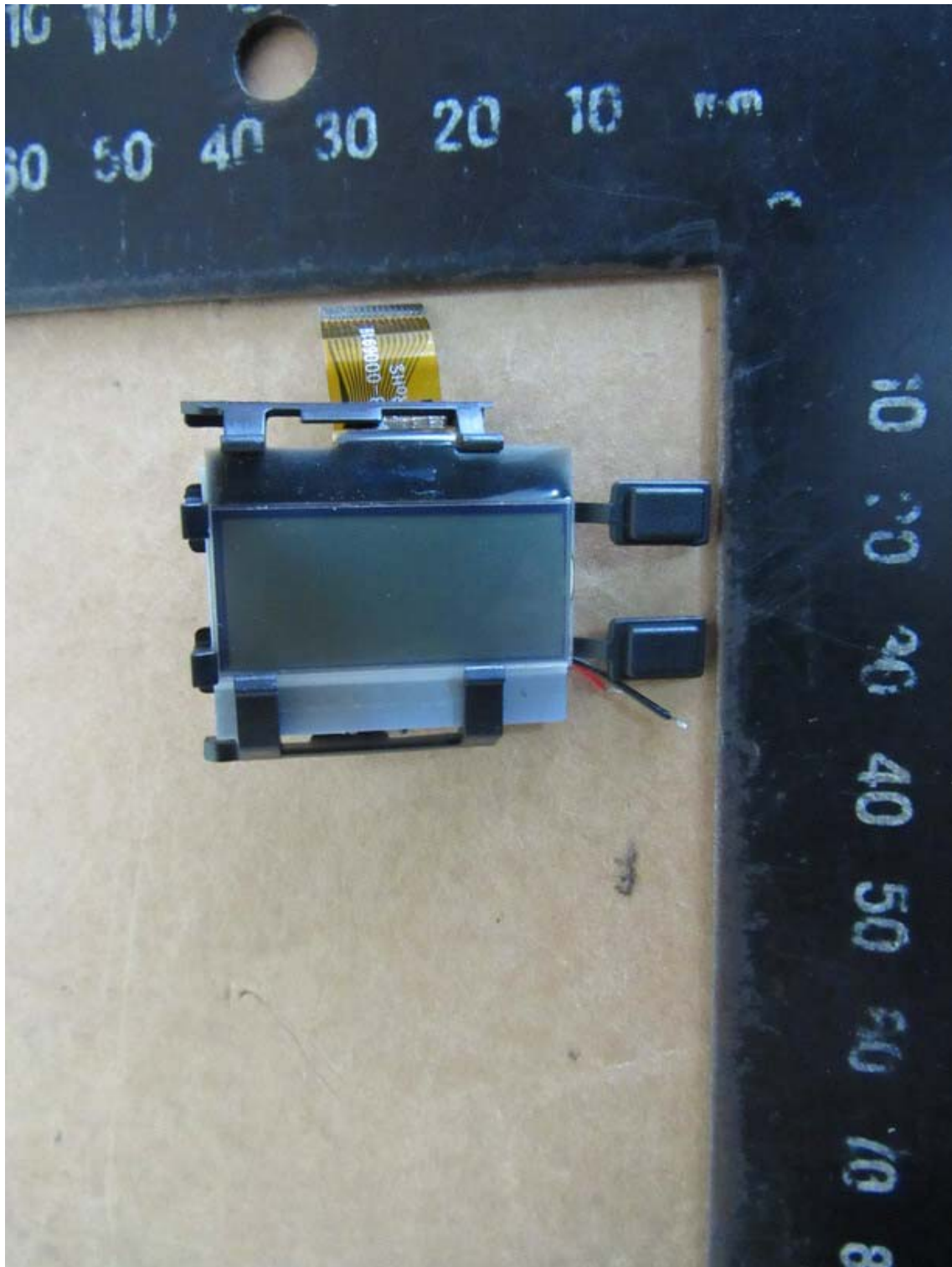


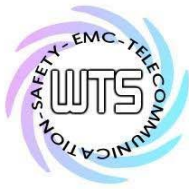
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14185-C-1

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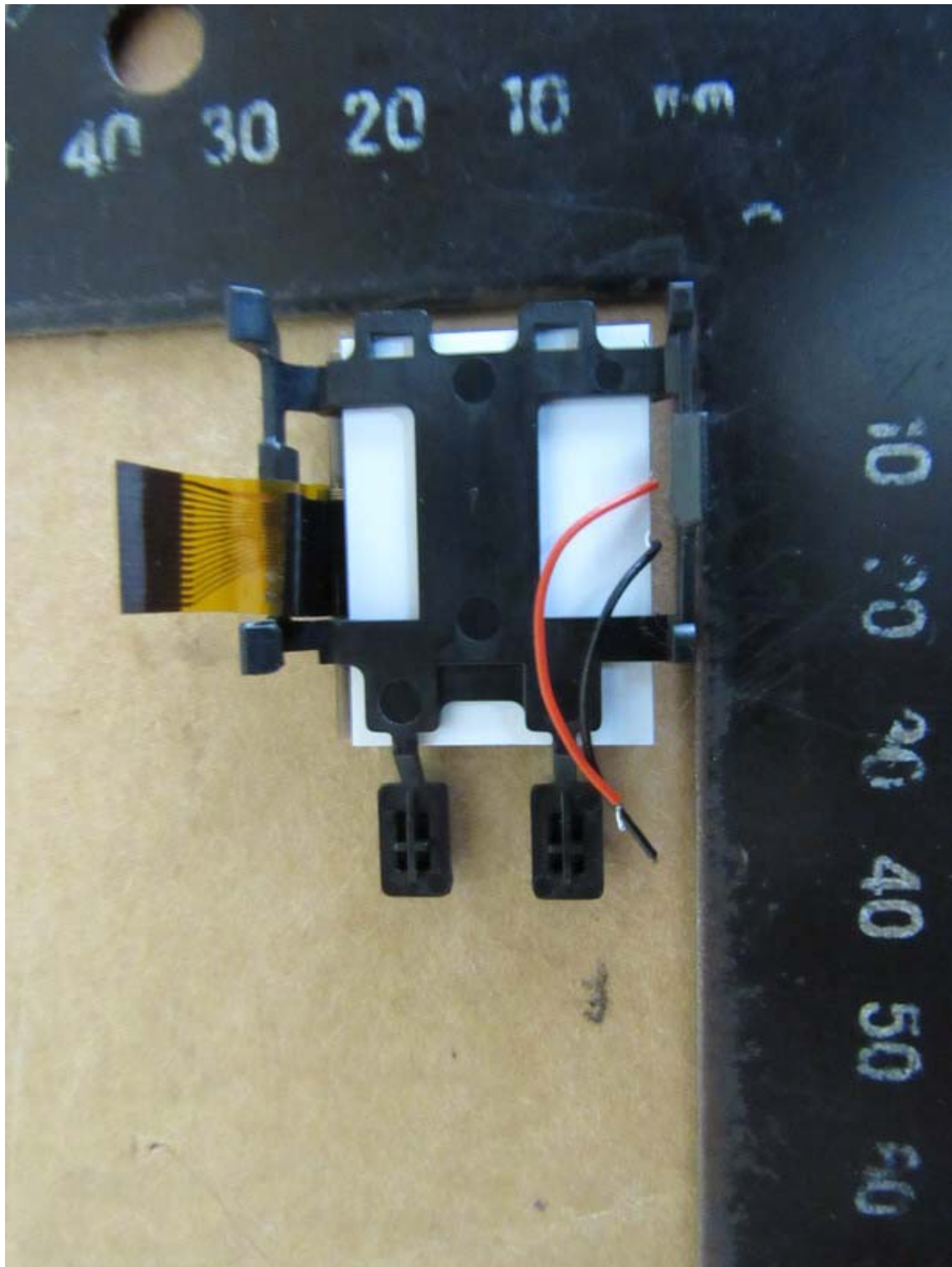


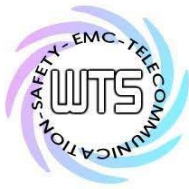
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14185-C-1

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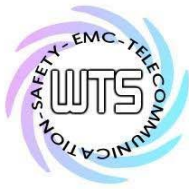
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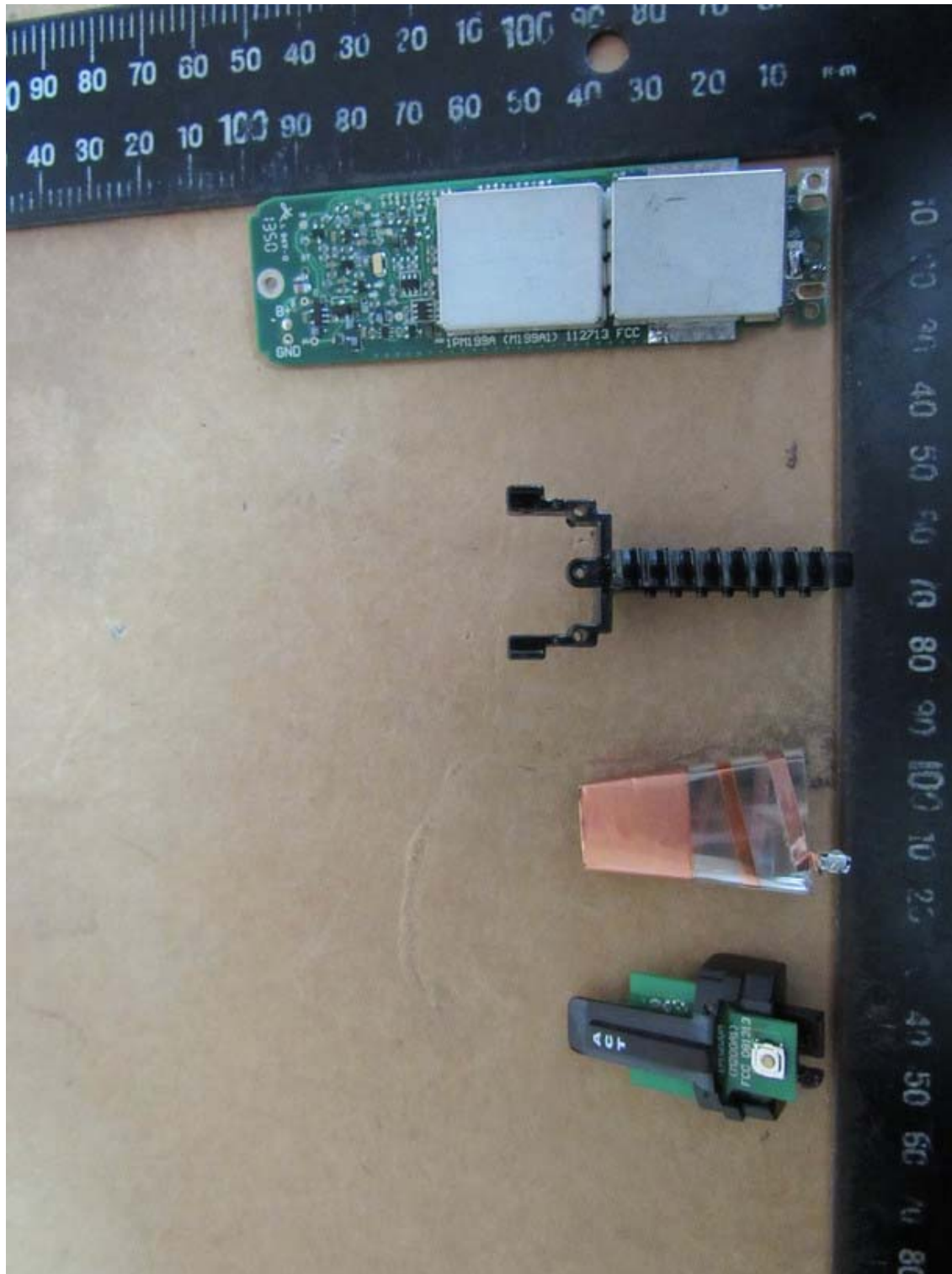


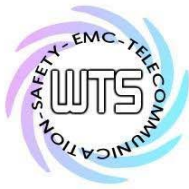
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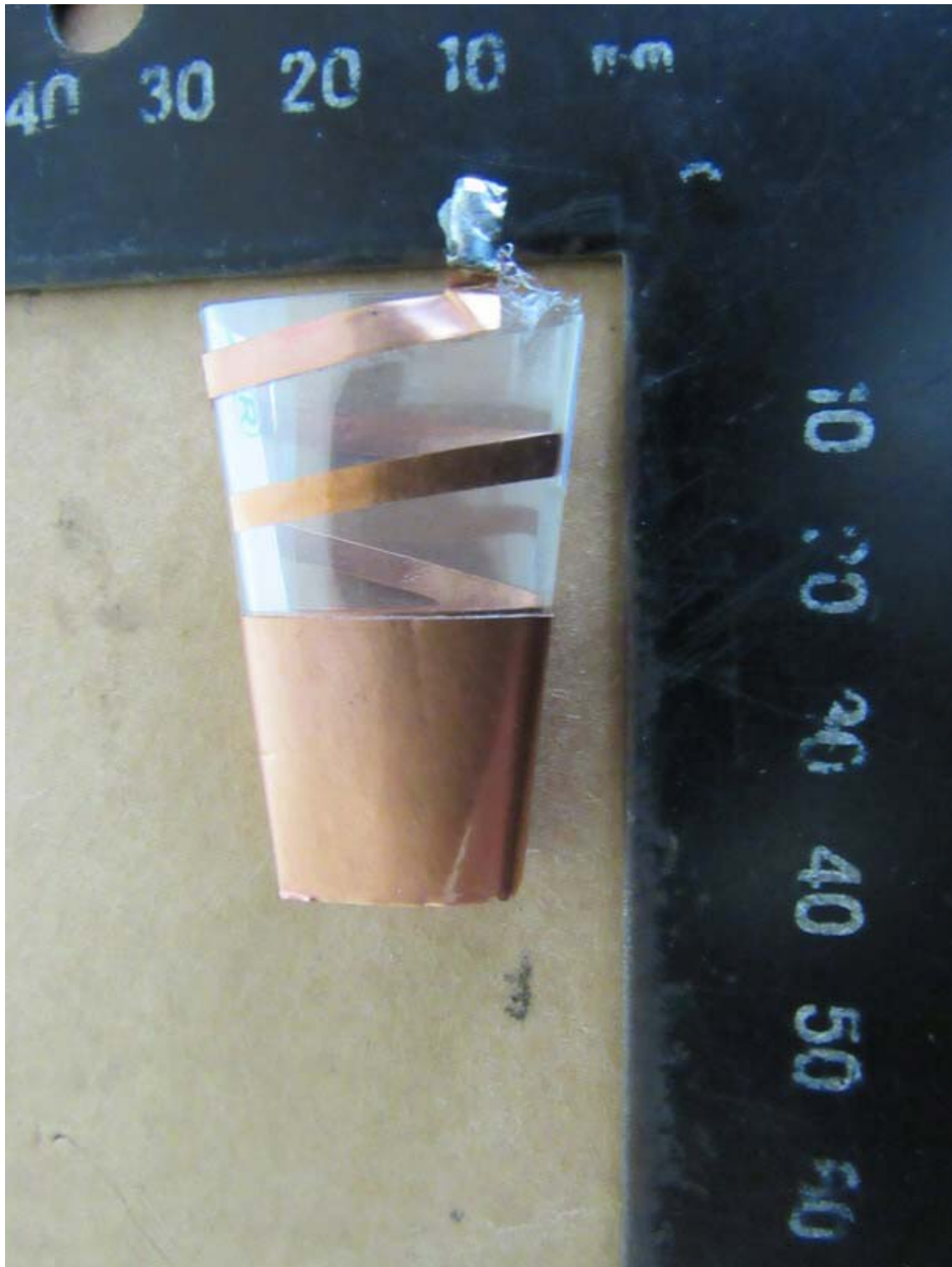


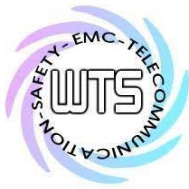


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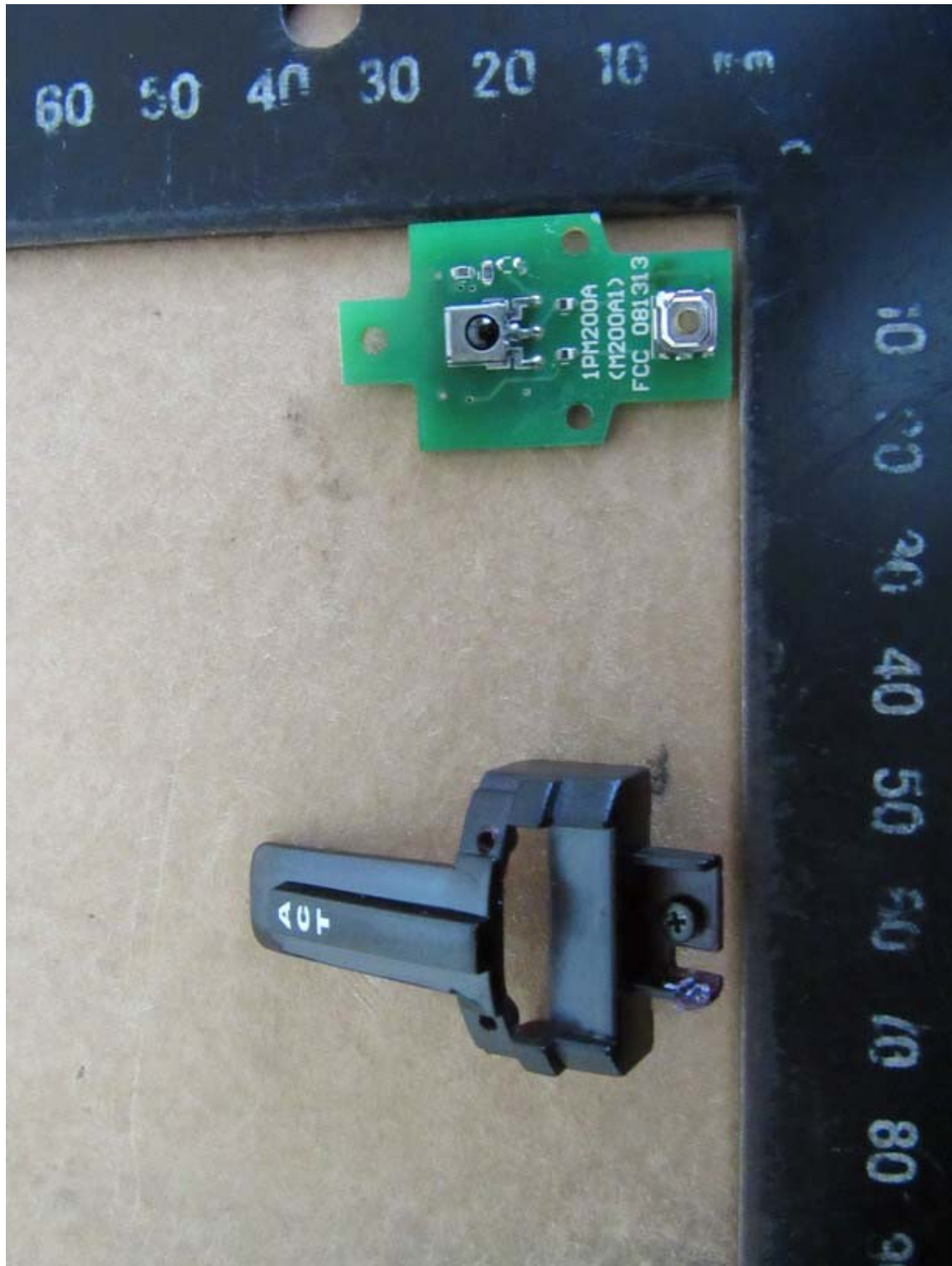


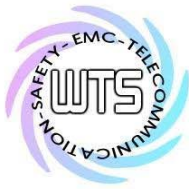
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Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

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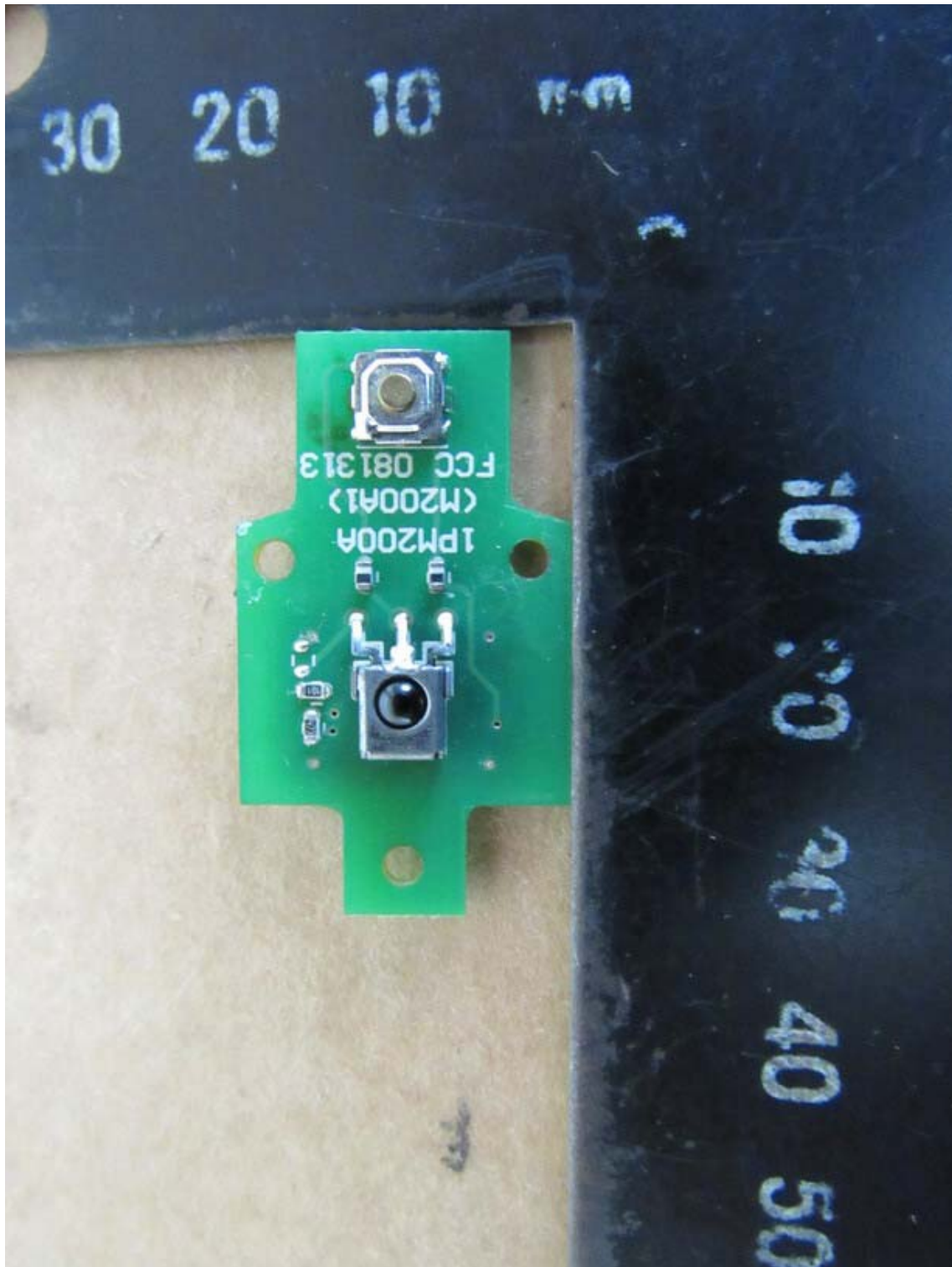


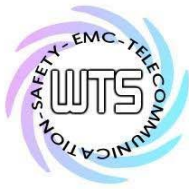
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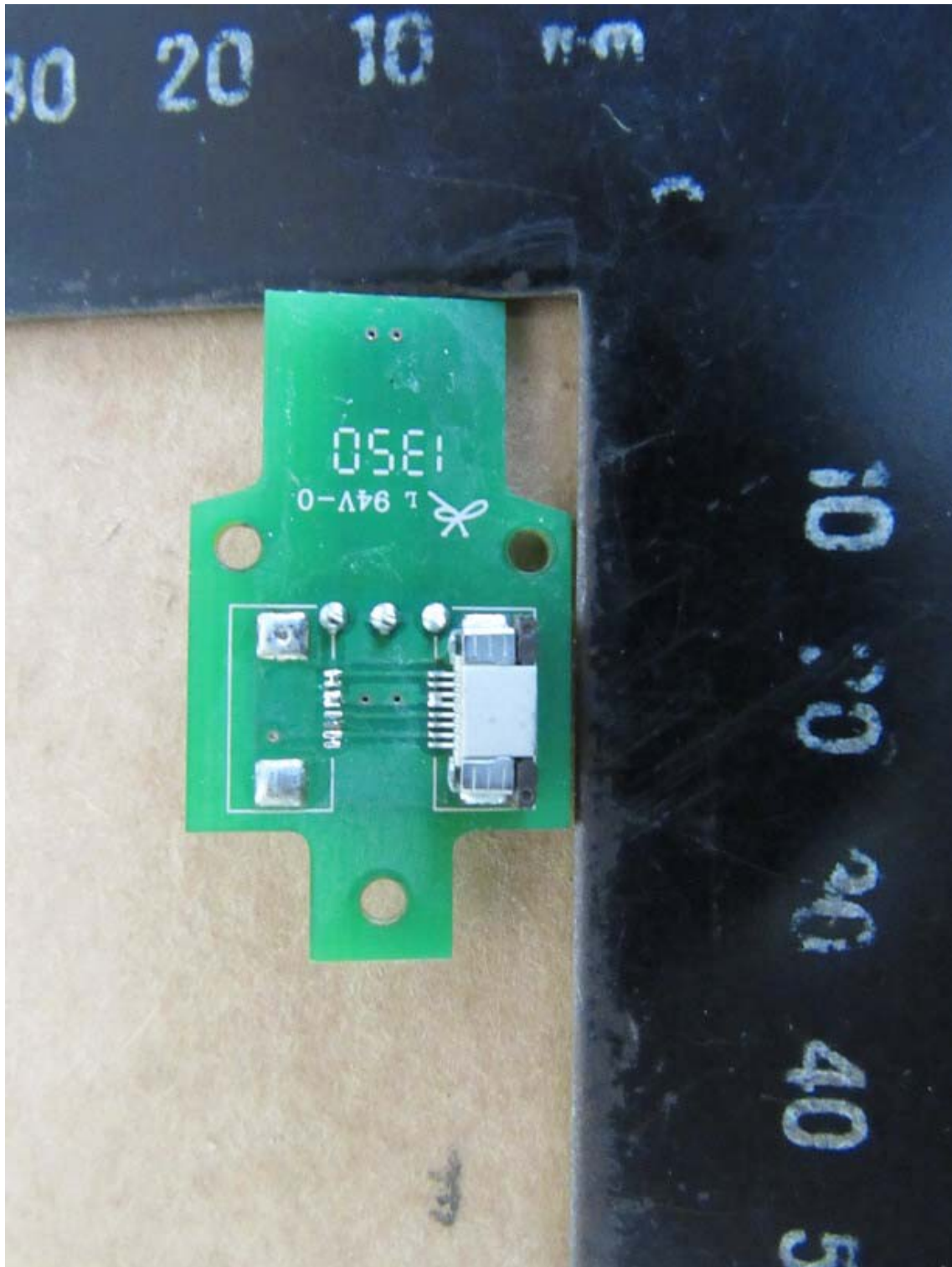


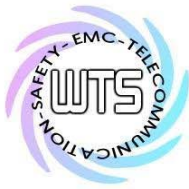


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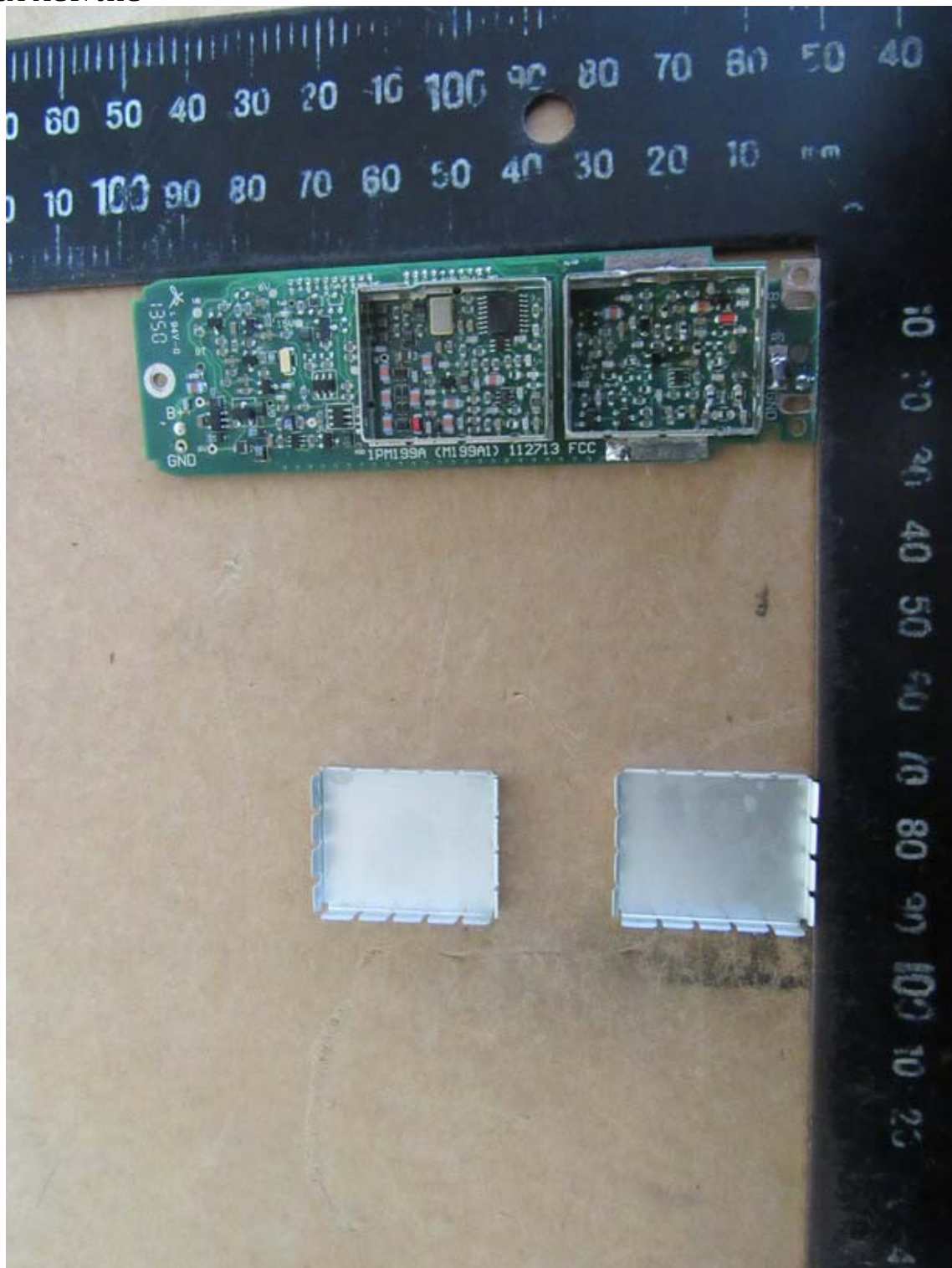


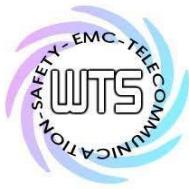


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FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC



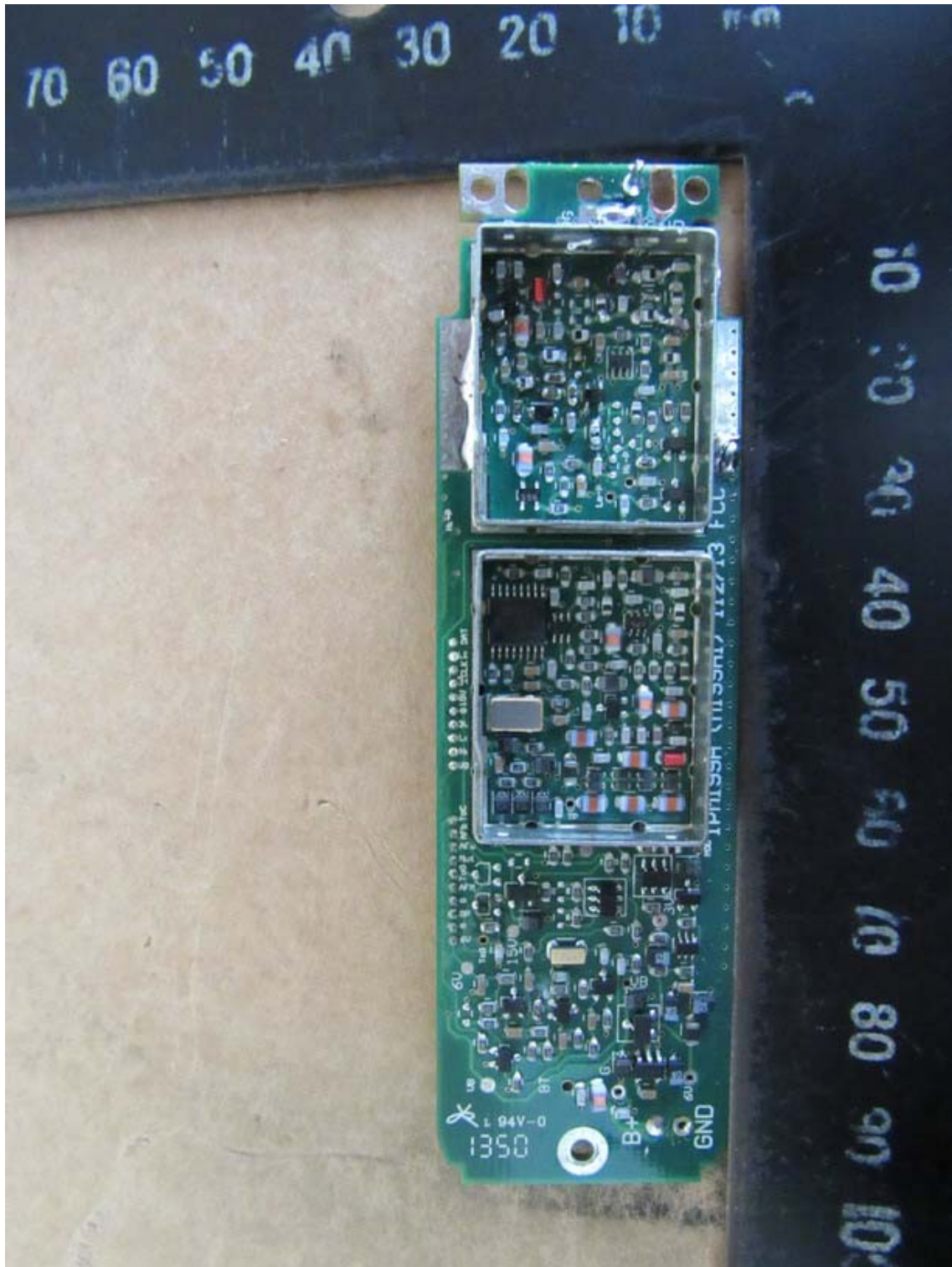


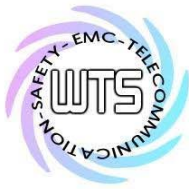
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC





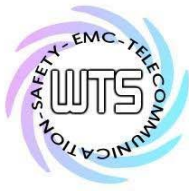
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC





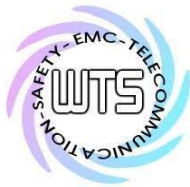
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC



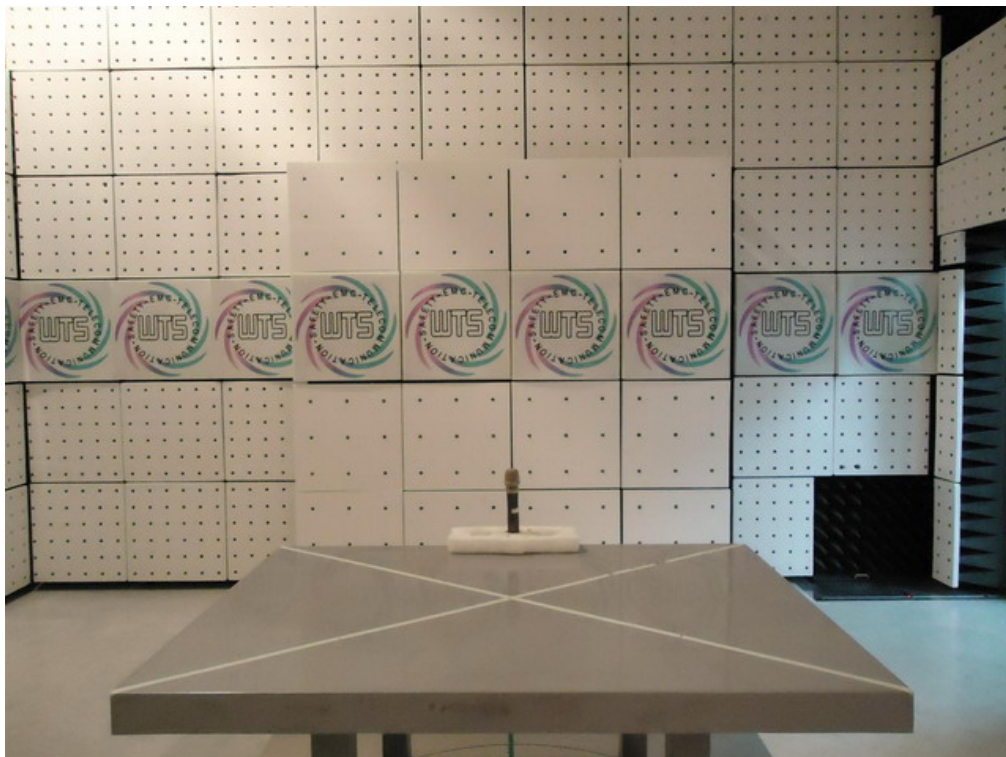
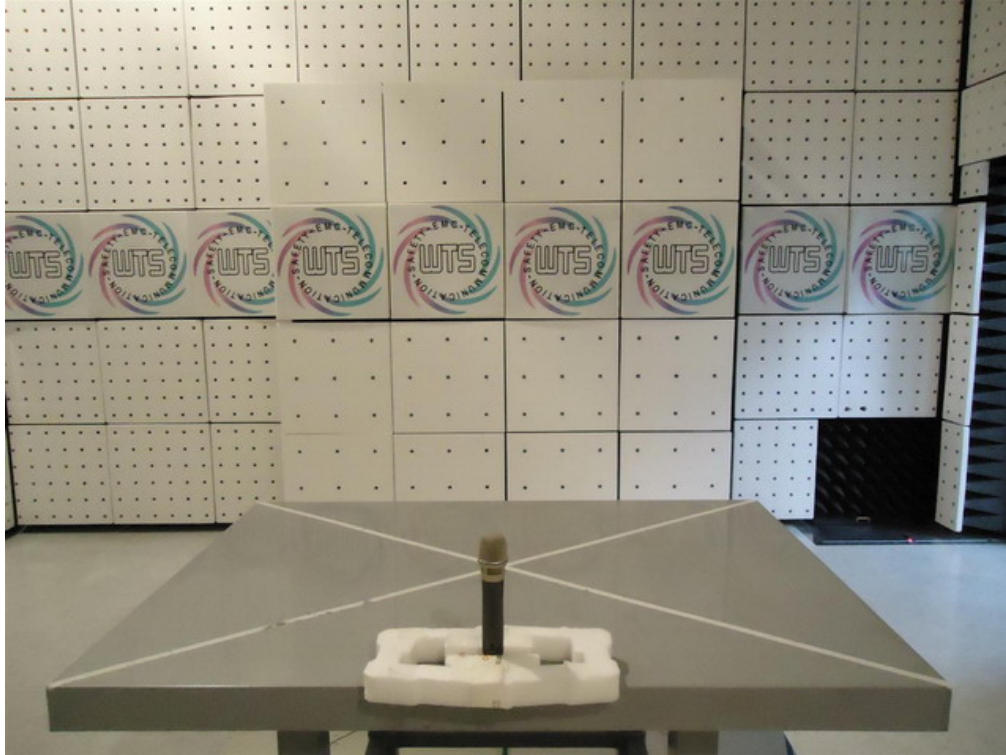


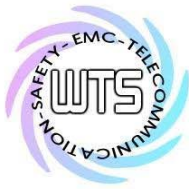
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FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

Set Up Photo of Radiated Emission





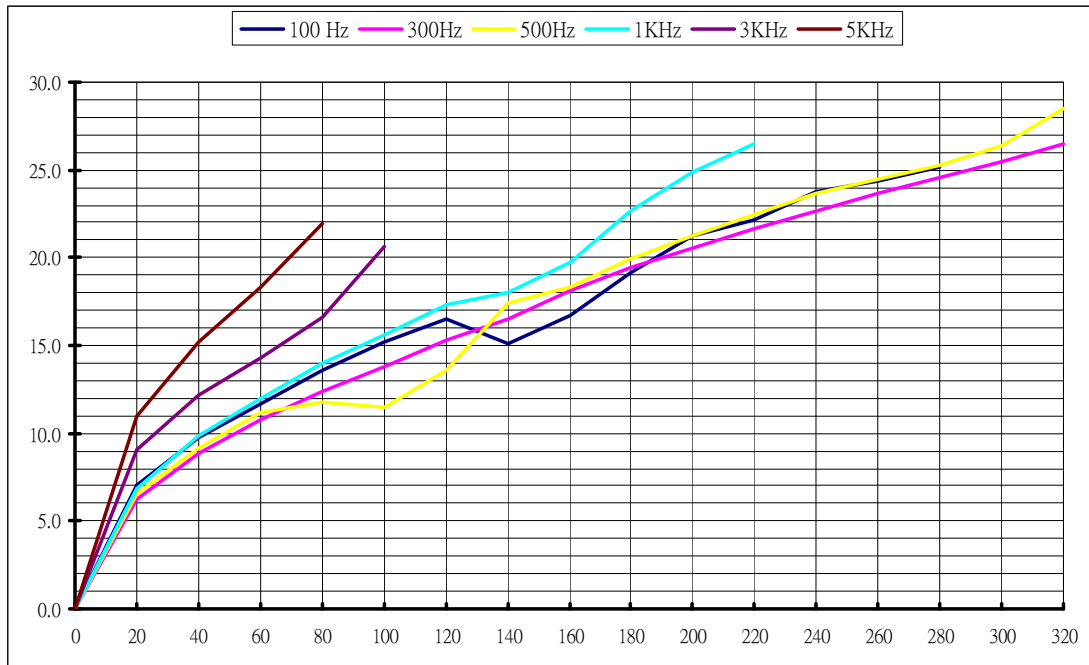
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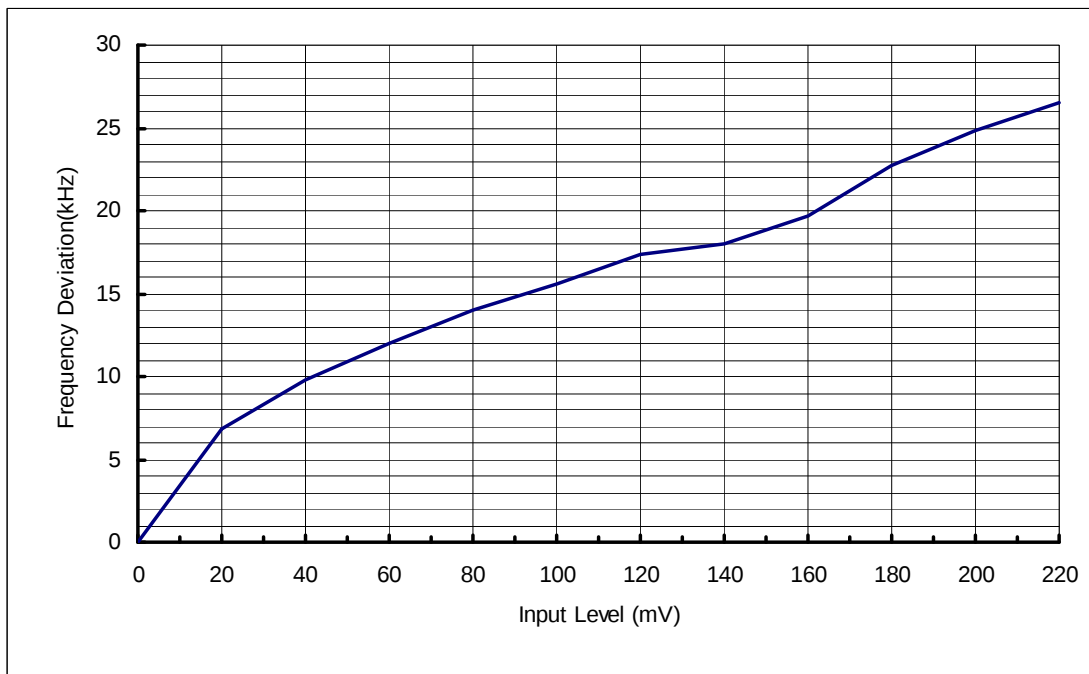
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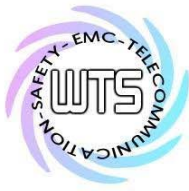
480.1 MHz

Modulation Characteristics



Frequency Deviation at 1kHz



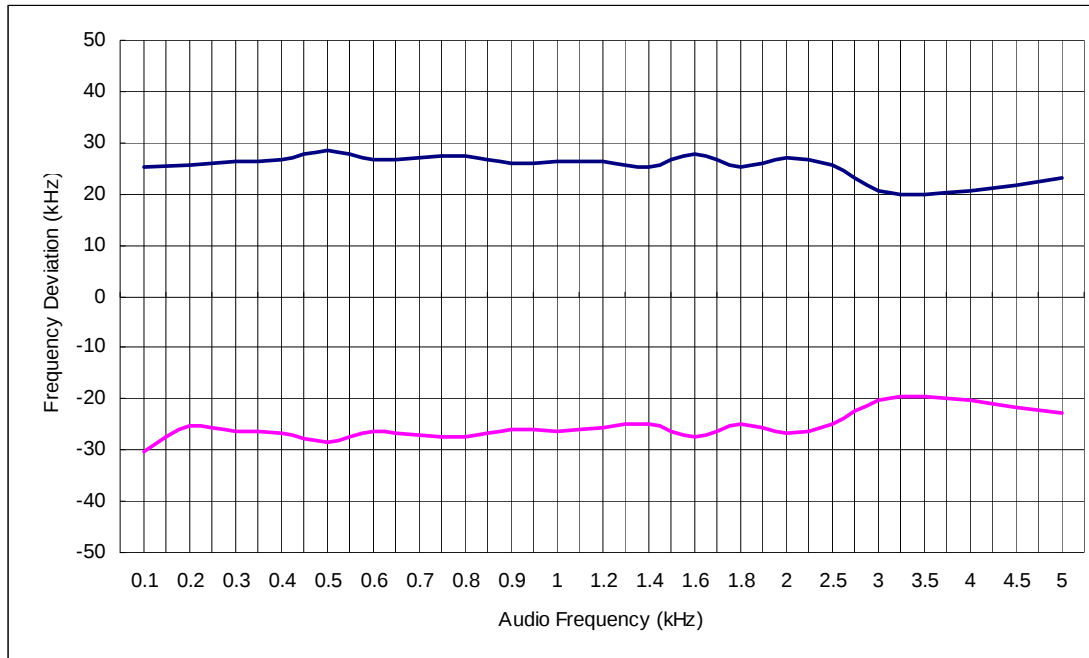


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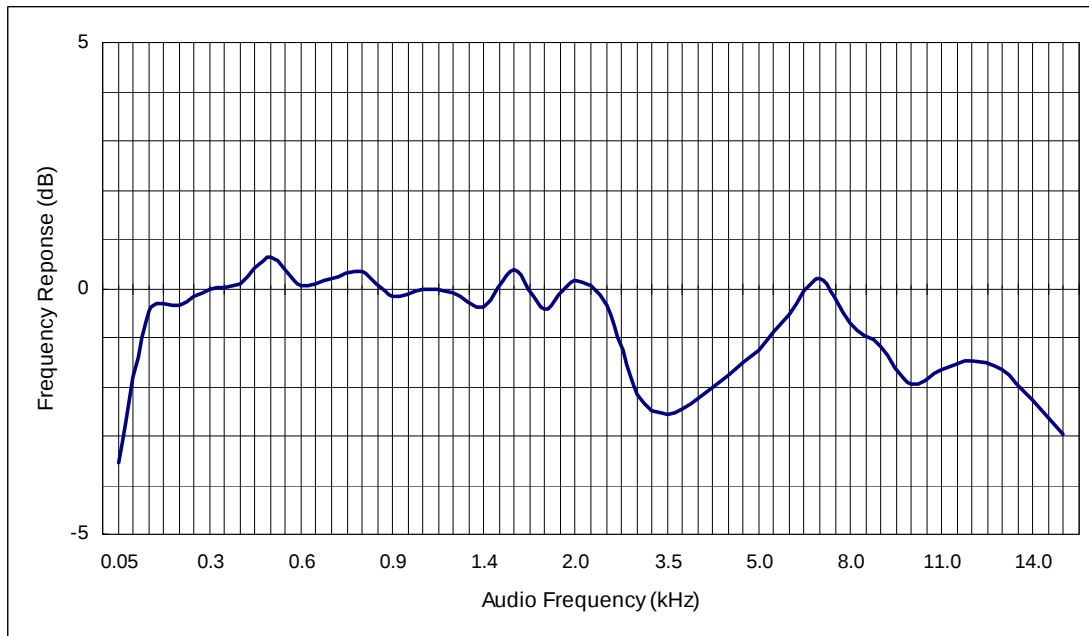
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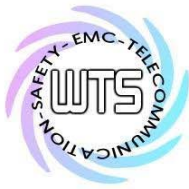
IC: 2978A-ACT70HC

Frequency Deviation



Audio Response





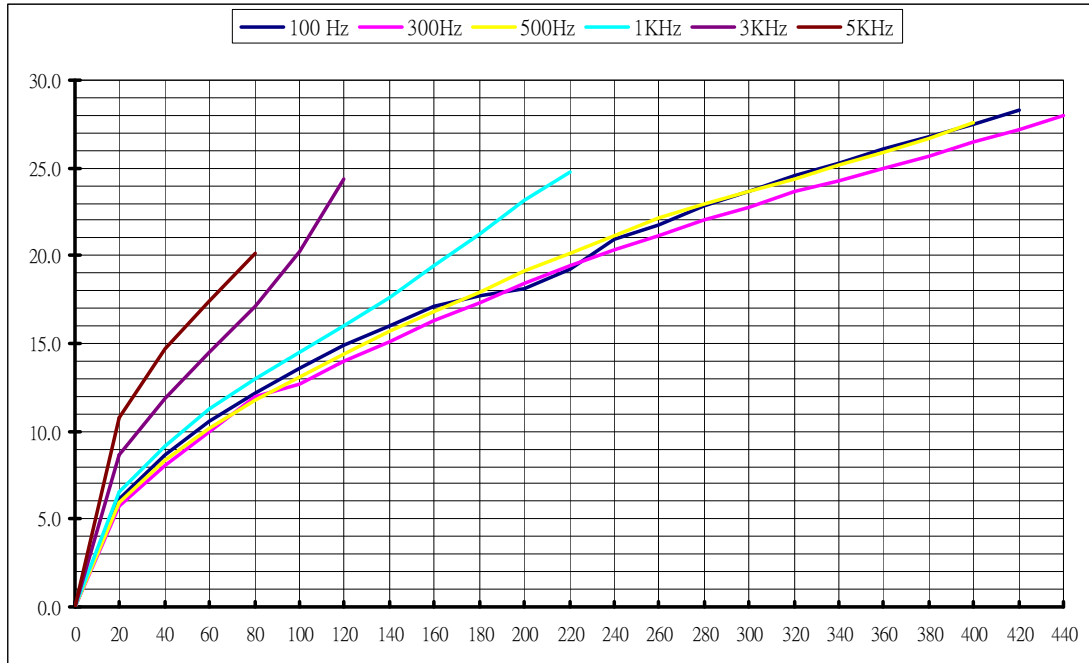
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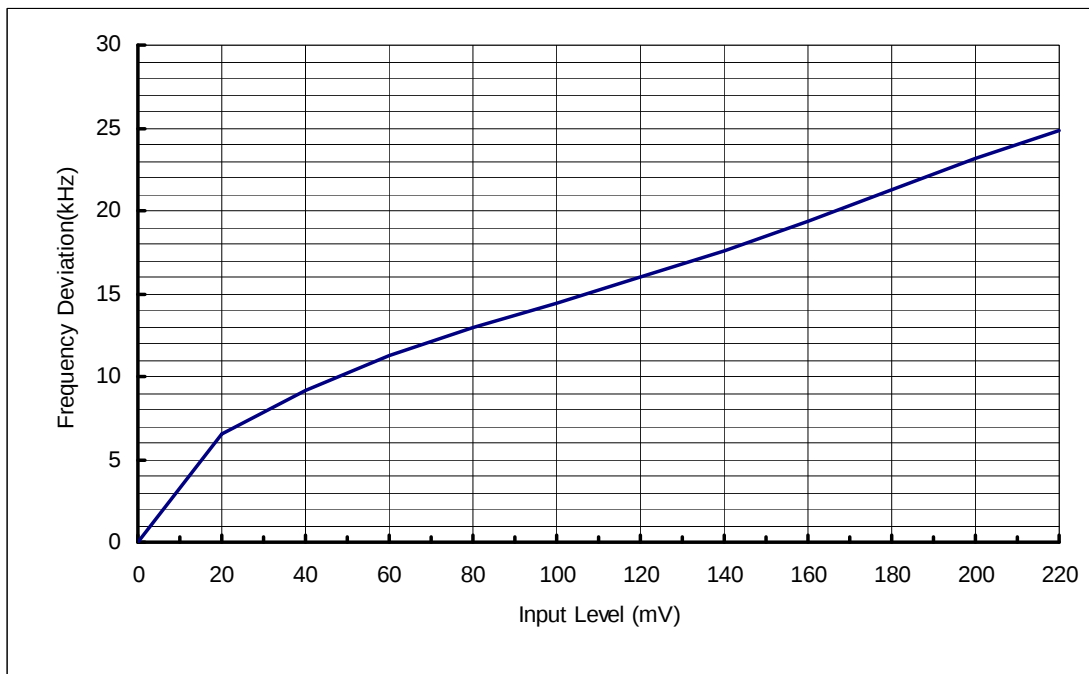
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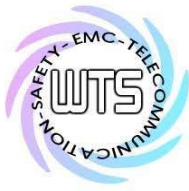
544MHz

Modulation Characteristics



Frequency Deviation at 1kHz



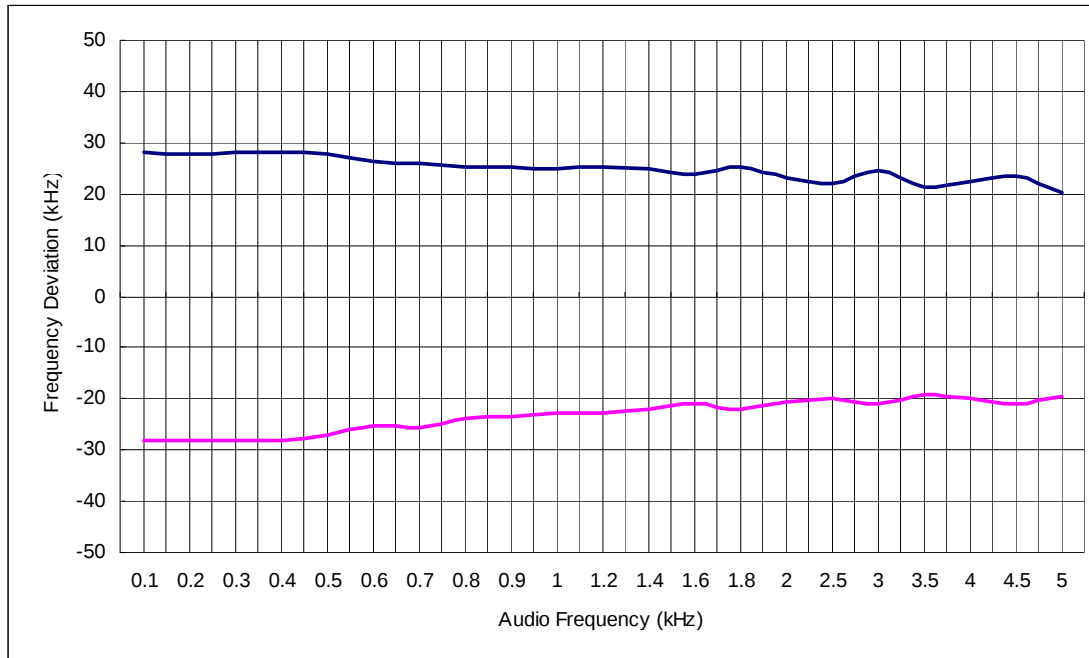


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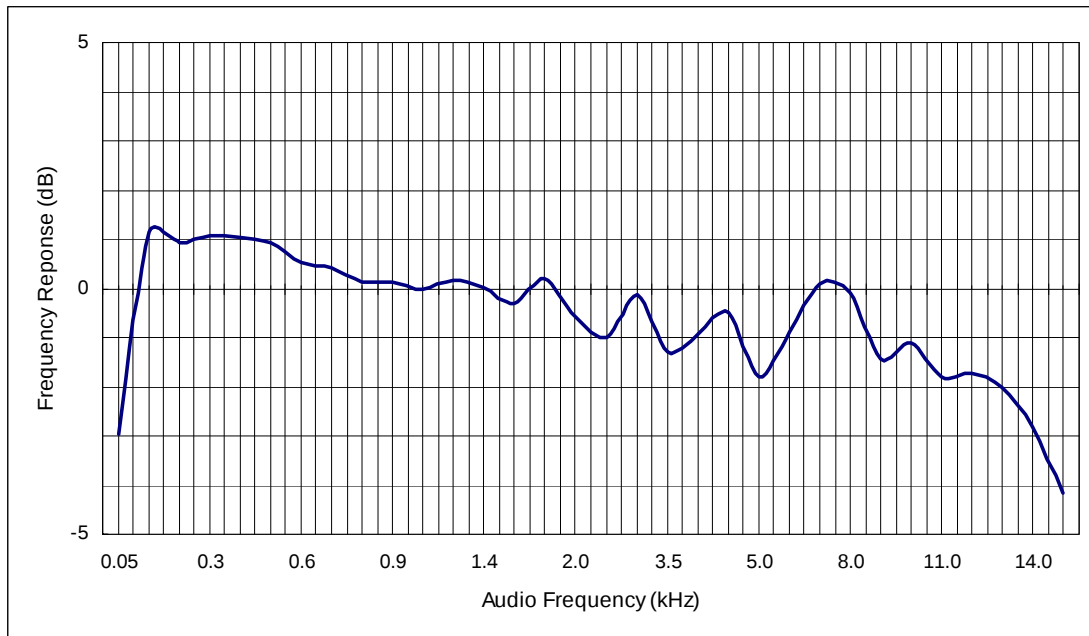
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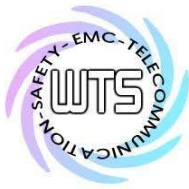
IC: 2978A-ACT70HC

Frequency Deviation



Audio Response





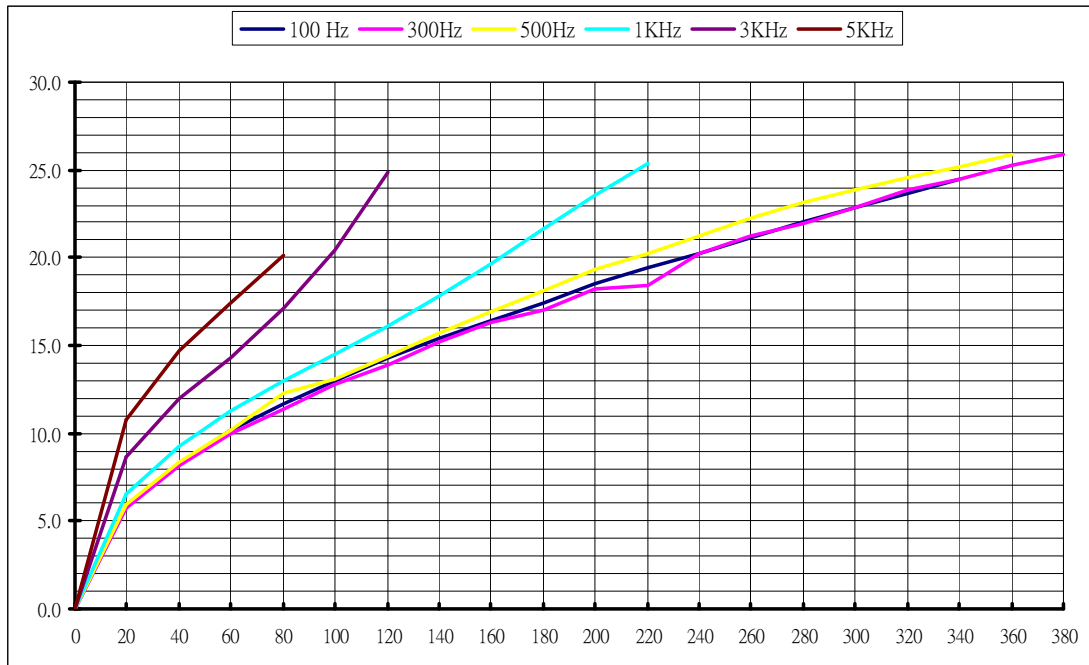
Registration number: W6M21405-14185-C-1

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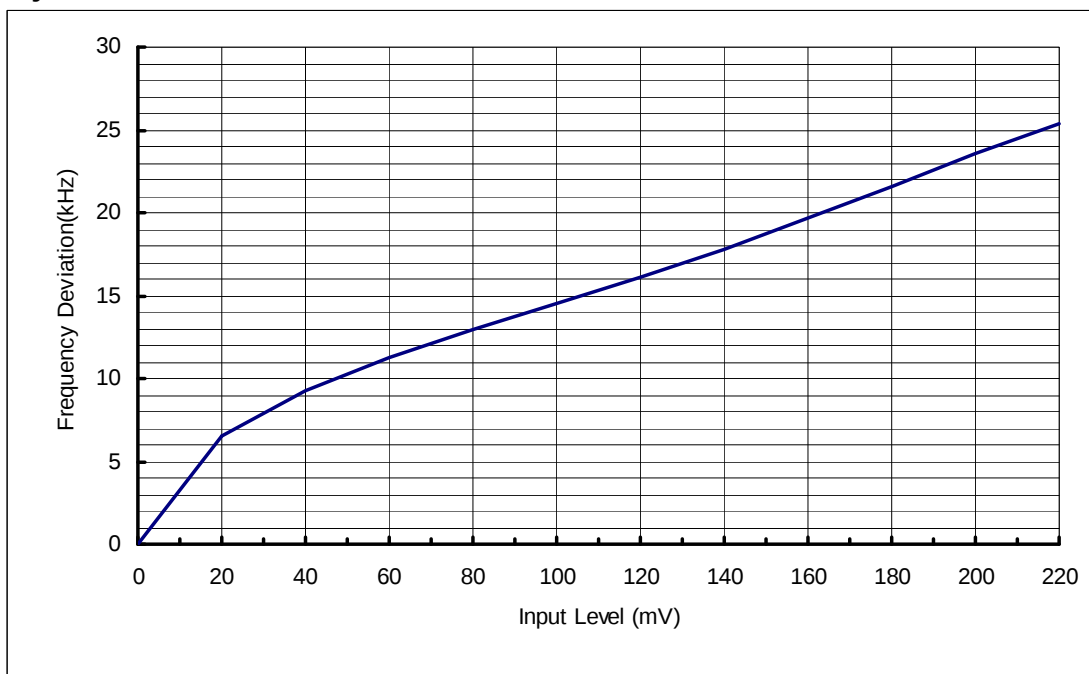
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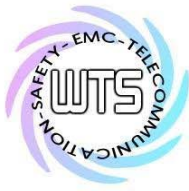
607.9 MHz

Modulation Characteristics



Frequency Deviation at 1kHz



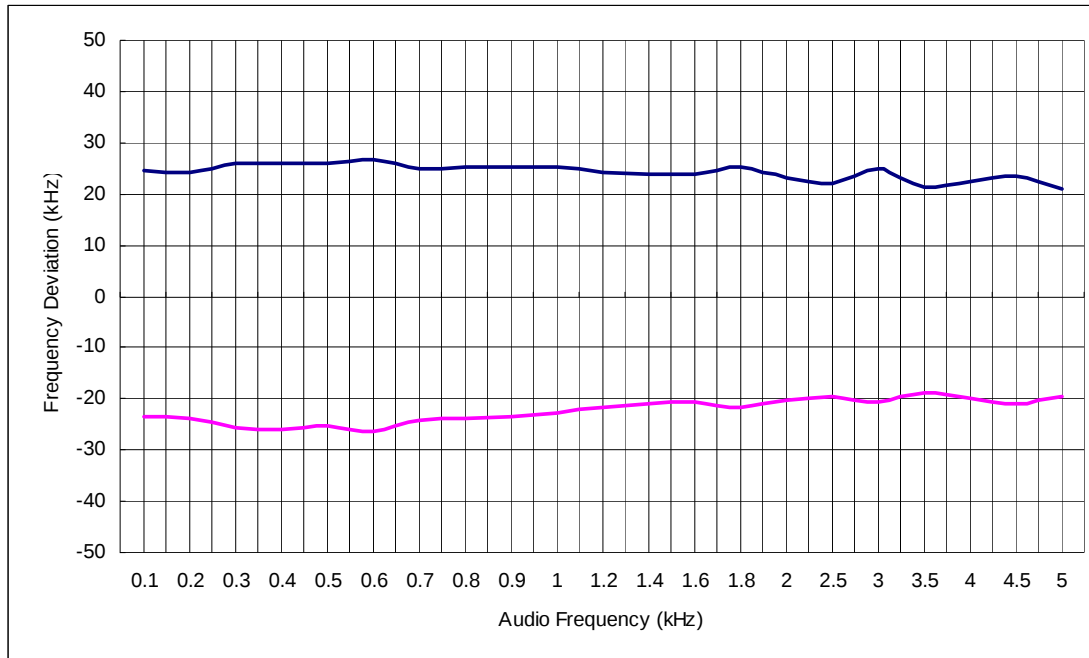


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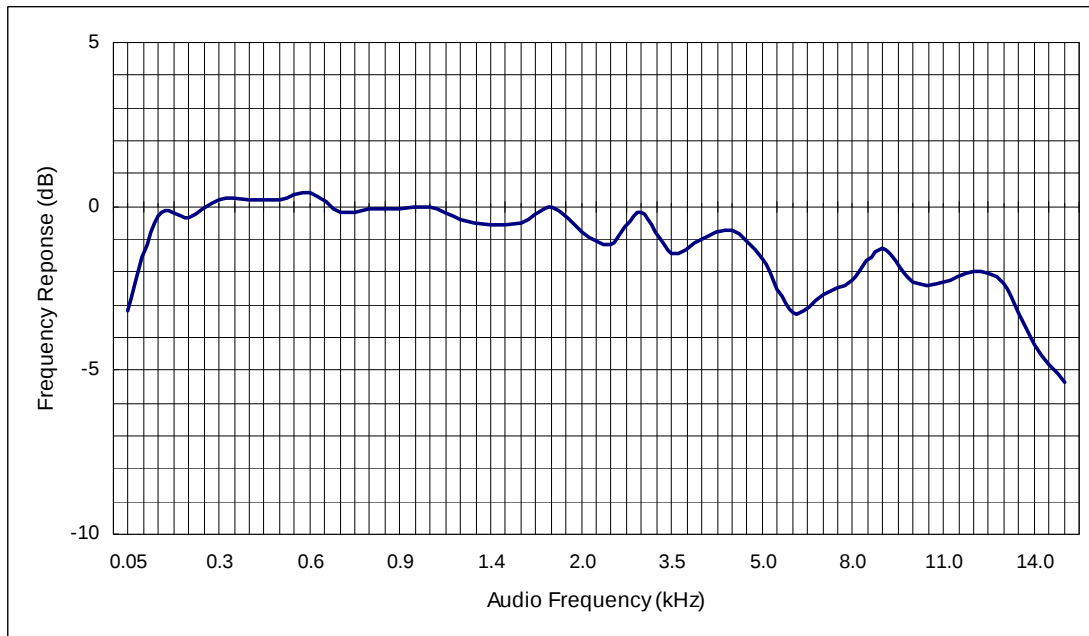
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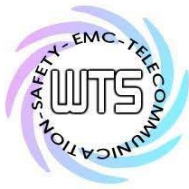
IC: 2978A-ACT70HC

Frequency Deviation



Audio Response





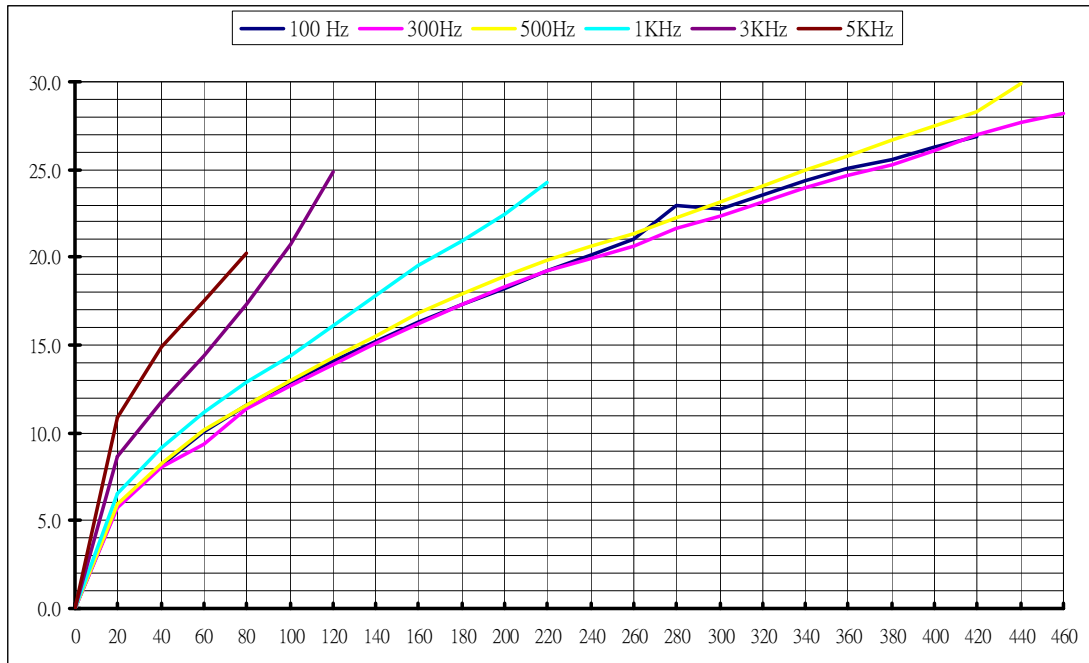
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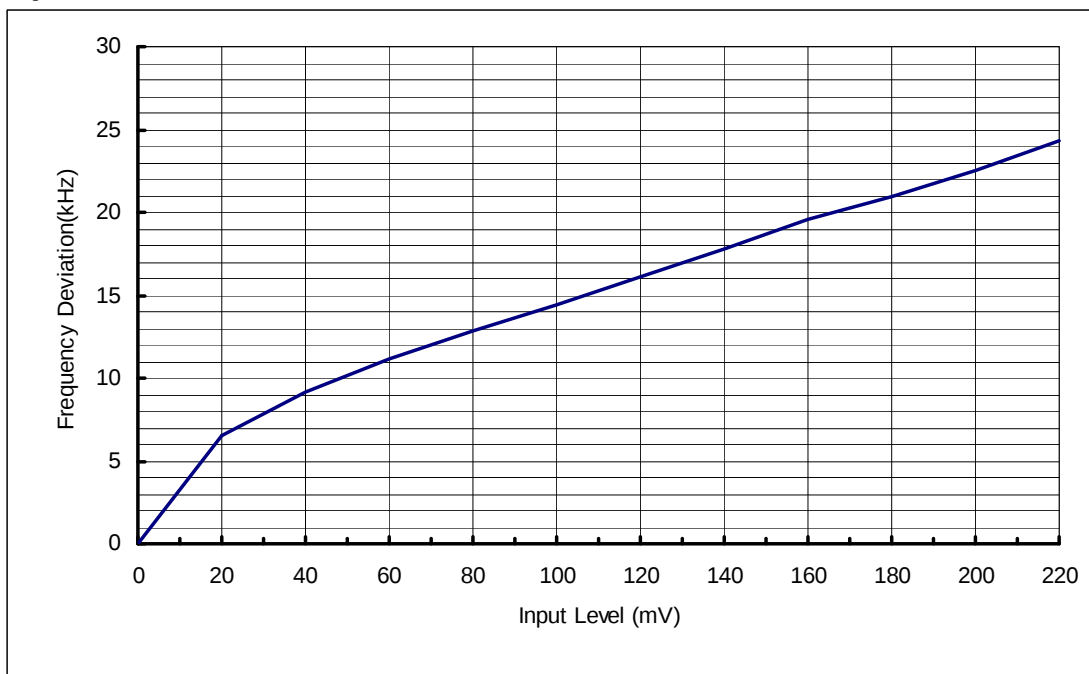
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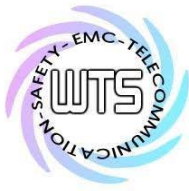
614.1 MHz

Modulation Characteristics



Frequency Deviation at 1kHz



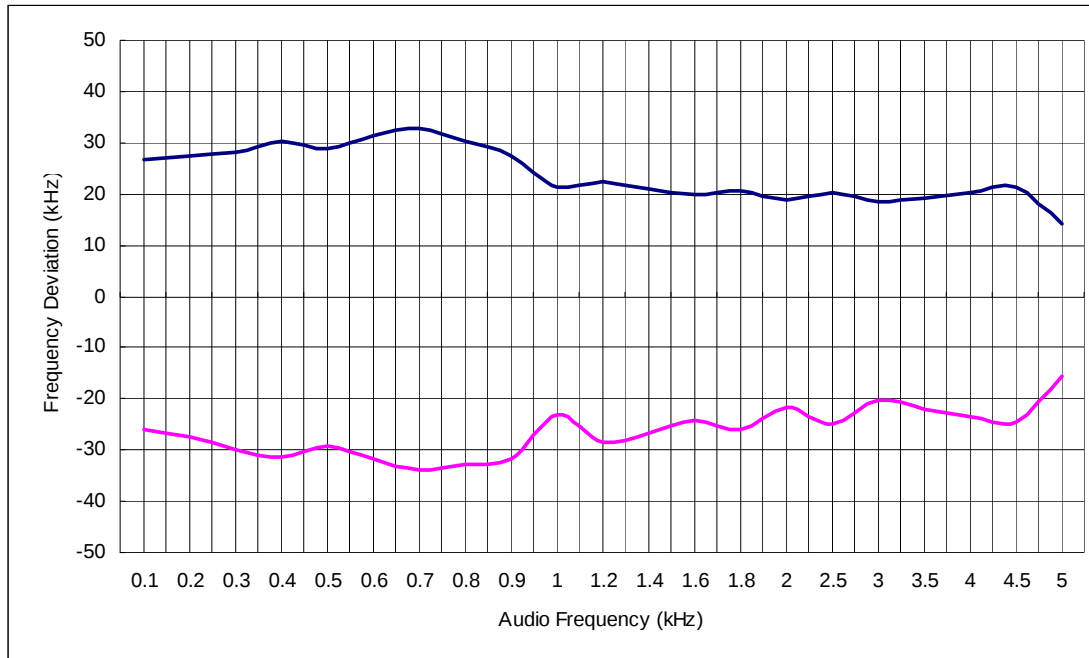


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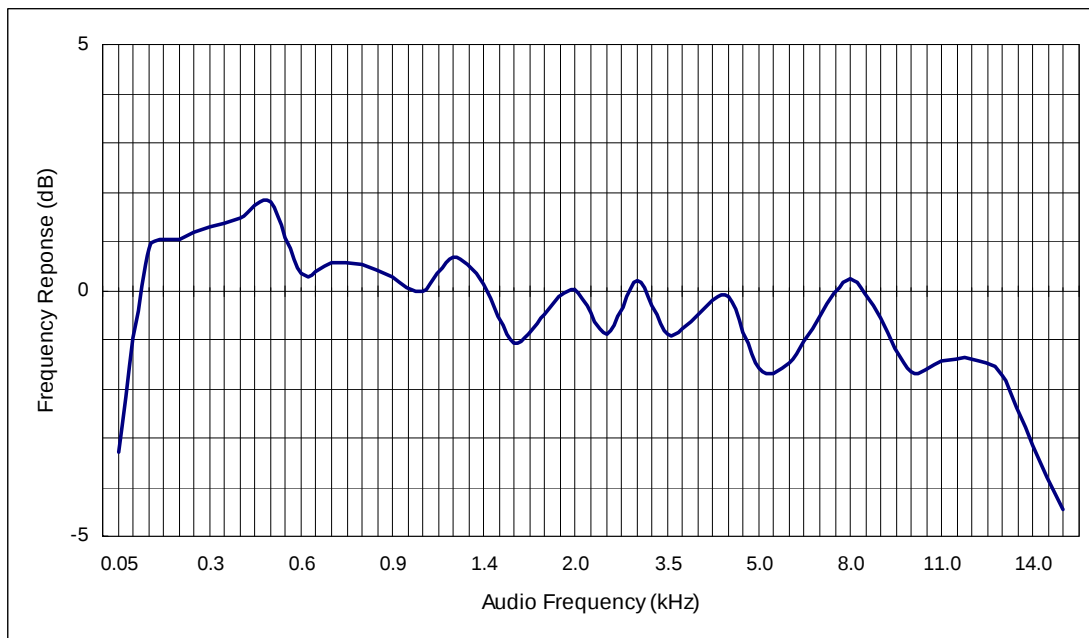
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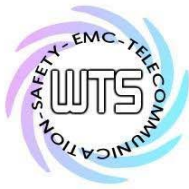
IC: 2978A-ACT70HC

Frequency Deviation



Audio Response





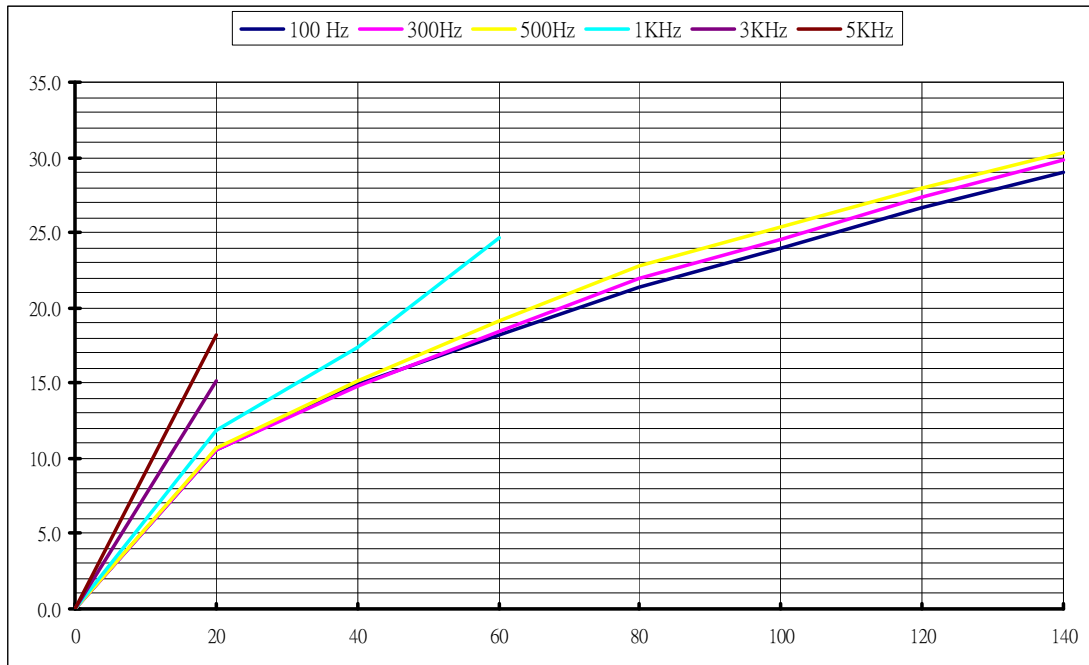
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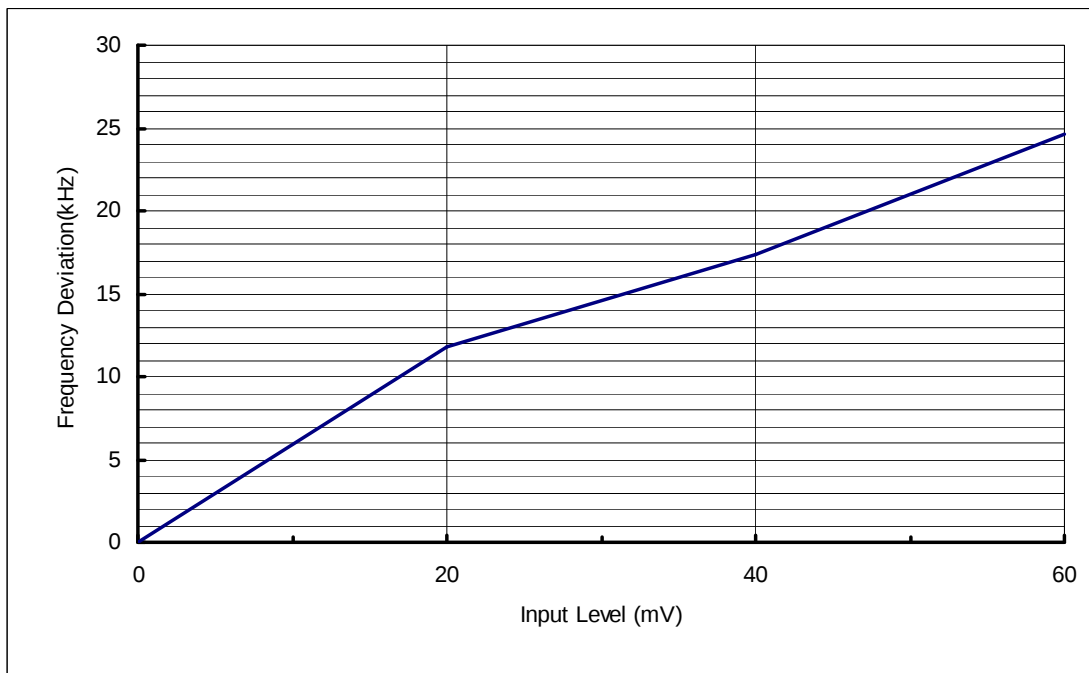
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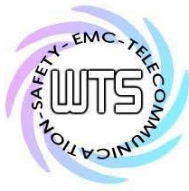
656MHz

Modulation Characteristics



Frequency Deviation at 1kHz



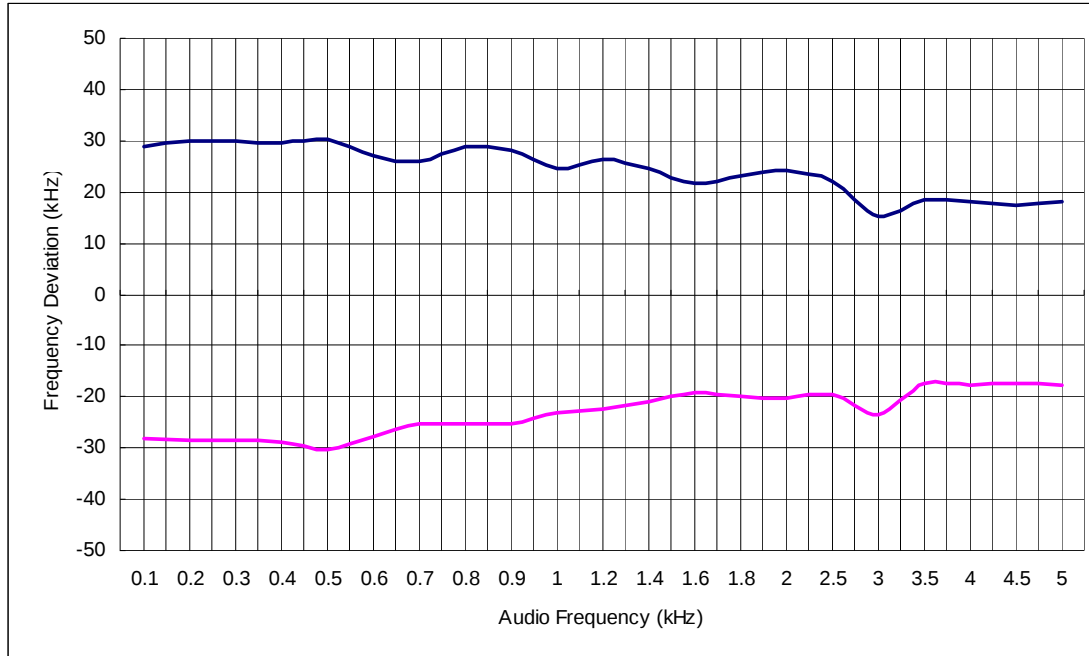


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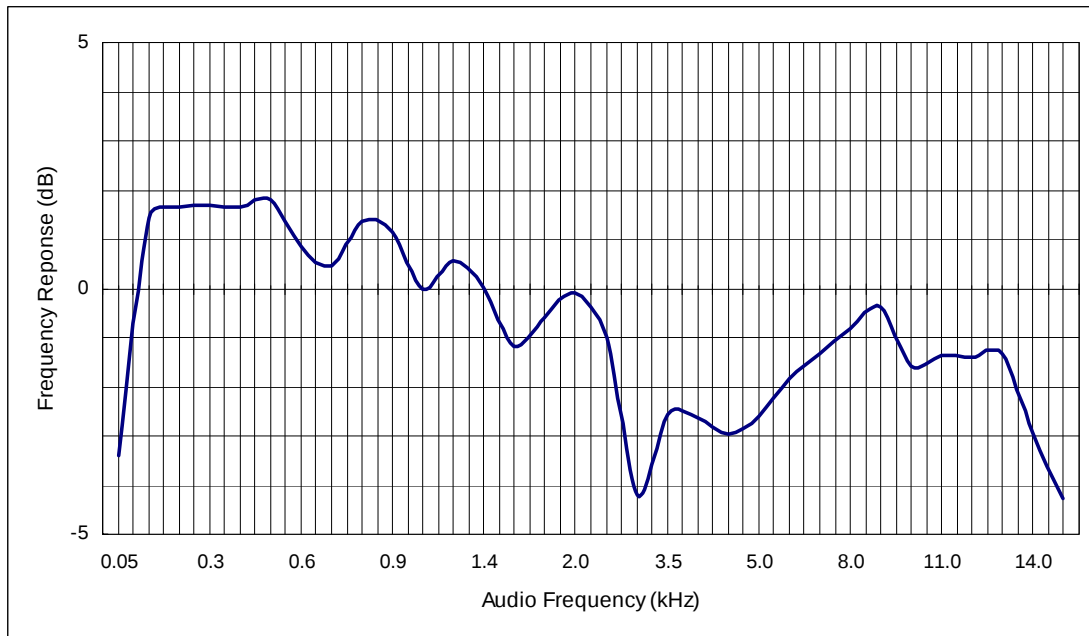
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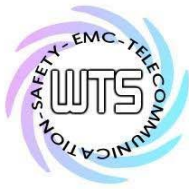
IC: 2978A-ACT70HC

Frequency Deviation



Audio Response





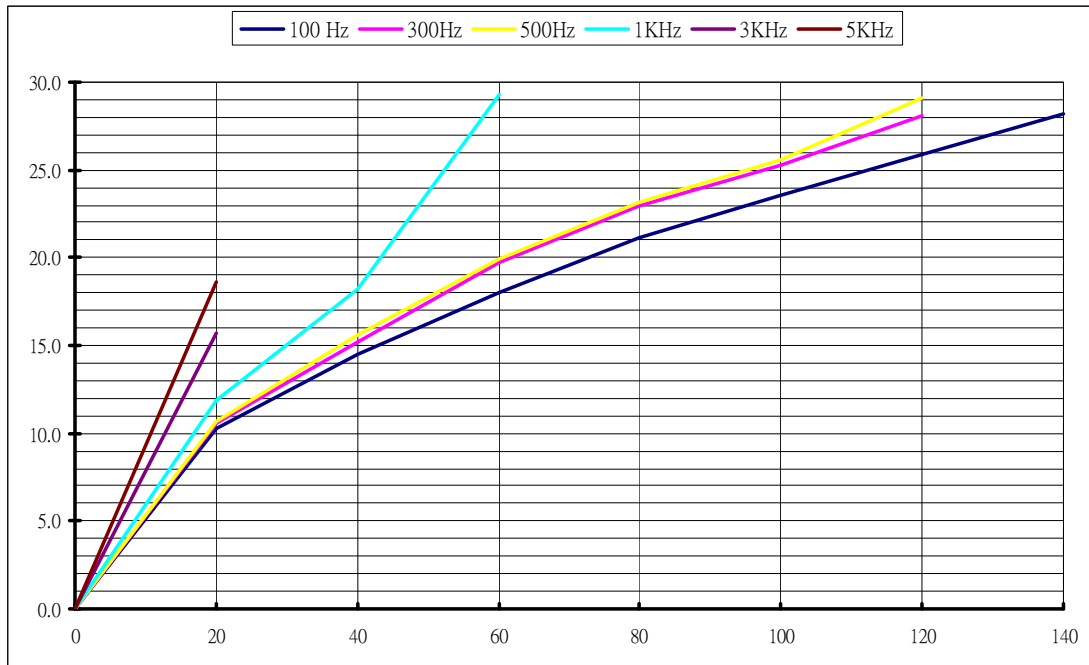
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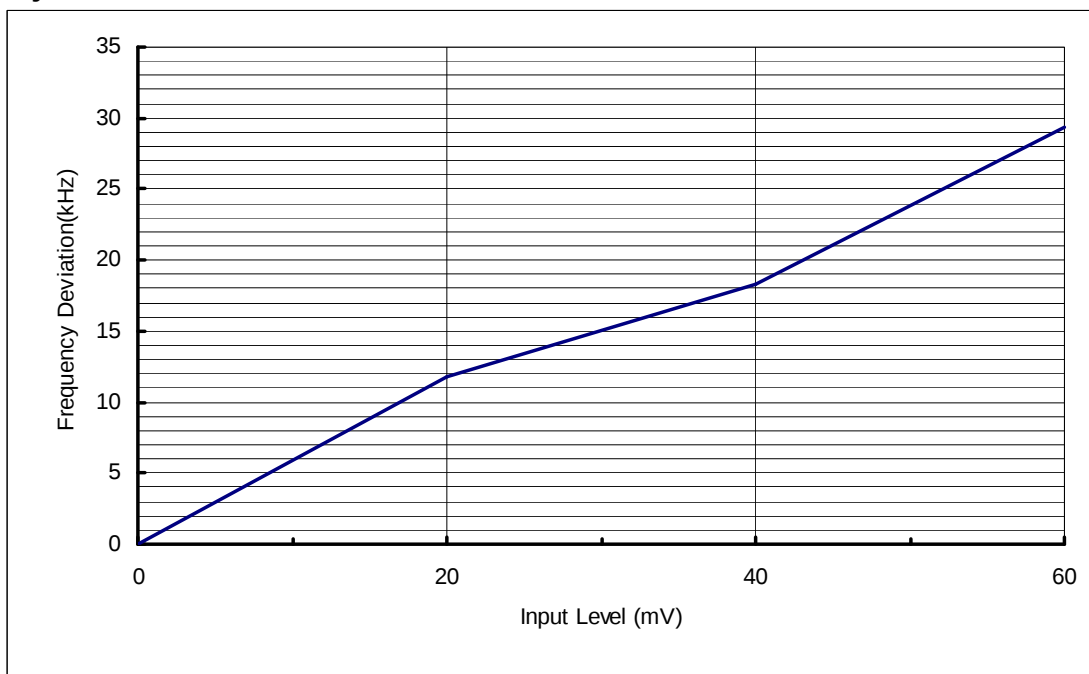
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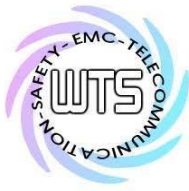
697.9 MHz

Modulation Characteristics



Frequency Deviation at 1kHz



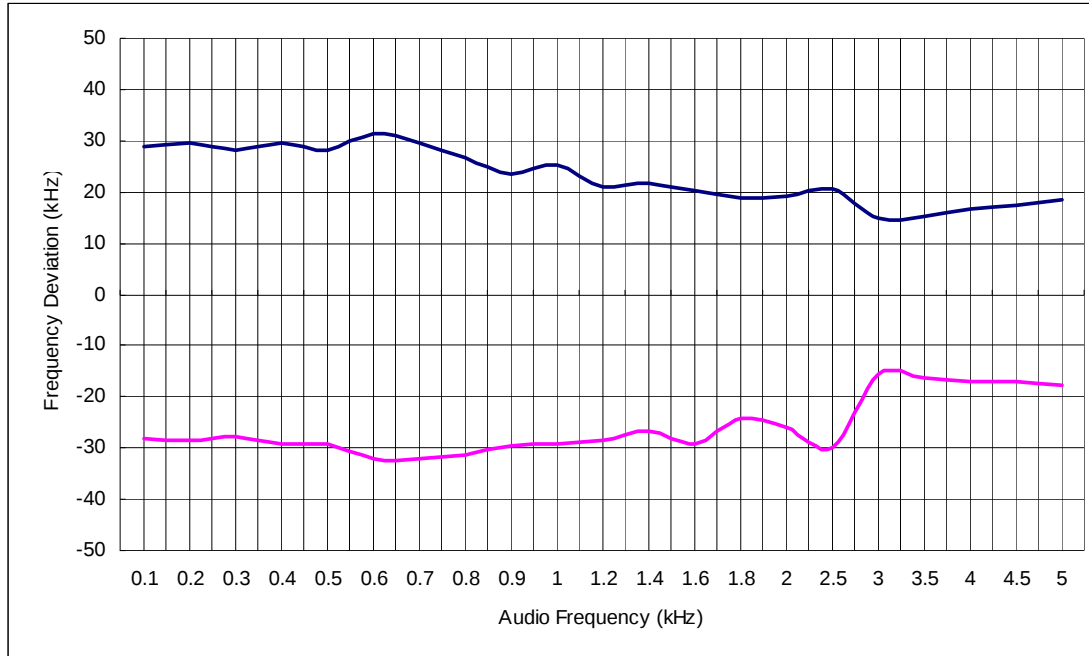


Registration number: W6M21405-14185-C-1

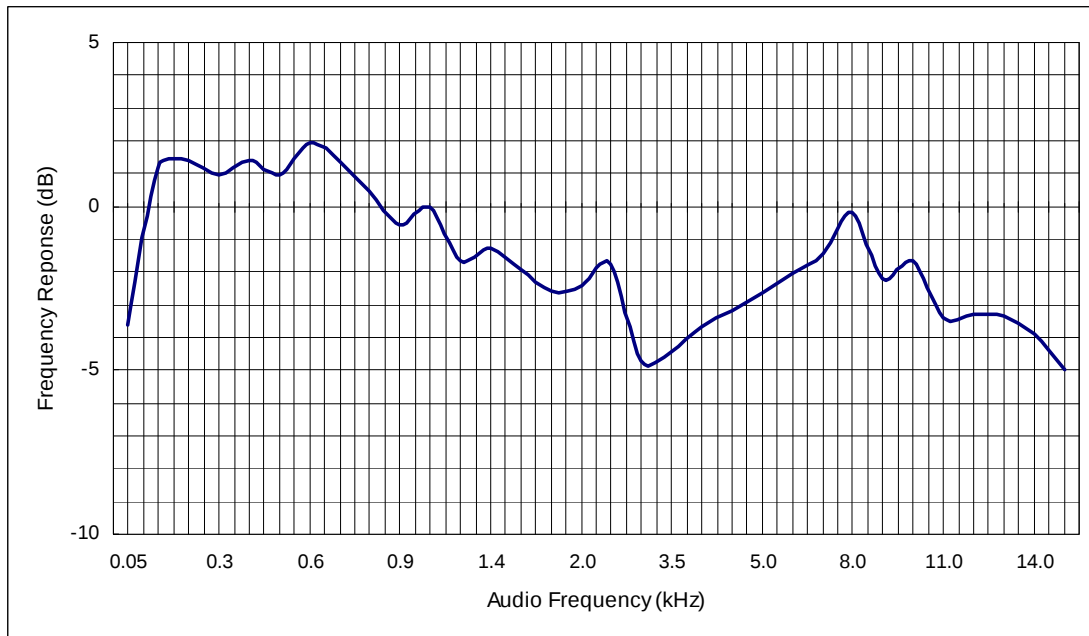
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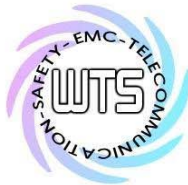
IC: 2978A-ACT70HC

Frequency Deviation



Audio Response





Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

Radiation Spurious Emission-According to FCC Part 74.861



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: Rick

File :1

Data :#1

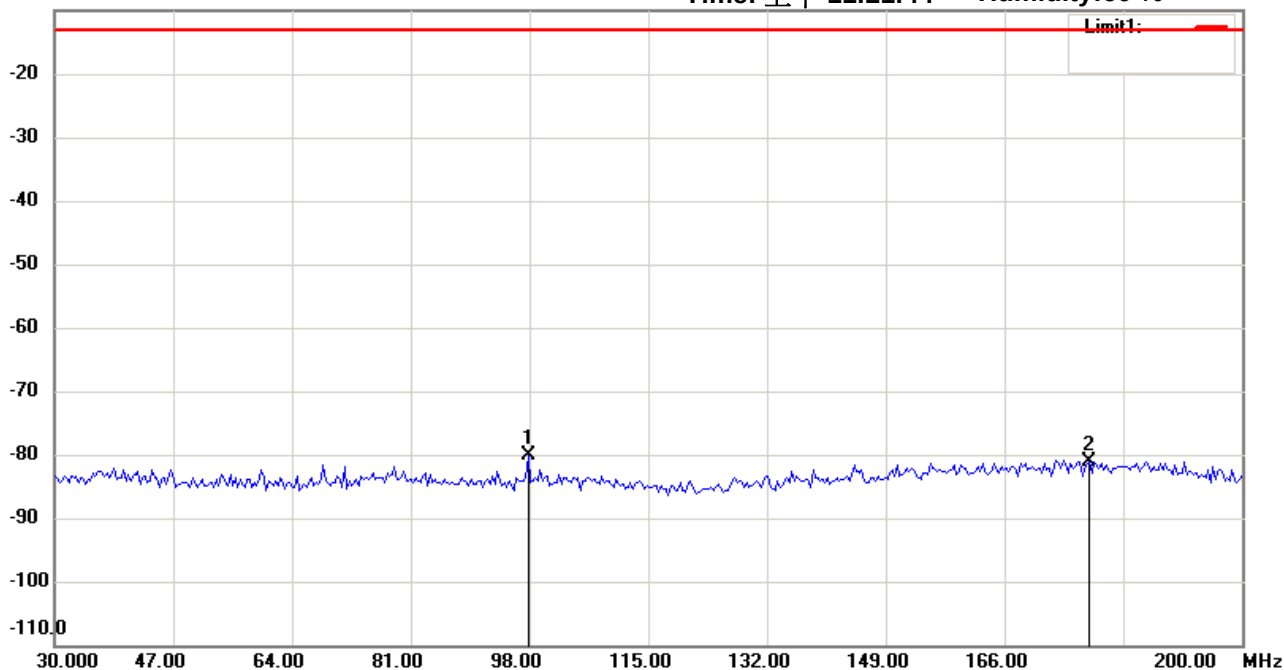
Date: 2015/3/11

Temperature:24 °C

-10.0 dBm

Time: 上午 11:21:44

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

Polarization: *Horizontal*

EUT : W6M21405-14185

Power : 3.7Vdc

M/N:

Distance: 3m

Test Mode : Tx 480.1MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	97.7956	-101.25	peak	21.13	-80.12	-13.00	150	210	-67.12	
	178.1964	-103.93	peak	22.84	-81.09	-13.00	150	100	-68.09	

*: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: Rick

File :1

Data :#2

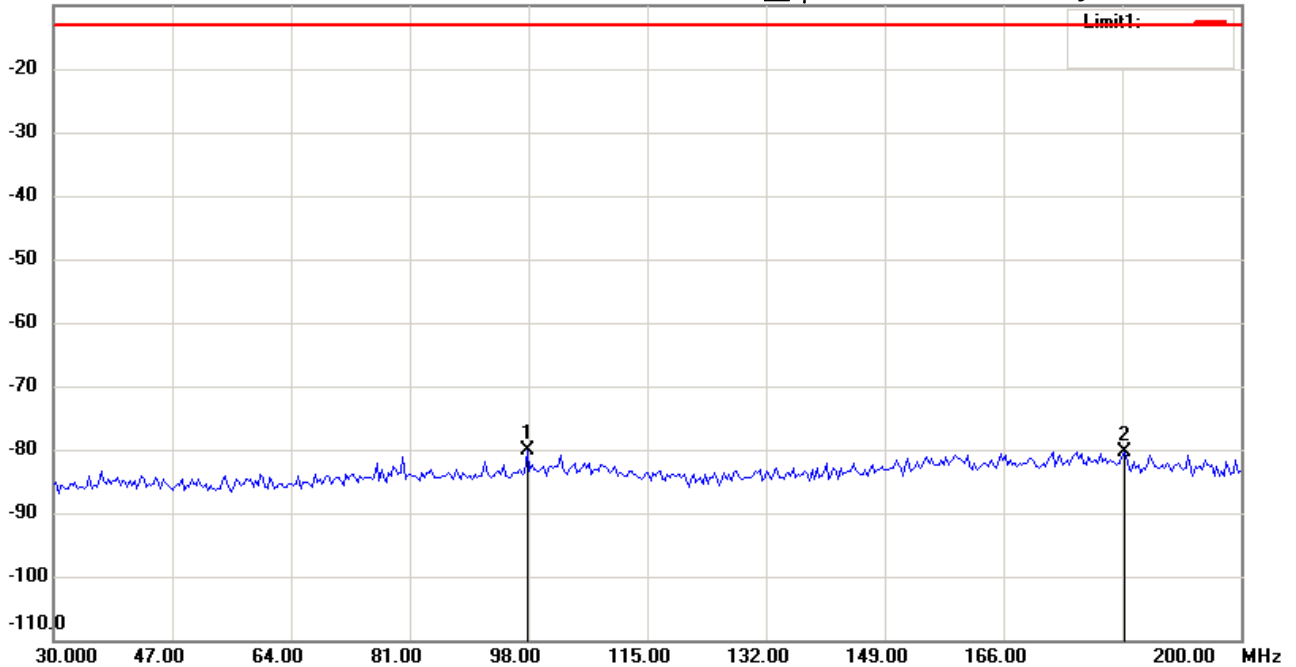
Date: 2015/3/11

Temperature:24 °C

-10.0 dBm

Time: 上午 11:22:07

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

Polarization: **Vertical**

EUT : W6M21405-14185

Power : 3.7Vdc

M/N:

Distance: 3m

Test Mode : Tx 480.1MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	97.7956	-102.18	peak	22.16	-80.02	-13.00	150	280	-67.02	
	183.3066	-103.18	peak	22.91	-80.27	-13.00	150	110	-67.27	

*: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: Rick

File :2

Data :#1

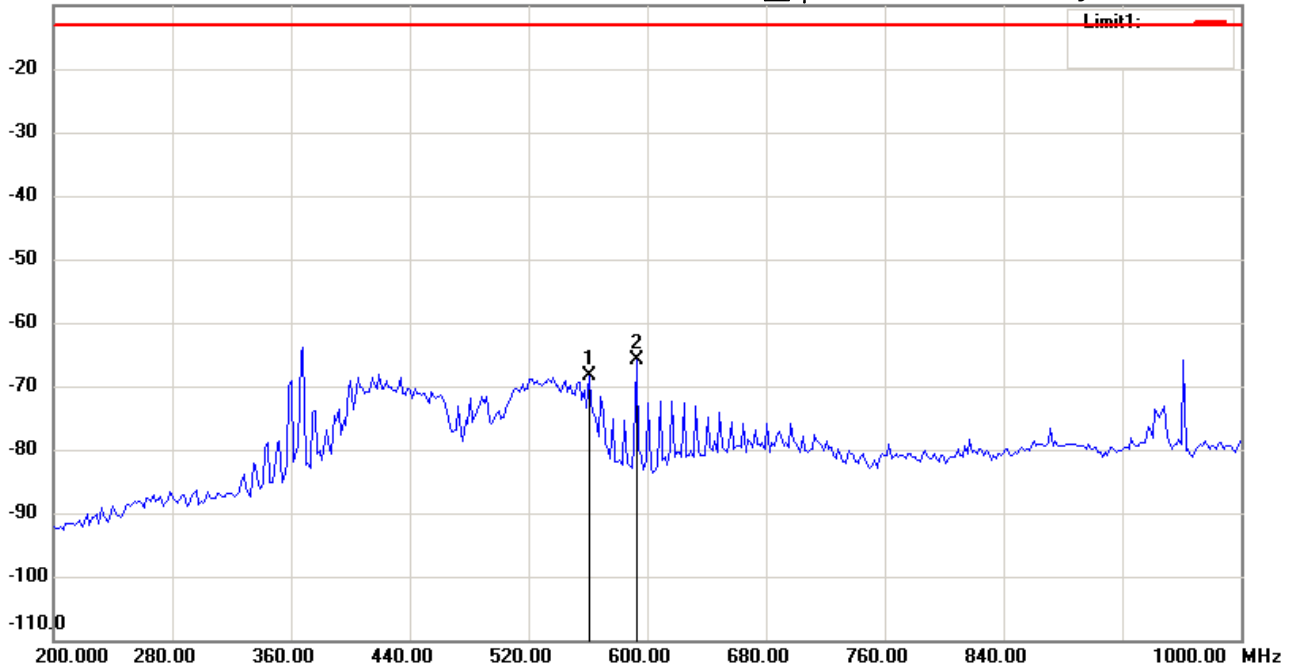
Date: 2015/3/23

Temperature:24 °C

-10.0 dBm

Time: 上午 11:44:46

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 480.1MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	560.7214	-59.82	peak	-8.57	-68.39	-13.00	150	250	-55.39	
*	592.7856	-59.06	peak	-6.87	-65.93	-13.00	150	100	-52.93	

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



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Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Rick

File :2

Data :#2

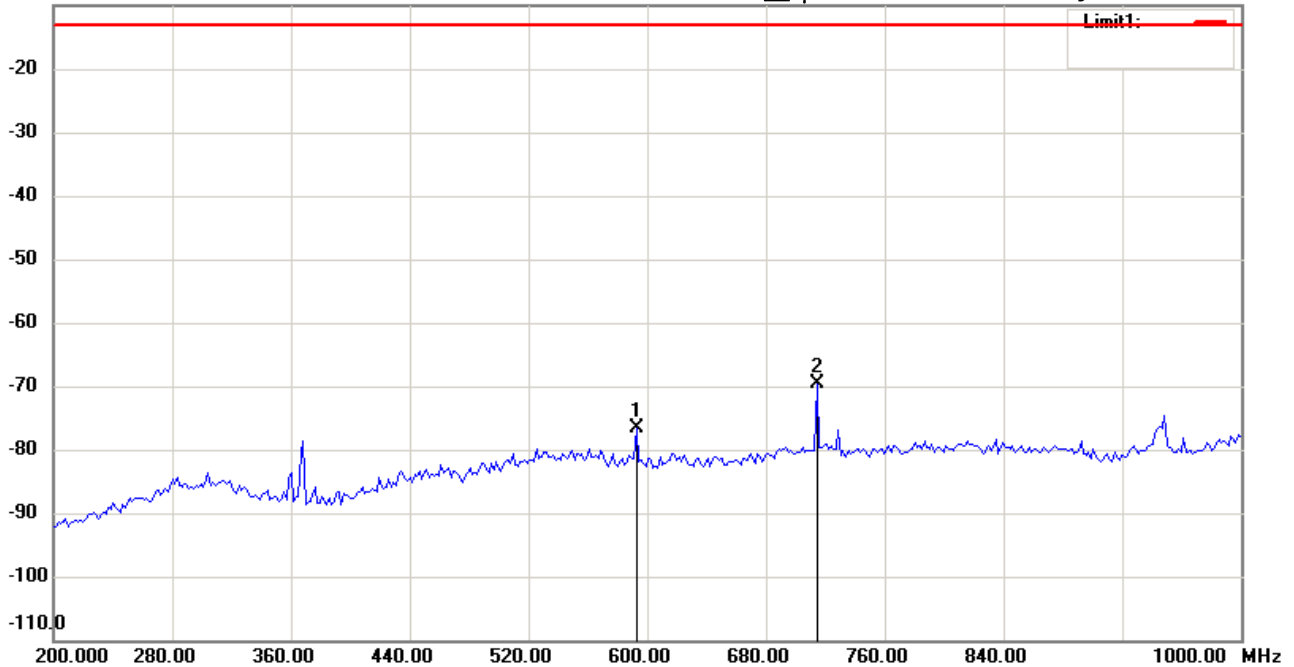
Date: 2015/3/23

Temperature:24 °C

-10.0 dBm

Time: 上午 11:48:53

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 480.1MHz

Note :

Polarization: Vertical

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	592.7856	-70.60	peak	-5.92	-76.52	-13.00	150	230	-63.52	
*	714.6293	-66.18	peak	-3.54	-69.72	-13.00	150	100	-56.72	

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



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

Operator: Rick

File :3

Data :#1

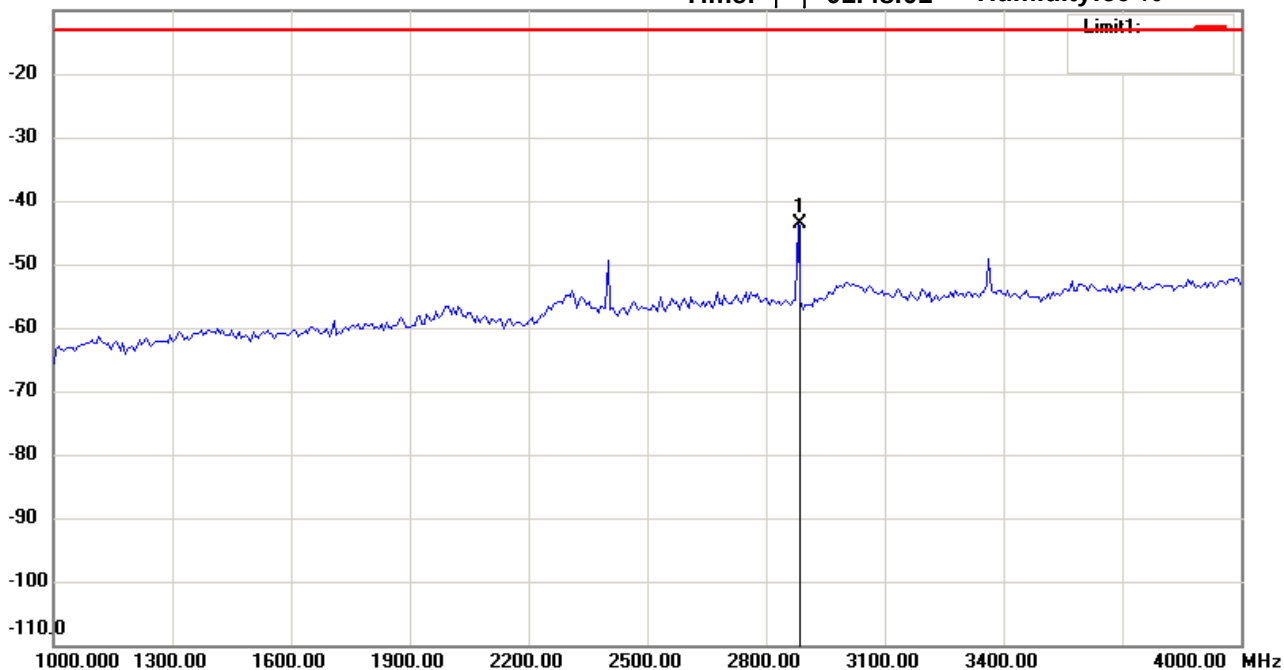
Date: 2015/3/23

Temperature:24 °C

-10.0 dBm

Time: 下午 01:48:01

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 480.1MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2881.764	-49.17	peak	5.49	-43.68	-13.00	150	100	-30.68	

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



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#3

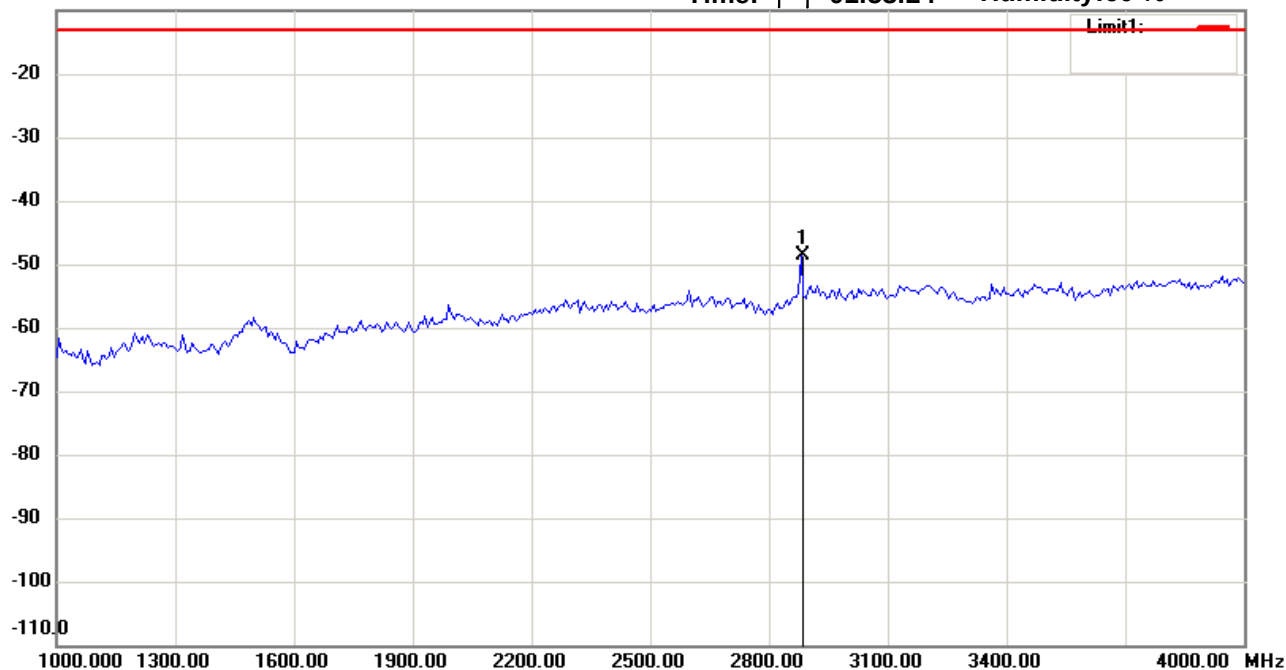
Date: 2015/3/23

Temperature:24 °C

-10.0 dBm

Time: 下午 01:53:24

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 480.1MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2881.764	-55.73	peak	7.03	-48.70	-13.00	150	70	-35.70	

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



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

Operator: Rick

File :3

Data :#2

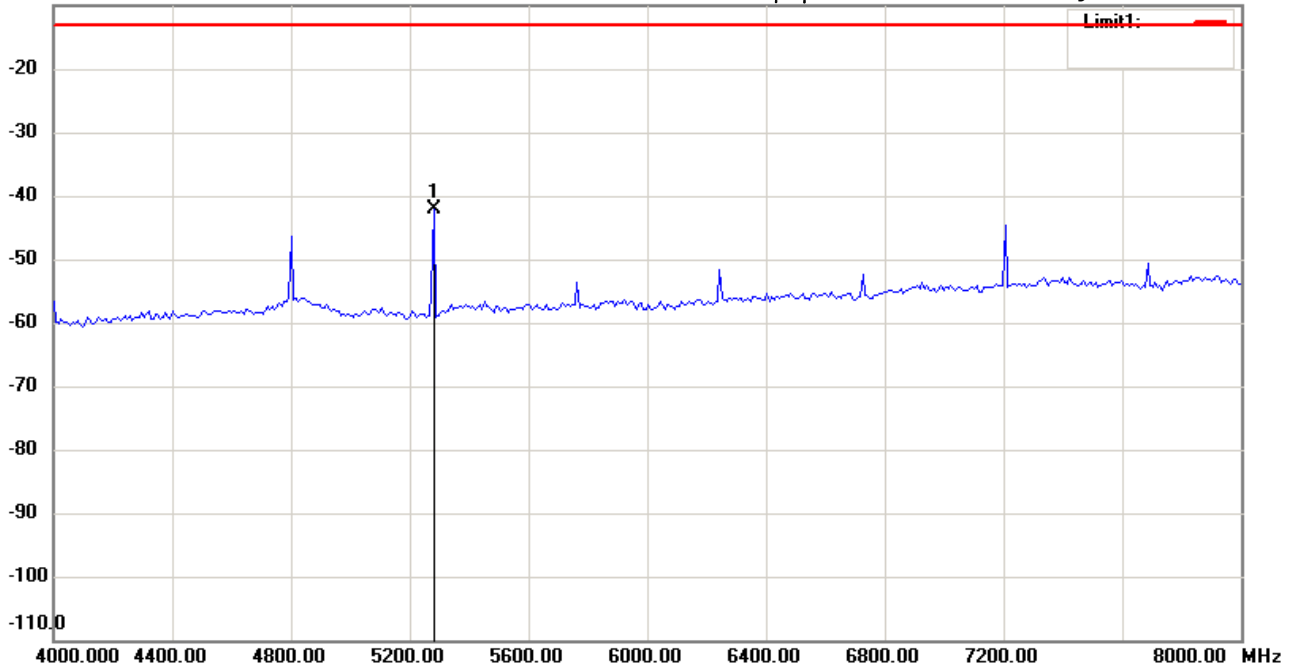
Date: 2015/3/23

Temperature:24 °C

-10.0 dBm

Time: 下午 01:48:52

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 480.1MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	5282.565	-51.12	peak	8.88	-42.24	-13.00	150	170	-29.24	

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



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#4

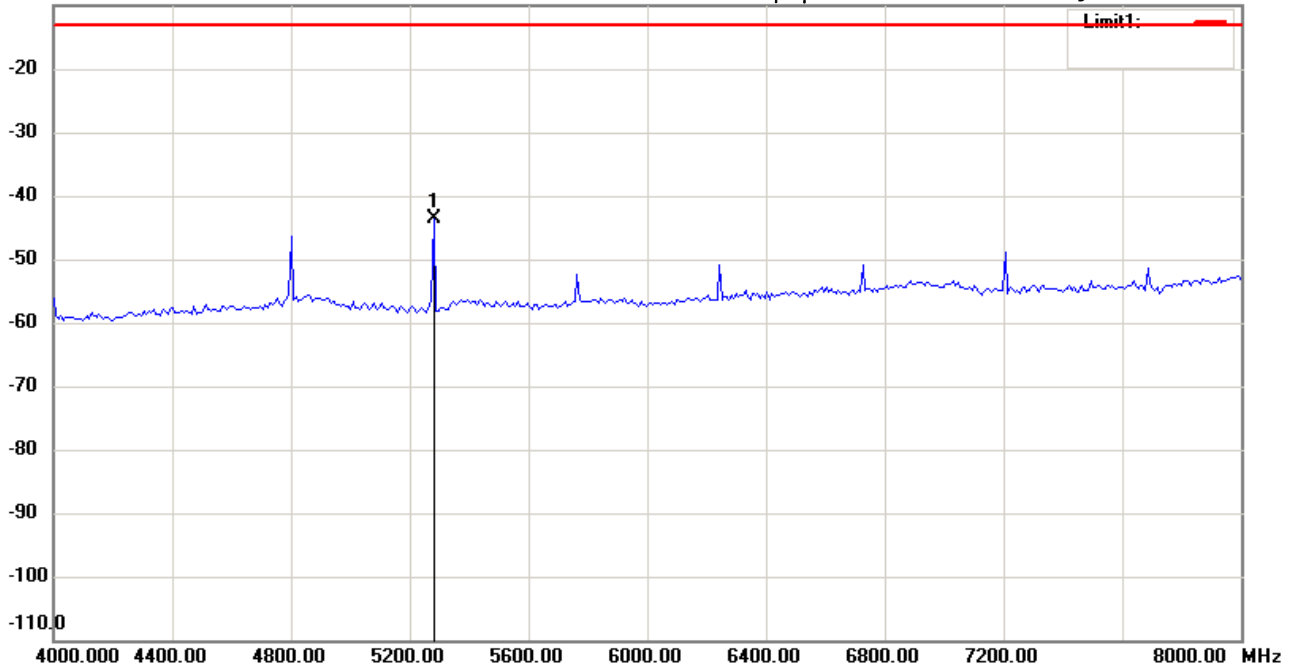
Date: 2015/3/23

Temperature:24 °C

-10.0 dBm

Time: 下午 01:54:19

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 480.1MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	5282.565	-53.13	peak	9.47	-43.66	-13.00	150	250	-30.66	

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



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Radiated Emission Measurement

Operator: Rick

File :1

Data :#1

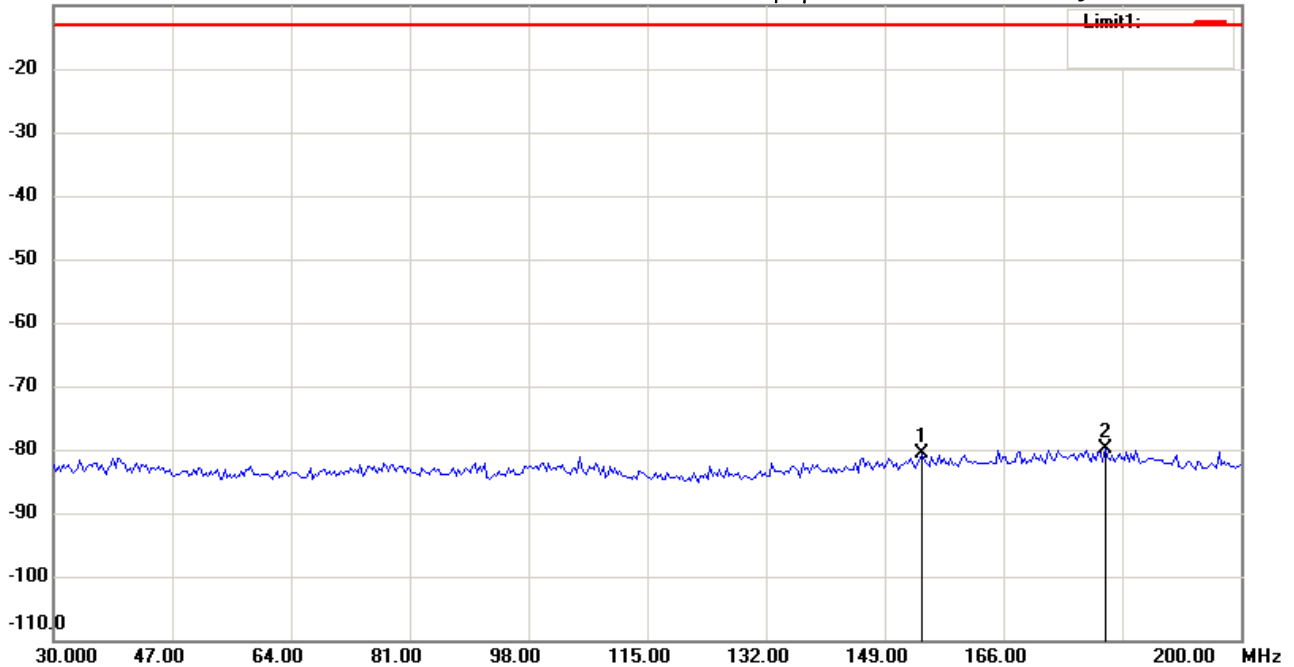
Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 05:51:17

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 544MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	154.3487	-102.63	peak	22.05	-80.58	-13.00	150	270	-67.58	
*	180.5812	-102.74	peak	22.82	-79.92	-13.00	150	120	-66.92	

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



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Radiated Emission Measurement

Operator: Rick

File :1

Data :#2

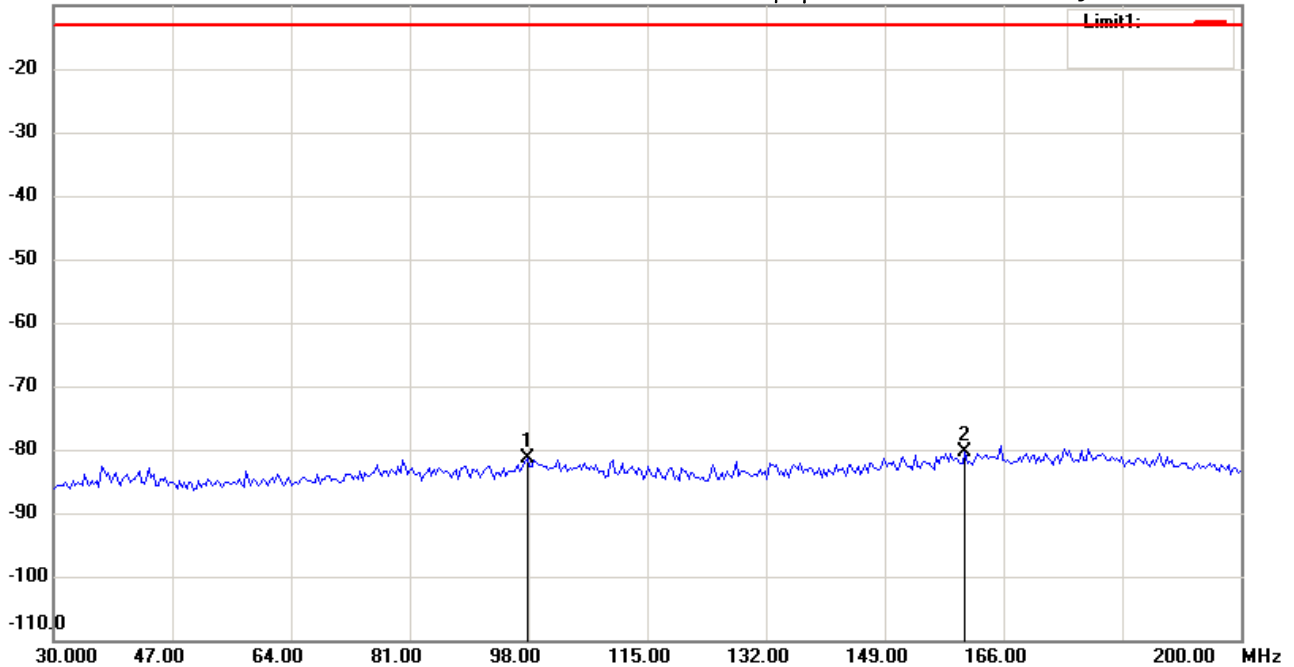
Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 05:52:53

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 544MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	97.7956	-103.42	peak	22.16	-81.26	-13.00	150	310	-68.26	
*	160.4810	-103.59	peak	23.10	-80.49	-13.00	150	110	-67.49	

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



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Radiated Emission Measurement

Operator: Rick

File :2

Data :#1

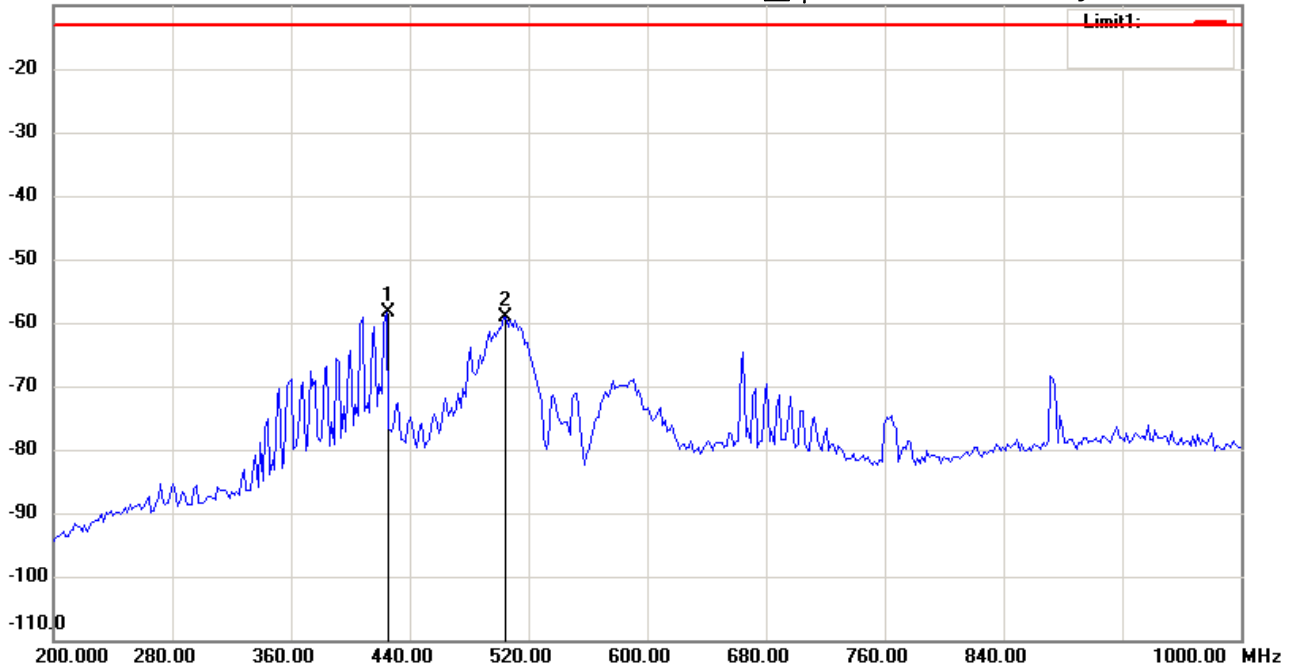
Date: 2015/3/24

Temperature:24 °C

-10.0 dBm

Time: 上午 09:50:15

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 544MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	424.4490	-49.66	peak	-8.83	-58.49	-13.00	150	130	-45.49	
	504.6092	-50.08	peak	-8.93	-59.01	-13.00	150	270	-46.01	

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



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Radiated Emission Measurement

Operator: Rick

File :2

Data :#2

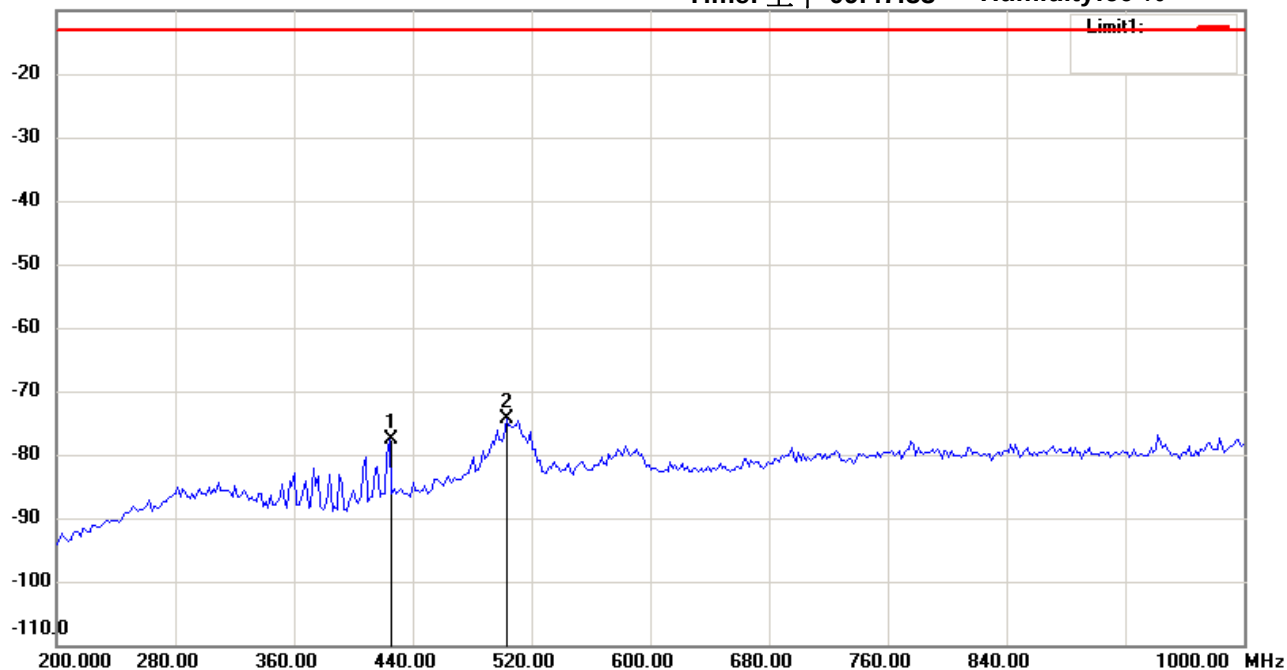
Date: 2015/3/24

Temperature:24 °C

-10.0 dBm

Time: 上午 09:47:33

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 544MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	424.4490	-66.58	peak	-10.92	-77.50	-13.00	150	250	-64.50	
*	503.0060	-67.25	peak	-7.21	-74.46	-13.00	150	70	-61.46	

*: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: Rick

File :3

Data :#1

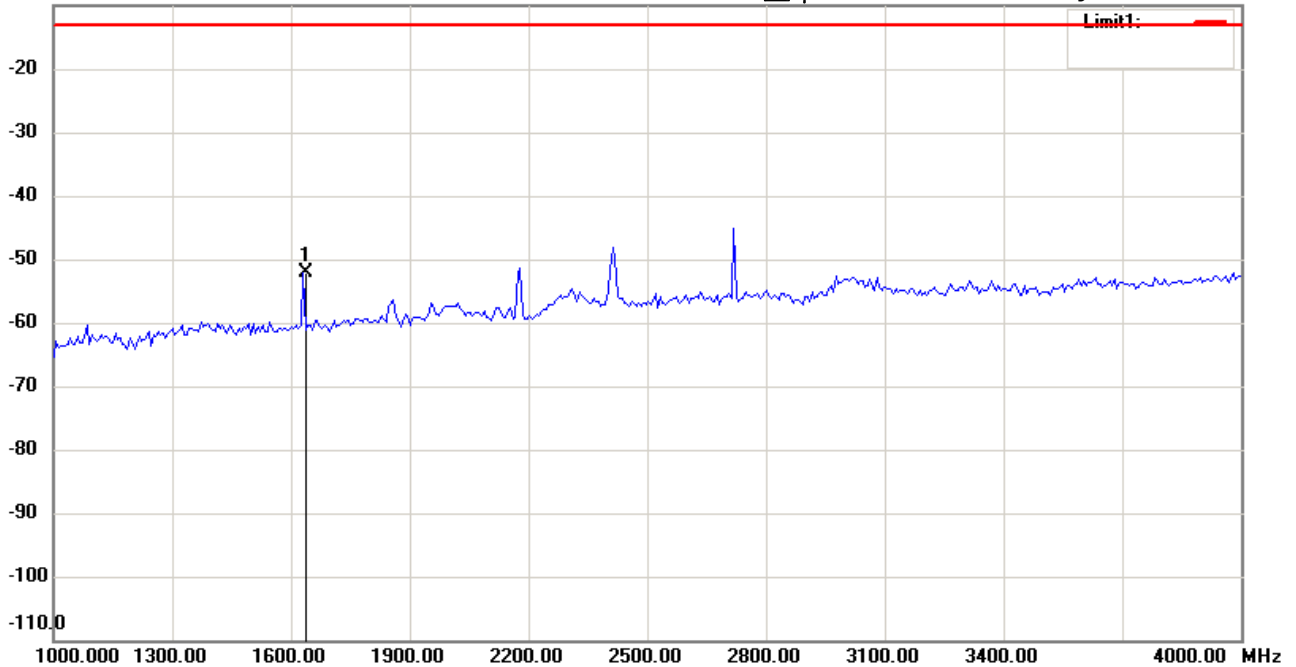
Date: 2015/3/24

Temperature:24 °C

-10.0 dBm

Time: 上午 09:55:32

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 544MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1631.263	-52.94	peak	0.79	-52.15	-13.00	150	250	-39.15	

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



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

Operator: Rick

File :3

Data :#3

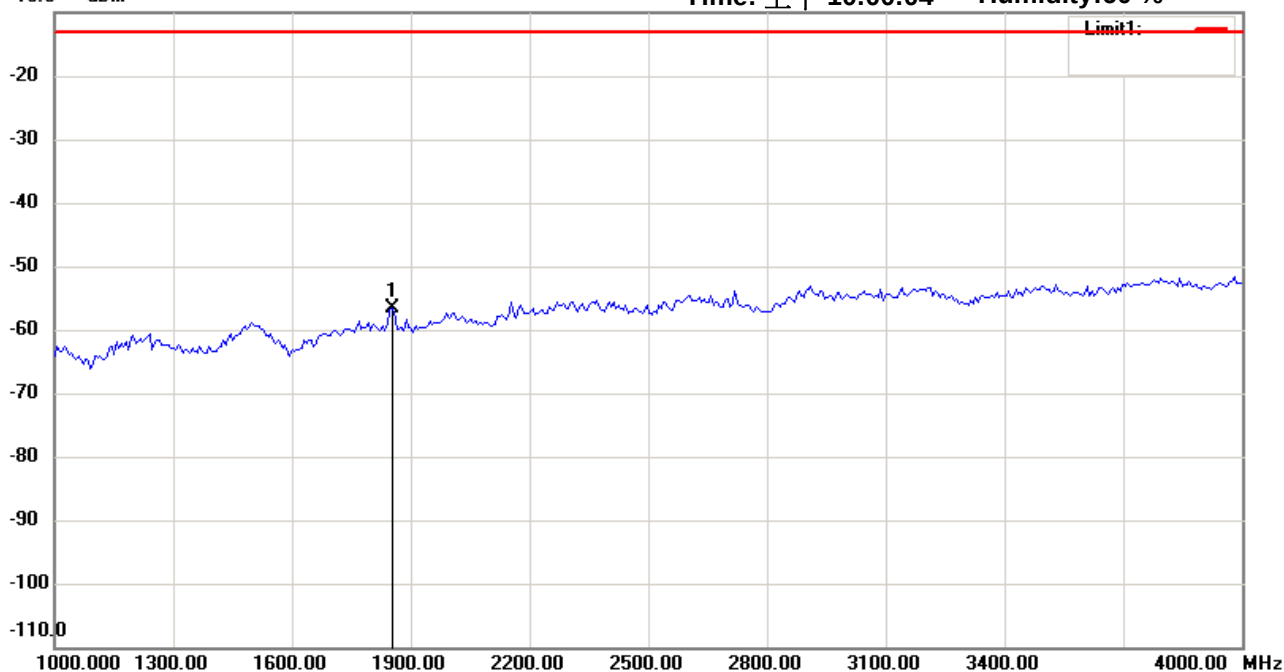
Date: 2015/3/24

Temperature:24 °C

-10.0 dBm

Time: 上午 10:00:04

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 544MHz

Note :

Polarization: Vertical

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1853.707	-57.64	peak	1.14	-56.50	-13.00	150	250	-43.50	

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



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

Operator: Rick

File :3

Data :#2

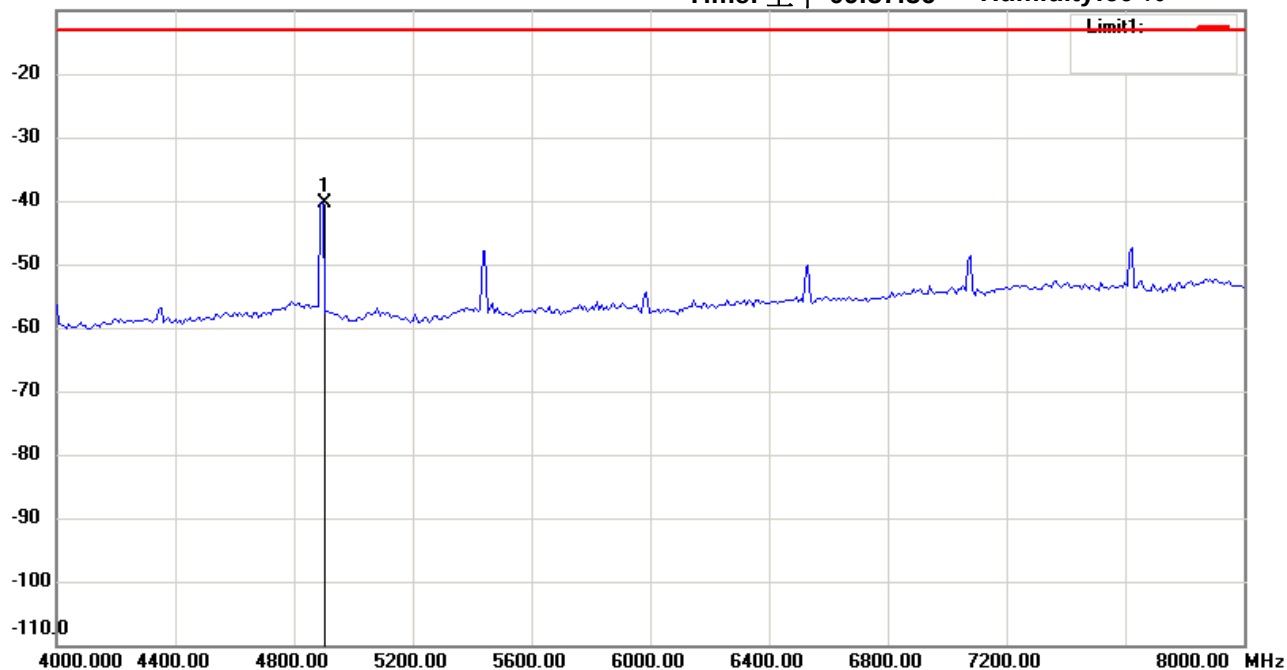
Date: 2015/3/24

Temperature:24 °C

-10.0 dBm

Time: 上午 09:57:36

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 544MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	4897.796	-49.45	peak	9.02	-40.43	-13.00	150	250	-27.43	

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



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

Operator: Rick

File :3

Data :#4

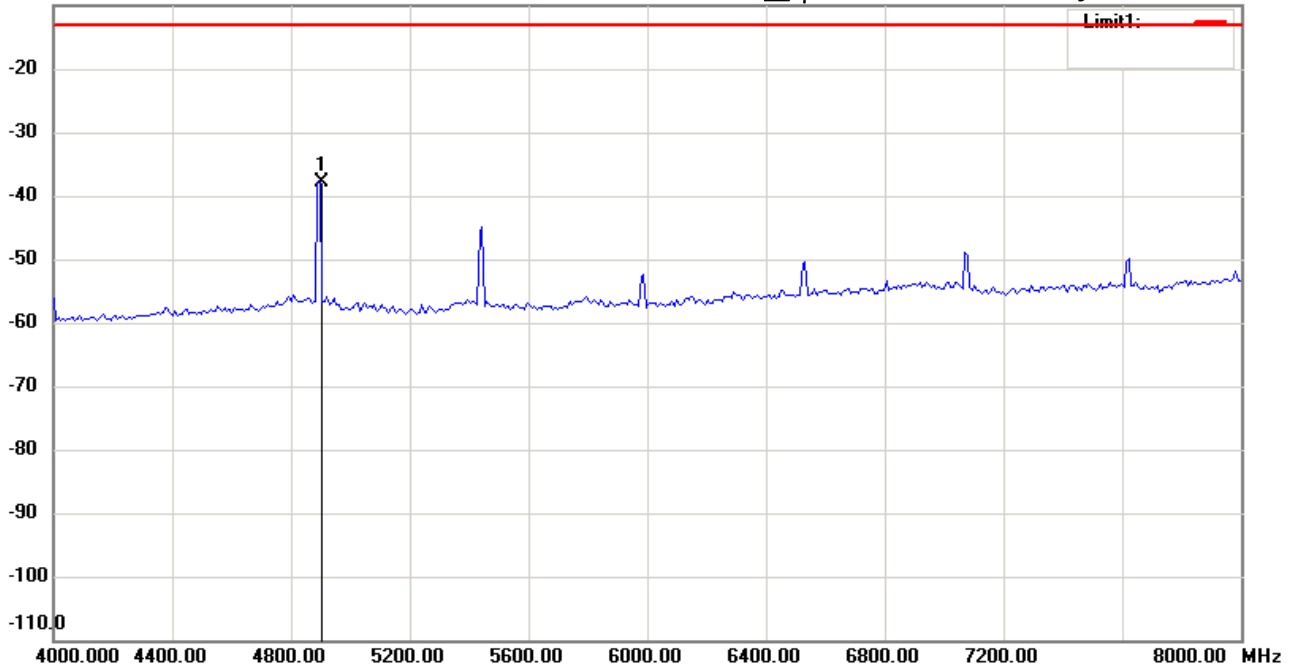
Date: 2015/3/24

Temperature:24 °C

-10.0 dBm

Time: 上午 10:01:19

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 544MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	4897.796	-47.50	peak	9.75	-37.75	-13.00	150	60	-24.75	

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



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

Operator: Rick

File :1

Data :#1

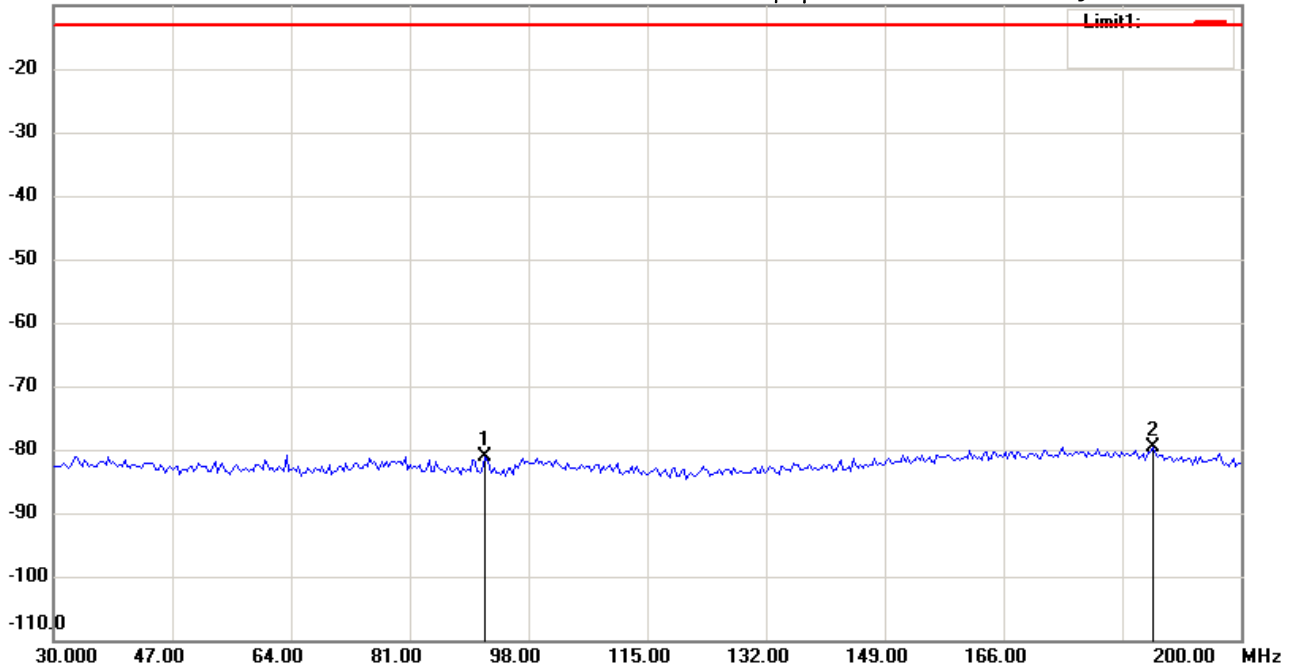
Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 05:50:18

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

Polarization: *Horizontal*

EUT : W6M21405-14185

Power : 3.7Vdc

M/N:

Distance: 3m

Test Mode : Tx 607.9MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	91.6633	-101.81	peak	20.81	-81.00	-13.00	150	220	-68.00	
*	187.3948	-101.81	peak	22.17	-79.64	-13.00	150	130	-66.64	

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



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

Operator: Rick

File :1

Data :#2

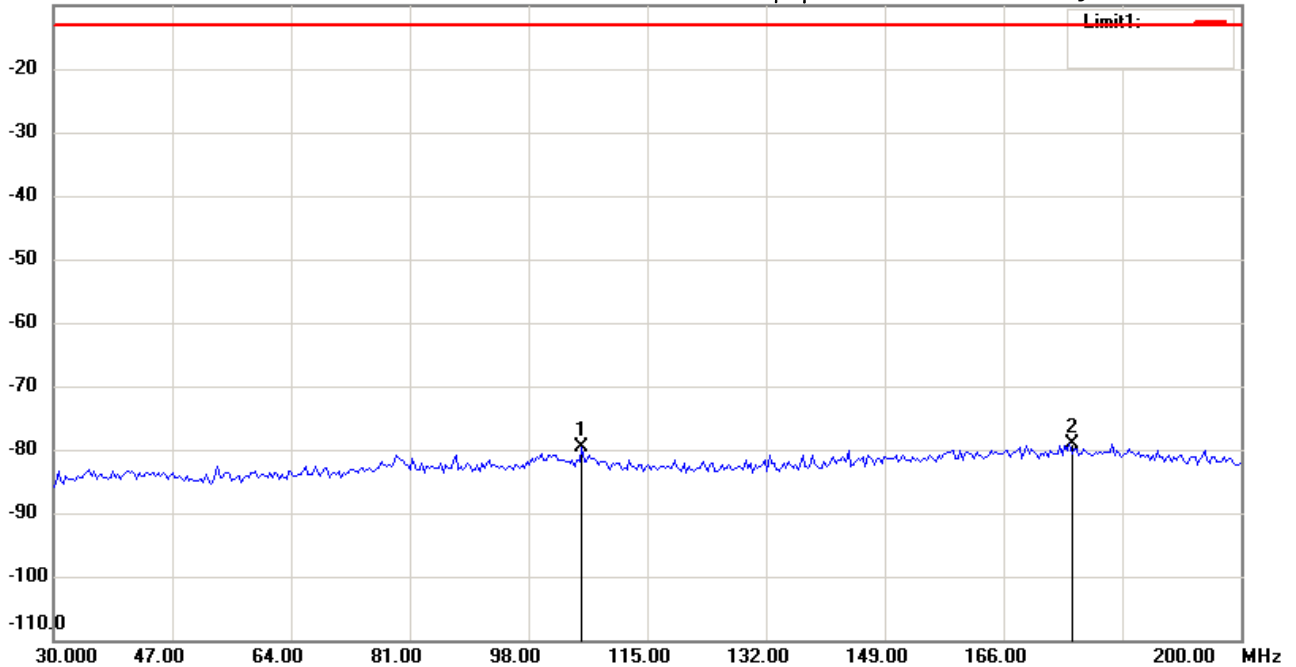
Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 05:54:17

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 607.9MHz

Note :

Polarization: Vertical

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	105.6313	-101.79	peak	22.06	-79.73	-13.00	150	210	-66.73	
*	175.4710	-102.45	peak	23.22	-79.23	-13.00	150	70	-66.23	

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



Radiated Emission Measurement

Operator: Rick

File :2

Data :#1

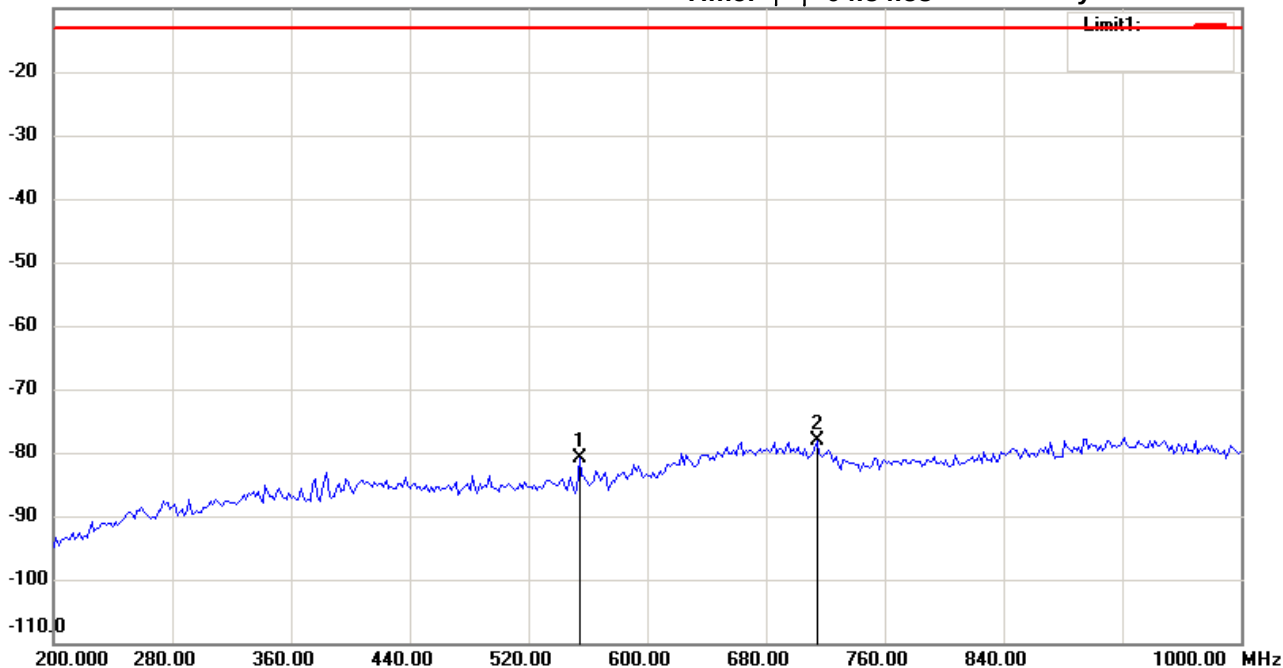
Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 04:54:58

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 607.9MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	554.3086	-72.17	peak	-8.74	-80.91	-13.00	150	250	-67.91	
*	714.6293	-75.19	peak	-3.04	-78.23	-13.00	150	100	-65.23	



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Radiated Emission Measurement

Operator: Rick

File :2

Data :#2

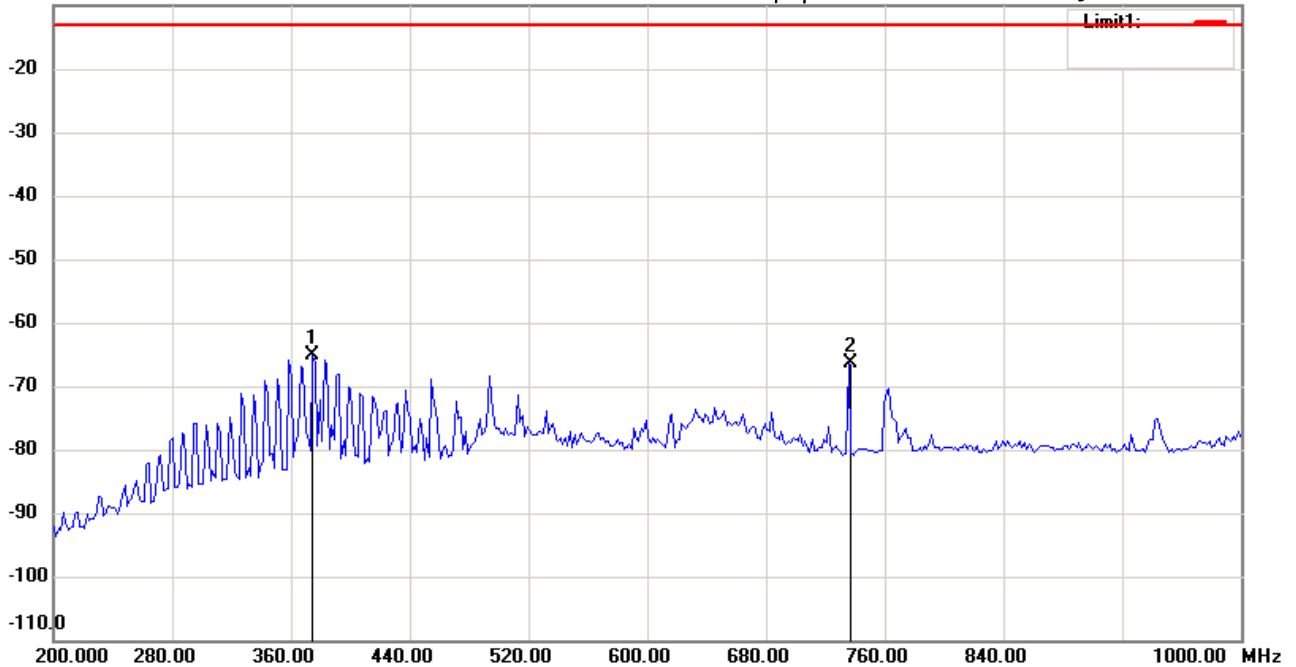
Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 04:58:22

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 607.9MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	374.7495	-52.13	peak	-12.92	-65.05	-13.00	150	300	-52.05	
	735.4710	-62.83	peak	-3.57	-66.40	-13.00	150	120	-53.40	

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



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#1

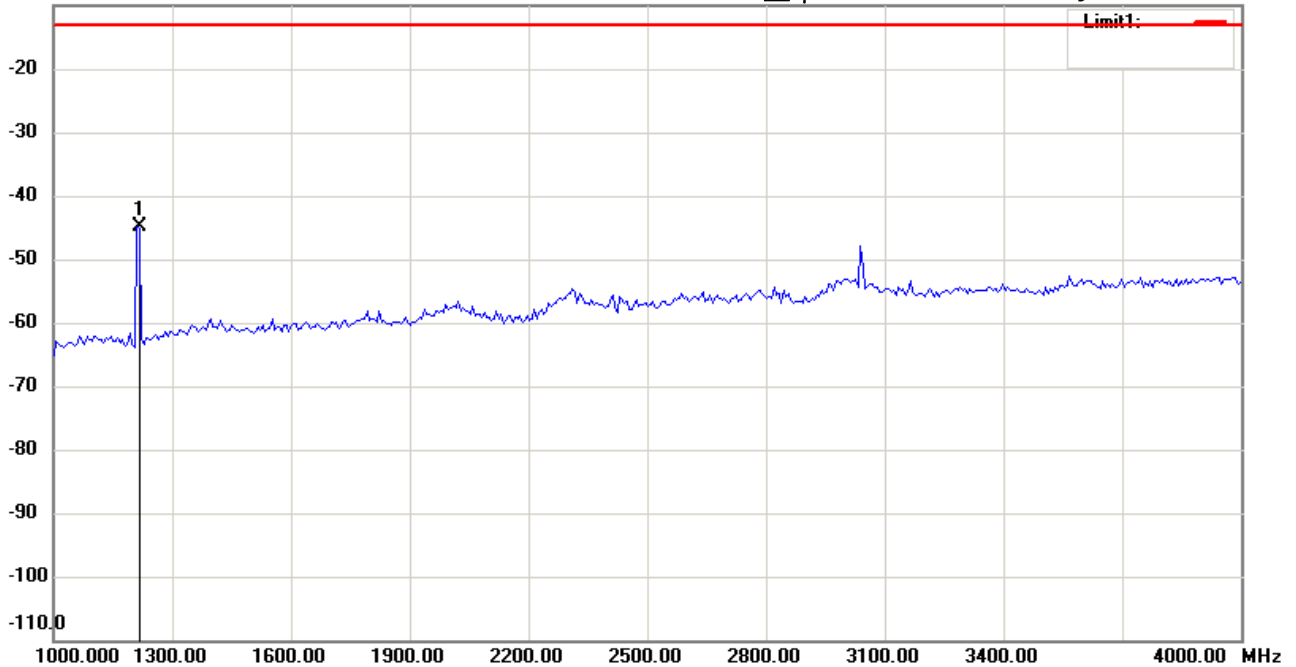
Date: 2015/3/13

Temperature:24 °C

-10.0 dBm

Time: 上午 11:07:53

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 607.9MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1210.421	-43.77	peak	-1.06	-44.83	-13.00	150	100	-31.83	

*: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: Rick

File :3

Data :#3

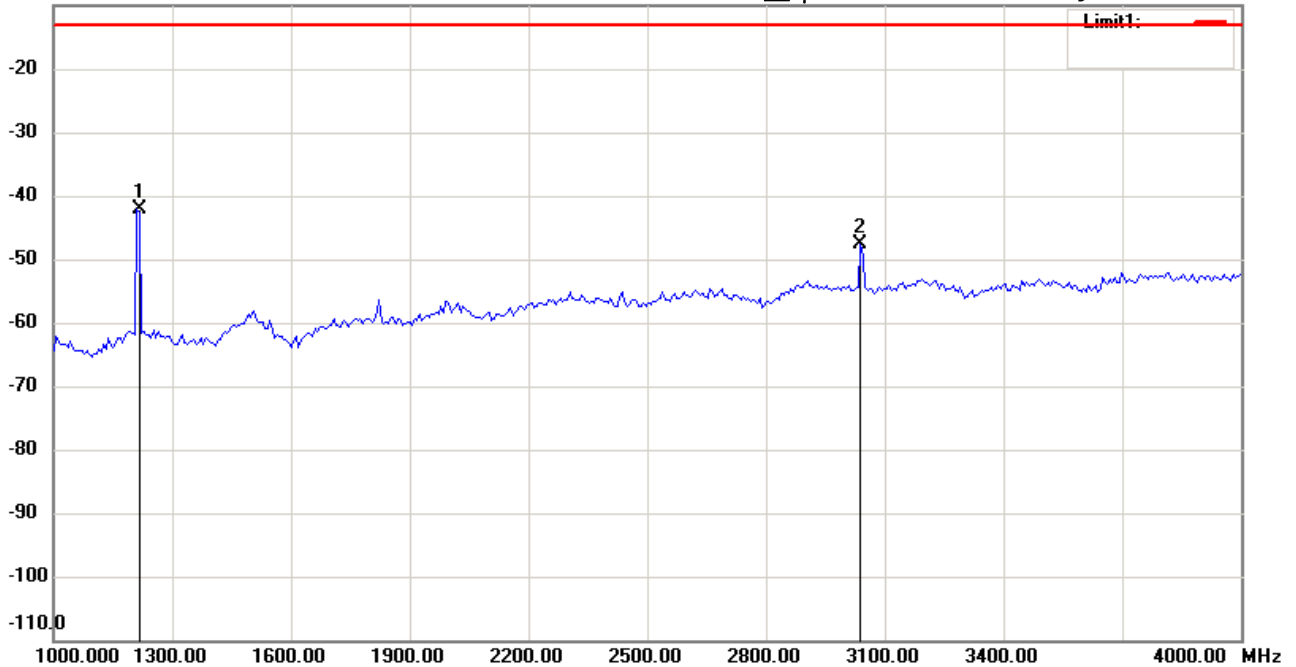
Date: 2015/3/13

Temperature:24 °C

-10.0 dBm

Time: 上午 11:12:08

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 607.9MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1210.421	-42.47	peak	0.32	-42.15	-13.00	150	100	-29.15	
	3038.076	-54.66	peak	7.02	-47.64	-13.00	150	250	-34.64	

*: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: Rick

File :3

Data :#2

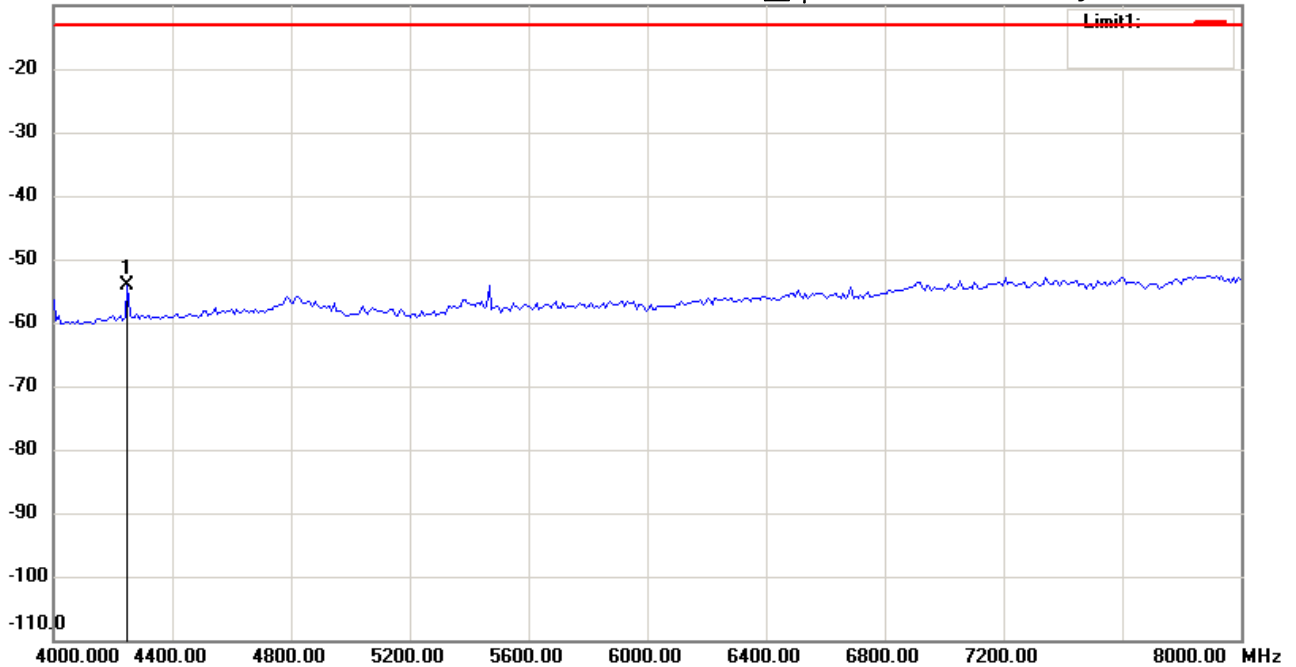
Date: 2015/3/13

Temperature:24 °C

-10.0 dBm

Time: 上午 11:09:22

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 607.9MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	4248.497	-61.13	peak	7.12	-54.01	-13.00	150	250	-41.01	

*: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: Rick

File :3

Data :#4

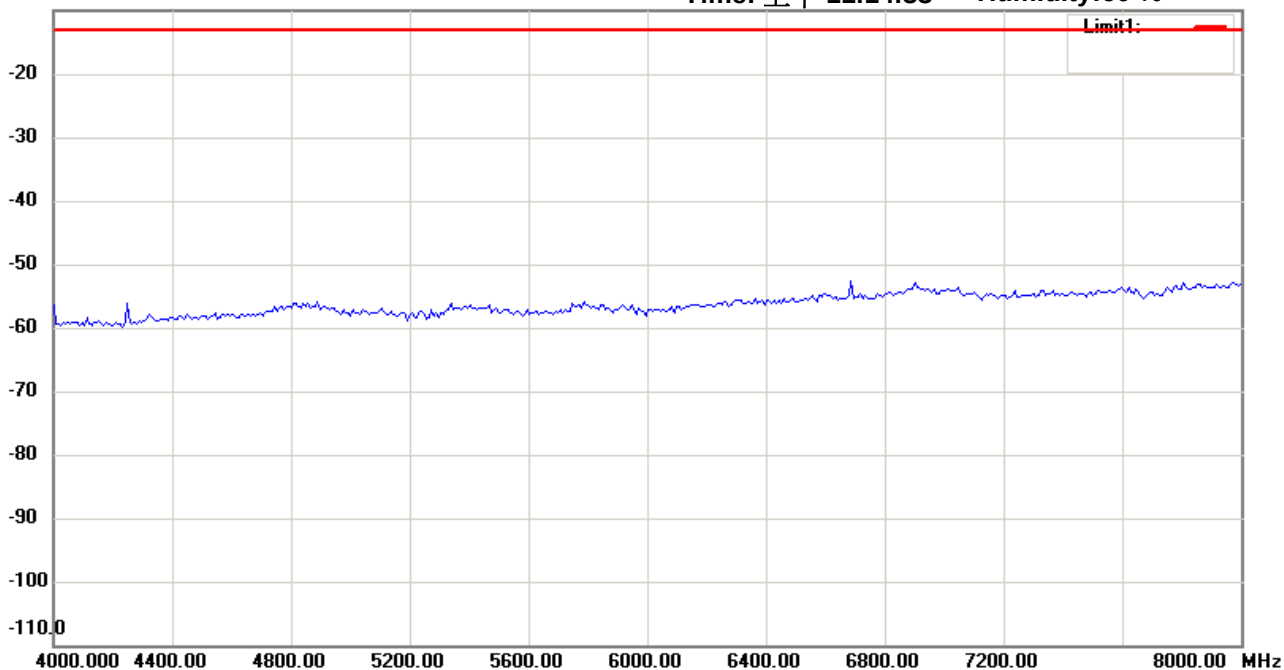
Date: 2015/3/13

Temperature:24 °C

-10.0 dBm

Time: 上午 11:14:33

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

Polarization: **Vertical**

EUT : W6M21405-14185

Power : 3.7Vdc

M/N:

Distance: 3m

Test Mode : Tx 607.9MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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

Operator: Rick

File :1

Data :#1

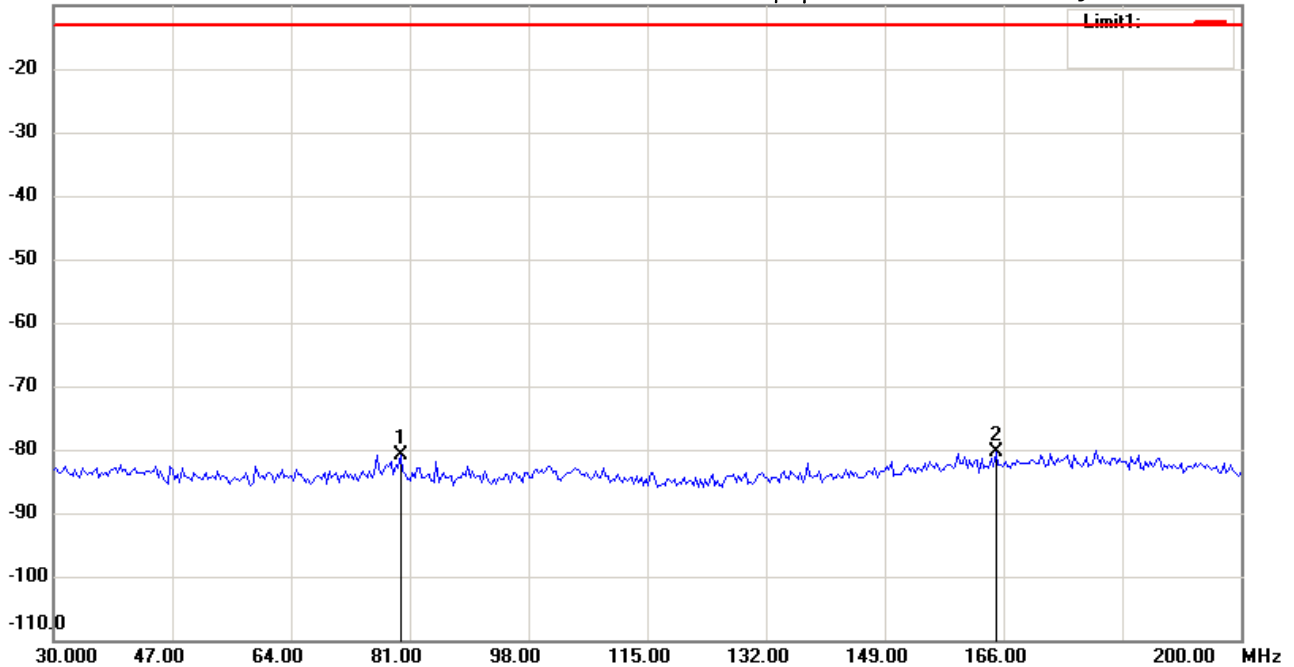
Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 05:48:14

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

Polarization: **Horizontal**

EUT : W6M21405-14185

Power : 3.7Vdc

M/N:

Distance: 3m

Test Mode : Tx 614.1MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	79.7395	-103.00	peak	22.06	-80.94	-13.00	150	220	-67.94	
*	164.9098	-102.94	peak	22.55	-80.39	-13.00	150	170	-67.39	

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



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

Operator: Rick

File :1

Data :#2

Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 05:55:31

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 614.1MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	83.8277	-103.16	peak	21.78	-81.38	-13.00	150	110	-68.38	
*	160.1402	-103.11	peak	23.10	-80.01	-13.00	150	320	-67.01	

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



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

Operator: Rick

File :2

Data :#1

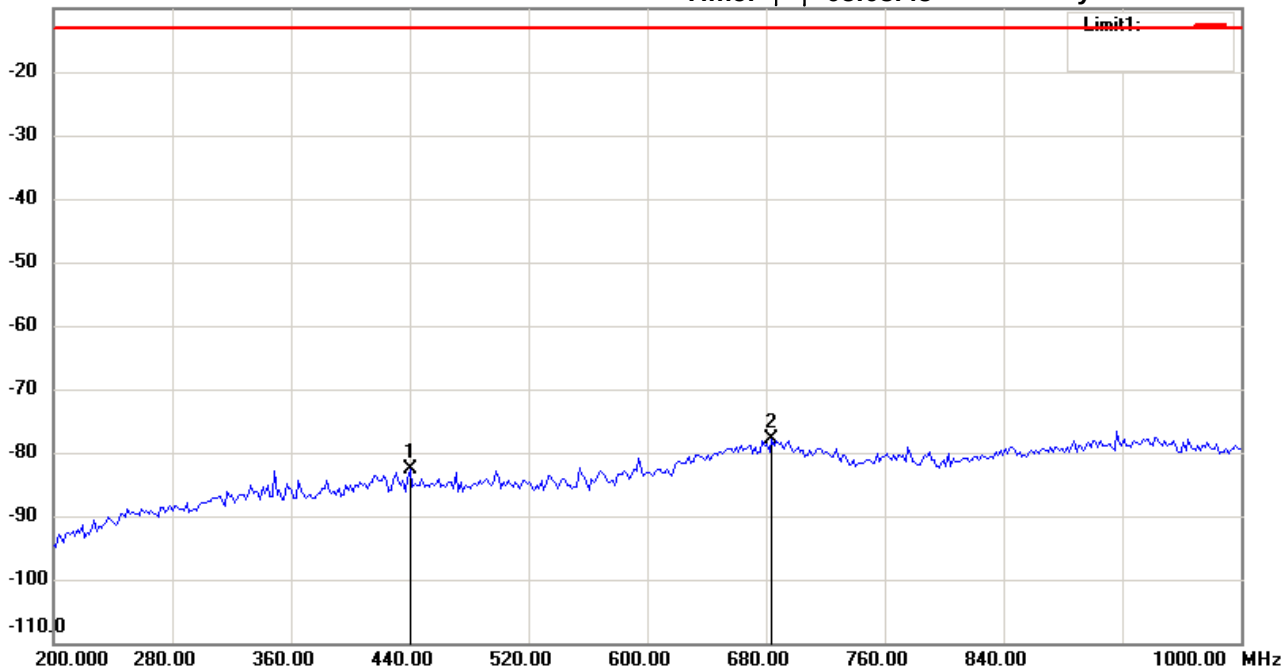
Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 05:03:45

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 614.1MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	440.4810	-72.92	peak	-9.63	-82.55	-13.00	150	250	-69.55	
*	684.1683	-75.40	peak	-2.39	-77.79	-13.00	150	100	-64.79	

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



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Radiated Emission Measurement

Operator: Rick

File :2

Data :#2

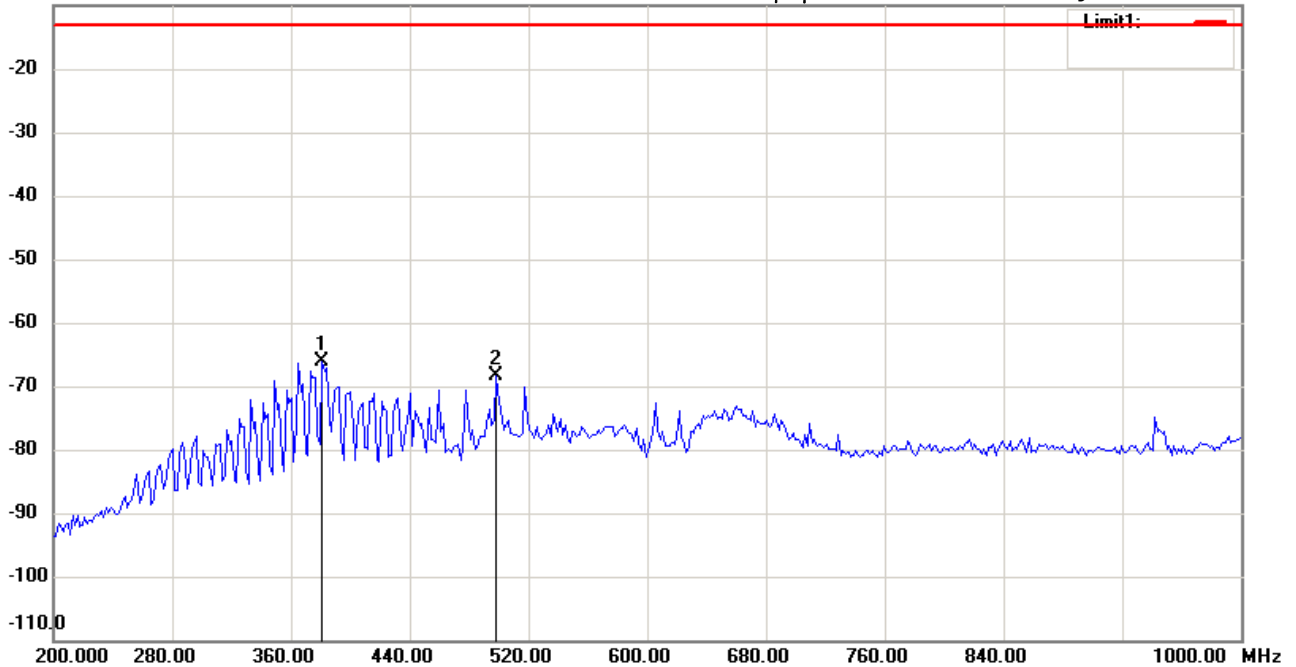
Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 05:06:10

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 614.1MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	381.1623	-53.05	peak	-13.08	-66.13	-13.00	150	170	-53.13	
	498.1964	-60.84	peak	-7.43	-68.27	-13.00	150	250	-55.27	

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



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

Operator: Rick

File :3

Data :#1

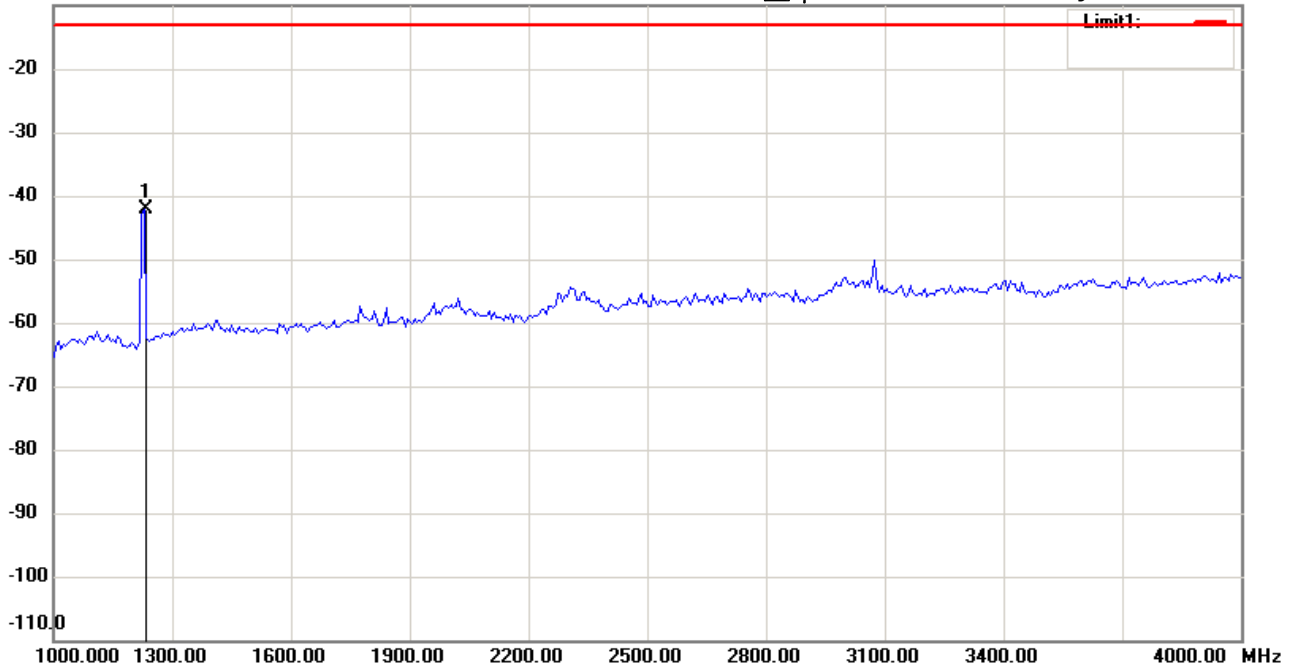
Date: 2015/3/13

Temperature:24 °C

-10.0 dBm

Time: 上午 11:00:28

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 614.1MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1228.457	-41.24	peak	-0.80	-42.04	-13.00	150	220	-29.04	

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



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#3

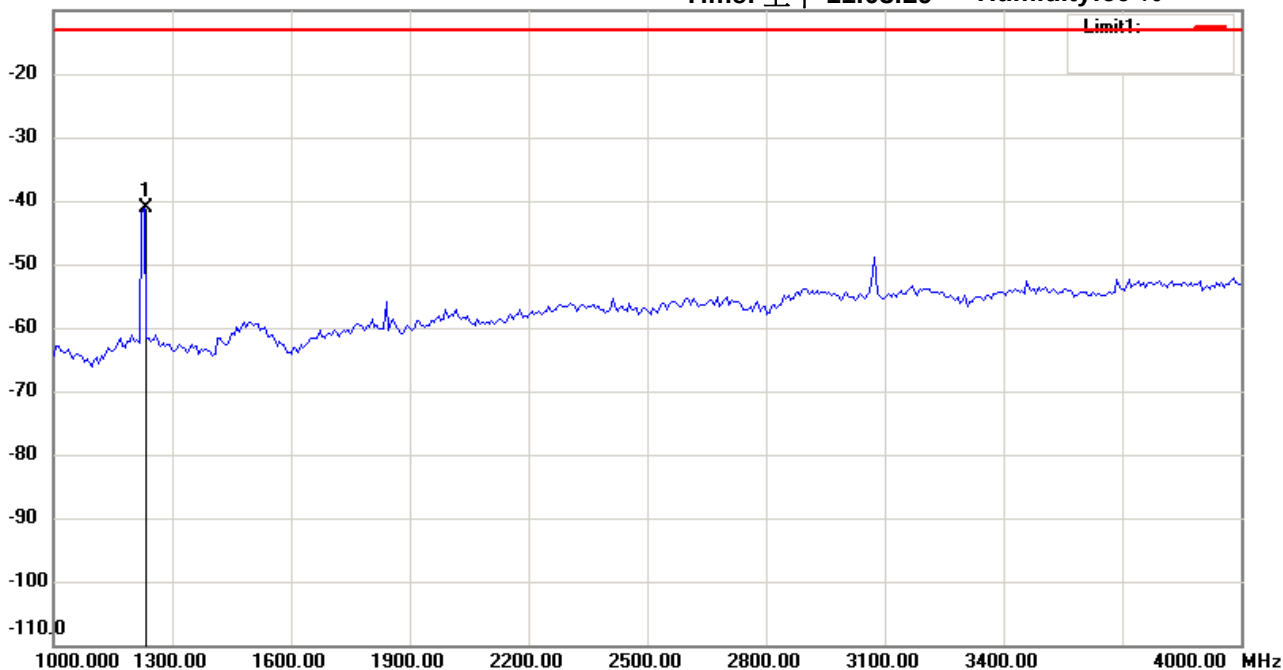
Date: 2015/3/13

Temperature:24 °C

-10.0 dBm

Time: 上午 11:03:29

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

Polarization: **Vertical**

EUT : W6M21405-14185

Power : 3.7Vdc

M/N:

Distance: 3m

Test Mode : Tx 614.1MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1228.457	-41.09	peak	0.01	-41.08	-13.00	150	190	-28.08	

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



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

Operator: Rick

File :3

Data :#2

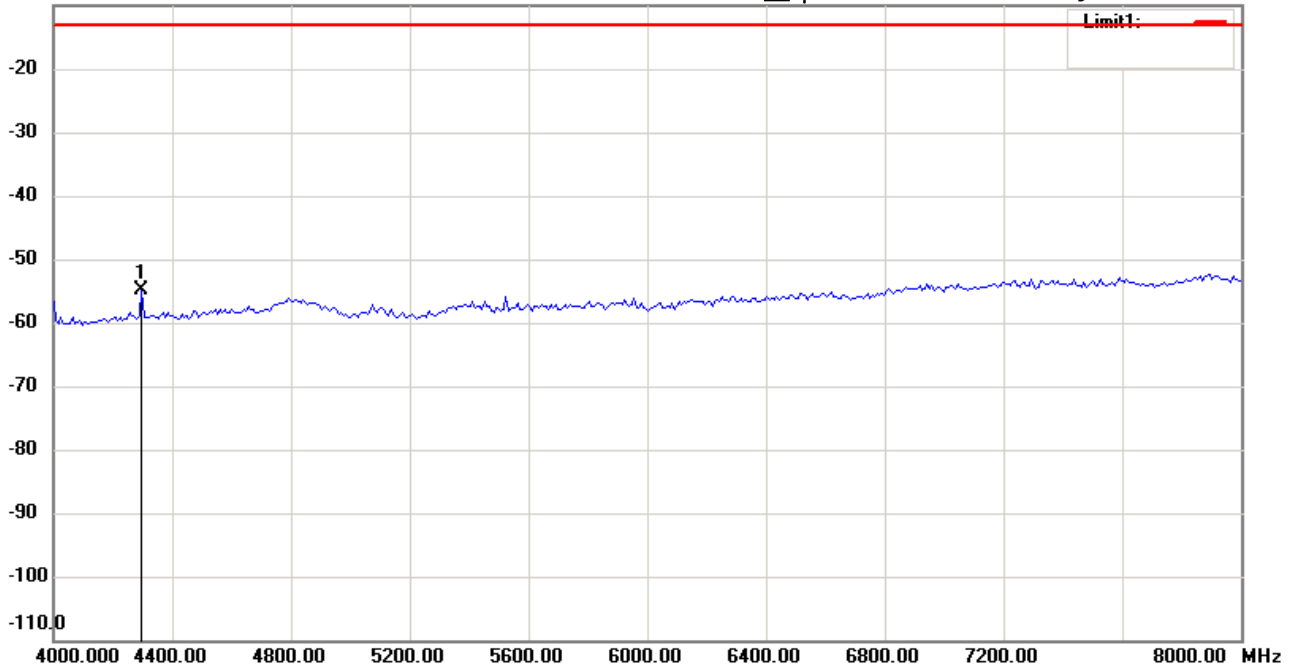
Date: 2015/3/13

Temperature:24 °C

-10.0 dBm

Time: 上午 11:01:41

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

Polarization: *Horizontal*

EUT : W6M21405-14185

Power : 3.7Vdc

M/N:

Distance: 3m

Test Mode : Tx 614.1MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	4296.593	-62.39	peak	7.42	-54.97	-13.00	150	200	-41.97	

*: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: Rick

File :3

Data :#4

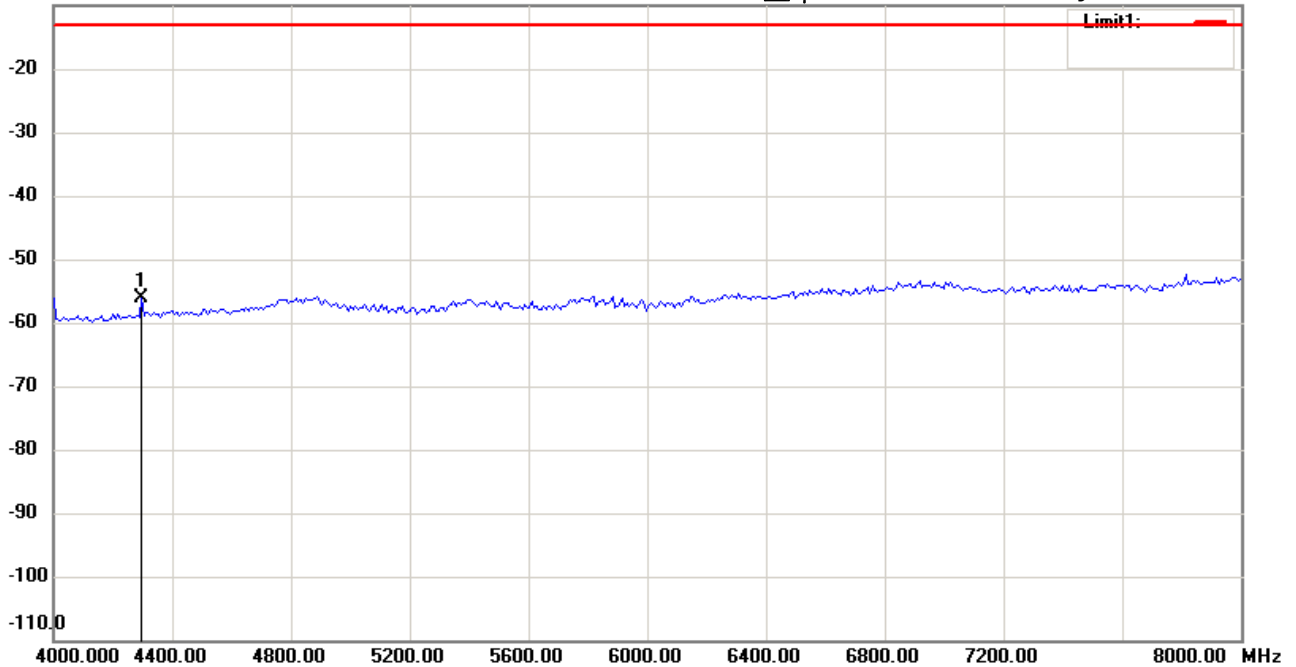
Date: 2015/3/13

Temperature:24 °C

-10.0 dBm

Time: 上午 11:04:43

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

Polarization: **Vertical**

EUT : W6M21405-14185

Power : 3.7Vdc

M/N:

Distance: 3m

Test Mode : Tx 614.1MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	4296.593	-63.66	peak	7.57	-56.09	-13.00	150	250	-43.09	

*: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: Rick

File :1

Data :#1

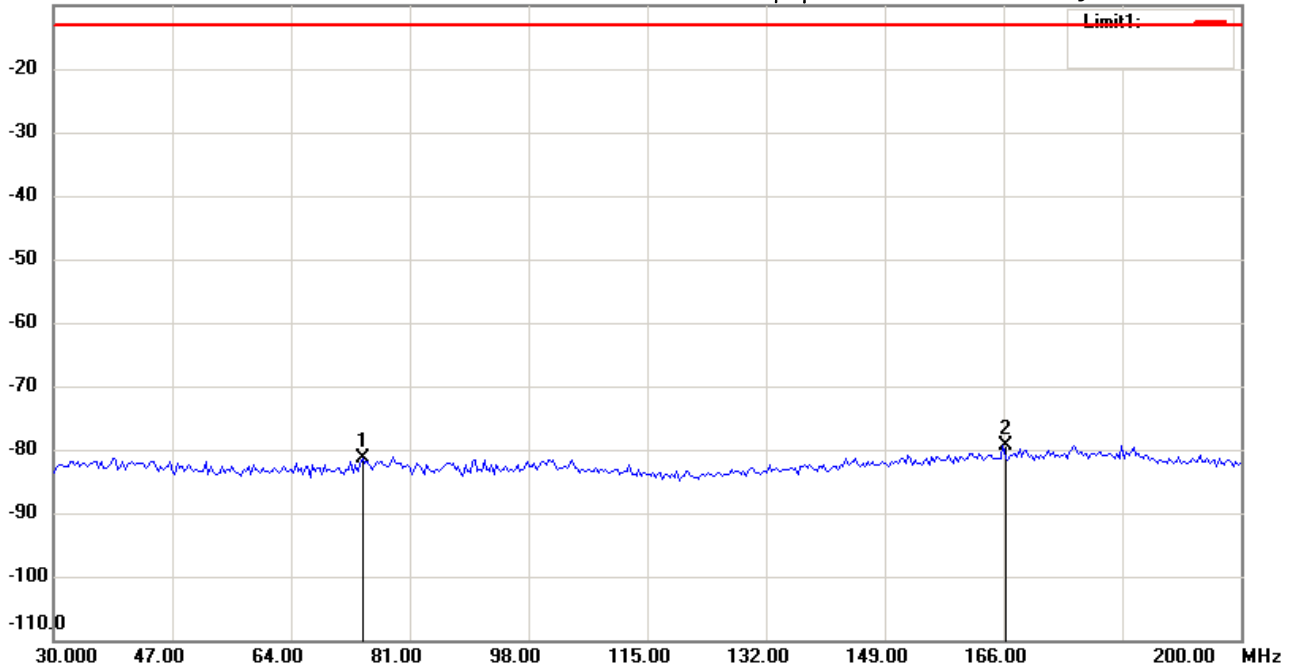
Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 05:47:30

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 656MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	74.2886	-102.71	peak	21.38	-81.33	-13.00	150	220	-68.33	
*	165.9320	-101.86	peak	22.57	-79.29	-13.00	150	120	-66.29	

*: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: Rick

File :1

Data :#2

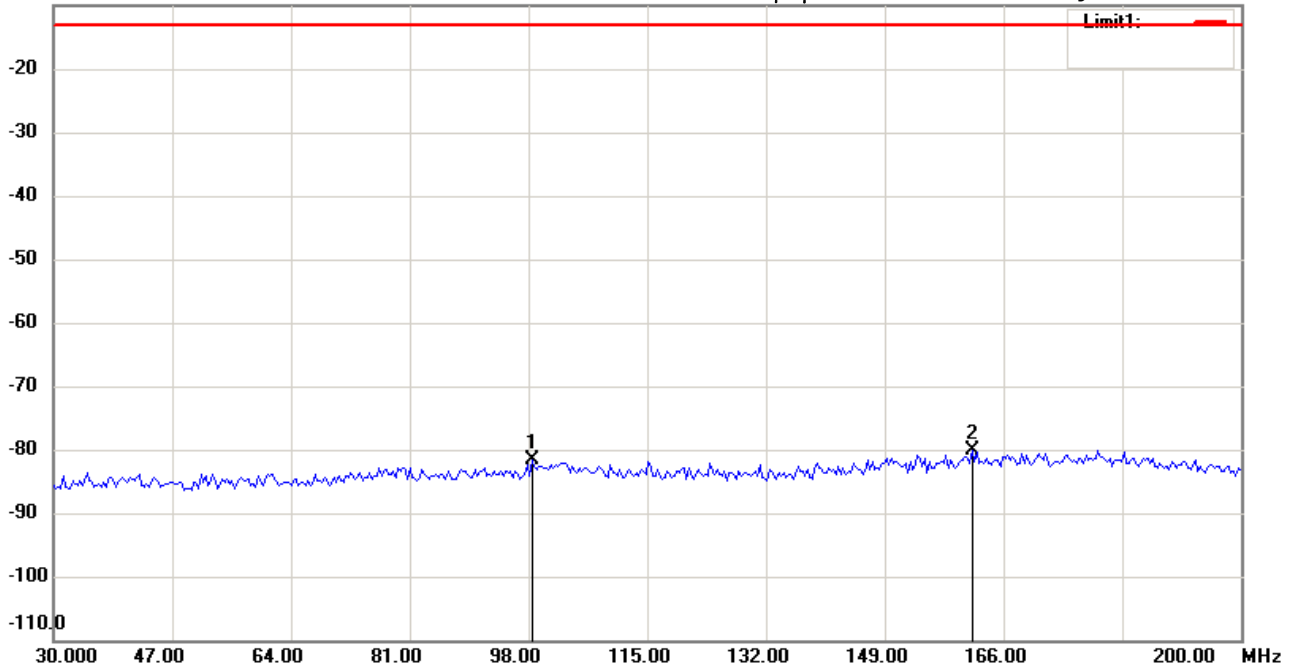
Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 05:56:08

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 656MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	98.4770	-103.95	peak	22.23	-81.72	-13.00	150	230	-68.72	
*	161.5030	-103.20	peak	23.11	-80.09	-13.00	150	100	-67.09	

*: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: Rick

File :2

Data :#1

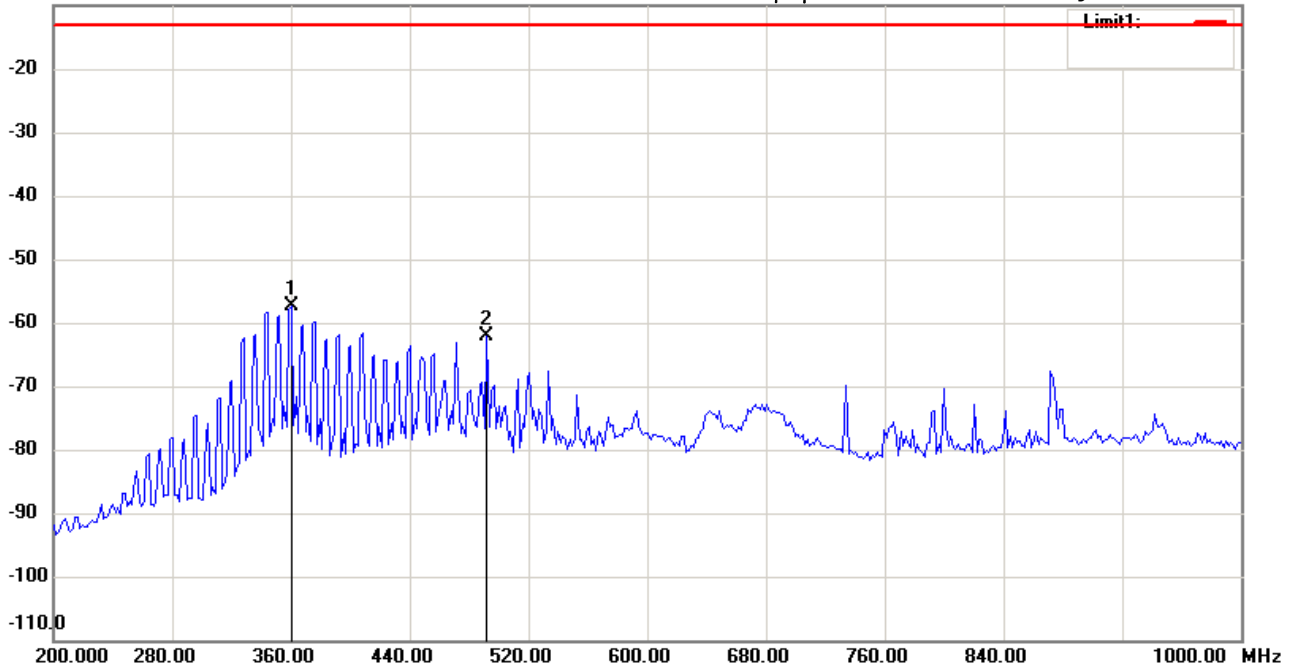
Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 05:27:37

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 656MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	360.3206	-46.92	peak	-10.55	-57.47	-13.00	150	100	-44.47	
	491.7836	-53.10	peak	-9.12	-62.22	-13.00	150	210	-49.22	

*: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: Rick

File :2

Data :#2

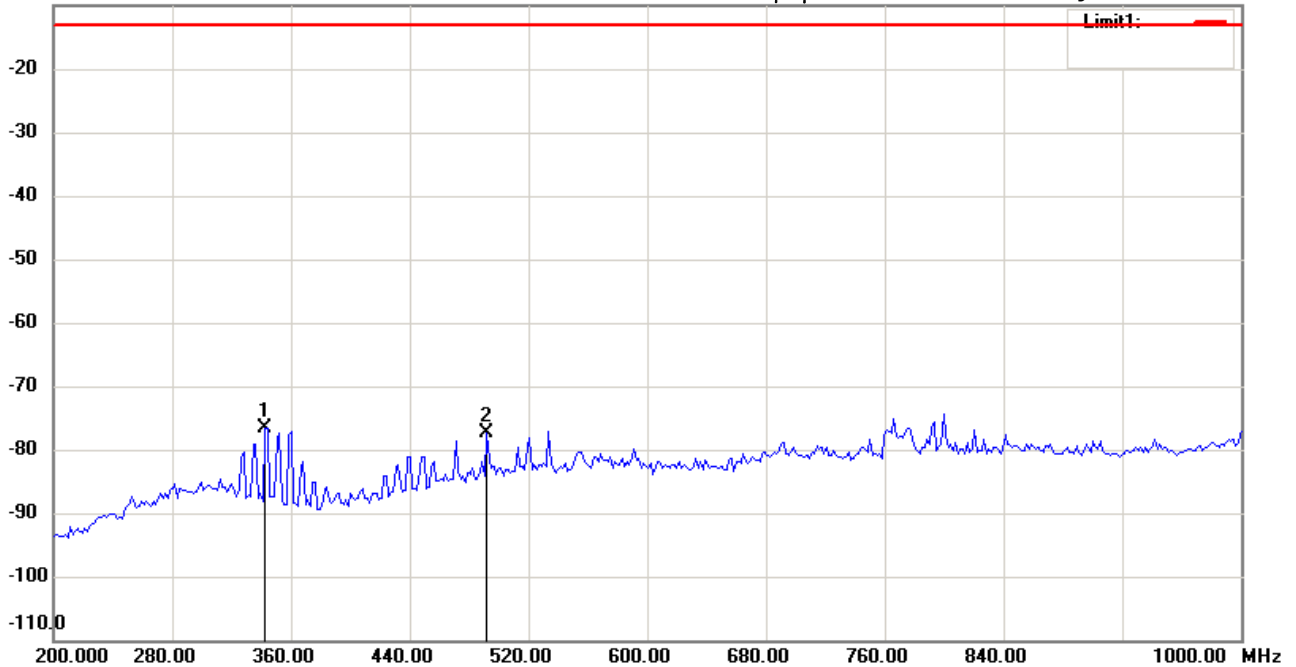
Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 05:24:50

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 656MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	342.6854	-64.65	peak	-12.01	-76.66	-13.00	150	280	-63.66	
	491.7836	-69.47	peak	-7.78	-77.25	-13.00	150	110	-64.25	

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



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

Operator: Rick

File :3

Data :#1

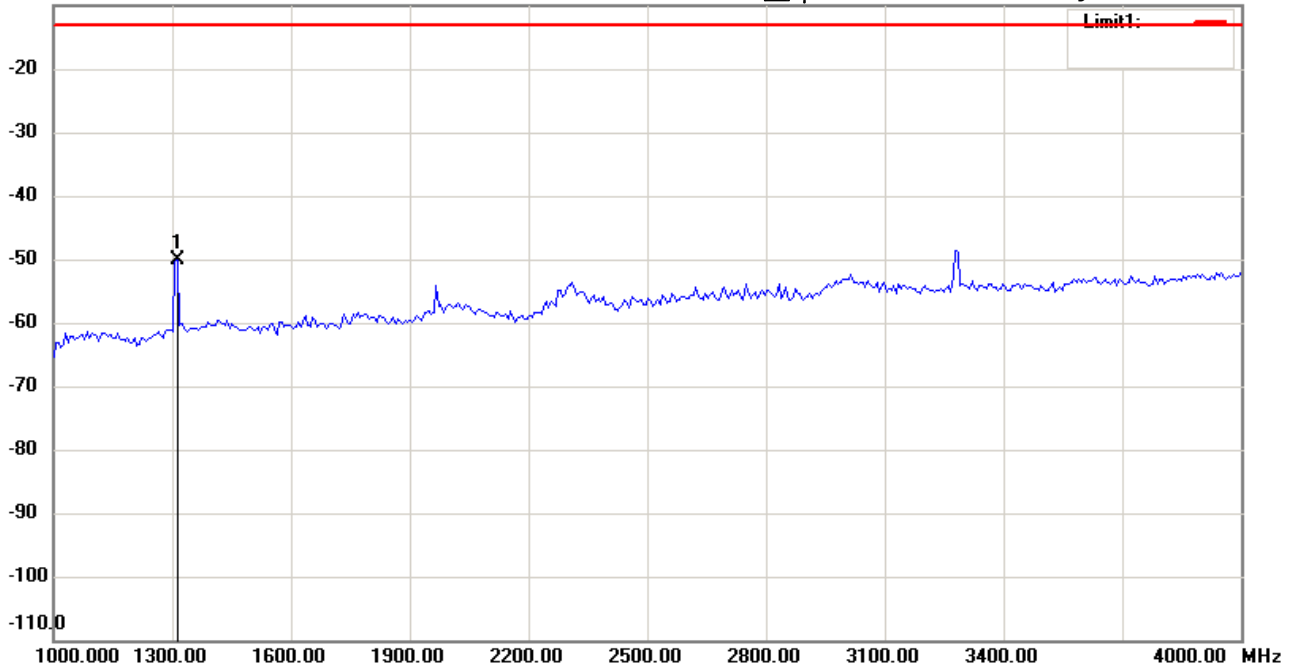
Date: 2015/3/13

Temperature:24 °C

-10.0 dBm

Time: 上午 10:08:59

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

Polarization: *Horizontal*

EUT : W6M21405-14185

Power : 3.7Vdc

M/N:

Distance: 3m

Test Mode : Tx 656MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1312.625	-50.54	peak	0.30	-50.24	-13.00	150	100	-37.24	

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



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

Operator: Rick

File :3

Data :#3

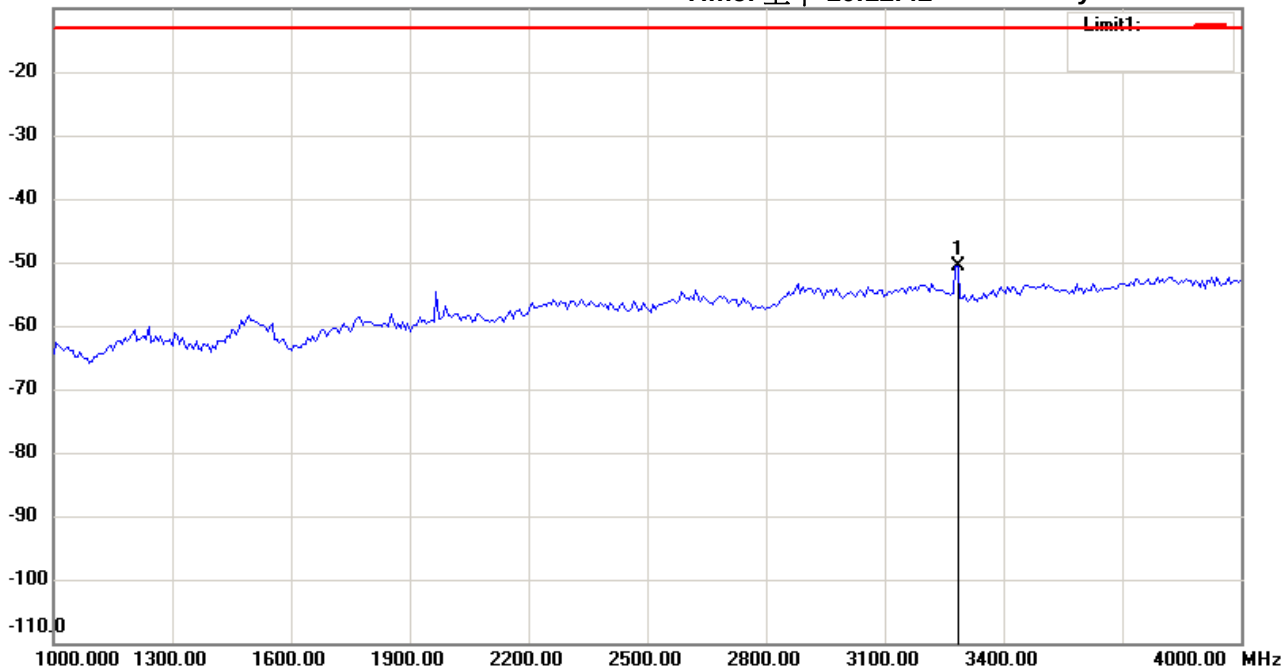
Date: 2015/3/13

Temperature:24 °C

-10.0 dBm

Time: 上午 10:12:42

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 656MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	3284.569	-57.11	peak	6.58	-50.53	-13.00	150	300	-37.53	

*: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: Rick

File :3

Data :#2

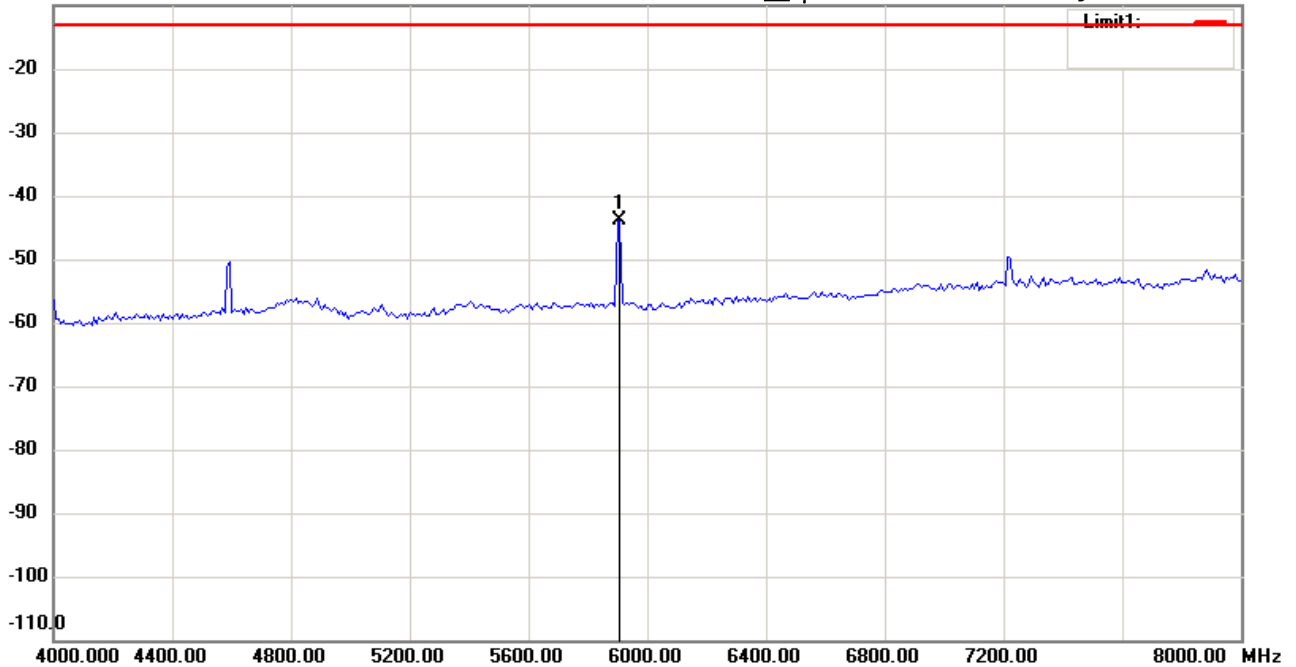
Date: 2015/3/13

Temperature:24 °C

-10.0 dBm

Time: 上午 10:10:20

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 656MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	5899.800	-54.88	peak	11.01	-43.87	-13.00	150	200	-30.87	

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



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#4

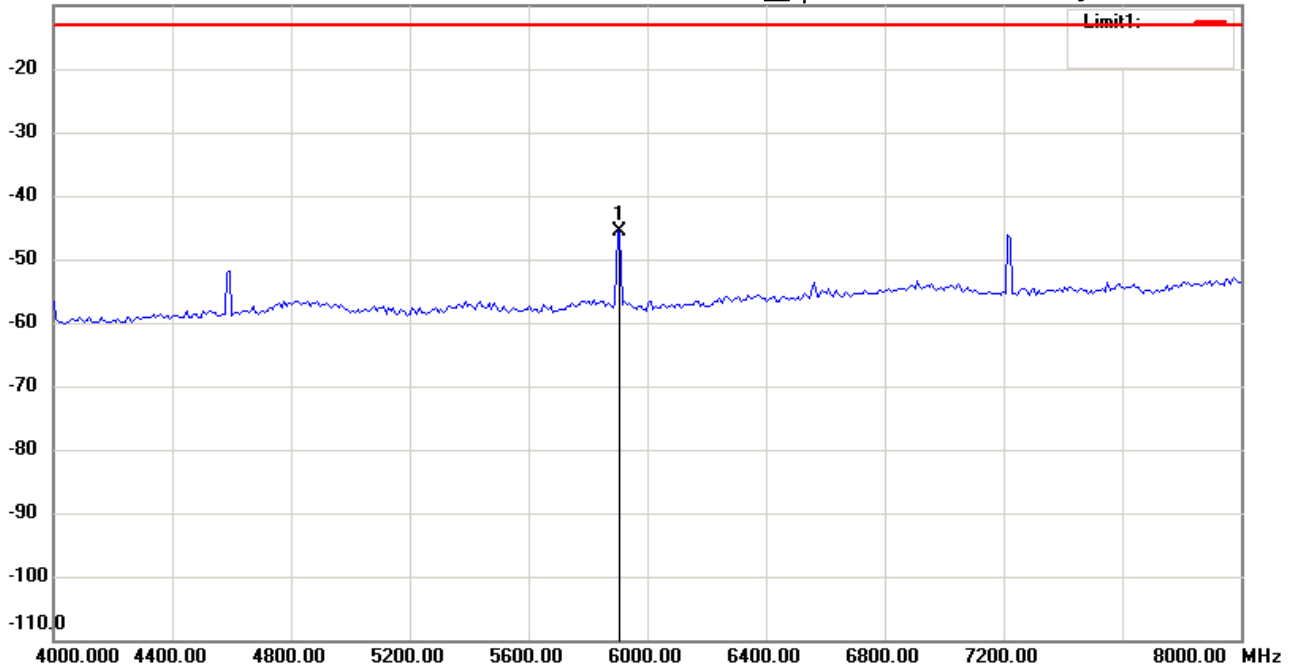
Date: 2015/3/13

Temperature:24 °C

-10.0 dBm

Time: 上午 10:13:33

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 656MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	5899.800	-56.45	peak	10.76	-45.69	-13.00	150	300	-32.69	

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



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

Operator: Rick

File :1

Data :#1

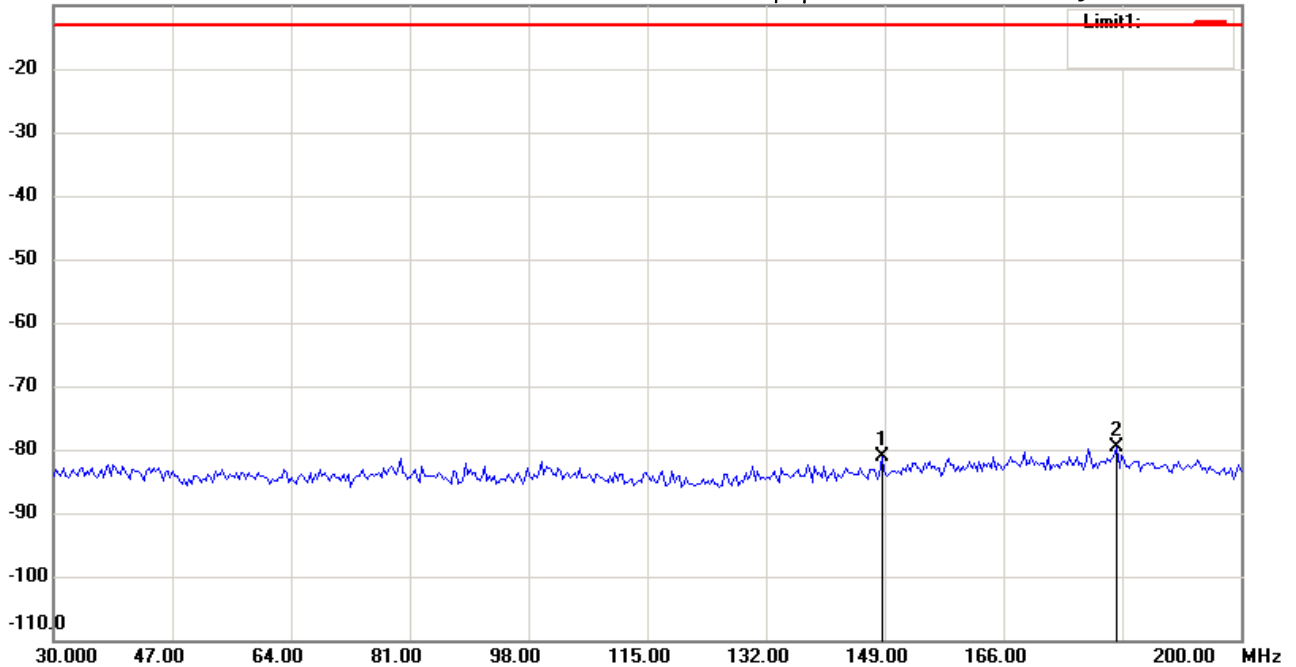
Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 05:45:44

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 697.9MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	148.5571	-102.80	peak	21.65	-81.15	-13.00	150	220	-68.15	
*	182.2846	-102.27	peak	22.66	-79.61	-13.00	150	120	-66.61	

*: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: Rick

File :1

Data :#2

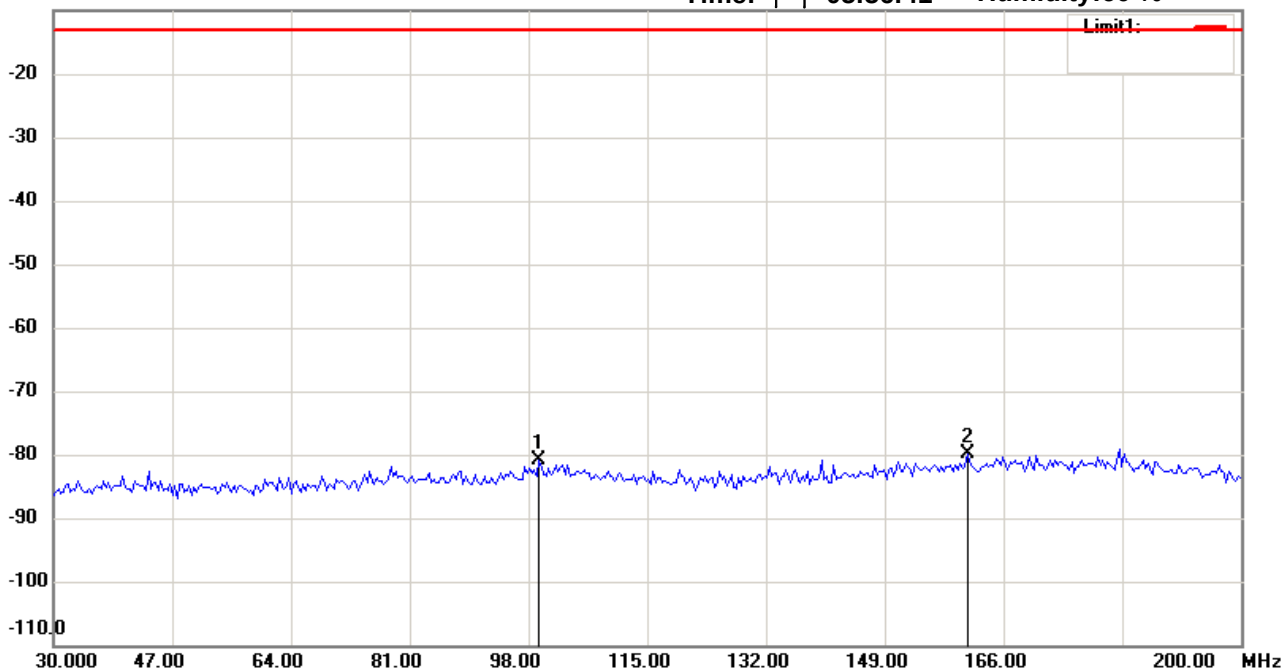
Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 05:56:41

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 697.9MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	99.4990	-103.29	peak	22.34	-80.95	-13.00	150	170	-67.95	
*	160.8216	-102.96	peak	23.11	-79.85	-13.00	150	230	-66.85	

*: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: Rick

File :2

Data :#1

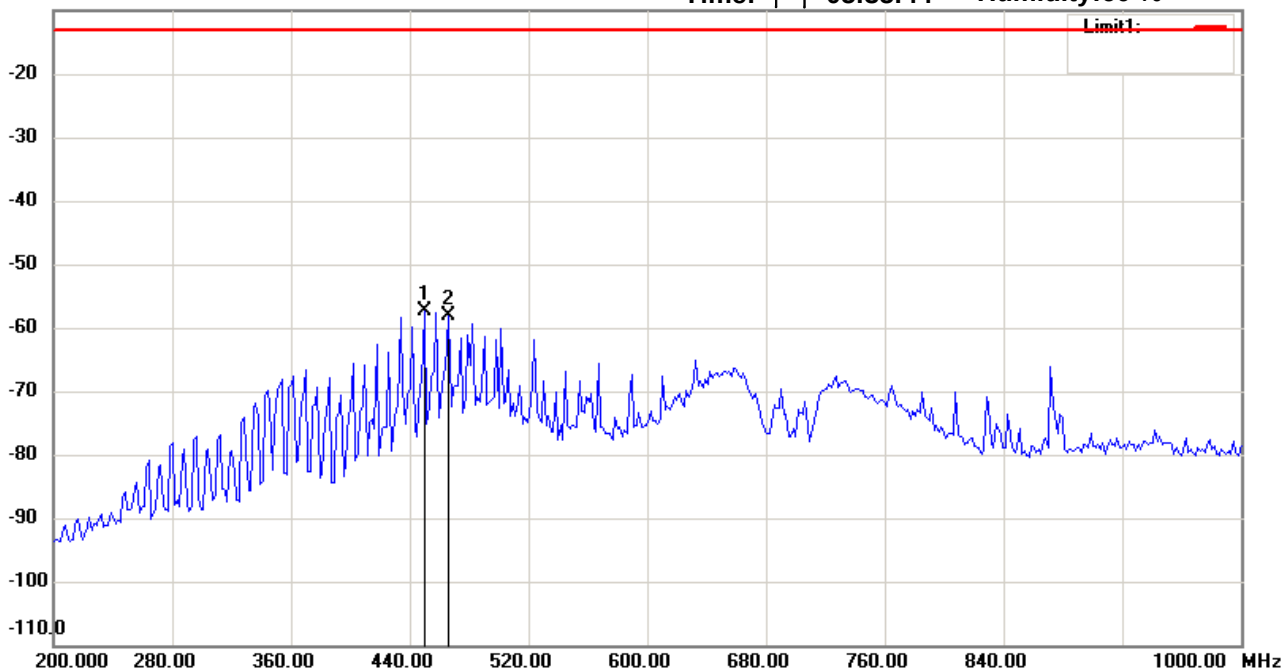
Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 05:35:44

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 697.9MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	450.1002	-48.08	peak	-9.29	-57.37	-13.00	150	100	-44.37	
	466.1323	-49.00	peak	-9.05	-58.05	-13.00	150	250	-45.05	

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



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

Operator: Rick

File :2

Data :#2

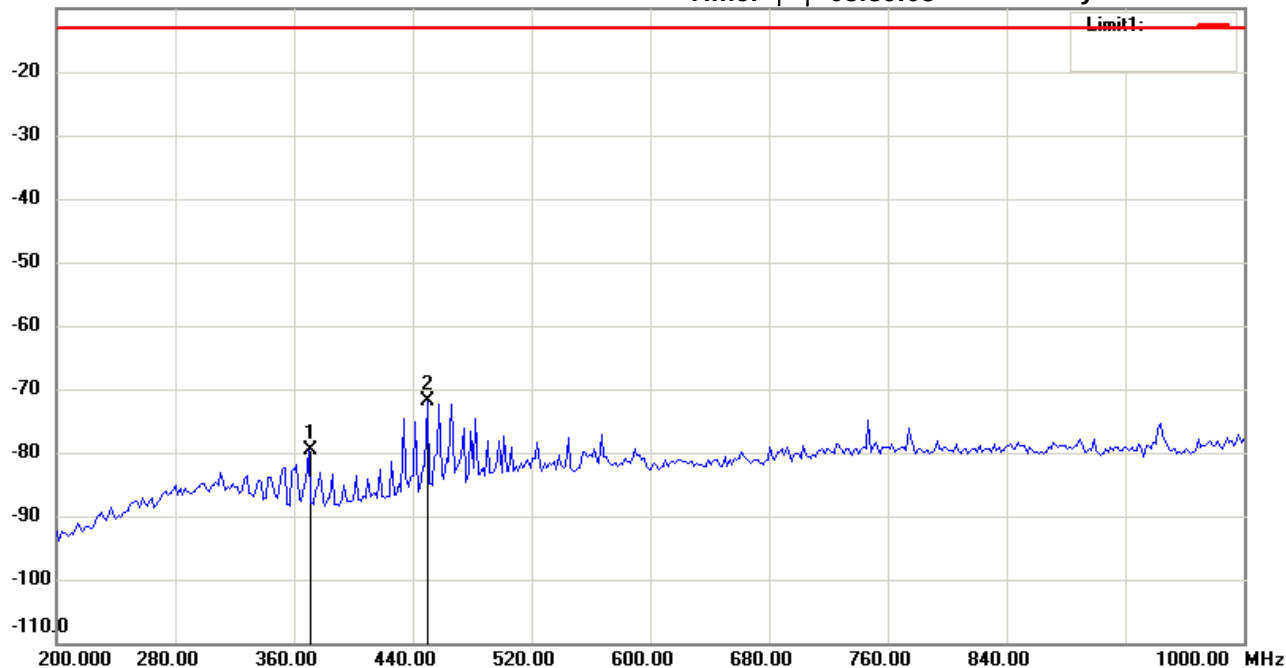
Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 05:39:05

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 697.9MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	369.9400	-66.96	peak	-12.72	-79.68	-13.00	150	110	-66.68	
*	450.1002	-62.11	peak	-9.84	-71.95	-13.00	150	300	-58.95	

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



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

Operator: Rick

File :3

Data :#1

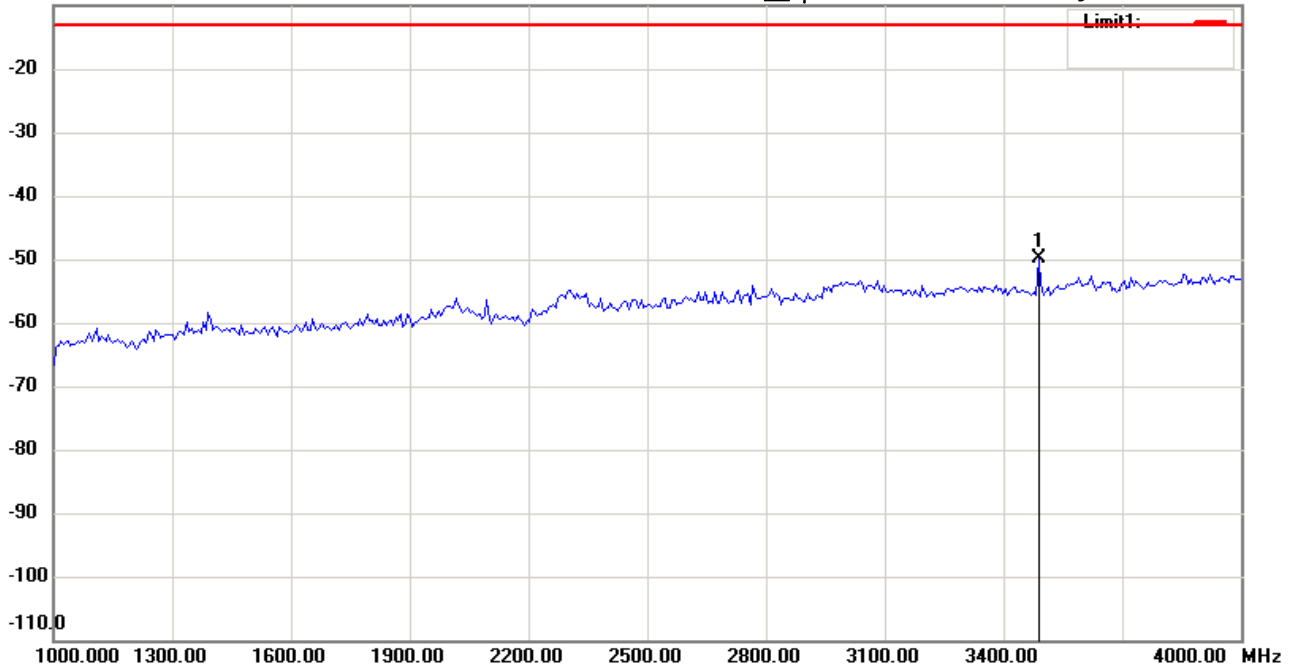
Date: 2015/3/13

Temperature:24 °C

-10.0 dBm

Time: 上午 09:47:06

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 697.9MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	3488.978	-57.03	peak	7.17	-49.86	-13.00	150	100	-36.86	

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



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

Operator: Rick

File :3

Data :#3

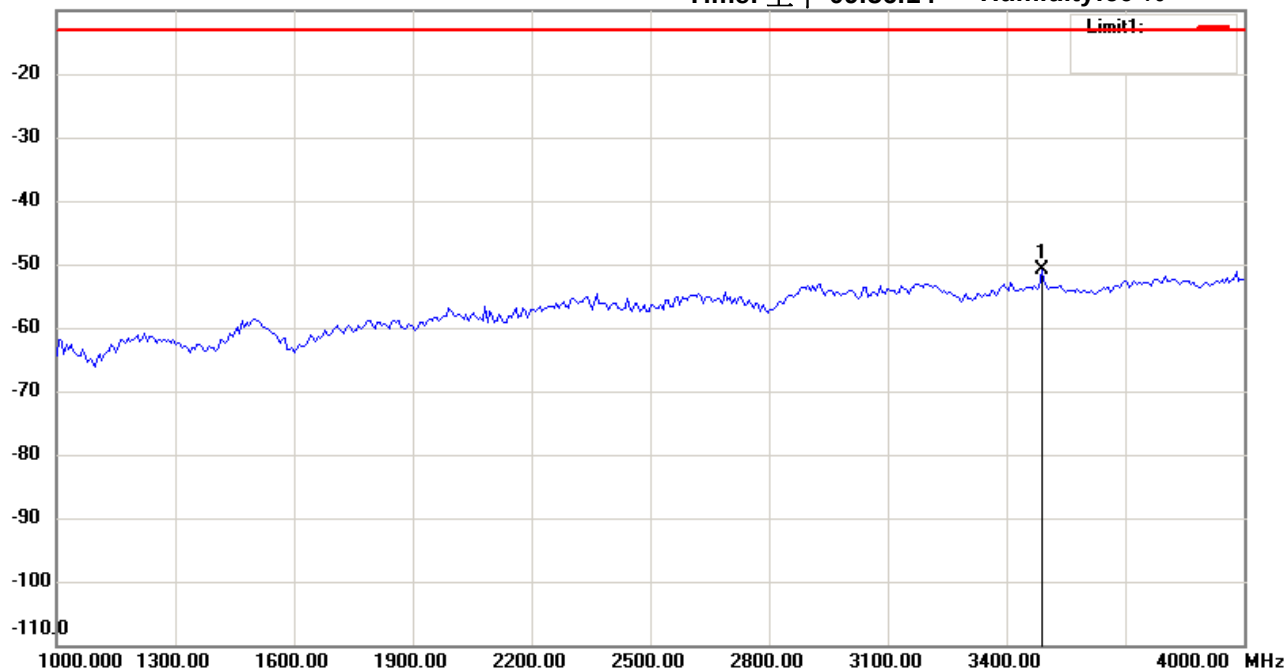
Date: 2015/3/13

Temperature:24 °C

-10.0 dBm

Time: 上午 09:56:14

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 697.9MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	3488.978	-59.23	peak	8.33	-50.90	-13.00	150	100	-37.90	

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



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#2

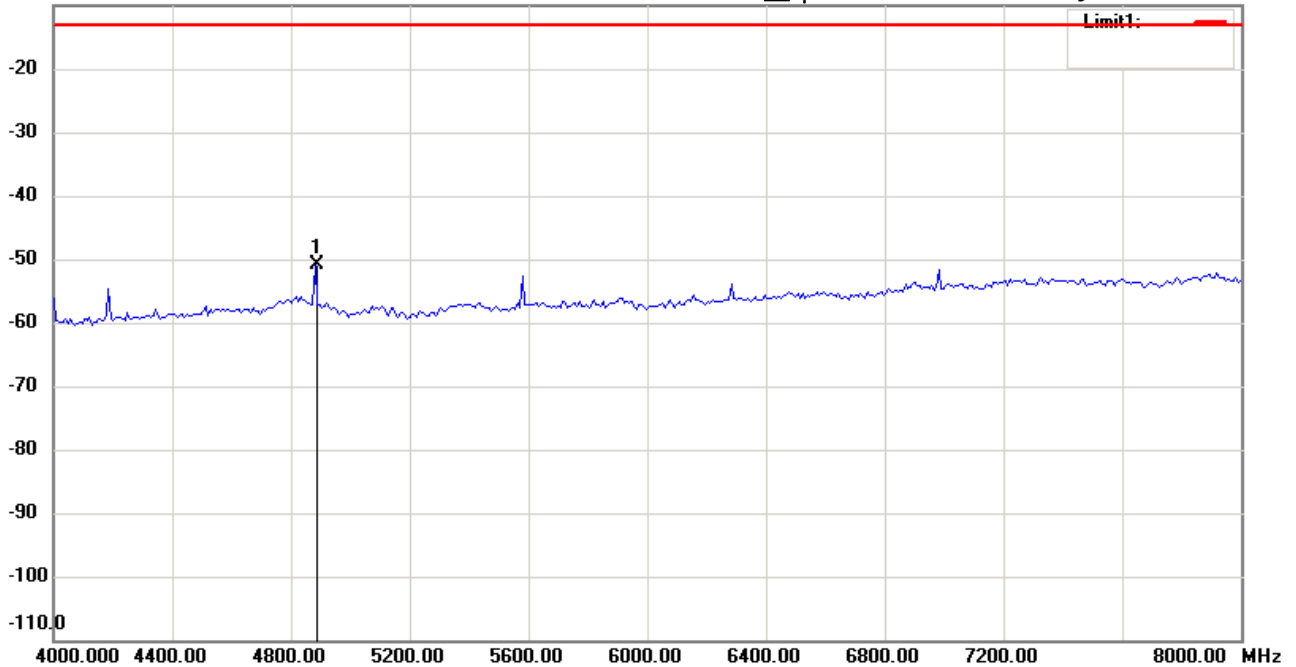
Date: 2015/3/13

Temperature:24 °C

-10.0 dBm

Time: 上午 09:49:14

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 697.9MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	4881.764	-60.09	peak	9.16	-50.93	-13.00	150	300	-37.93	

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



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

Operator: Rick

File :3

Data :#4

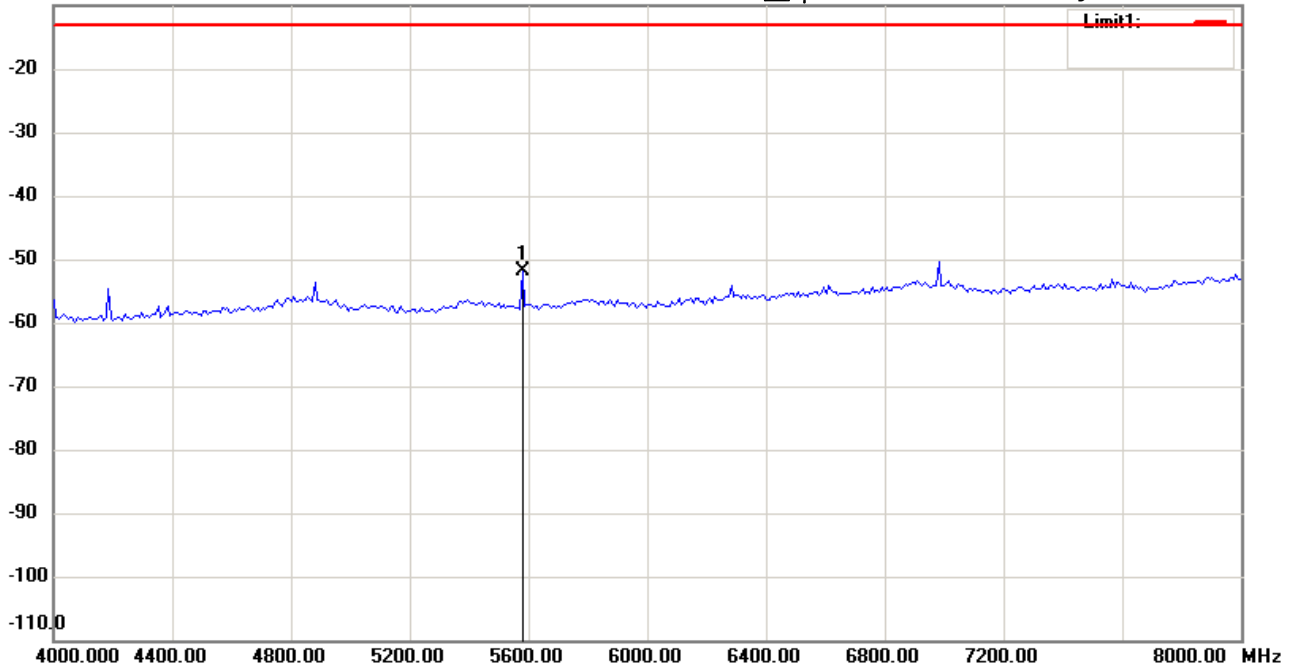
Date: 2015/3/13

Temperature:24 °C

-10.0 dBm

Time: 上午 10:03:32

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 697.9MHz

Note :

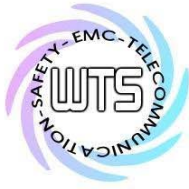
Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	5579.158	-62.14	peak	10.32	-51.82	-13.00	150	100	-38.82	

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



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14185-C-1

FCC ID: M5X-ACT70HC

IC: 2978A-ACT70HC

Radiation Spurious Emission-According to IC RSS-210



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

Radiated Emission Measurement

Operator: Rick

File :1

Data :#1

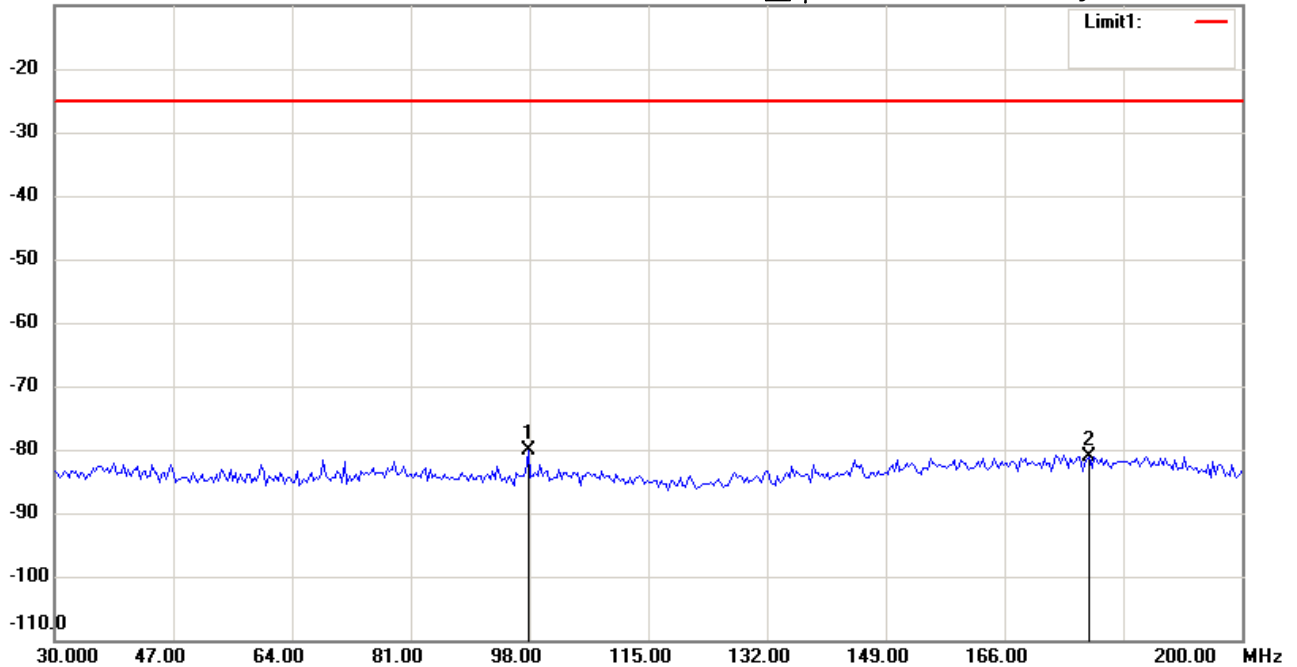
Date: 2015/3/11

Temperature:24 °C

-10.0 dBm

Time: 上午 11:21:44

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 480.1MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	97.7956	-101.25	peak	21.13	-80.12	-25.00	150	210	-55.12	
	178.1964	-103.93	peak	22.84	-81.09	-25.00	150	100	-56.09	

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



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Radiated Emission Measurement

Operator: Rick

File :1

Data :#2

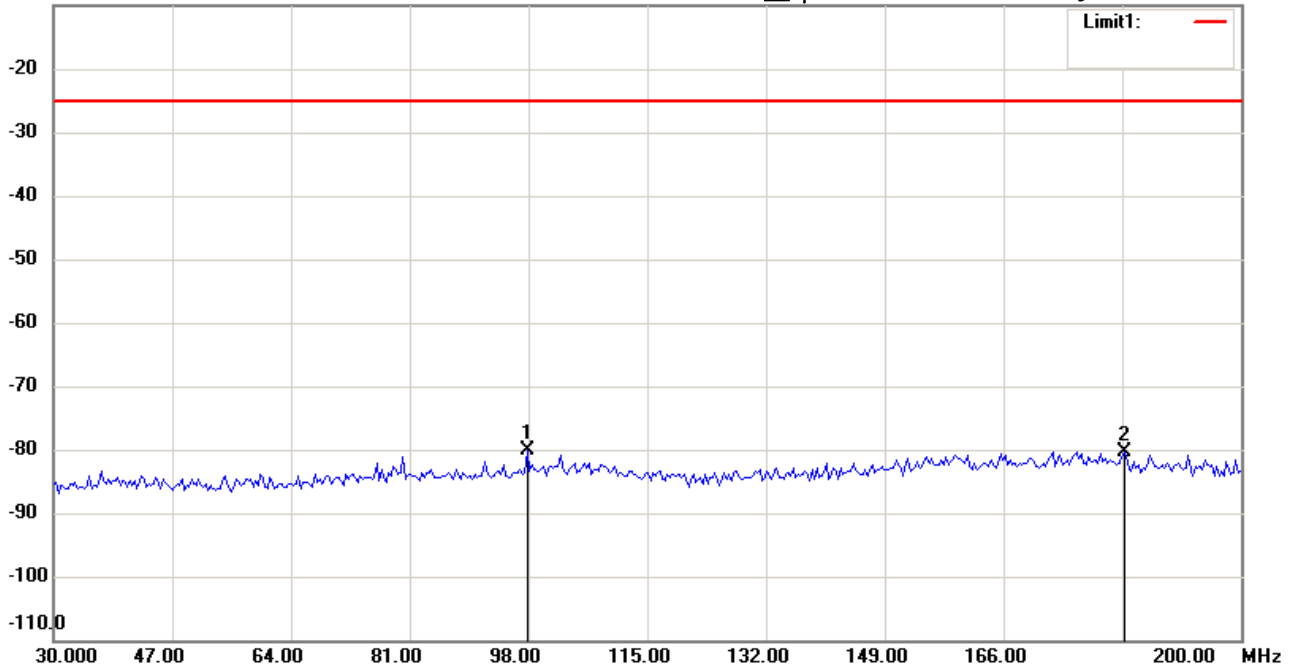
Date: 2015/3/11

Temperature:24 °C

-10.0 dBm

Time: 上午 11:22:07

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 480.1MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	97.7956	-102.18	peak	22.16	-80.02	-25.00	150	280	-55.02	
	183.3066	-103.18	peak	22.91	-80.27	-25.00	150	110	-55.27	

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



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Radiated Emission Measurement

Operator: Rick

File :2

Data :#1

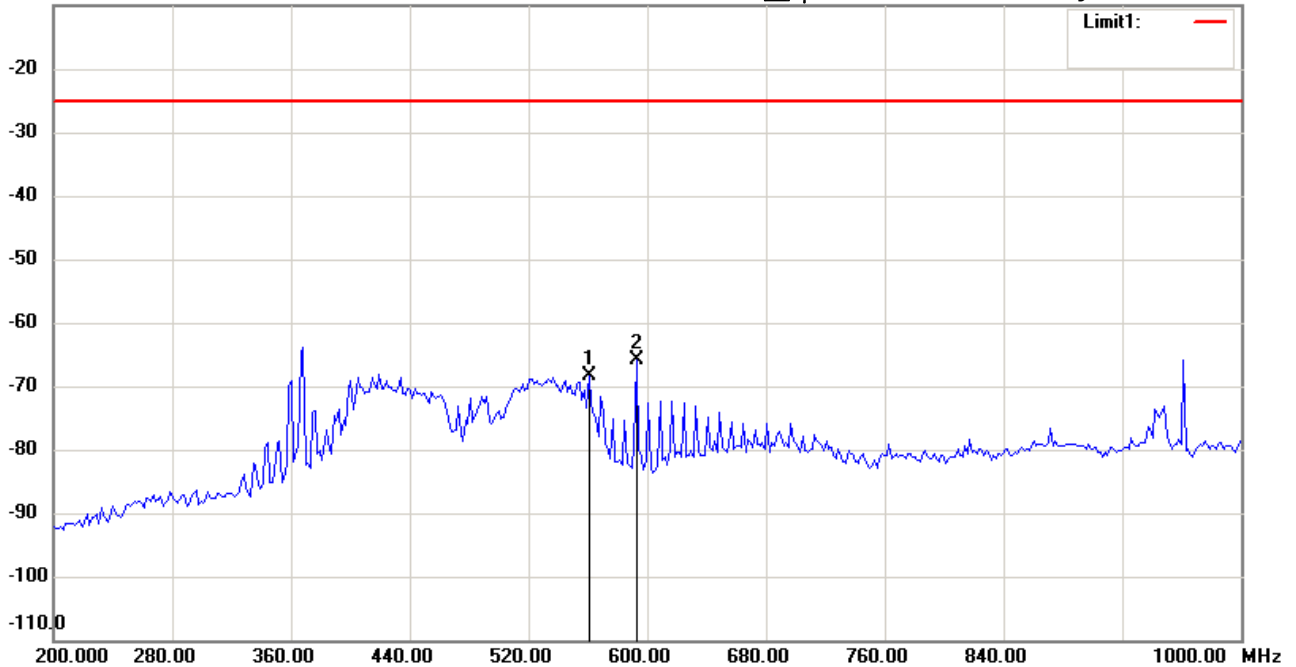
Date: 2015/3/23

Temperature:24 °C

-10.0 dBm

Time: 上午 11:44:46

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 480.1MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	560.7214	-59.82	peak	-8.57	-68.39	-25.00	150	250	-43.39	
*	592.7856	-59.06	peak	-6.87	-65.93	-25.00	150	100	-40.93	

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



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Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Rick

File :2

Data :#2

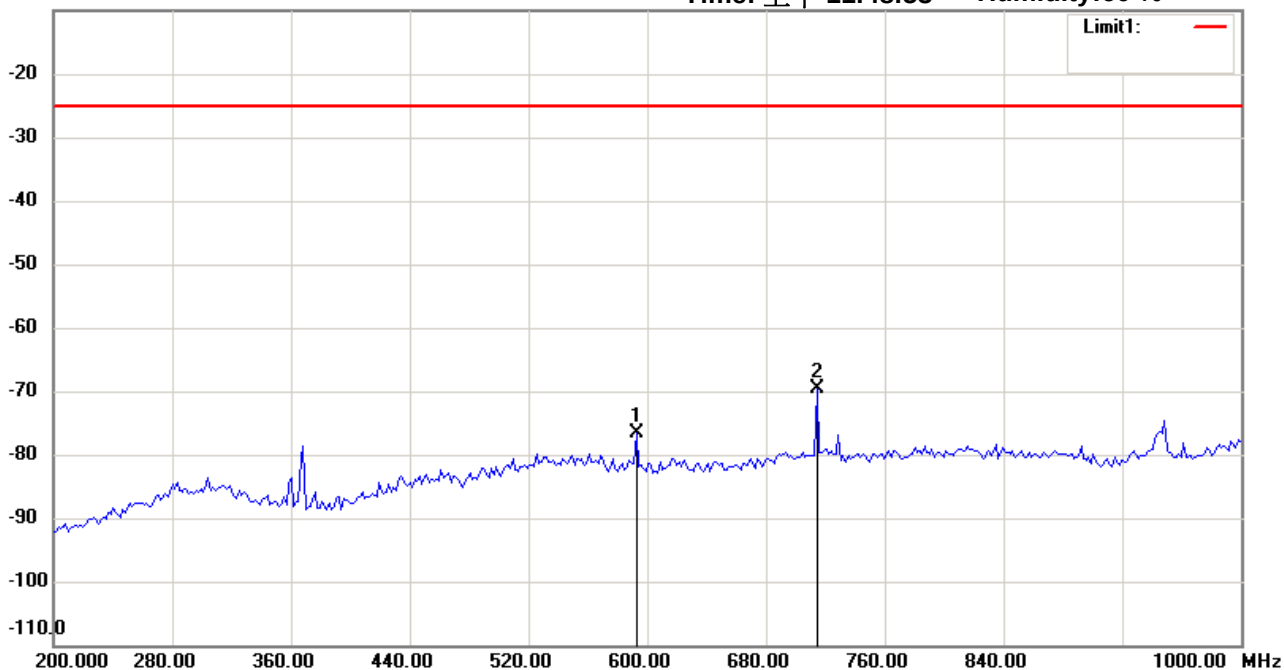
Date: 2015/3/23

Temperature:24 °C

-10.0 dBm

Time: 上午 11:48:53

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 480.1MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	592.7856	-70.60	peak	-5.92	-76.52	-25.00	150	230	-51.52	
*	714.6293	-66.18	peak	-3.54	-69.72	-25.00	150	100	-44.72	

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



Radiated Emission Measurement

Operator: Rick

File :3

Data :#1

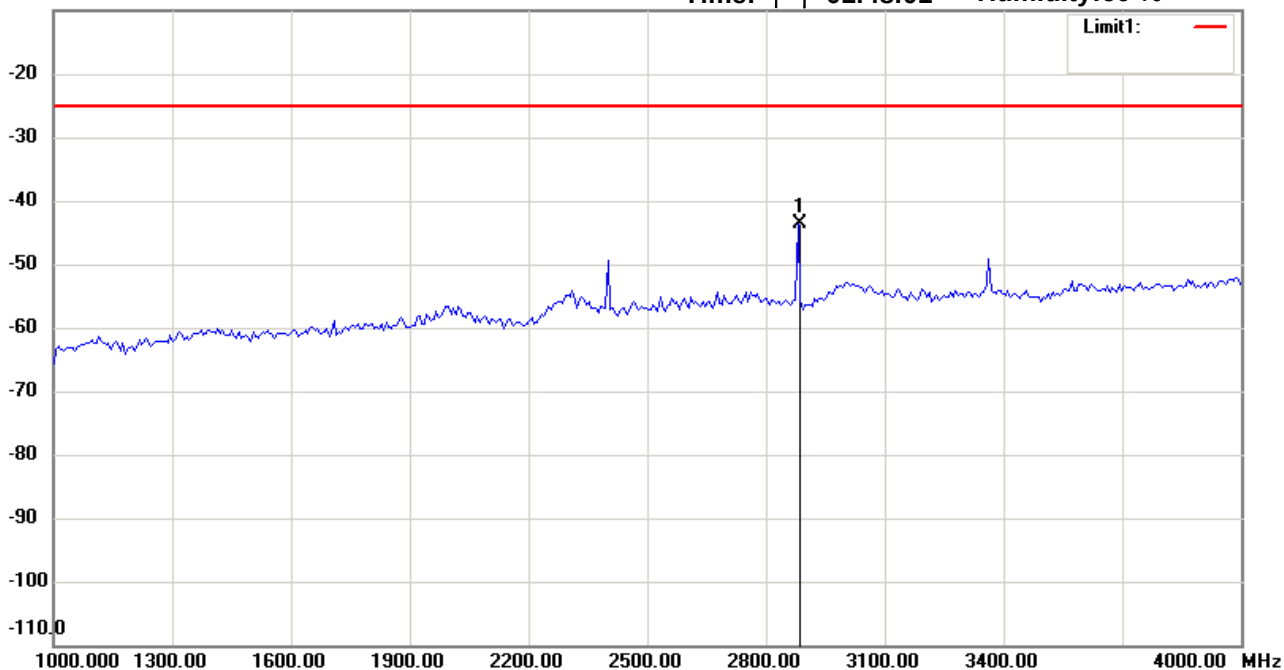
Date: 2015/3/23

Temperature:24 °C

-10.0 dBm

Time: 下午 01:48:01

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 480.1MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2881.764	-49.17	peak	5.49	-43.68	-25.00	150	100	-18.68	



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#3

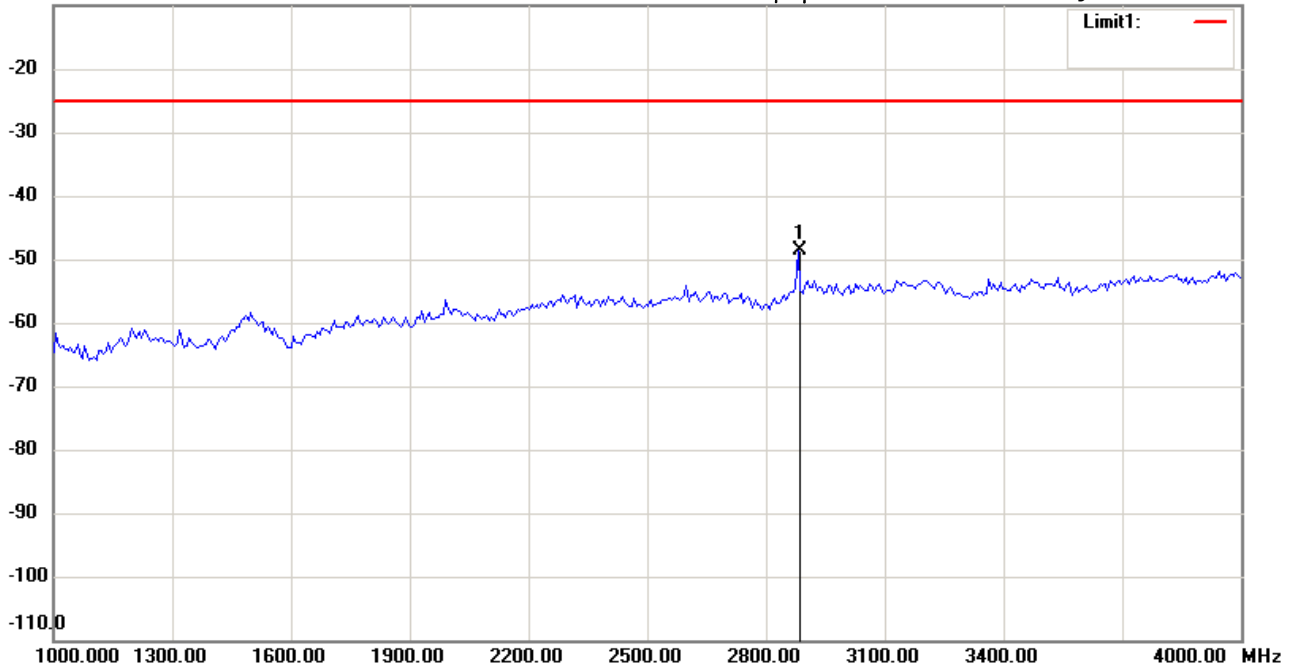
Date: 2015/3/23

Temperature:24 °C

-10.0 dBm

Time: 下午 01:53:24

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 480.1MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2881.764	-55.73	peak	7.03	-48.70	-25.00	150	70	-23.70	

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



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#2

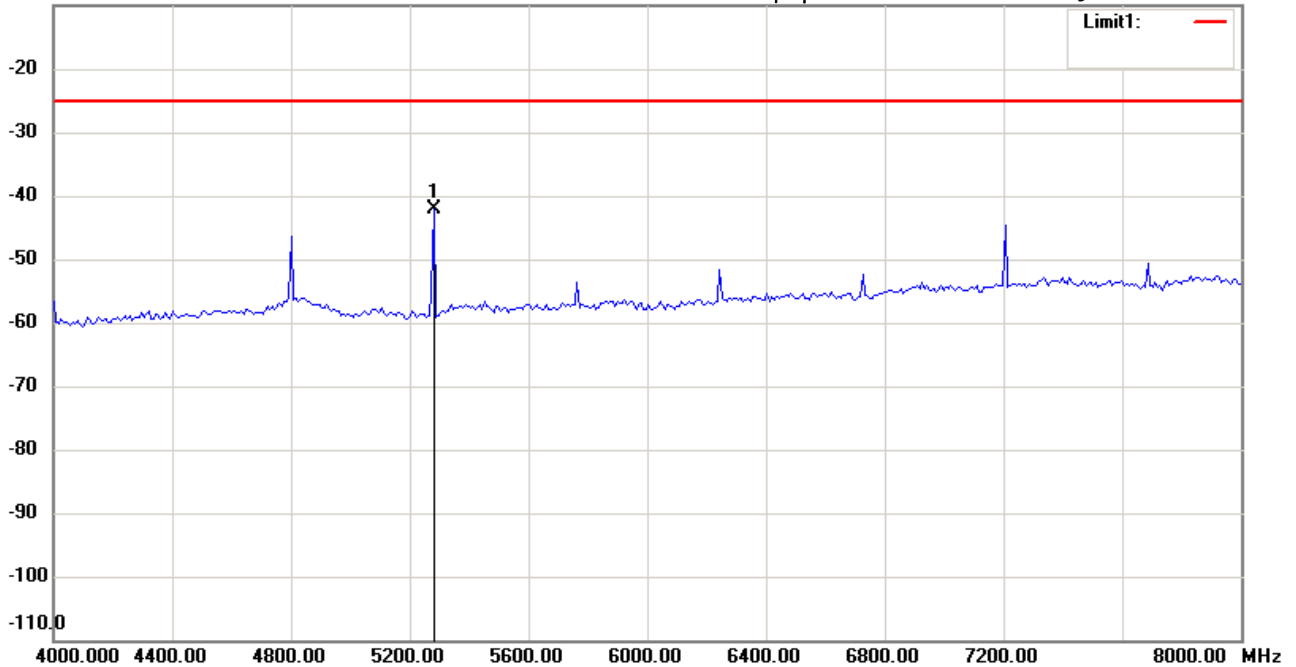
Date: 2015/3/23

Temperature:24 °C

-10.0 dBm

Time: 下午 01:48:52

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 480.1MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	5282.565	-51.12	peak	8.88	-42.24	-25.00	150	170	-17.24	

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



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

Operator: Rick

File :3

Data :#4

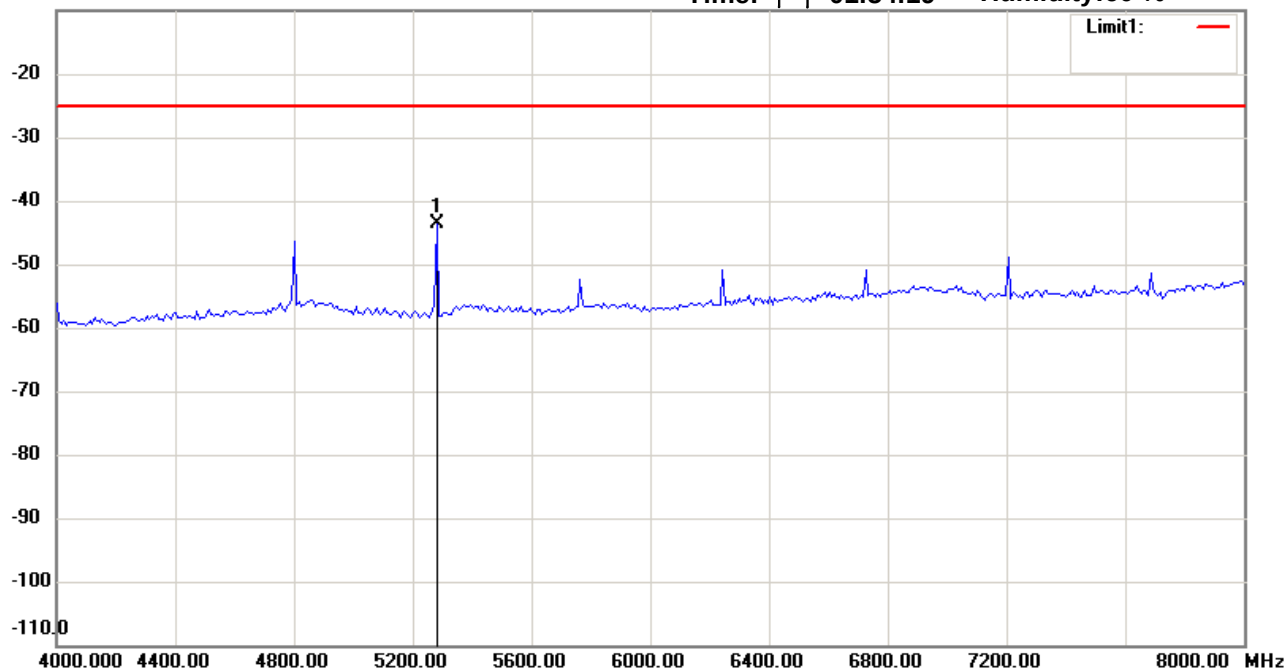
Date: 2015/3/23

Temperature:24 °C

-10.0 dBm

Time: 下午 01:54:19

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 480.1MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	5282.565	-53.13	peak	9.47	-43.66	-25.00	150	250	-18.66	

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



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Radiated Emission Measurement

Operator: Rick

File :1

Data :#1

Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 05:51:17

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 544MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	154.3487	-102.63	peak	22.05	-80.58	-25.00	150	270	-55.58	
*	180.5812	-102.74	peak	22.82	-79.92	-25.00	150	120	-54.92	

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



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Radiated Emission Measurement

Operator: Rick

File :1

Data :#2

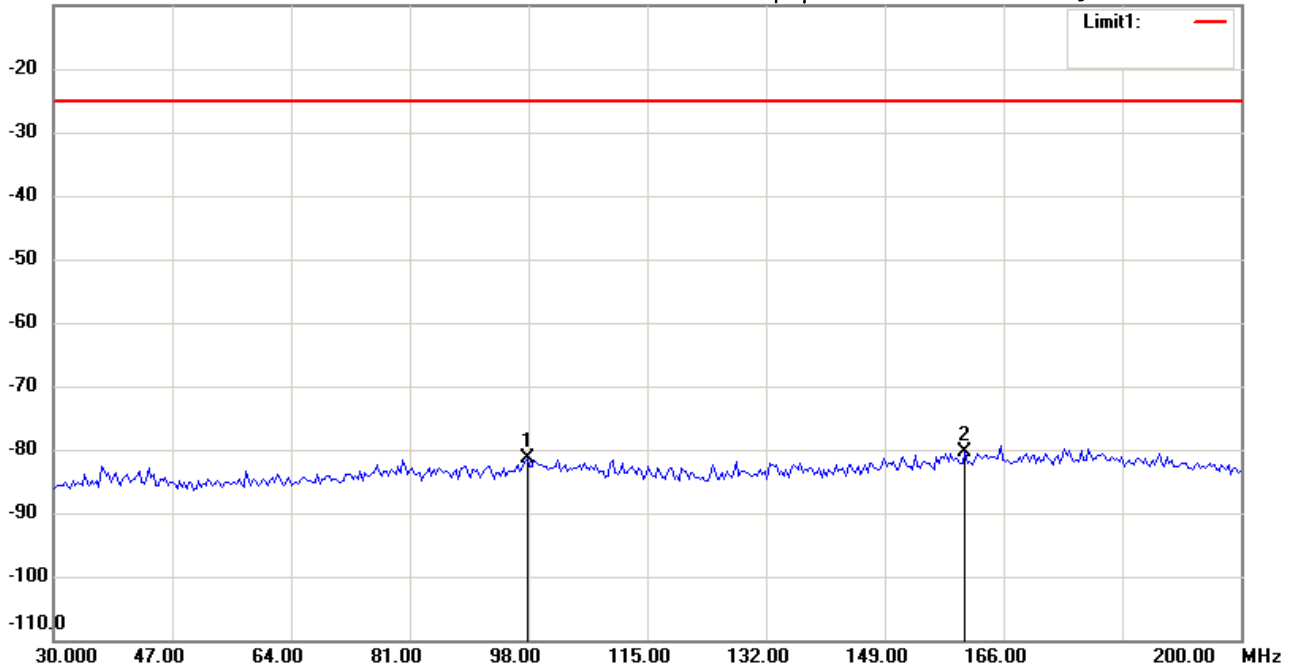
Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 05:52:53

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 544MHz

Note :

Polarization: Vertical

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	97.7956	-103.42	peak	22.16	-81.26	-25.00	150	310	-56.26	
*	160.4810	-103.59	peak	23.10	-80.49	-25.00	150	110	-55.49	

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



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Radiated Emission Measurement

Operator: Rick

File :2

Data :#1

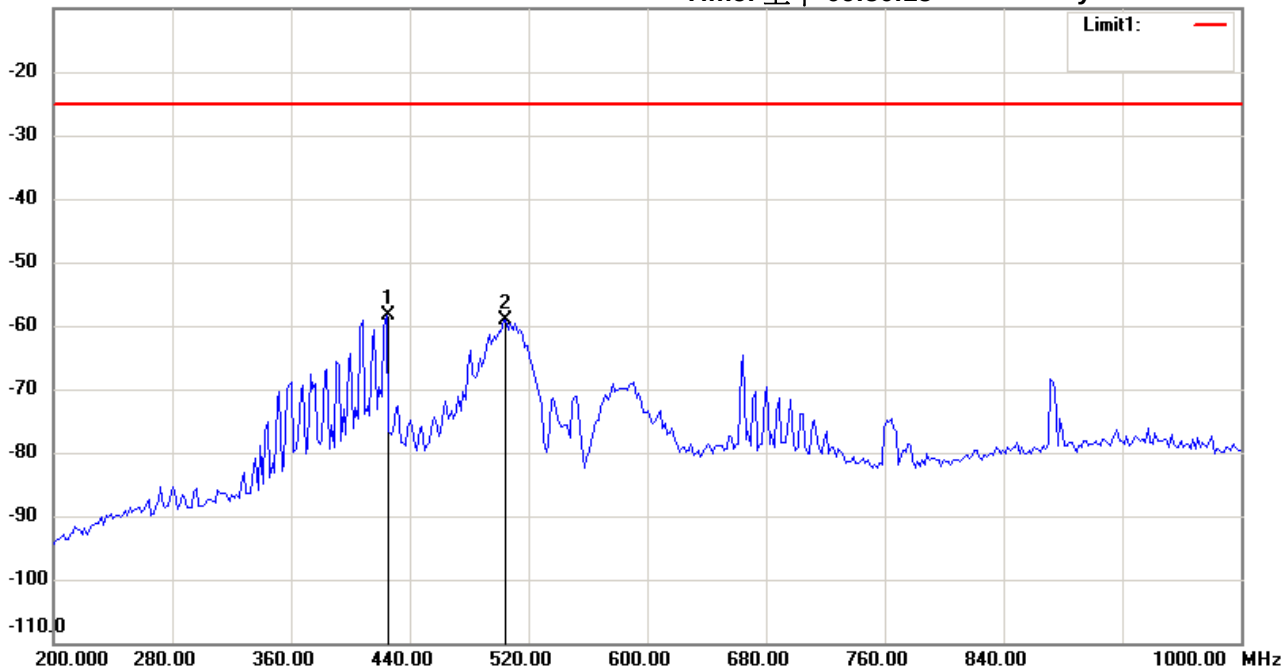
Date: 2015/3/24

Temperature:24 °C

-10.0 dBm

Time: 上午 09:50:15

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 544MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	424.4490	-49.66	peak	-8.83	-58.49	-25.00	150	130	-33.49	
	504.6092	-50.08	peak	-8.93	-59.01	-25.00	150	270	-34.01	

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



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Radiated Emission Measurement

Operator: Rick

File :2

Data :#2

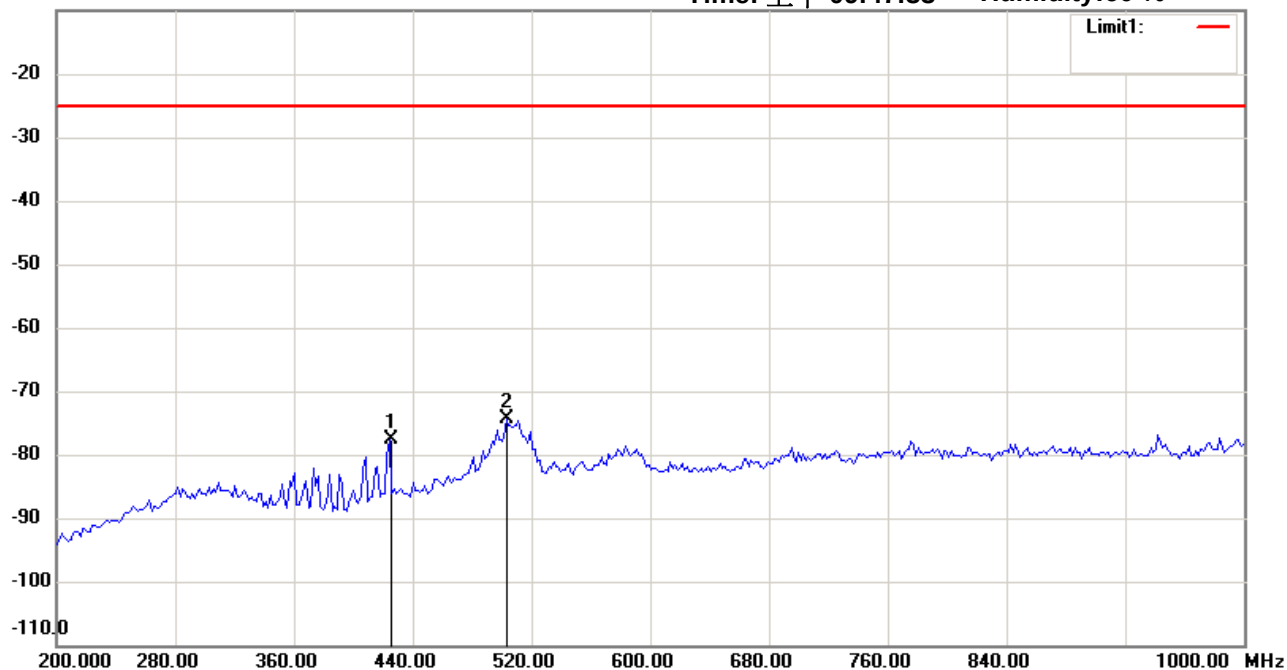
Date: 2015/3/24

Temperature:24 °C

-10.0 dBm

Time: 上午 09:47:33

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 544MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	424.4490	-66.58	peak	-10.92	-77.50	-25.00	150	250	-52.50	
*	503.0060	-67.25	peak	-7.21	-74.46	-25.00	150	70	-49.46	

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



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

Radiated Emission Measurement

Operator: Rick

File :3

Data :#1

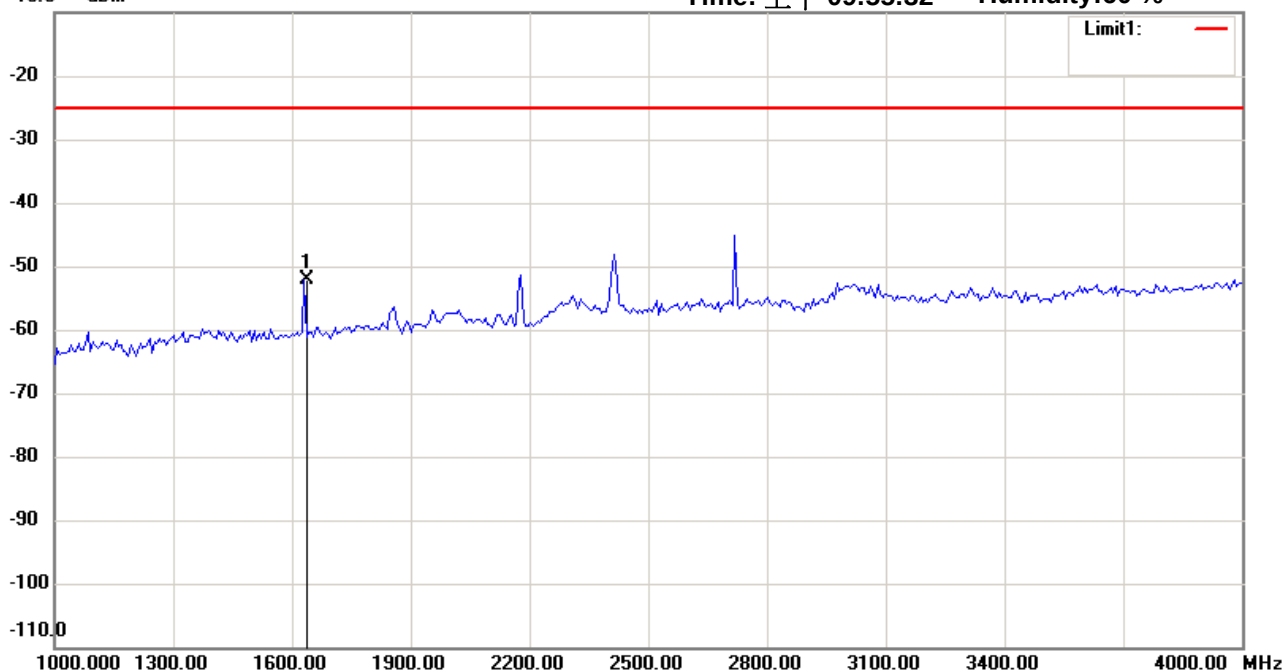
Date: 2015/3/24

Temperature:24 °C

-10.0 dBm

Time: 上午 09:55:32

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 544MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1631.263	-52.94	peak	0.79	-52.15	-25.00	150	250	-27.15	

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



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#3

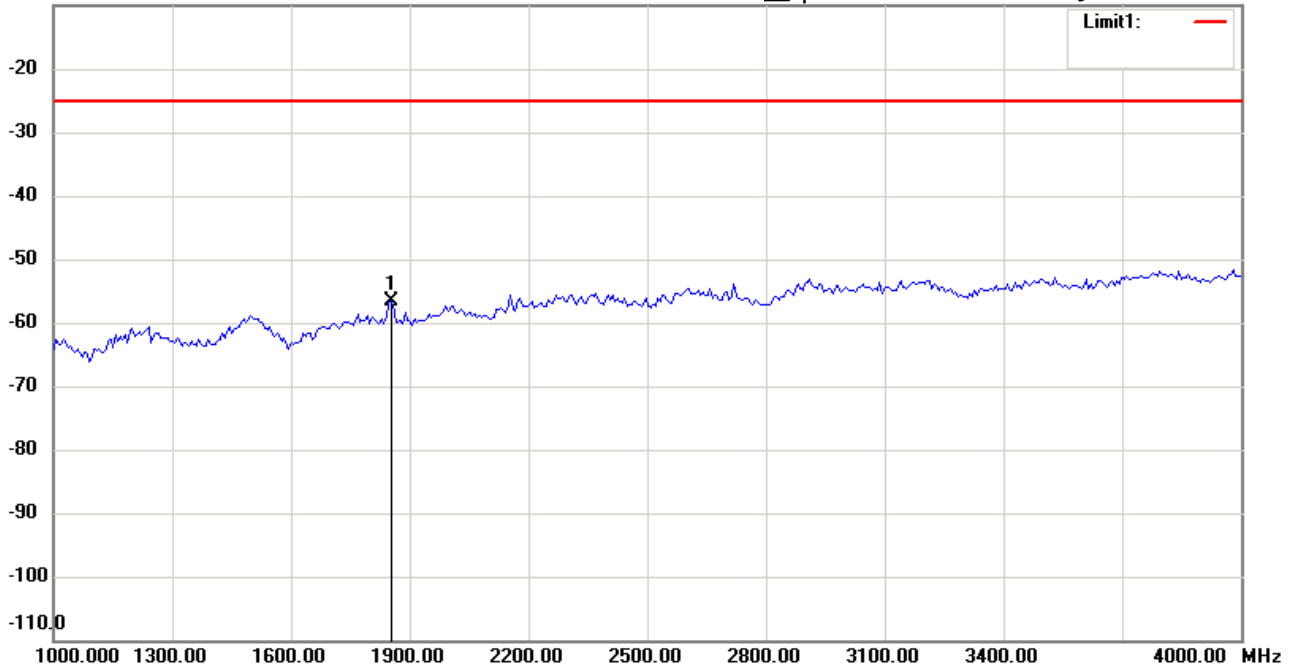
Date: 2015/3/24

Temperature:24 °C

-10.0 dBm

Time: 上午 10:00:04

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

Polarization: **Vertical**

EUT : W6M21405-14185

Power : 3.7Vdc

M/N:

Distance: 3m

Test Mode : Tx 544MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1853.707	-57.64	peak	1.14	-56.50	-25.00	150	250	-31.50	

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



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#2

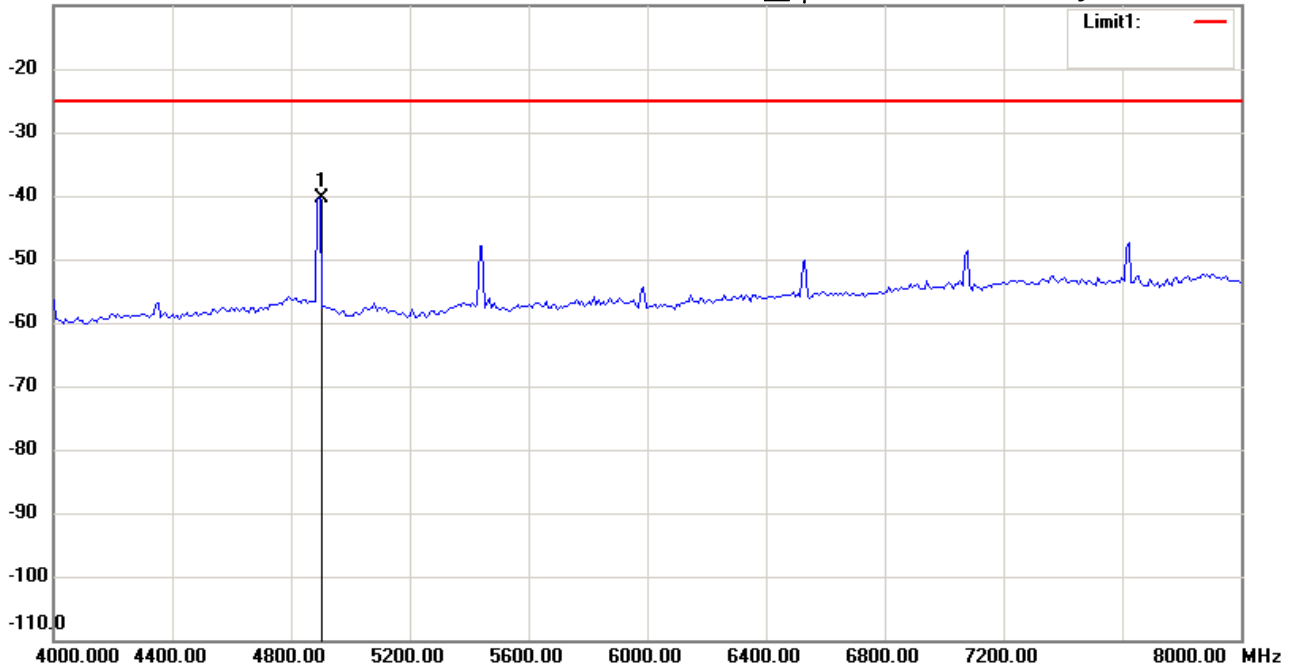
Date: 2015/3/24

Temperature:24 °C

-10.0 dBm

Time: 上午 09:57:36

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 544MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	4897.796	-49.45	peak	9.02	-40.43	-25.00	150	250	-15.43	

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



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#4

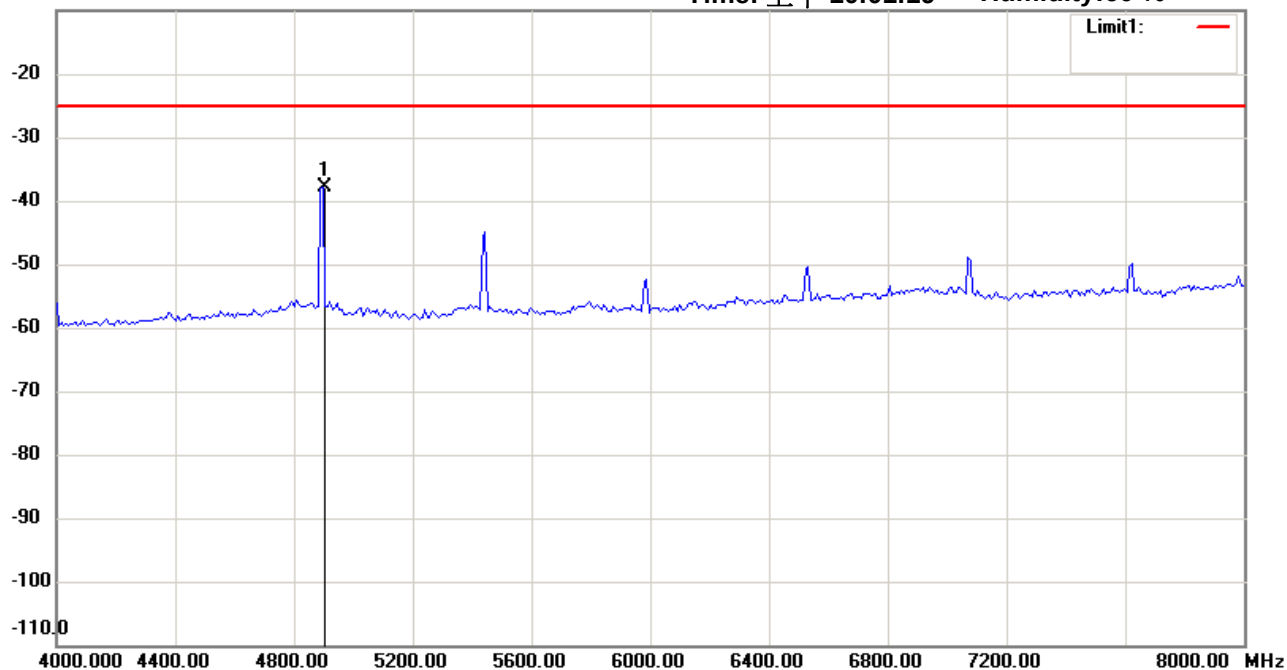
Date: 2015/3/24

Temperature:24 °C

-10.0 dBm

Time: 上午 10:01:19

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 544MHz

Note :

Polarization: Vertical

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	4897.796	-47.50	peak	9.75	-37.75	-25.00	150	60	-12.75	

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



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Radiated Emission Measurement

Operator: Rick

File :1

Data :#1

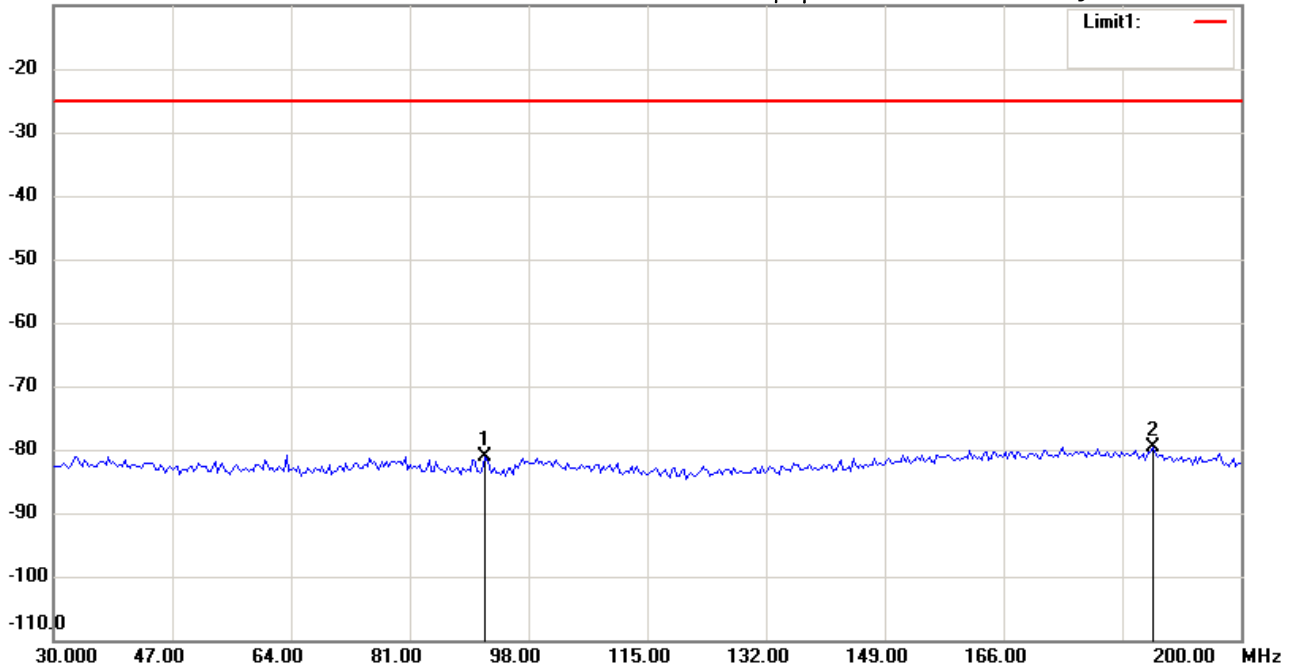
Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 05:50:18

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

Polarization: *Horizontal*

EUT : W6M21405-14185

Power : 3.7Vdc

M/N:

Distance: 3m

Test Mode : Tx 607.9MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	91.6633	-101.81	peak	20.81	-81.00	-25.00	150	220	-56.00	
*	187.3948	-101.81	peak	22.17	-79.64	-25.00	150	130	-54.64	

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



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Radiated Emission Measurement

Operator: Rick

File :1

Data :#2

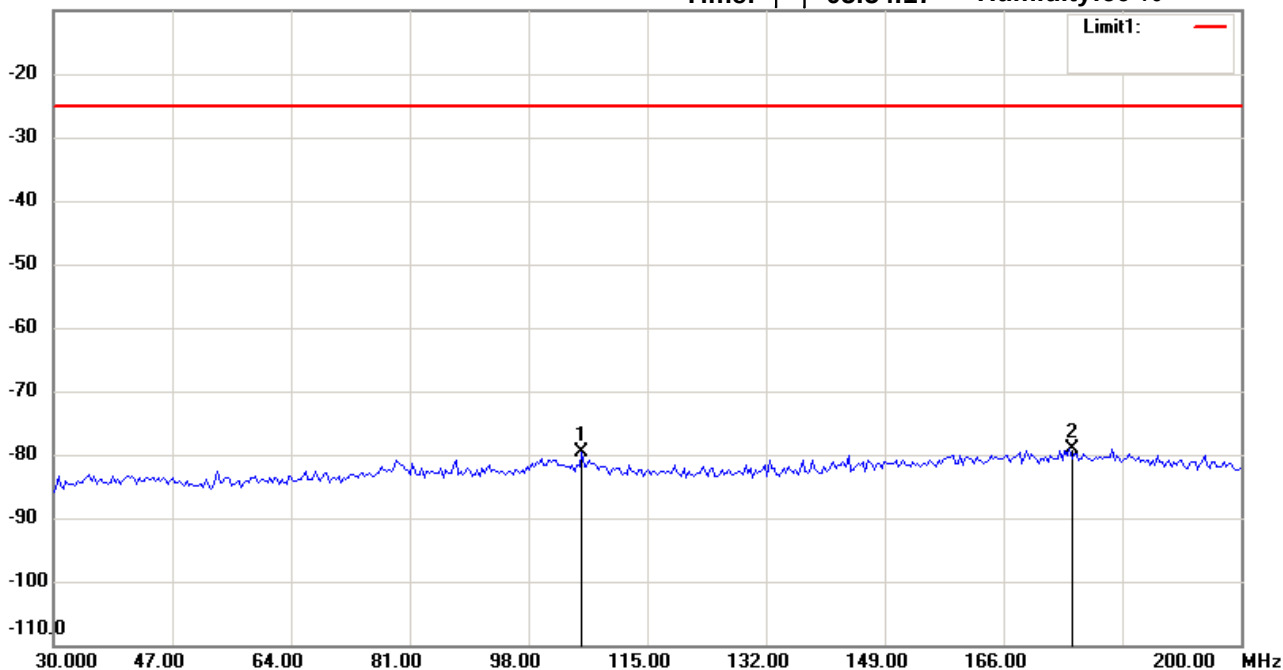
Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 05:54:17

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 607.9MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	105.6313	-101.79	peak	22.06	-79.73	-25.00	150	210	-54.73	
*	175.4710	-102.45	peak	23.22	-79.23	-25.00	150	70	-54.23	

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



Radiated Emission Measurement

Operator: Rick

File :2

Data :#1

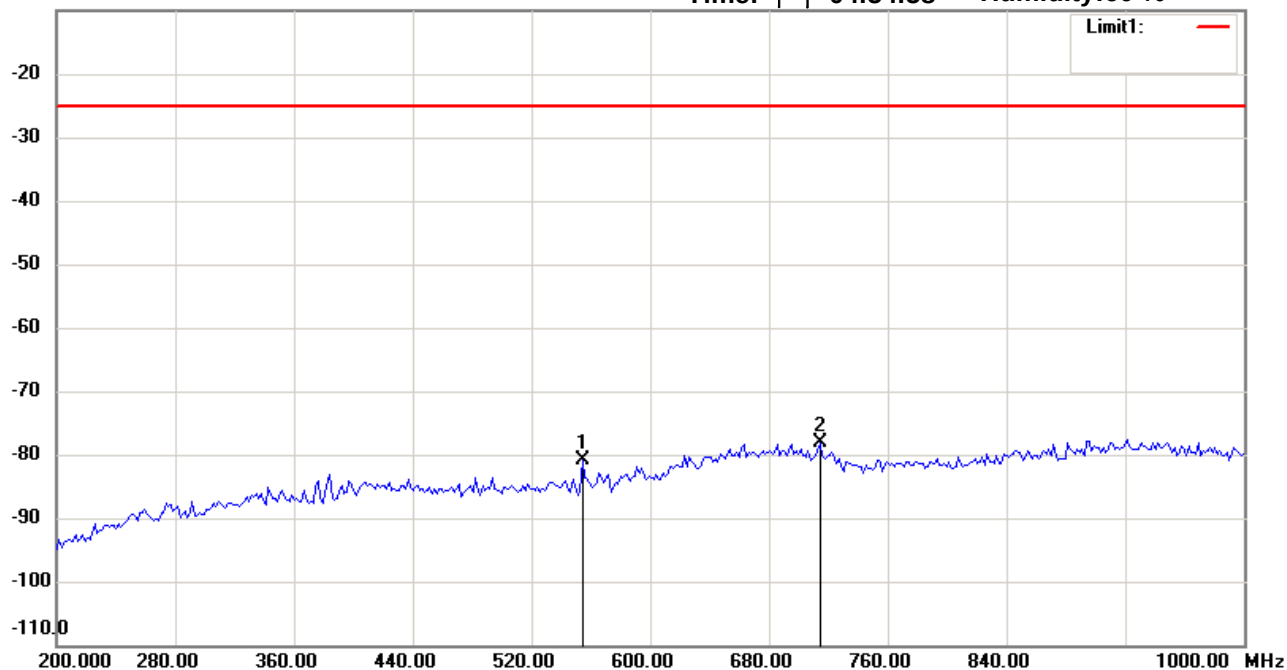
Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 04:54:58

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 607.9MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	554.3086	-72.17	peak	-8.74	-80.91	-25.00	150	250	-55.91	
*	714.6293	-75.19	peak	-3.04	-78.23	-25.00	150	100	-53.23	



Radiated Emission Measurement

Operator: Rick

File :2

Data :#2

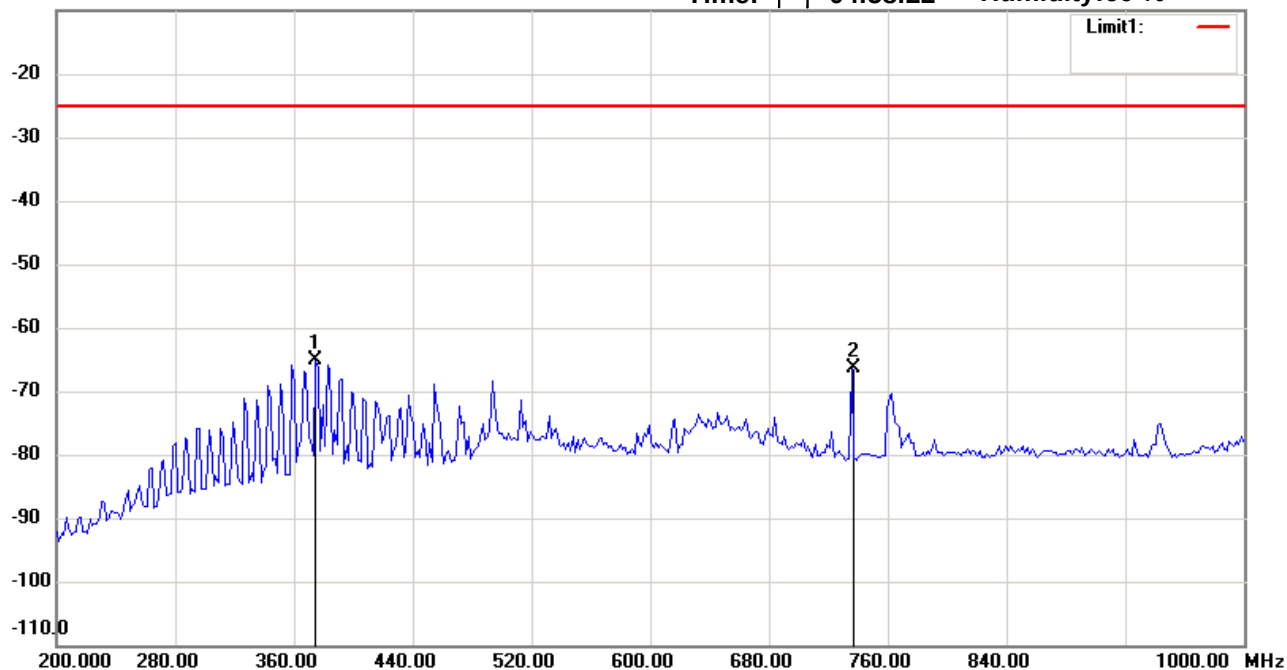
Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 04:58:22

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 607.9MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	374.7495	-52.13	peak	-12.92	-65.05	-25.00	150	300	-40.05	
	735.4710	-62.83	peak	-3.57	-66.40	-25.00	150	120	-41.40	



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#1

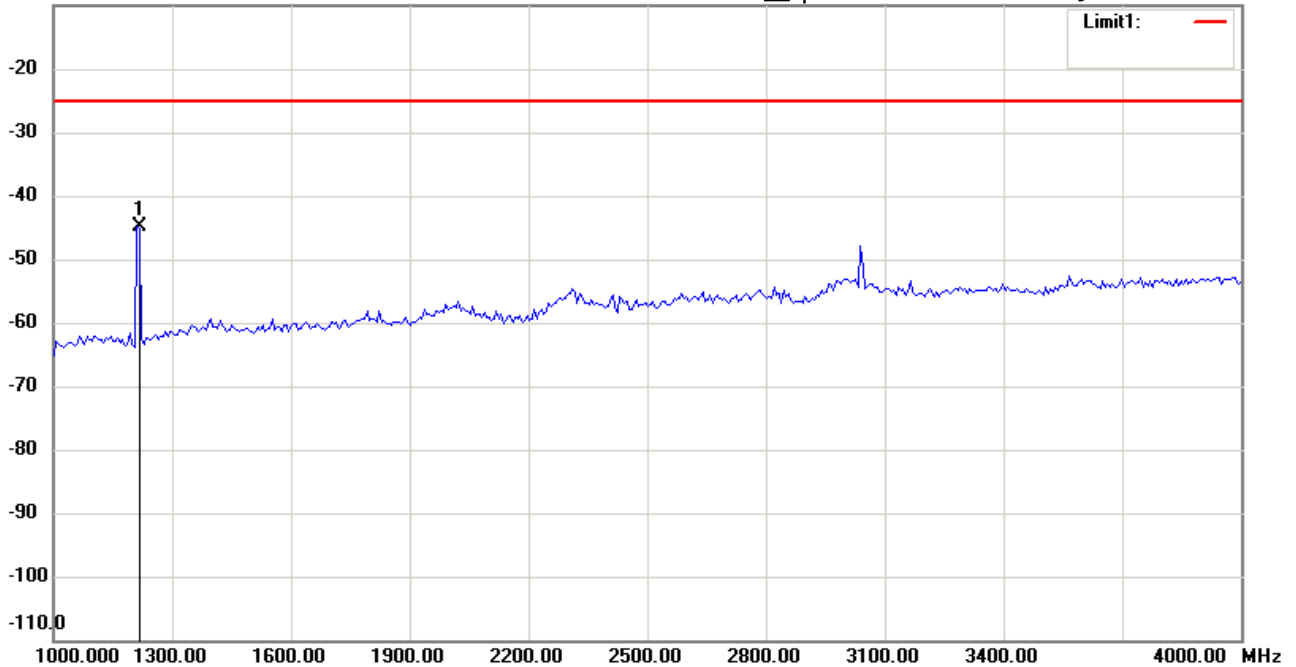
Date: 2015/3/13

Temperature:24 °C

-10.0 dBm

Time: 上午 11:07:53

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 607.9MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1210.421	-43.77	peak	-1.06	-44.83	-25.00	150	100	-19.83	

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



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#3

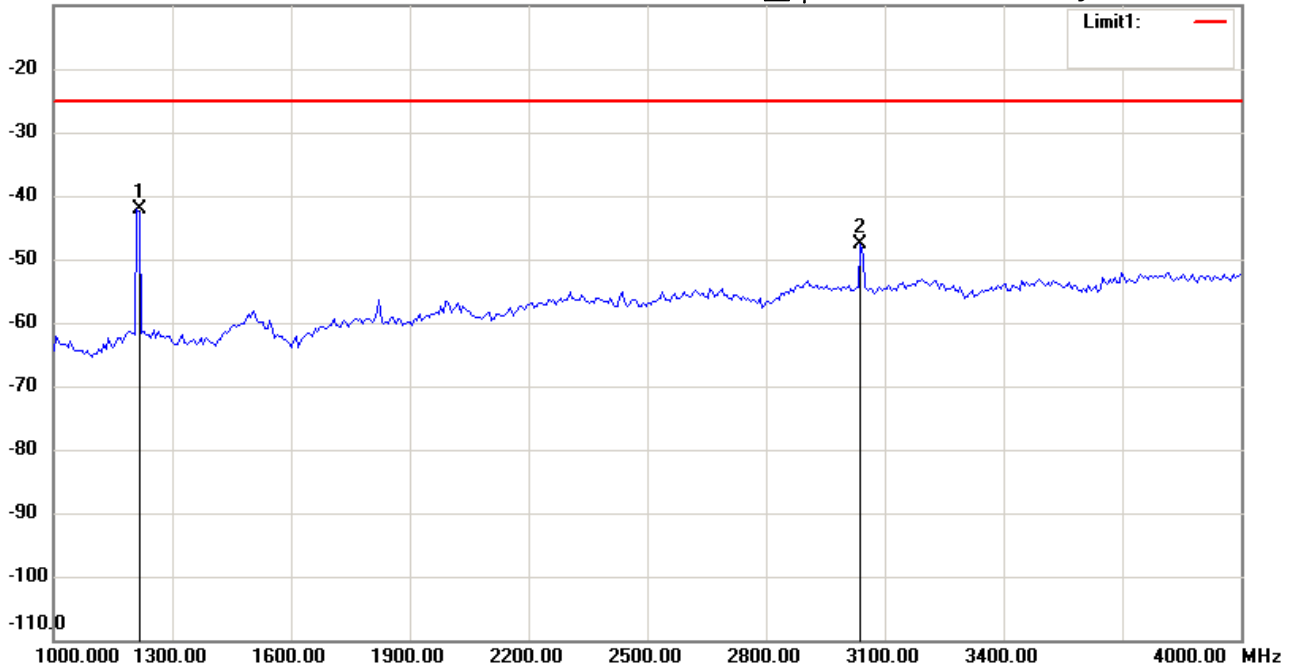
Date: 2015/3/13

Temperature:24 °C

-10.0 dBm

Time: 上午 11:12:08

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 607.9MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1210.421	-42.47	peak	0.32	-42.15	-25.00	150	100	-17.15	
	3038.076	-54.66	peak	7.02	-47.64	-25.00	150	250	-22.64	

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



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#2

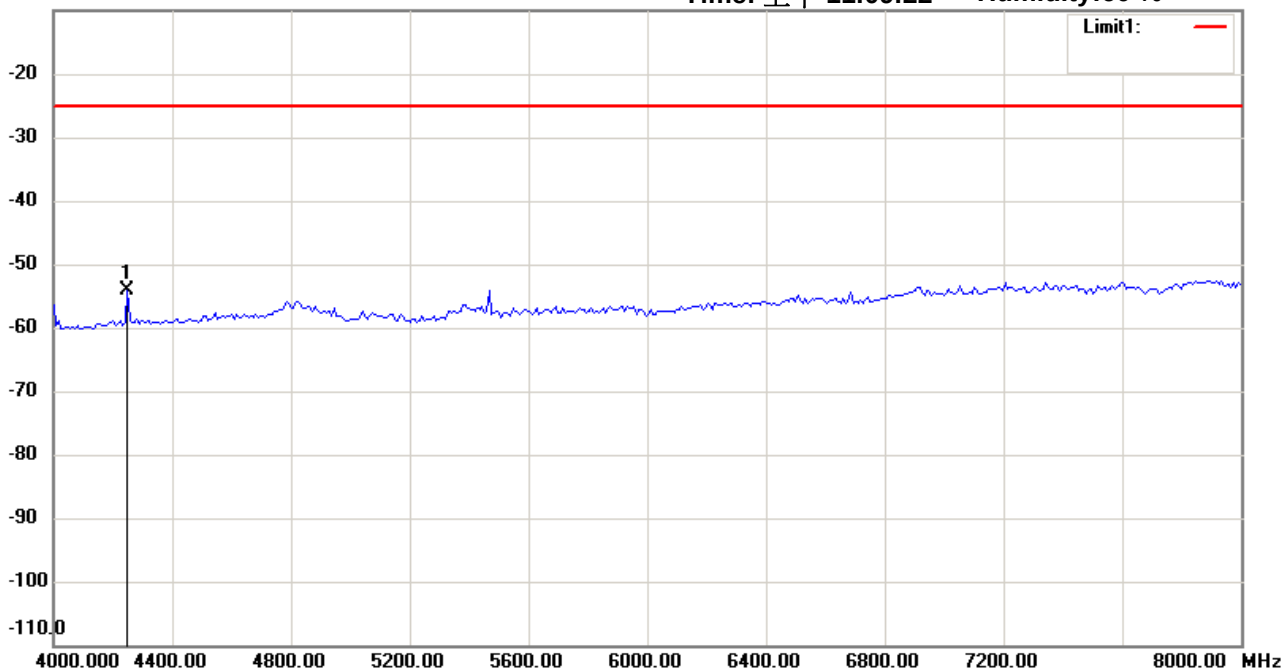
Date: 2015/3/13

Temperature:24 °C

-10.0 dBm

Time: 上午 11:09:22

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 607.9MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	4248.497	-61.13	peak	7.12	-54.01	-25.00	150	250	-29.01	

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



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

Operator: Rick

File :3

Data :#4

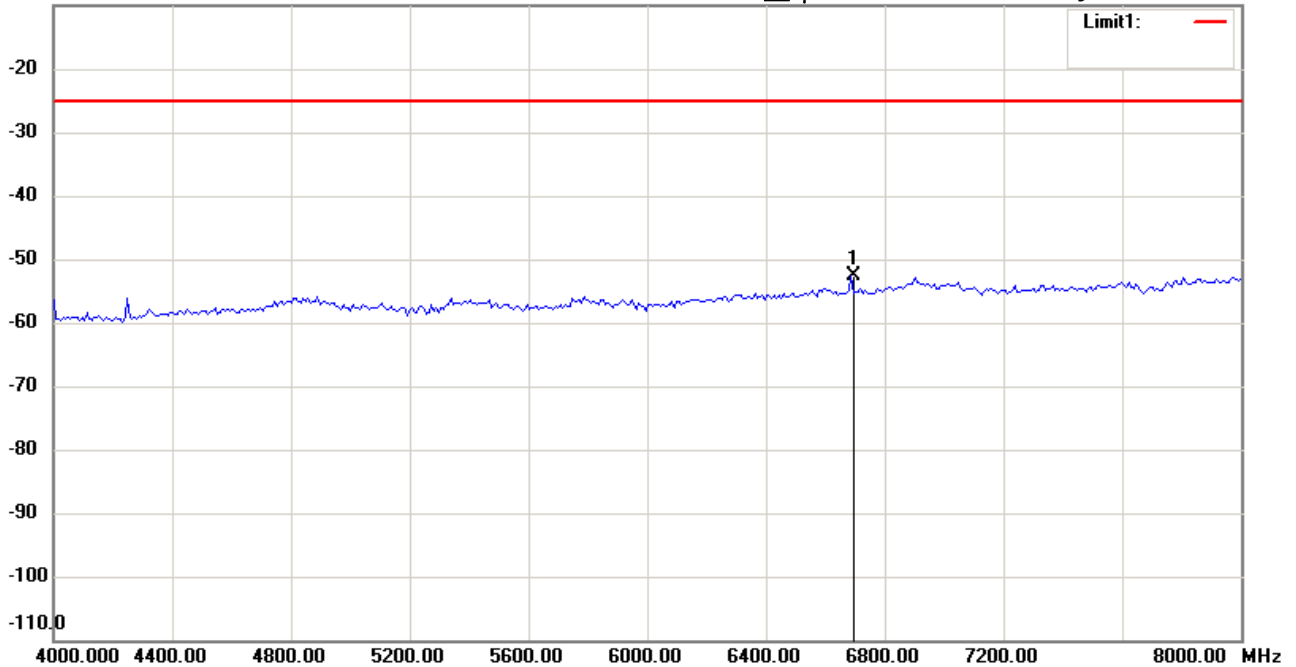
Date: 2015/3/13

Temperature:24 °C

-10.0 dBm

Time: 上午 11:14:33

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 607.9MHz

Note :

Polarization: Vertical

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	6685.371	-64.02	peak	11.48	-52.54	-25.00	150	200	-27.54	

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



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Radiated Emission Measurement

Operator: Rick

File :1

Data :#1

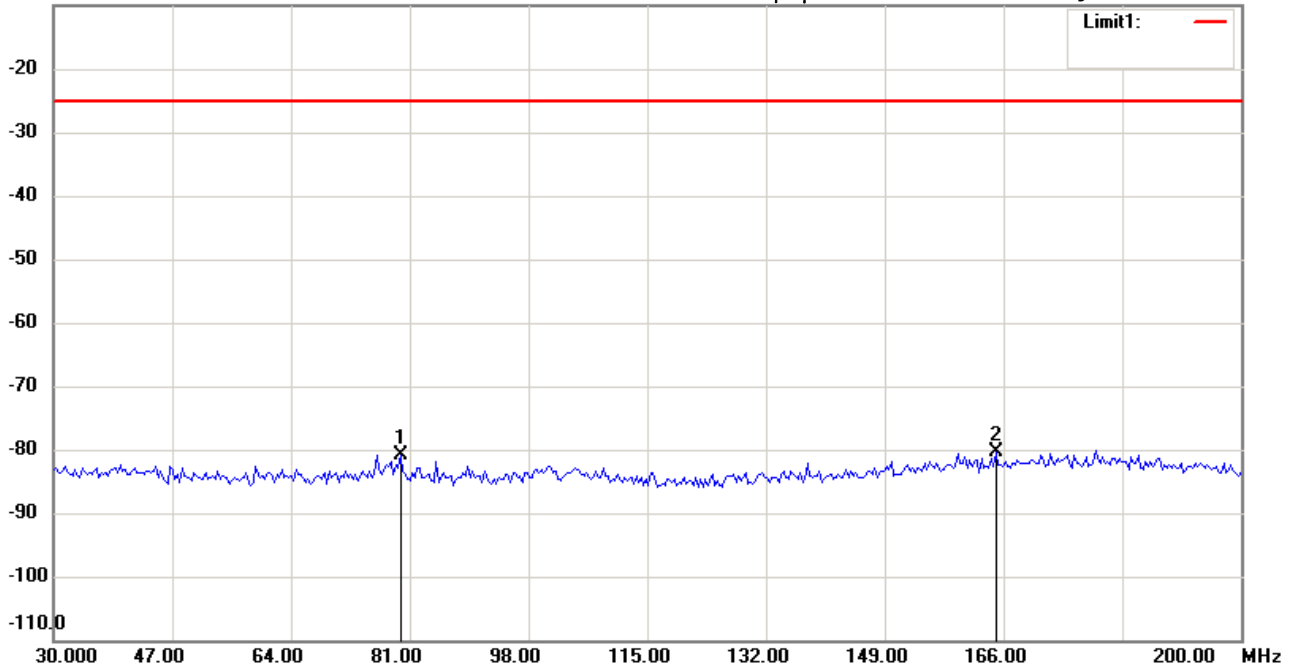
Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 05:48:14

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 614.1MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	79.7395	-103.00	peak	22.06	-80.94	-25.00	150	220	-55.94	
*	164.9098	-102.94	peak	22.55	-80.39	-25.00	150	170	-55.39	

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



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

Operator: Rick

File :1

Data :#2

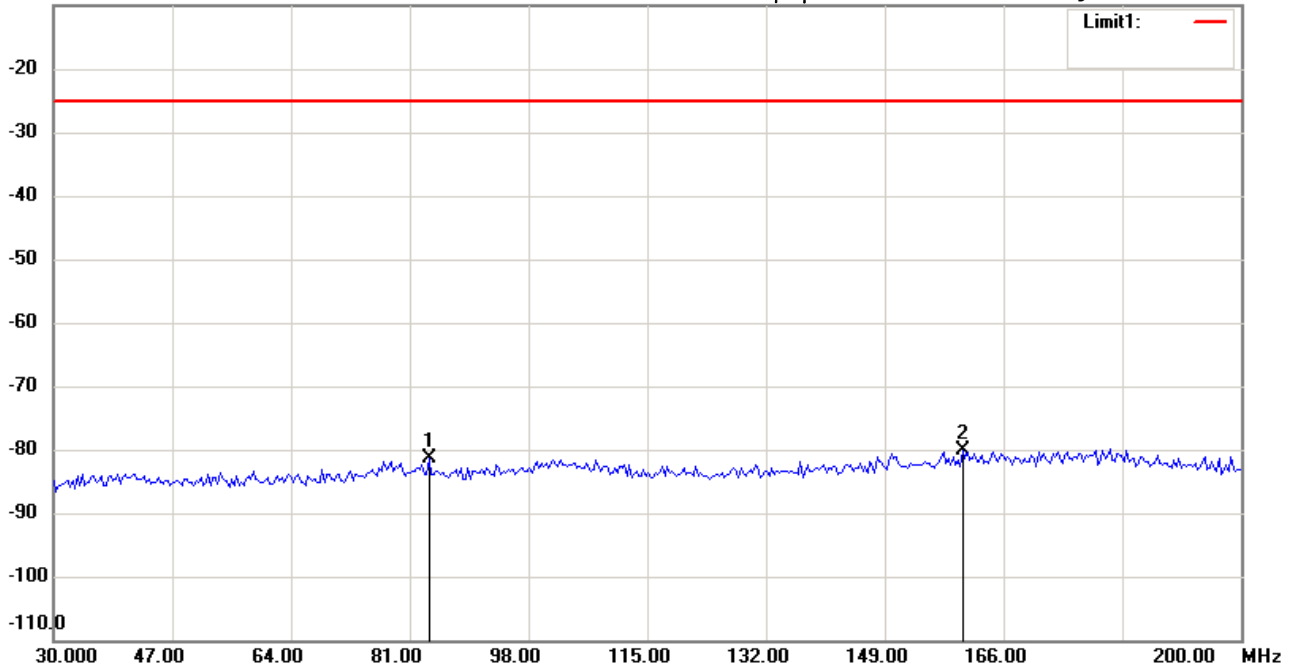
Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 05:55:31

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 614.1MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	83.8277	-103.16	peak	21.78	-81.38	-25.00	150	110	-56.38	
*	160.1402	-103.11	peak	23.10	-80.01	-25.00	150	320	-55.01	

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



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Radiated Emission Measurement

Operator: Rick

File :2

Data :#1

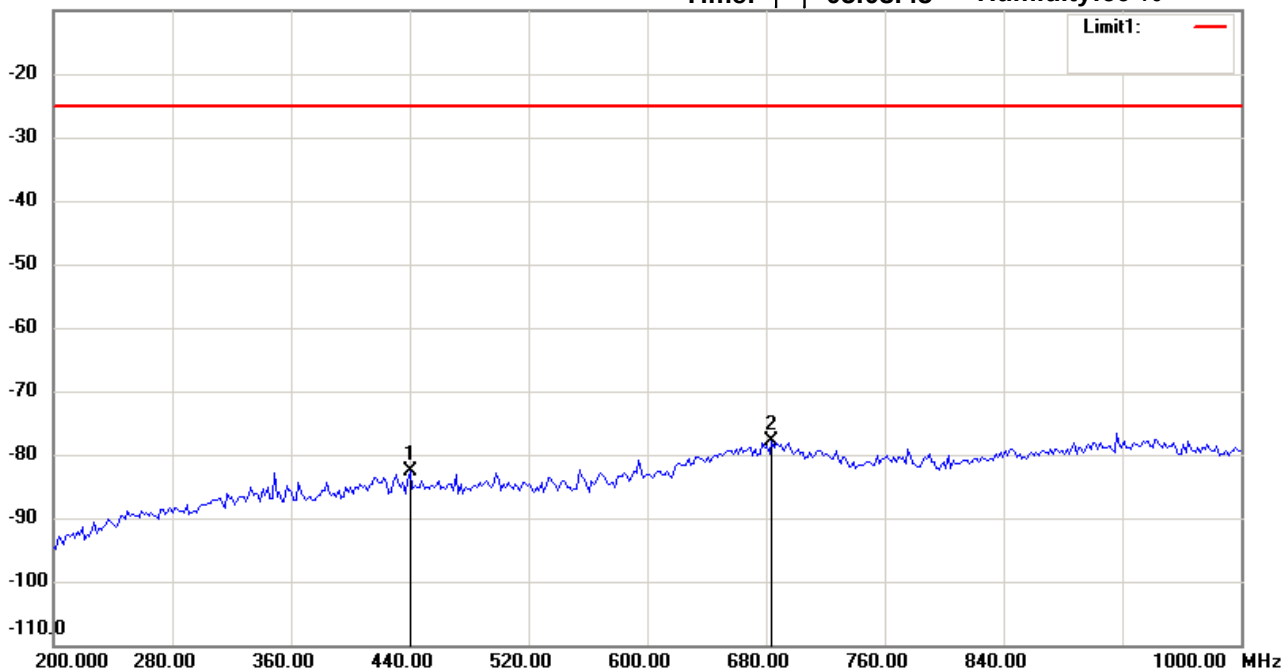
Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 05:03:45

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 614.1MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	440.4810	-72.92	peak	-9.63	-82.55	-25.00	150	250	-57.55	
*	684.1683	-75.40	peak	-2.39	-77.79	-25.00	150	100	-52.79	

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



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Radiated Emission Measurement

Operator: Rick

File :2

Data :#2

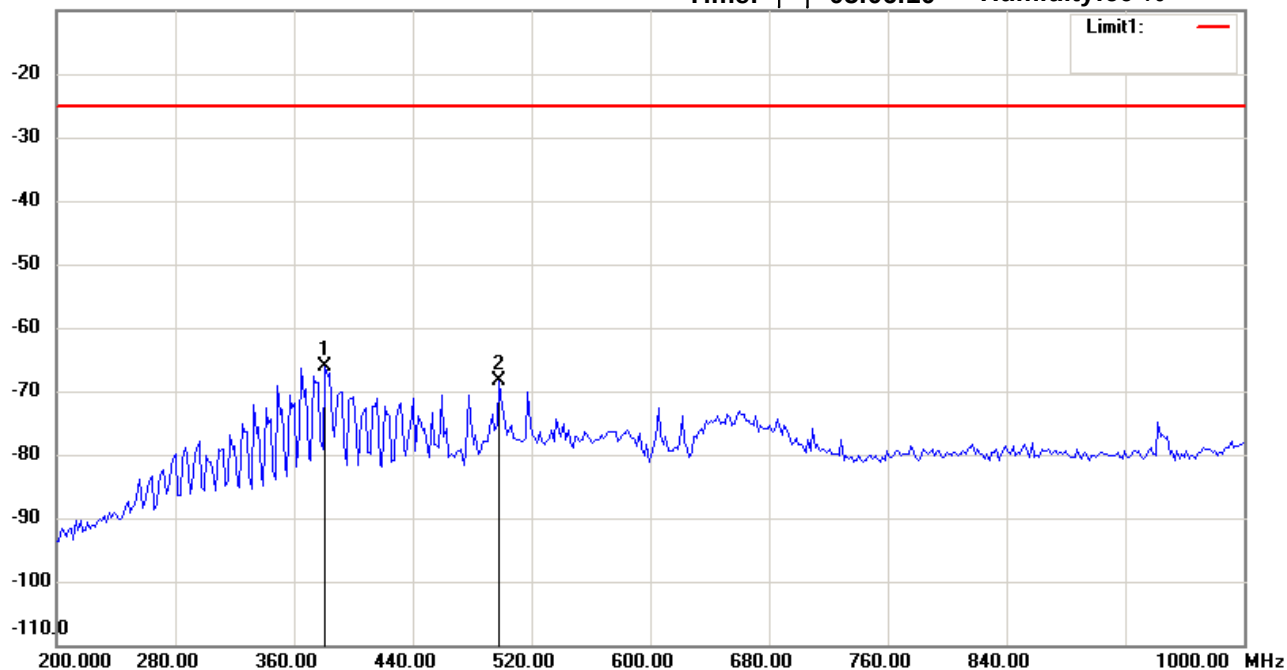
Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 05:06:10

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 614.1MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	381.1623	-53.05	peak	-13.08	-66.13	-25.00	150	170	-41.13	
	498.1964	-60.84	peak	-7.43	-68.27	-25.00	150	250	-43.27	

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



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#1

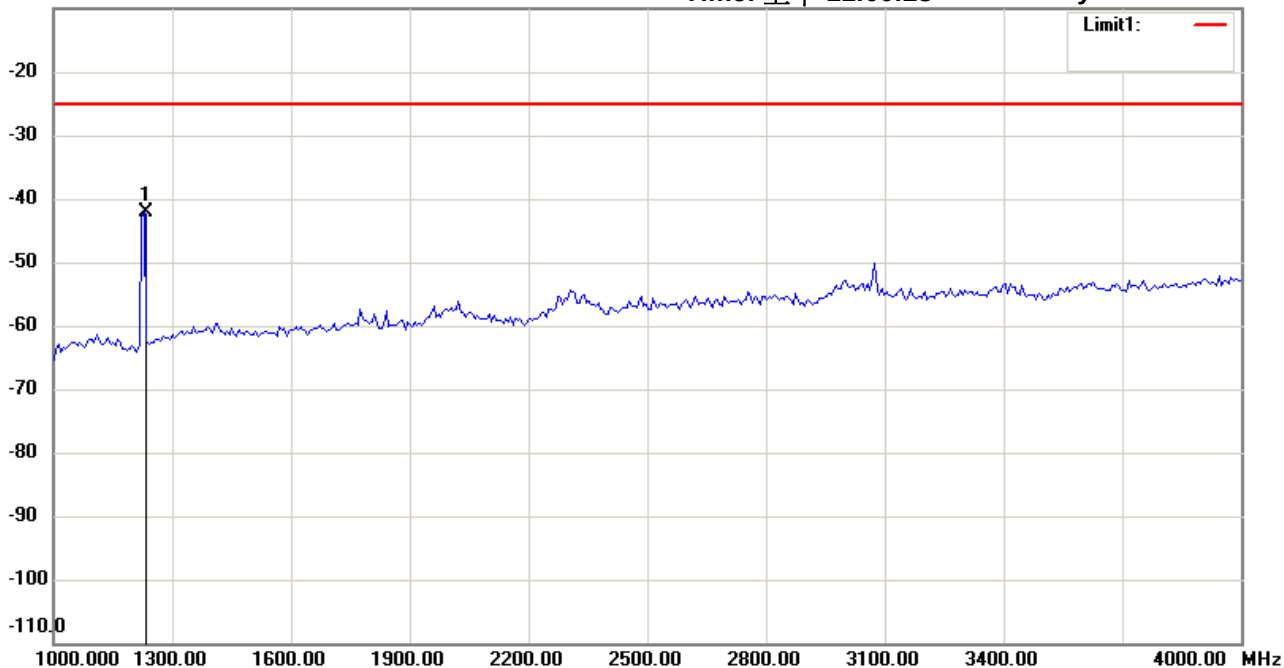
Date: 2015/3/13

Temperature:24 °C

-10.0 dBm

Time: 上午 11:00:28

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 614.1MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1228.457	-41.24	peak	-0.80	-42.04	-25.00	150	220	-17.04	

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



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#3

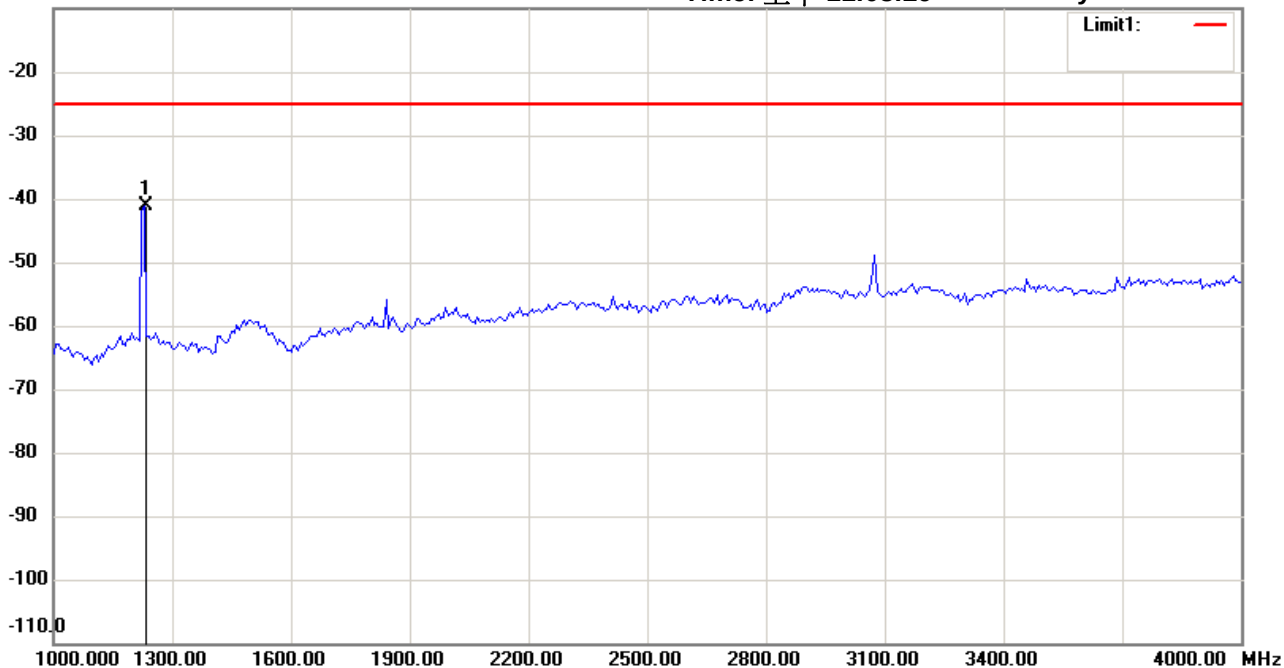
Date: 2015/3/13

Temperature:24 °C

-10.0 dBm

Time: 上午 11:03:29

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 614.1MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1228.457	-41.09	peak	0.01	-41.08	-25.00	150	190	-16.08	

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



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#2

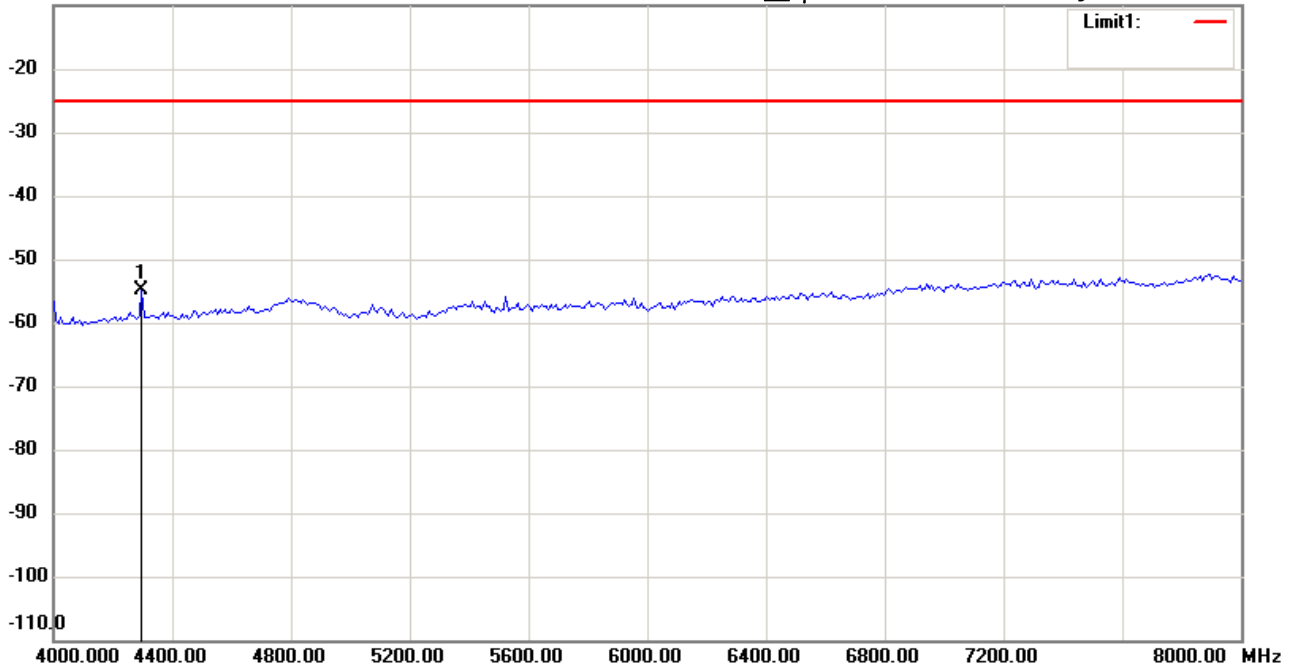
Date: 2015/3/13

Temperature:24 °C

-10.0 dBm

Time: 上午 11:01:41

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

Polarization: *Horizontal*

EUT : W6M21405-14185

Power : 3.7Vdc

M/N:

Distance: 3m

Test Mode : Tx 614.1MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	4296.593	-62.39	peak	7.42	-54.97	-25.00	150	200	-29.97	

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



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#4

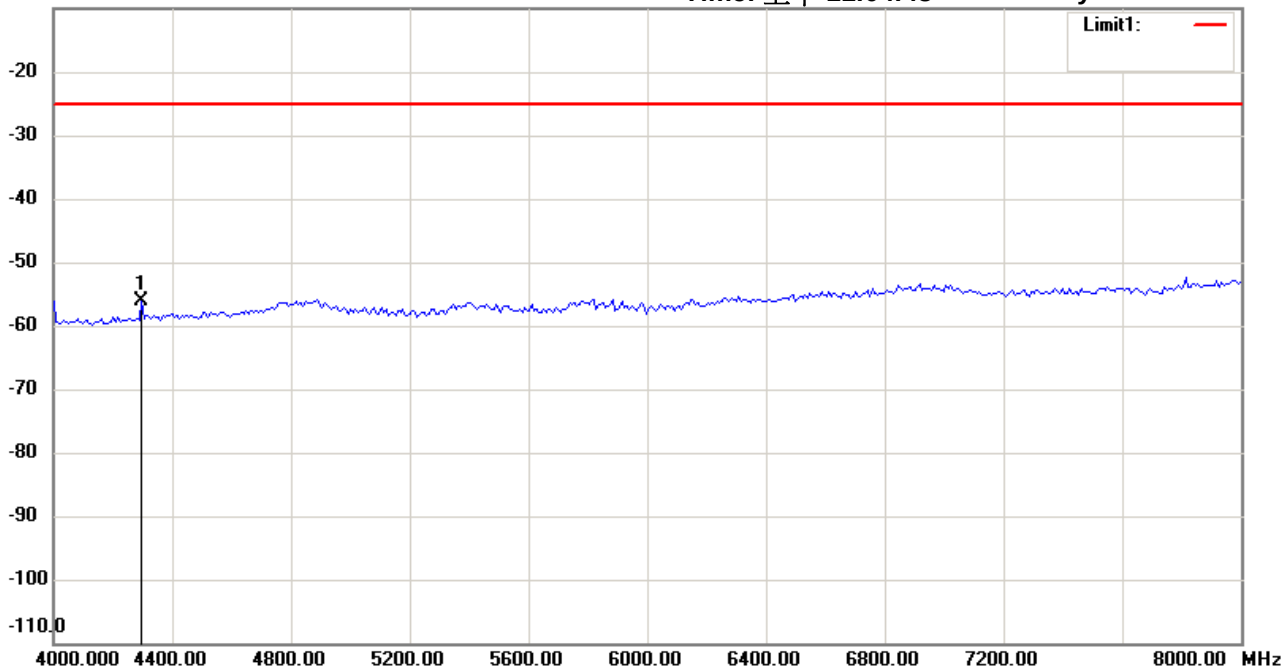
Date: 2015/3/13

Temperature:24 °C

-10.0 dBm

Time: 上午 11:04:43

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

Polarization: **Vertical**

EUT : W6M21405-14185

Power : 3.7Vdc

M/N:

Distance: 3m

Test Mode : Tx 614.1MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	4296.593	-63.66	peak	7.57	-56.09	-25.00	150	250	-31.09	

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



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Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Rick

File :1

Data :#1

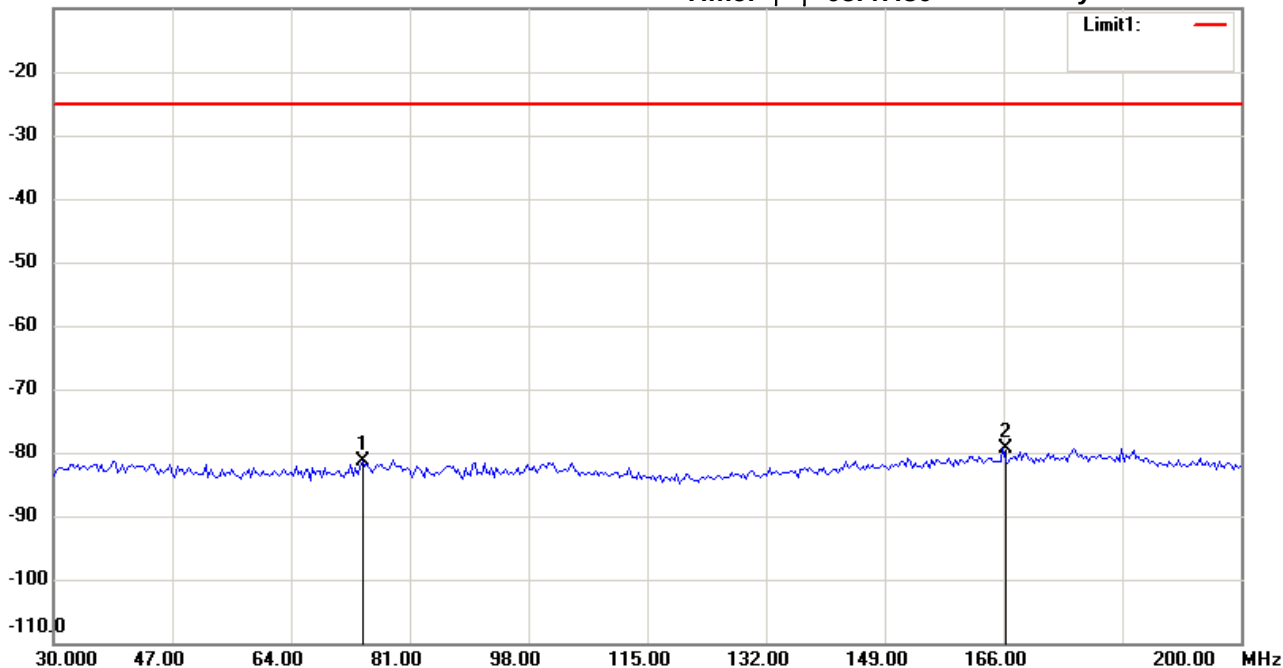
Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 05:47:30

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 656MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	74.2886	-102.71	peak	21.38	-81.33	-25.00	150	220	-56.33	
*	165.9320	-101.86	peak	22.57	-79.29	-25.00	150	120	-54.29	

*: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: Rick

File :1

Data :#2

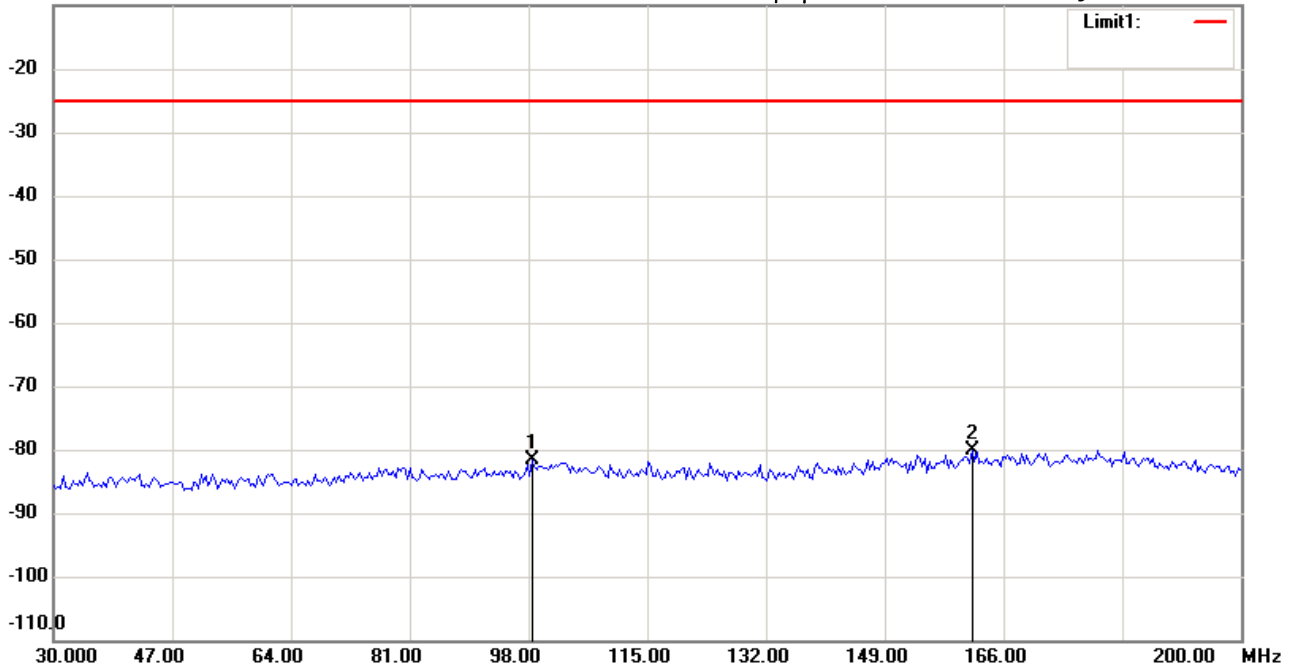
Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 05:56:08

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 656MHz

Note :

Polarization: Vertical

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	98.4770	-103.95	peak	22.23	-81.72	-25.00	150	230	-56.72	
*	161.5030	-103.20	peak	23.11	-80.09	-25.00	150	100	-55.09	

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



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Radiated Emission Measurement

Operator: Rick

File :2

Data :#1

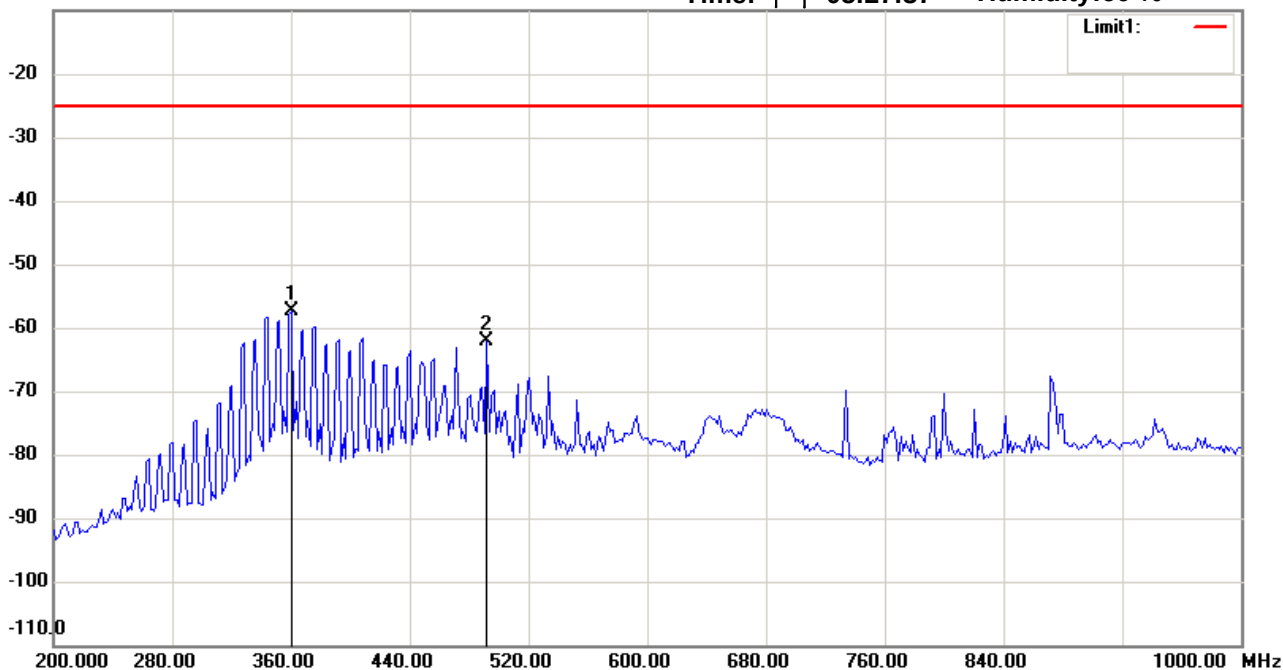
Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 05:27:37

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 656MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	360.3206	-46.92	peak	-10.55	-57.47	-25.00	150	100	-32.47	
	491.7836	-53.10	peak	-9.12	-62.22	-25.00	150	210	-37.22	

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



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Radiated Emission Measurement

Operator: Rick

File :2

Data :#2

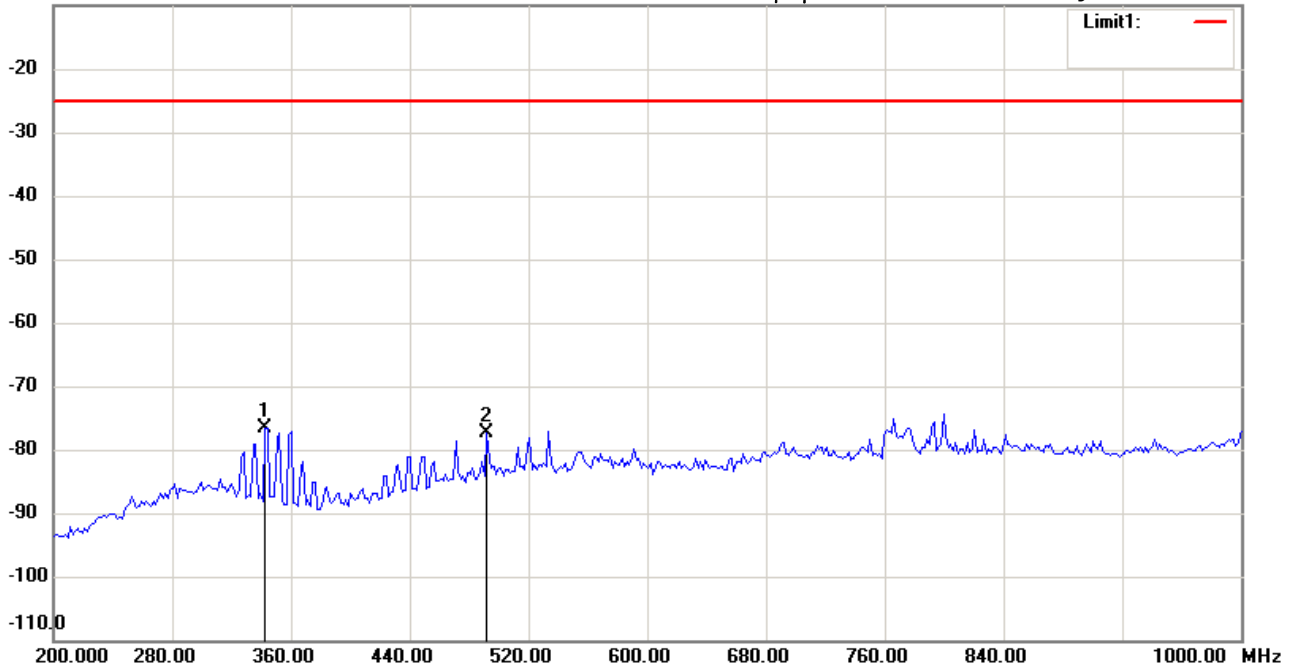
Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 05:24:50

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 656MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	342.6854	-64.65	peak	-12.01	-76.66	-25.00	150	280	-51.66	
	491.7836	-69.47	peak	-7.78	-77.25	-25.00	150	110	-52.25	

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



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#1

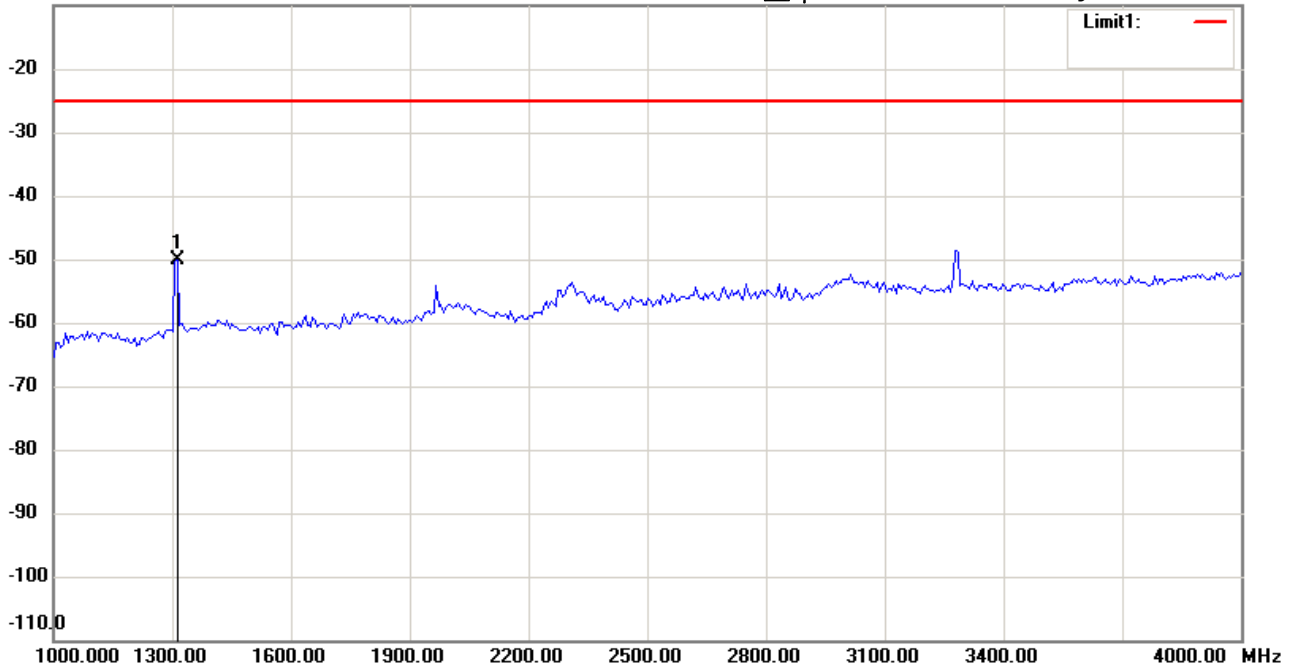
Date: 2015/3/13

Temperature:24 °C

-10.0 dBm

Time: 上午 10:08:59

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 656MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1312.625	-50.54	peak	0.30	-50.24	-25.00	150	100	-25.24	

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



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#3

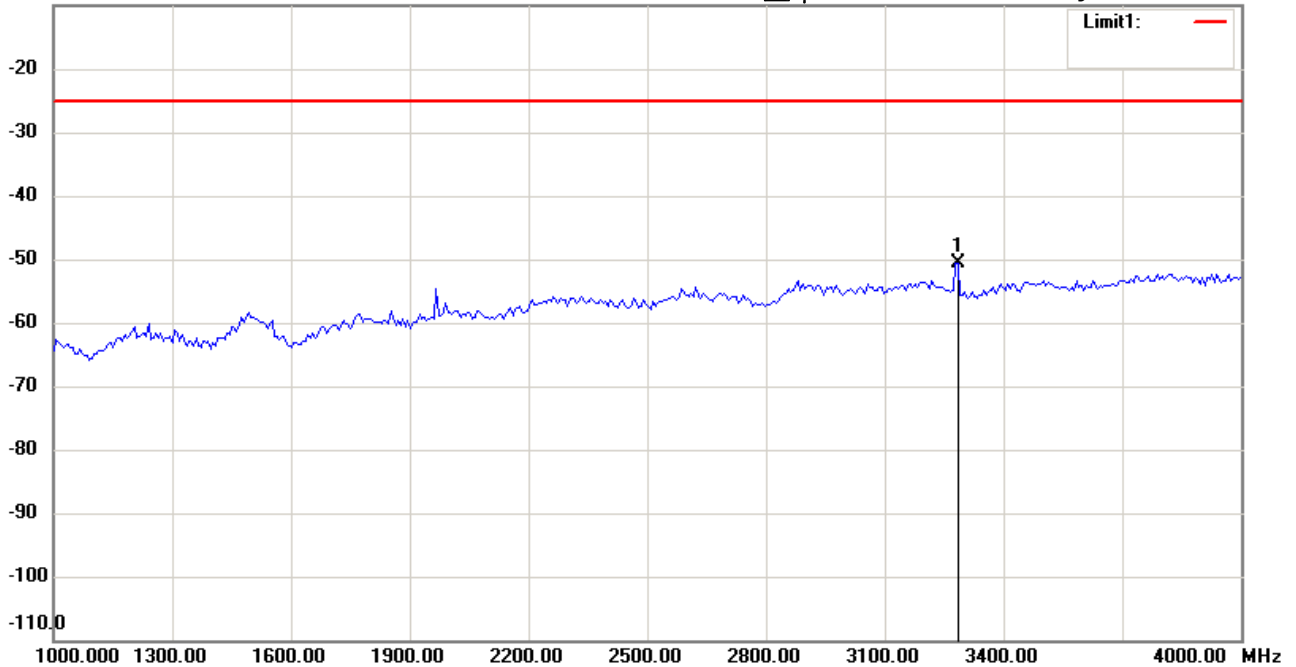
Date: 2015/3/13

Temperature:24 °C

-10.0 dBm

Time: 上午 10:12:42

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 656MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	3284.569	-57.11	peak	6.58	-50.53	-25.00	150	300	-25.53	

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



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Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Rick

File :3

Data :#2

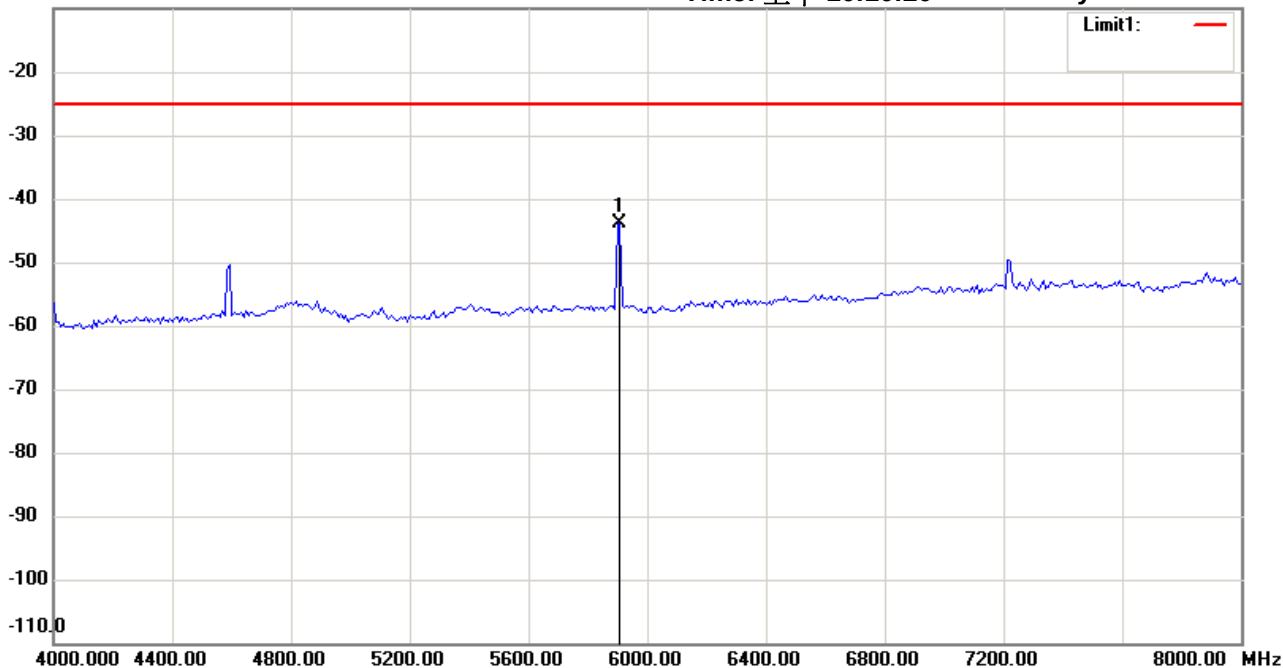
Date: 2015/3/13

Temperature:24 °C

-10.0 dBm

Time: 上午 10:10:20

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 656MHz

Note : y

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	5899.800	-54.88	peak	11.01	-43.87	-25.00	150	200	-18.87	

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



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#4

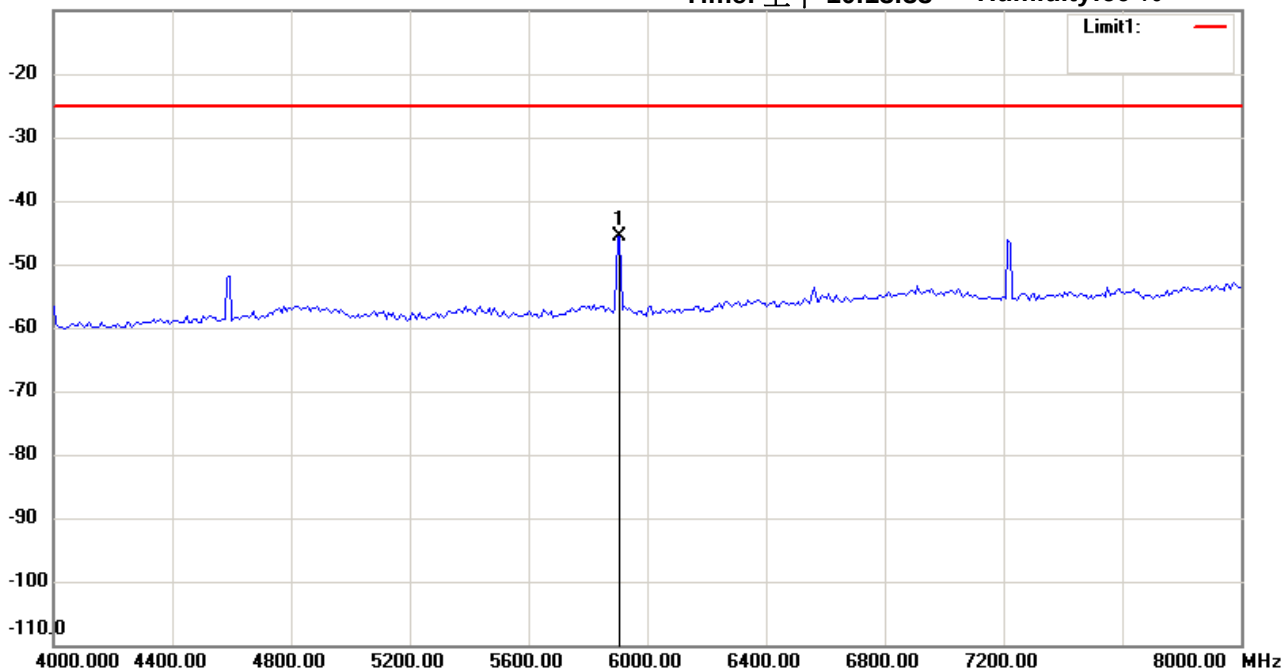
Date: 2015/3/13

Temperature:24 °C

-10.0 dBm

Time: 上午 10:13:33

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 656MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	5899.800	-56.45	peak	10.76	-45.69	-25.00	150	300	-20.69	

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



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Radiated Emission Measurement

Operator: Rick

File :1

Data :#1

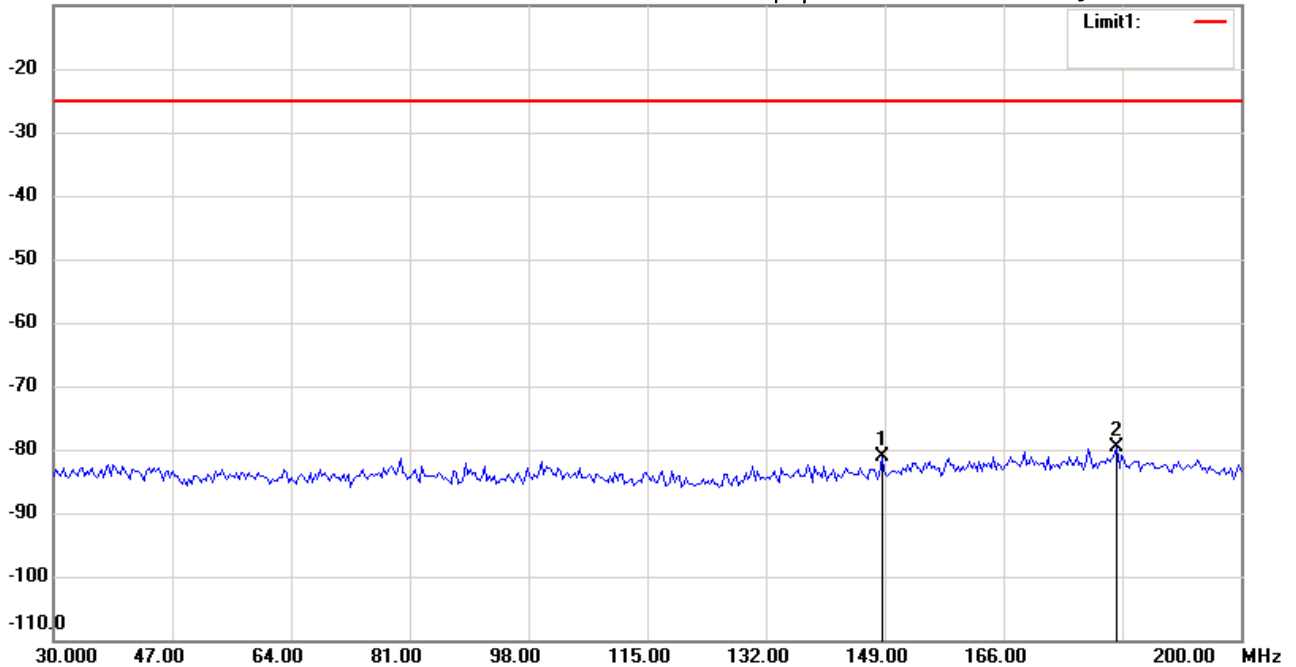
Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 05:45:44

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 697.9MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	148.5571	-102.80	peak	21.65	-81.15	-25.00	150	220	-56.15	
*	182.2846	-102.27	peak	22.66	-79.61	-25.00	150	120	-54.61	

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



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Radiated Emission Measurement

Operator: Rick

File :1

Data :#2

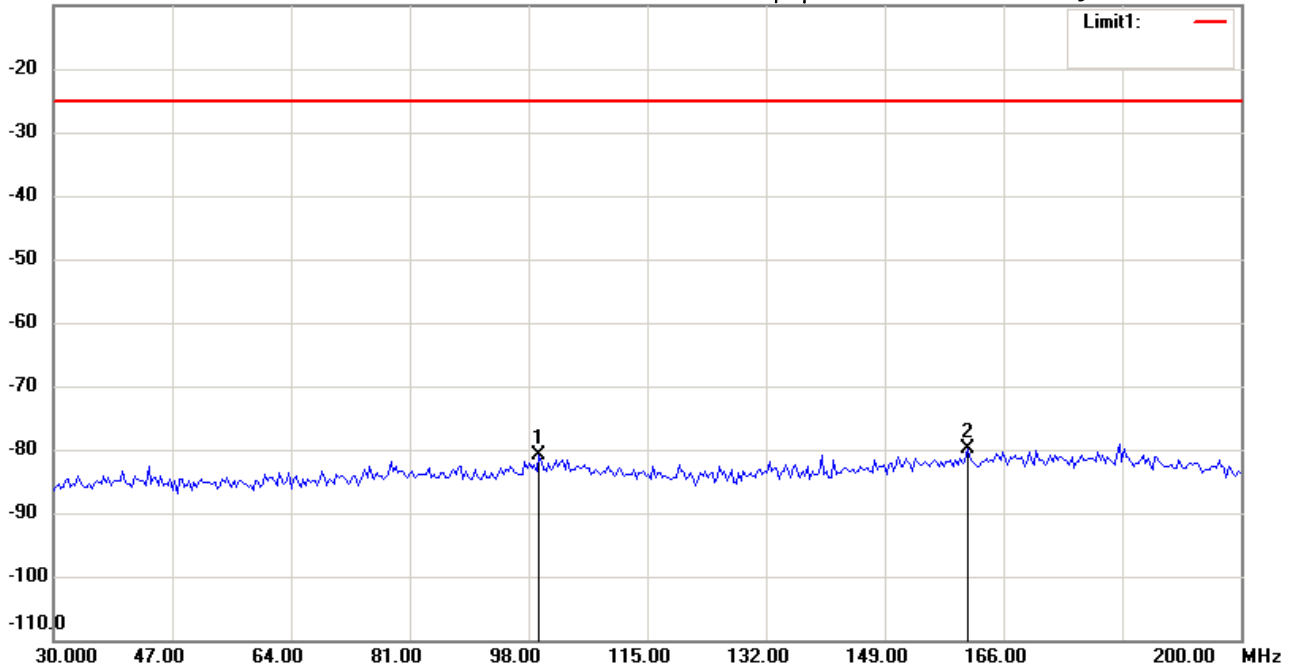
Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 05:56:41

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 697.9MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	99.4990	-103.29	peak	22.34	-80.95	-25.00	150	170	-55.95	
*	160.8216	-102.96	peak	23.11	-79.85	-25.00	150	230	-54.85	

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



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Radiated Emission Measurement

Operator: Rick

File :2

Data :#1

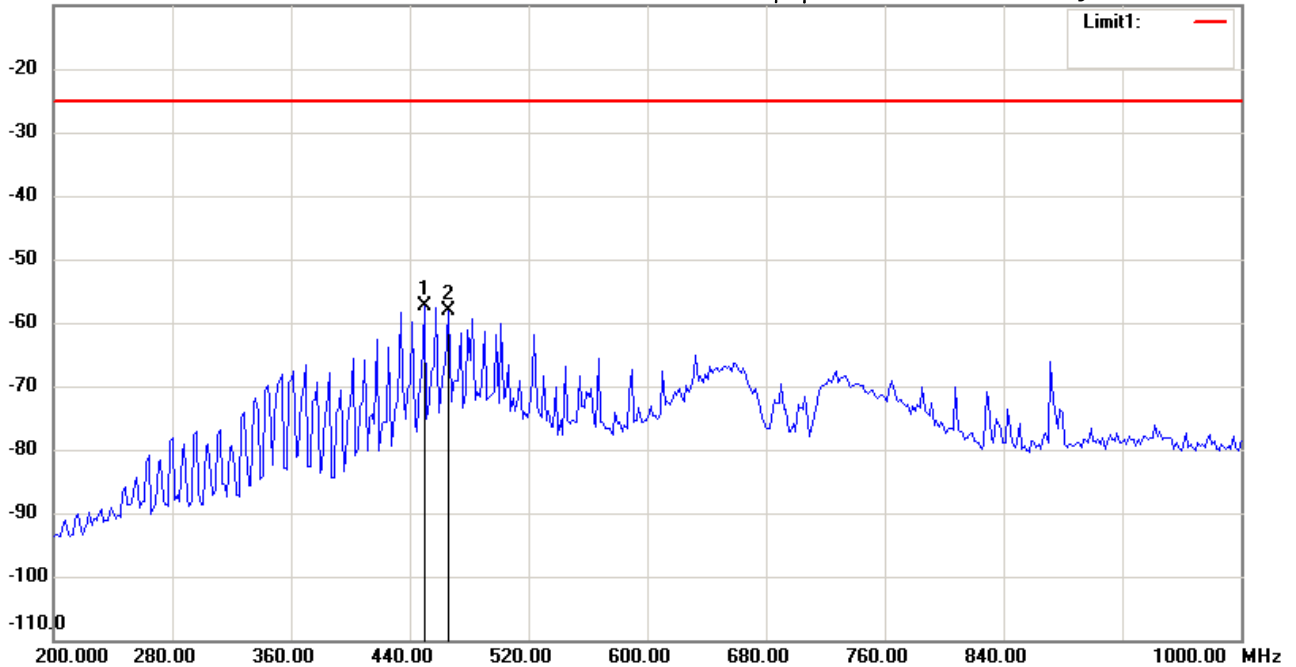
Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 05:35:44

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 697.9MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	450.1002	-48.08	peak	-9.29	-57.37	-25.00	150	100	-32.37	
	466.1323	-49.00	peak	-9.05	-58.05	-25.00	150	250	-33.05	

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



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Radiated Emission Measurement

Operator: Rick

File :2

Data :#2

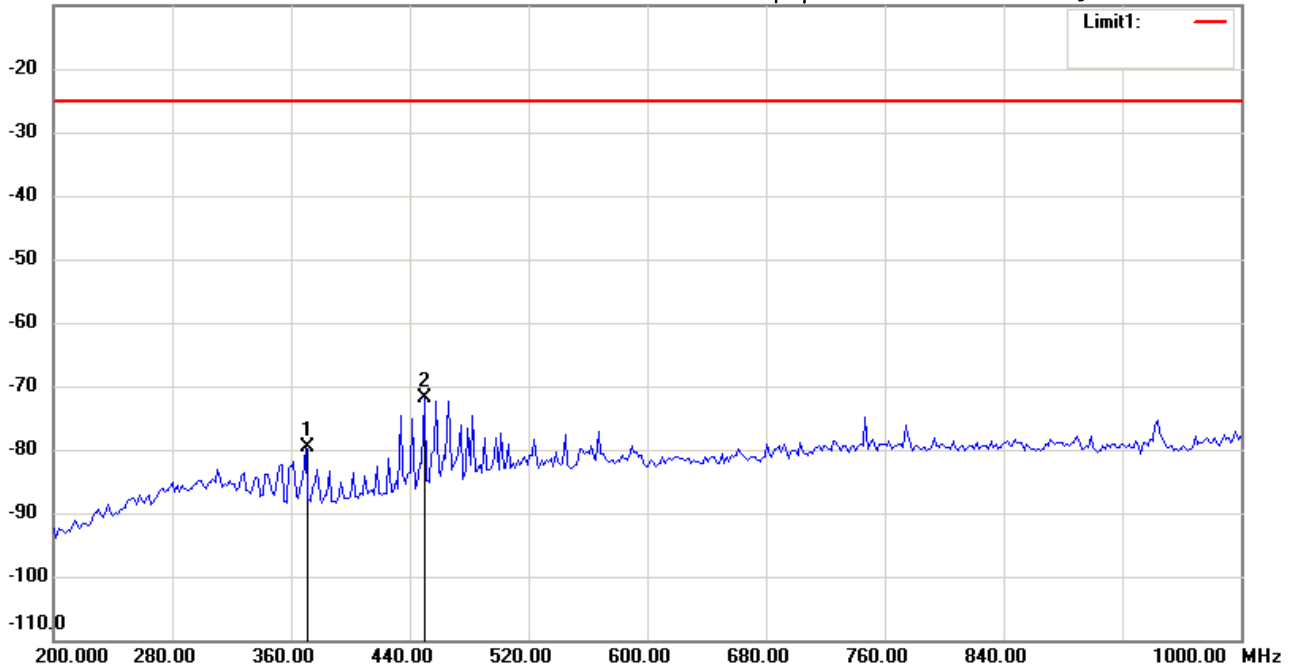
Date: 2015/3/12

Temperature:24 °C

-10.0 dBm

Time: 下午 05:39:05

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 697.9MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	369.9400	-66.96	peak	-12.72	-79.68	-25.00	150	110	-54.68	
*	450.1002	-62.11	peak	-9.84	-71.95	-25.00	150	300	-46.95	

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



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#1

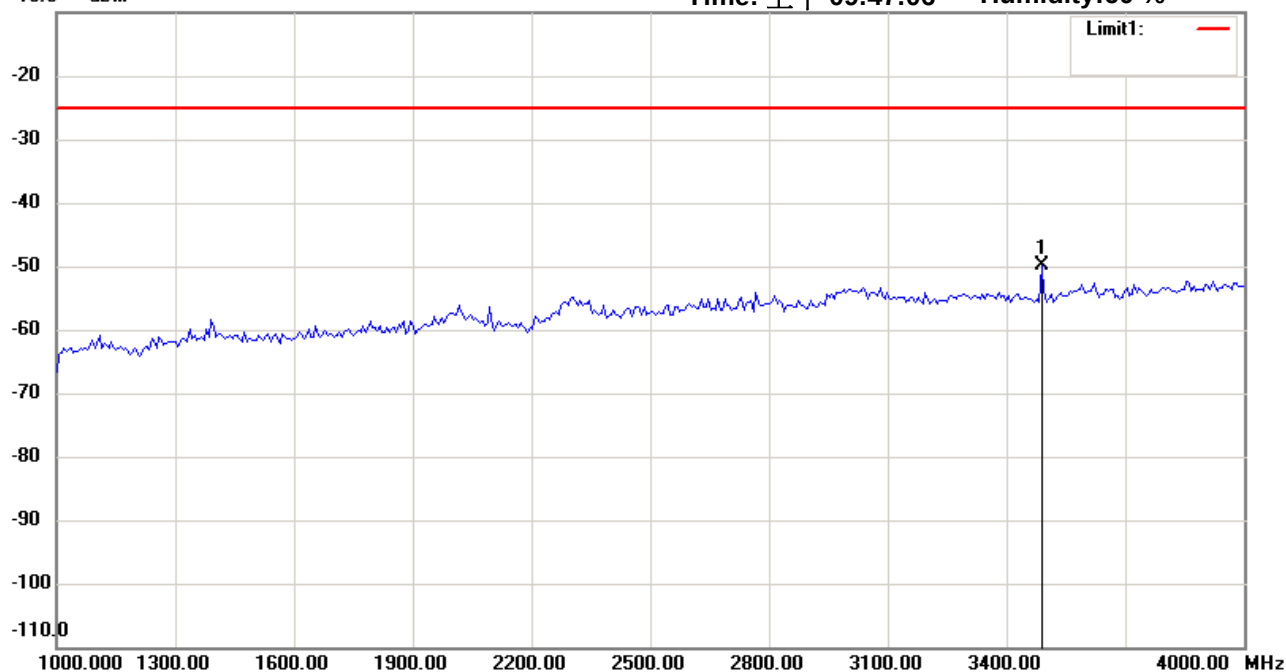
Date: 2015/3/13

Temperature:24 °C

-10.0 dBm

Time: 上午 09:47:06

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 697.9MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	3488.978	-57.03	peak	7.17	-49.86	-25.00	150	100	-24.86	

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



Radiated Emission Measurement

Operator: Rick

File :3

Data :#3

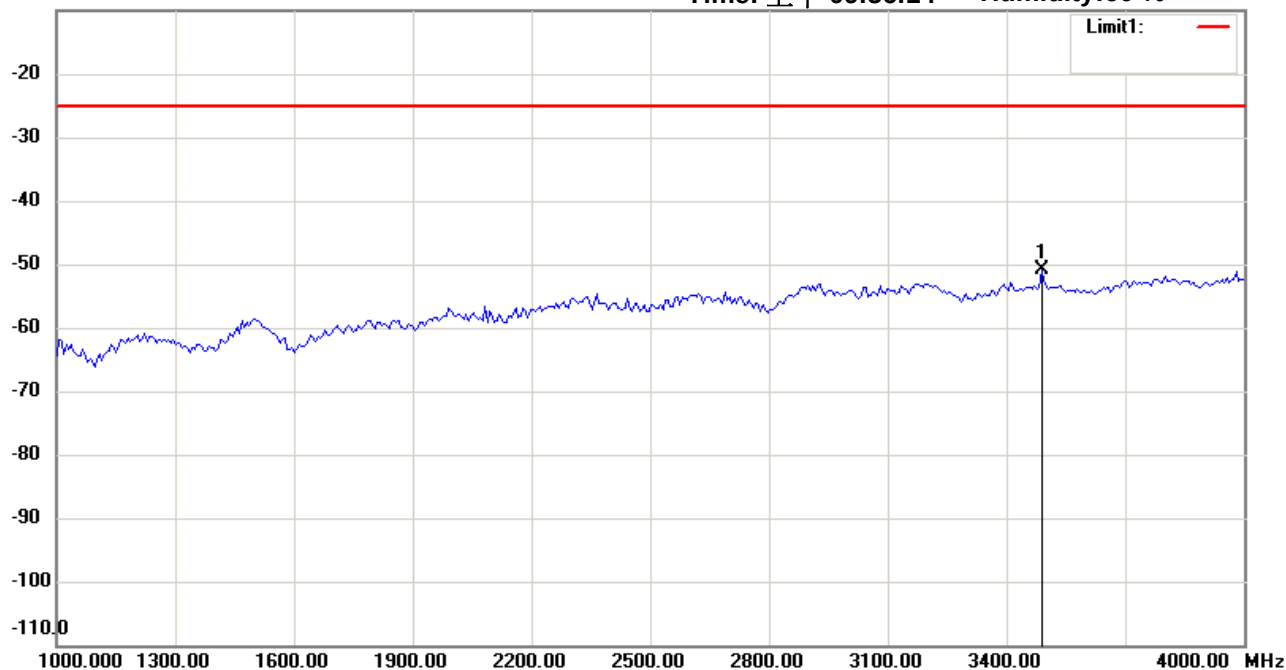
Date: 2015/3/13

Temperature:24 °C

-10.0 dBm

Time: 上午 09:56:14

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 697.9MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	3488.978	-59.23	peak	8.33	-50.90	-25.00	150	100	-25.90	



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#2

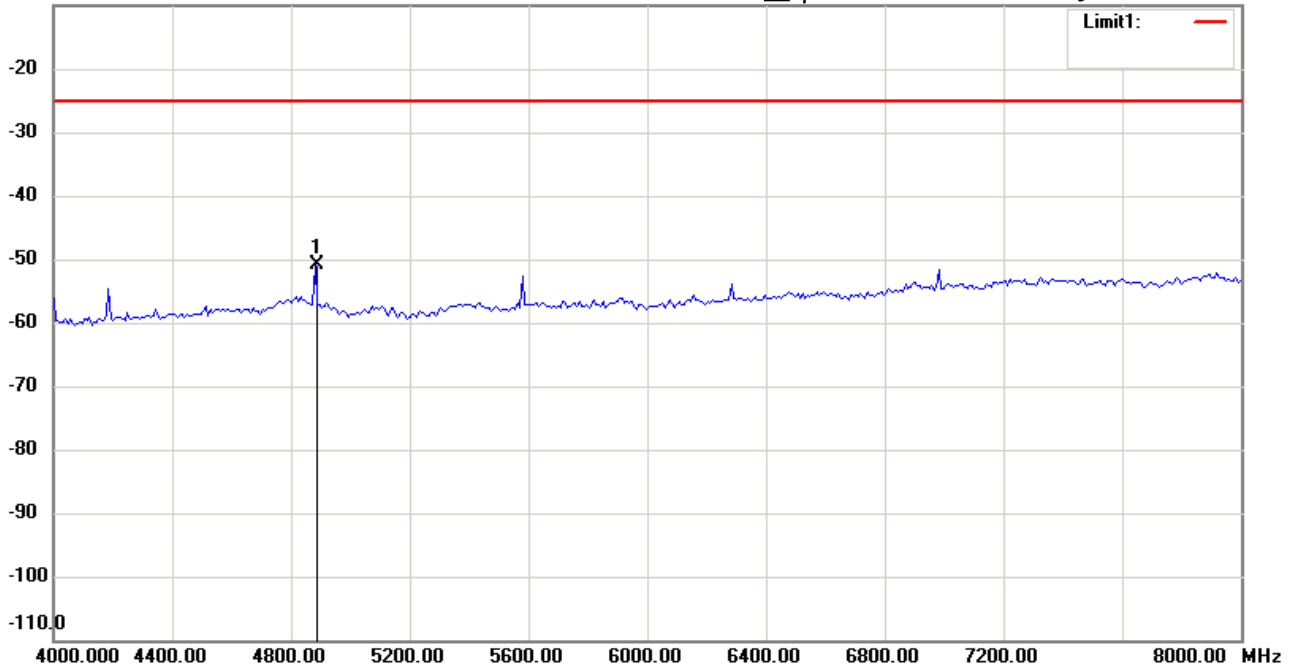
Date: 2015/3/13

Temperature:24 °C

-10.0 dBm

Time: 上午 09:49:14

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 697.9MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	4881.764	-60.09	peak	9.16	-50.93	-25.00	150	300	-25.93	

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



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#4

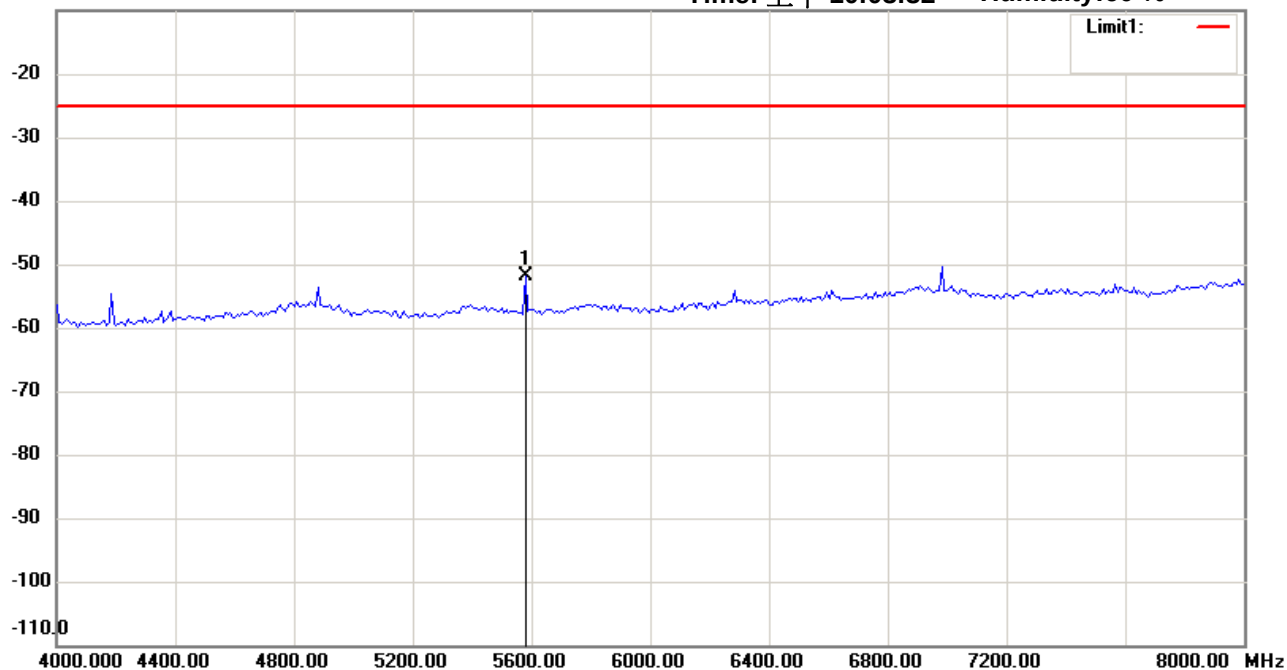
Date: 2015/3/13

Temperature:24 °C

-10.0 dBm

Time: 上午 10:03:32

Humidity:60 %



Site : Chamber

Condition : IC RSS-210 spurious emission

EUT : W6M21405-14185

M/N:

Test Mode : Tx 697.9MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	5579.158	-62.14	peak	10.32	-51.82	-25.00	150	100	-26.82	

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