FCC Part 15 SUBPART C Test Report

for

Wireless Microphone System

MODEL NO.: RFD-858W

FCC ID: UAO-RFD-858W

of

Applicant: ALITEAM INC.
Address: 1F., No. 5, Lane 162, Jingye 3rd Rd.,
Jungshan Chiu, Taipei 104, Taiwan

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: 930600

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

A2LA Accredited No.: 2732.01





Report No.: W6M21006-10753-C-1

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



Registration number: W6M21006-10753-C-1

FCC ID: UAO-RFD-858W

TABLE OF CONTENTS

L	GE	NEKAL INFORMATION	
	1.1	Notes	2
	1.2	TESTING LABORATORY	3
	1.2. 1.2. 1.3		3
	1.4	APPLICATION DETAILS	4
	1.5	GENERAL INFORMATION OF TEST ITEM	
	1.6	TEST STANDARDS	5
2	TEO	CHNICAL TEST	6
	2.1	SUMMARY OF TEST RESULTS	6
	2.2	TEST ENVIRONMENT	6
	2.3	TEST EQUIPMENT LIST	7
	2.4	GENERAL TEST PROCEDURE	10
3	TES	ST RESULTS (ENCLOSURE)	12
	3.1	PEAK OUTPUT POWER (TRANSMITTER)	13
	3.2	EQUIVALENT ISOTROPIC RADIATED POWER	14
	3.3	RF Exposure Compliance Requirements	14
	3.4	TRANSMITTER RADIATED EMISSIONS IN RESTRICTED BANDS	15
	3.5	Spurious Emissions (TX)	16
	3.6	RADIATED EMISSION ON THE BAND EDGE	20
	3.7	MINIMUM 6 DB BANDWIDTH	21
	3.8	PEAK POWER SPECTRAL DENSITY	22
	3.9	RADIATED EMISSION FROM RECEIVER PART	23
	3.10	POWER LINE CONDUCTED EMISSION	24
	APPEN	DIX	26

FCC ID: UAO-RFD-858W

1 General Information

1.1 Notes

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

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

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

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

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

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

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

Specific Conditions:

Usage of the hereunder tested device in combination with other integrated or external antennas requires at least additional output power measurements, spurious emission measurements, conducted emission measurements (AC supply lines) and radio frequency exposure evaluations for each individual configuration performed, for certification by FCC.

Tester:

August 31, 2010		Rick Chen	Rick Chen.
Date	WTS-Lab.	Name	Signature

Technical responsibility for area of testing:

August 31, 2010		Chang Tse-Ming	Chang Ise-1VIM	
Date	WTS	Name	Signature	

11 -1



Registration number: W6M21006-10753-C-1

FCC ID: UAO-RFD-858W

1.2 Testing laboratory

1.2.1 Location

OATS

No.5-1, Shuang Sing Village, LiShuei Rd., Wanli Township,

Taipei County 207, Taiwan (R.O.C.)

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





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

> T	,
Name:	./.
Accredited number:	./.
Street:	./.
Town:	./.
Country:	./.
Telephone:	./.
Fax.	/

1.3 Details of approval holder

Name: ALITEAM INC.

Street: 1F., No. 5, Lane 162, Jingye 3rd Rd., Jungshan Chiu,

City: Taipei 104, Country: Taiwan

Telephone: +886-2-2532-7977 Fax: +886-2-2532-7913

Teletex: ./.



FCC ID: UAO-RFD-858W

1.4 Application details

Date of receipt of test item: July 01, 2010

Date of test: from July 01, 2010 to August 27, 2010

1.5 General information of Test item

Type of product : Wireless Microphone System

Type identification : RFD-858W

Multi-listing model number : RFD-856W

Brand Name : ALTEAM

Photos : see Appendix

Technical data

Frequency band : 2406-2472 MHz

Frequency (ch 1) : 2406 MHz

Frequency (ch 18) : 2440 MHz

Frequency (ch 34) : 2472 MHz

Number of Channels: 34

Operation modes: duplex

Modulation Type: GFSK

Fixed point-to-point operation: \square Yes $/ \square$ No

Type of Antenna: Transmitter: Dipole antenna

Receiver: PIFA Antenna

Antenna gain: Transmitter: 0 dBi

Receiver: 2.08 dBi

Power supply: Transmitter: Battery 3.7 VDC 680 mAh

Receiver: Adapter (I/P: 100-240V, 0.3A, 50/60Hz;

O/P: 5.0V, 500mA)

5 VDC (power on PC)

Emission designator: 1M95G1D



Registration number: W6M21006-10753-C-1

FCC ID: UAO-RFD-858W

Host device: none

Classification:

Fixed Device	
Mobile Device (Human Body distance > 20cm)	
Portable Device (Human Body distance < 20cm)	

<u>Transmitter</u> <u>Unom</u>

Power (ch A or ch 1) : Conducted: 10.32 dBm Power (ch B or ch 18) : Conducted: 10.39 dBm Power (ch C or ch 34) : Conducted: 10.02 dBm

Manufacturer: (if applicable)

Name: Guangzhou ALTEAM Electronics Co., Ltd.

Street: Xi Nan Industry Zone, Xian Cun,

Town: Xintang Town, Zengcheng, Guangzhou

Country: China

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Additional information: ./.

1.6 Test standards

Technical standard: FCC RULES PART 15 SUBPART C § 15.247 (2009-10)

FCC ID: UAO-RFD-858W

2 Technical test

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed.		
or		
The deviations as specified in 2.5 were ascertained in the course of the tests performed.		

2.2 Test environment

Temperature: 23 °C

Relative humidity content: 20 ... 75 %

Air pressure: 86 ... 103 kPa

Power supply: Transmitter: Battery 3.7 VDC 680 mAh

Receiver: Adapter (I/P: 100-240V, 0.3A, 50/60Hz;

O/P: 5.0V, 500mA) 5 VDC (power on PC)

Extreme conditions parameters: ./.

Note: This test report only contains the test results of TX part. About the test report of RX part, please refer to test report no.: W6M21006-10753-P-15B.



FCC ID: UAO-RFD-858W

2.3 Test Equipment List

No.	Test equipment	Туре	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2009/9/10	2010/9/9
ETSTW-CE 004	ZWEILEITER-V- NETZNACHBILDUNG TWO- LINE V-NETWORK	ESH3-Z5	840731/011	R&S	2010/3/2	2011/3/1
ETSTW-CE 005	Line-Impedance Stabilisation Network	NNBM 8126D	137	Schwarzbeck	2009/9/9	2010/9/8
ETSTW-CE 006	IMPULSBEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	2010/5/8	2011/5/7
ETSTW-CE 007	SPECTRUM ANALYZER 5GHz	FSB	849670/001	R&S	Pre-test 1	Use NCR
ETSTW-CE 008	HF-EICHLEITUNG RF STEP ATTENUATOR 139dB DPSP	334.6010.02	844581/024	R&S	Function	on Test
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2010/7/21	2011/7/19
ETSTW-CE 015	CISPR 22 TWO BALANCED TELECOM PAIRS IMPEDANCE STABILIZATION NETWORK	FCC-TLISN-T8-02	20307	FCC	2009/9/12	2010/9/11
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2009/9/9	2010/9/8
ETSTW-RE 002	Function Generator	33220A	MY43004982	Agilent	Functi	on Test
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2010/8/17	2011/8/16
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2009/9/18	2010/9/17
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2009/9/11	2010/9/10
ETSTW-RE 006	Attenuator 10dB	50HF-010-5N-1	None	STEP	2010/3/5	2011/3/4
ETSTW-RE 010	ABSORBING CLAMP	MDS 21	3469	Schwarzbeck	2009/9/11	2010/9/10
ETSTW-RE 012	TUNABLE BANDREJECT FILTER	D.C 0309	146	K&L	Function	on Test
ETSTW-RE 013	TUNABLE BANDREJECT FILTER	D.C 0336	397	K&L	Function	on Test
ETSTW-RE 018	MICROWAVE HORN ANTENNA	AT4560	27212	AR	2009/10/1	2010/9/30
ETSTW-RE 020	MICROWAVE HORN ANTENNA	AT4002A	306915	AR	Functi	on Test
ETSTW-RE 021	SWEEP GENERATOR	SWM05	835130/010	R&S	2010/8/17	2011/8/16
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	EMCO	2010/8/17	2011/8/16
ETSTW-RE 028	Log-Periodic Dipole Array Antenna	3148	34429	EMCO	2010/4/14	2011/4/13
ETSTW-RE 029	Biconical Antenna	3109	33524	EMCO	2010/4/14	2011/4/13
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	EMCO	2010/3/2	2011/3/1
ETSTW-RE 032	Millivoltmeter	URV 55	849086/013	R&S	2010/8/17	2011/8/16
ETSTW-RE 033	WaveRunner 6000A Serise Oscilloscope	WAVERUNNER 6100A	LCRY0604P14508	LeCroy	Functi	on Test
ETSTW-RE 034	Power Sensor	URV5-Z4	839313/006	R&S	2010/8/17	2011/8/16
ETSTW-RE 042	Biconical Antenna	HK116	100172	R&S	2010/1/13	2011/1/12
ETSTW-RE 043	Log-Periodic Dipole Antenna	HL223	100166	R&S	2010/4/29	2011/4/28
ETSTW-RE 044	Log-Periodic Antenna	HL050	100094	R&S	2010/5/11	2011/5/10



Registration number: W6M21006-10753-C-1

FCC ID: UAO-RFD-858W

ETSTW-RE 047	PSA SERIES SPECTRUM ANALYZER	E4445A	MY46181369	Agilent	Pre-test Use NCR	
ETSTW-RE 048	Triple Loop Antenna	HXYZ 9170	HXYZ 9170-134	Schwarzbeck	2010/8/17	2011/8/16
ETSTW-RE 049	TRILOG Super Broadband test Antenna	VULB 9160	9160-3185	Schwarzbeck	2010/4/13	2011/4/12
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2010/3/5	2011/3/4
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2010/3/5	2011/3/4
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2010/6/3	2011/6/2
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	Pre-test I	Jse NCR
ETSTW-RE 061	Amplifier Module	CHC 1	None	ETS	2009/11/12	2010/11/11
ETSTW-RE 062	Amplifier Module	CHC 2	None	KMIC	2009/11/12	2010/11/11
ETSTW-RE 064	Bluetooth Test Set	MT8852B-042	6K00005709	Anritsu	Function	on Test
ETSTW-RE 065	Amplifier	AMF-6F- 18002650-25-10P	941608	MITEQ	2010/4/13	2011/4/12
ETSTW-RE 066	Highpass Filter	H1G013G1	206015	MICROWAVE CIRCUITS, INC.	2010/3/5	2011/3/4
ETSTW-RE 072	CELL SITE TEST SET	8921A	3339A00375	HP	2009/10/2	2010/10/1
ETSTW-RE 073	Power Meter	N1911A	MY45100769	Agilent	2010/1/7	2011/1/6
ETSTW-RE 074	Power Sensor	N1921A	MY45241198	Agilent	2010/1/7	2011/1/6
ETSTW-RE 081	Highpass Filter	H03G13G1	4260-02 DC0428	MICROWAVE CIRCUITS, INC.	2010/3/5	2011/3/4
ETSTW-RE 096	SIGNAL GENERATOR	SMIQ 03B	102274	R&S	2010/5/31	2011/5/30
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2010/3/5	2011/3/4
ETSTW-RE 105	2.4GHz Notch Filter	NO124411	39555	MICROWAVE CIRCUITS, INC.	2010/3/25	2011/3/24
ETSTW-RE 106	Humidity Temperature Meter	TES-1366	091011113	TES	2010/3/25	2011/3/24
ETSTW-GSM 002	Universal Radio Communication Tester	CMU 200	109439	R&S	2009/9/22	2010/9/21
ETSTW-GSM 019	Band Reject Filter	WRCTF824/849- 822/851-40 /12+9SS	3	WI	Function	on Test
ETSTW-GSM 020	Band Reject Filter	WRCD1747/1748- 1743/1752-32/5SS	1	WI	Function	on Test
ETSTW-GSM 021	Band Reject Filter	WRCD1879.5/1880 .5-1875.5/1884.5- 32/5SS	3	WI	Function	on Test
ETSTW-GSM 022	Band Reject Filter	WRCT901.9/903.1- 904.25-50/8SS	1	WI	Function	on Test
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2009/9/21	2010/9/20
ETSTW-Cable 002	Microwave Cable	SUCOFLEX 104 (S_Cable 7)	238093	HUBER+SUHNER	2009/9/16	2010/9/15
ETSTW-Cable 003	Microwave Cable	SUCOFLEX 104 (S_Cable 11)	209953	HUBER+SUHNER	2009/9/16	2010/9/15
ETSTW-Cable 006	Microwave Cable	SUCOFLEX 104 (S_Cable 8)	238095	HUBER+SUHNER	2010/3/5	2011/3/4
ETSTW-Cable 010	BNC Cable	5 M BNC Cable	None	JYE BAO CO.,LTD.	2010/3/5	2011/3/4
ETSTW-Cable 011	BNC Cable	BNC Cable 1	None	JYE BAO CO.,LTD.	2010/8/17	2011/8/16
ETSTW-Cable 012	BNC Cable	BNC Cable 2	None	JYE BAO CO.,LTD.	2010/8/17	2011/8/16



Registration number: W6M21006-10753-C-1

FCC ID: UAO-RFD-858W

ETSTW-Cable 013	Microwave Cable	SUCOFLEX 104 (S_Cable 5)	232345	HUBER+SUHNER	2010/3/5	2011/3/4
ETSTW-Cable 022	N TYPE Cable	OATS Cable 3 0002		JYE BAO CO.,LTD.	2010/3/5	2011/3/4
ETSTW-Cable 039	Microwave Cable	SUCOFLEX 104 (S_Cable 19)	316739	HUBER+SUHNER	2010/3/5	2011/3/4
WTSTW-SW 001	EMI TEST SOFTWARE	Harmonics-1000	None	EMC PARTNER		ersion 4.16 Version 2.18
WTSTW-SW 002	W-SW 002 EMI TEST SOFTWARE EZ_EMC None		None	Farad	Version E	ETS-03A1
WTSTW-SW 003	EMS TEST SOFTWARE	i2	None	AUDIX	Version 3.2	2007-8-17b
WTSTW-SW 005 GSM Fading Level Correction GSMFadLevCor None		None	R&S	Versio	n 1.66	



FCC ID: UAO-RFD-858W

2.4 General Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.4-2003 using a 50µH LISN (if necessary). Both lines were observed. The bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed.

RADIATION INTERFERENCE: The test procedure used was according to ANSI STANDARD C63.4-2003 employing a spectrum analyzer. For investigated frequency is equal to or below 1GHz, the RBW and VBW of the spectrum analyzer was 100 kHz and 100kHz respectively with an appropriate sweep speed. For investigated frequency is above 1GHz, both of RBW and VBW of the spectrum analyzer were 1 MHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna.

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

Example:

Freq (MHz) METER READING + ACF + CABLE LOSS (to the receiver) = FS

 $20 \text{ dB}\mu\text{V} + 10.36 \text{ dB} + 6 \text{ dB} = 36.36 \text{ dB}\mu\text{V/m} \text{ @3m}$

The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m (non metallic table) and arranged according to ANSI C63.4-2003 Section 13.1.2. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to the frequency specified as follows:

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

For hand-held devices, a exploratory test was performed with three (3) orthogonal planes to determine the highest emissions.

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

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



FCC ID: UAO-RFD-858W

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

The formula is as follows:

Average = Peak + Duty Factor

Duty Factor = 20 log (dwell time/T)

T = 100ms when the pulse train period is over 100 ms or the period of the pulse train.

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



FCC ID: UAO-RFD-858W

3 Test results (enclosure)

TEST CASE	Para. Number	Required	Test passed	Test failed
Peak Output Power	15.247(b)(3)	×	×	
Equivalent radiated Power	15.247(b)(3)	×	×	
Spurious Emissions radiated – Transmitter operating	15.247(c):	×	×	
	15.209			
Band Edge Measurement	15.247(c)	×	×	
Minimum 6 dB Bandwidth	15.247(a)(2)	×	×	
Peak Power Spectral Density	15.247(d)	×	×	
Radiated Emission from Receiver Part	15.109			
Power Line Conducted Emission	15.207			

The follows is intended to leave blank.

FCC ID: UAO-RFD-858W

3.1 Peak Output Power (transmitter)

FCC Rule: 15.247(b)(3)

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

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

Test con	(Conducted Power	r	
Test con	Channel 1	Channel 18	Channel 34	
T. 220C	V 27 V	[dBm]	[dBm]	[dBm]
$T_{\text{nom}} = 23^{\circ}C$	$V_{nom} = 3.7 V$	10.32	10.39	10.02

$ \begin{array}{cccc} Test \ condition \\ T_{nom} = 23^{\circ}C, \ V_{nom} = \ \ V \end{array} $	Signal Field strength TX highest power mode dB μ V/m
Frequency [MHz]	
	

Limits:

Frequency MHz	Power dBm
902 - 928	30
2400 – 2483.5	30
5725 – 5850	30

In case of employing transmitter antennas having antenna gain > 6 dBi and using fixed point-to point operation consider \$15.247 (b)(4)

Test equipment used: ETSTW-RE 055

Explanation: The diagrams for the peak output power measurements are included in Appendix.

FCC ID: UAO-RFD-858W

3.2 Equivalent isotropic radiated power

FCC Rule: 15.247(b)(3)

EIRP = max. conducted output power + antenna gain

EIRP = 10.39 dBm + 0 dBi

= 10.39 dBm

Limit: EIRP = +36 dBm for Antenna gain < 6dBi

Test equipment used: ETSTW-RE 055

3.3 RF Exposure Compliance Requirements

FCC OET Bulletin 65 Edition 97.01 determines the equations for predicting RF fields and applicable limits.

The prediction for power density in the far-field but will over-predict power density in the near field, where it could be used for walking a "worst case" or conservative prediction.

S – Power Density

P – Output power ERP

R – Distance

D – Cable Loss

AG – Antenna Gain

Item	Unit	Value	Remarks
P	mW	10.93956	Peak value
D	dB		
AG	dBi	0	
G		1	Calculated Value
R	cm	20	Assumed value
S	mW/cm ²	0.00217642	Calculated value

Limits:

Limit for General Population / Uncontrolled Exposure								
Frequency (MHz)	Power Density (mW/cm ²)							
1500 – 100.000	1.0							

FCC ID: UAO-RFD-858W

3.4 Transmitter Radiated Emissions in Restricted Bands

FCC Rules: 15.247 (c), 15.205, 15.209, 15.35

Radiated emission measurements were performed from 30 MHz to 26500 MHz.

For radiated emission tests, the analyzer setting was as followings:

Frequency ≤ 1 GHz, RBW:100 kHz, VBW: 100 kHz (Peak measurements)
Frequency > 1 GHz, RBW: 1 MHz, VBW: 1 MHz (Peak measurements)
Frequency > 1 GHz, RBW:1 MHz, VBW: 10 Hz (Average measurements)

Limits.

For frequencies below 1GHz:

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

For frequencies above 1GHz (Average measurements).

Guidance on Measurement of Digit Transmission Systems:

"If the emission is pulsed, modify the unit for continuous operation, use the setting shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation."

The correction factor, based on the total channel dwell time in a 100 ms period, may be mathematically applied to a measurement made with an average detector, to further reduce the value.

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

Note: No duty cycle correction was added to the reading of this EUT.

Explanation: See attached diagrams in Appendix.

FCC ID: UAO-RFD-858W

3.5 Spurious Emissions (tx)

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

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

FCC Rule: 15.247(c), 15.35

For out of band emissions that are close to or that exceed the 20 dB attenuation requirement described in the specification, radiated measurements were performed at a 3 m separation distance to determine whether these emissions complied with the general radiated emission requirement.

Limits:

For frequencies above 1GHz (Peak measurements). Modified Limit for peak according to 15.35 (b) = Max Permitted average Limits + 20dB

For frequencies above 1GHz (Average measurements).

Max. reading - 20dB

Max. reading – 20 dB

Guidance on Measurement of Digit Transmission Systems:

"If the emission is pulsed, modify the unit for continuous operation, use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation."

The correction factor, based on the total channel dwell time in a 100 ms period, may be mathematically applied to a measurement made with an average detector, to further reduce the value.

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

Note: No duty cycle correction was added to the reading of EUT.



Registration number: W6M21006-10753-C-1

FCC ID: UAO-RFD-858W

SAMPLE CALCULATION OF LIMIT. All results will be updated by an automatic measuring system

in accordance with point 2.3.

Calculation of test results:

Such factors like antenna correction, cable loss, external attenuation etc. are already included in the provided measurement results. This is done by using validated test software and calibrated test system according the accreditation requirements.

The peak and average spurious emission plots was measured with the average limits.

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

If in the column's correction factor states a value then the max. Field strength in the same row is corrected by a value gained from the "Correction Factor".

Summary table with radiated data of the test plots

Model: RFD-858W Date: 2010/8/12 Mode: TX-2406MHz Temperature: 29.2 °C Engineer:

Polarization: Horizontal Humidity: 60 %

i olarization.	Honzontal			riairiiaity.	00	70		
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
277.2746	14.29	peak	15.59	29.88	46.00	-16.12	110	150
329.4590	17.02	peak	16.90	33.92	46.00	-12.08	200	150

Polarization: Horizontal

Frequency (MHz)		ding uV) Ave.	Factor (dB) Corr.		t @3m V/m) Ave.	Limit (dBu Peak	@3m V/m) Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
4809.6190	52.37		-4.96	47.41		74.00	54.00	-26.59	120	150
7218.0000	48.25		-2.28	45.97		74.00	54.00	-28.03	200	150
9624.0000	30.98		12.94	43.92		74.00	54.00	-30.08	130	150
12030.0000	31.36		15.87	47.23		74.00	54.00	-26.77	200	150

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
281.0620	14.55	peak	15.76	30.31	46.00	-15.69	230	150
329.4590	15.26	peak	16.90	32.16	46.00	-13.84	260	150

Polarization: Vertical

Frequency (MHz)	Rea (dB Peak	ding uV) Ave.	Factor (dB) Corr.		(dBuV/m) (dBu'		Limit @3m (dBuV/m) Peak Ave.		Table Degree (Deg.)	Ant. High (cm)
4809.6190	50.27		-4.96	45.31		74.00	54.00	-28.69	260	150
7218.0000	48.25		-2.28	45.97		74.00	54.00	-28.03	190	150
9624.0000	30.99		12.94	43.93		74.00	54.00	-30.07	140	150
12030.0000	31.69		15.87	47.56		74.00	54.00	-26.44	200	150

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Registration number: W6M21006-10753-C-1

FCC ID: UAO-RFD-858W

Mode: TX-2440MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
282.1442	13.63	peak	15.78	29.41	46.00	-16.59	140	150
329.4590	15.94	peak	16.90	32.84	46.00	-13.16	220	150

Polarization: Horizontal

Frequency	Reading (dBuV)		Factor (dB)	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree	Ant. High
(MHz)	Peak	Áve.	Čorr.	Peak	Äve.	Peak	Ave.	(ub)	(Deg.)	(cm)
4873.7480	52.46		-4.86	47.60		74.00	54.00	-26.40	280	150
7320.0000	48.01		-2.80	45.21		74.00	54.00	-28.79	180	150
9760.0000	30.11		12.85	42.96		74.00	54.00	-31.04	130	150
12200.0000	31.82		16.47	48.29		74.00	54.00	-25.71	250	150

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
74.9098	14.60	peak	10.99	25.59	40.00	-14.41	190	150
329.4590	16.49	peak	16.90	33.39	46.00	-12.61	170	150

Polarization: Vertical

Frequency (MHz)	Rea (dB Peak	ding uV) Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak Ave. F					Table Degree (Deg.)	Ant. High (cm)
4873.7480	51.93		-4.86	47.07		74.00	54.00	-26.93	220	150
7126.2520	49.52		-2.19	47.33		74.00	54.00	-26.67	160	150
9760.0000	30.81		12.85	43.66		74.00	54.00	-30.34	210	150
12200.0000	32.09		16.47	48.56		74.00	54.00	-25.44	140	150

Mode: TX-2472MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
279.9800	15.67	peak	15.73	31.40	46.00	-14.60	170	150
329.4590	16.87	peak	16.90	33.77	46.00	-12.23	160	150

Polarization: Horizontal

Frequency (MHz)	Rea (dB Peak	ding uV) Ave.	Factor (dB) Corr.		: @3m V/m) Ave.	Limit (dBu Peak	@3m V/m) Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
4937.8760	53.74		-4.93	48.81		74.00	54.00	-25.19	130	150
7416.0000	48.36		-3.17	45.19		74.00	54.00	-28.81	200	150
9888.0000	30.33		13.04	43.37		74.00	54.00	-30.63	180	150
12360.0000	31.46		16.49	47.95		74.00	54.00	-26.05	220	150



Registration number: W6M21006-10753-C-1

FCC ID: UAO-RFD-858W

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
278.8977	14.15	peak	15.67	29.82	46.00	-16.18	210	150
329.4590	16.42	peak	16.90	33.32	46.00	-12.68	170	150

Polarization: Vertical

Frequency (MHz)		ding uV) Ave.	Factor (dB) Corr.		: @3m V/m) Ave.	Limit (dBu Peak	@3m V/m) Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
4937.8760	54.73		-4.93	49.80		74.00	54.00	-24.20	260	150
7416.0000	48.63		-3.17	45.46		74.00	54.00	-28.54	140	150
9888.0000	30.88		13.04	43.92		74.00	54.00	-30.08	260	150
12360.0000	31.93		16.49	48.42		74.00	54.00	-25.58	110	150

Note

1. Correction Factor = Antenna factor + Cable loss - Preamplifier

- 2. The formula of measured value as: Test Result = Reading + Correction Factor
- 3. Detector function in the form: PK = Peak, QP = Quasi Peak, AV = Average
- 4. All not in the table noted test results are more than 20 dB below the relevant limits.
- 5. See the attached diagram as appendix.

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

Test equipment used: ETSTW-RE 003, ETSTW-RE 004, ETSTW-RE 018, ETSTW-RE 028,

ETSTW-RE 029, ETSTW-RE 030, ETSTW-RE 042, ETSTW-RE 043

FCC ID: UAO-RFD-858W

3.6 Radiated Emission on the band edge

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

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

Test conditions		Attenuation at or outside band-edges			
		Lower Band-edge	Upper Band-edge		
T _{nom} = 23°C	$V_{nom} = 3.7 \text{ V}$	49.60 dB	54.68 dB		

Limit:

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

Test equipment used: ETSTW-RE 055

Explanation: Please see attached diagram as appendix.



FCC ID: UAO-RFD-858W

3.7 Minimum 6 dB Bandwidth

The analyzer ResBW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK reading was taken, two markers were set 6 dB below the maximum level on the right and the left side of the emission.

The 6 dB bandwidth is the frequency difference between the two markers.

Test conditions		6 dB Bandwidth			
		Channel 1	Channel 18	Channel 34	
T _{nom} = 23°C	$V_{\text{nom}} = 3.7 \text{ V}$	552.884615385 kHz	576.923076923 kHz	586.538461538 kHz	

Limits:

Frequency Range MHz	Limits
902-928	min 500 kHz
2400-2483.5	min 500 kHz
5725-5850	min 500 kHz

Test equipment used: ETSTW-RE 055

Explanation: See attached diagrams in Appendix.

FCC ID: UAO-RFD-858W

3.8 Peak Power Spectral Density

Peak Power Spectral density is a measured at low, middle and high channel.

The peak output power is measured with a measurement bandwidth of 10 MHz and displayed on diagram together with Peak Power Spectral Density result which was measured with a bandwidth of 3 kHz, appreciate frequency span and sweep time.

		Peak Power Spectral Density (3 kHz)			
Test con	nditions	Channel 1	Channel 18	Channel 34	
		[dBm]	[dBm]	[dBm]	
$T_{\text{nom}} = 23^{\circ}\text{C}$	$V_{nom} = 3.7 \text{ V}$	6.91	7.34	6.91	

Limits:

Frequency Range	dBm
MHz	
902-928	8
2400-2483.5	8
5725-5850	8

Test equipment used: ETSTW-RE 055

Explanation: See attached diagrams in Appendix.



FCC ID: UAO-RFD-858W

3.9 Radiated Emission from Receiver Part

According to FCC part 15.109 (g), digital devices may be shown to comply with the standards contained in Third Edition of the International Special Committee on Radio Interference (CISPR), Pub. 22, "Information Technology Equipment - Radio Disturbance Characteristics - Limits and Methods of Measurement".

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

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

Test equipment used: ETSTW-RE 003, ETSTW-RE 004, ETSTW-RE 028, ETSTW-RE 029, ETSTW-RE 030, ETSTW-RE 042, ETSTW-RE 043

Explanation: The test results of digital part and receiver part are listed in the separated test report no. W6M21006-10753-P-15B.



FCC ID: UAO-RFD-858W

3.10 Power Line Conducted Emission

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

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

Enggyonov	Level (dBµV)				
Frequency	quasi-peak	average			
150 kHz	lower limit line	Lower limit line			

Model:	RFD-858W	D	ate:				
Mode:		Temperature:			°C	Engine	eer:
Polarization:	N	Humidity:			%		
Frequency (MHz)	Reading (dBuV) QP Ave.	Factor (dB) Corr.		sult uV) Ave.		mit uV) Ave.	Margin (dB)

Polarization: L1

Frequency (MHz)	Read (dBu QP	Factor (dB) Corr.		sult uV) Ave.	mit uV) 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 = \pm 1.77dB; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.
- 6. The transmitter part of EUT is battery-used, so this test is not required.



Registration number: W6M21006-10753-C-1

FCC ID: UAO-RFD-858W

Limits:

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

Test equipment used:ETSTW-CE 001, ETSTW-CE 004, ETSTW-CE 006

FCC ID: UAO-RFD-858W

Appendix

Measurement diagrams

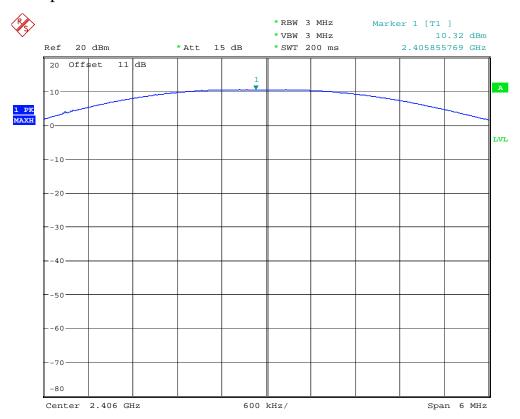
- 1 Peak Output Power
- 2 Spurious Emissions radiated
- 3 Band Edge Measurement
- 4 Minimum 6dB Bandwidth
- 5 Peak Power Spectral Density



Registration number: W6M21006-10753-C-1

FCC ID: UAO-RFD-840W

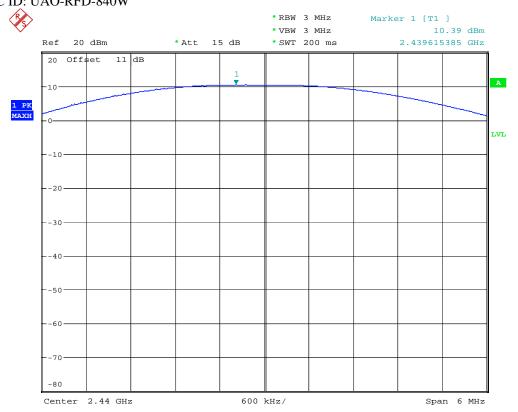
Peak Output Power



MAX OUTPUT POWER LOW CHANNEL Date: 13.AUG.2010 13:12:38



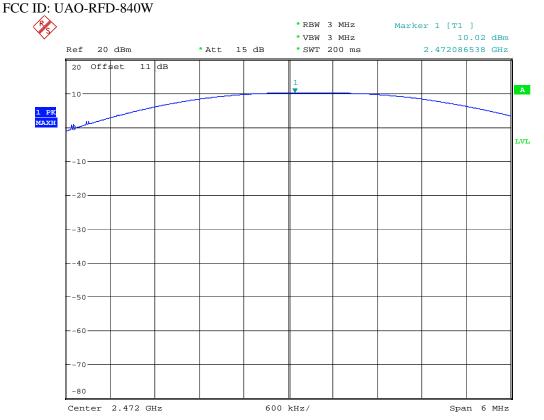
Registration number: W6M21006-10753-C-1 FCC ID: UAO-RFD-840W



MAX OUTPUT POWER MIDDLE CHANNEL Date: 13.AUG.2010 13:12:05



Registration number: W6M21006-10753-C-1



MAX OUTPUT POWER HIGH CHANNEL Date: 13.AUG.2010 13:11:25



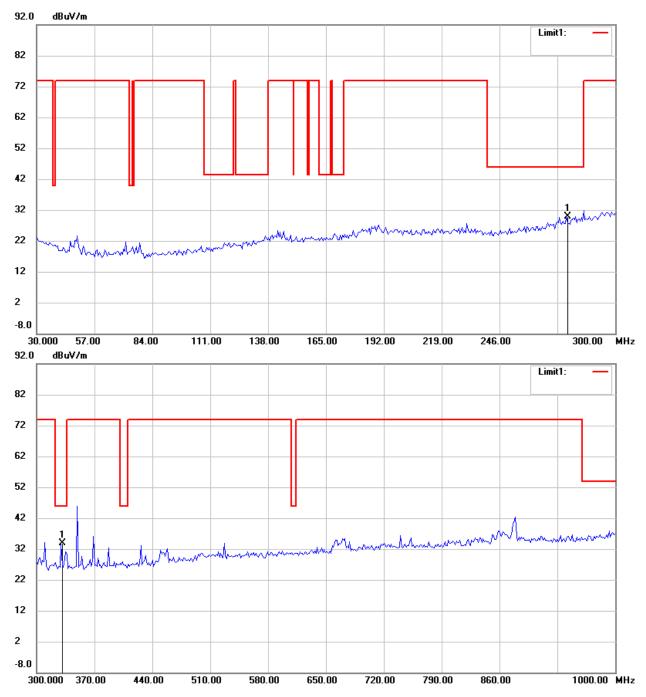
Registration number: W6M21006-10753-C-1

FCC ID: UAO-RFD-840W

Spurious Emissions radiated

TX-2406 MHz

Antenna Polarization H

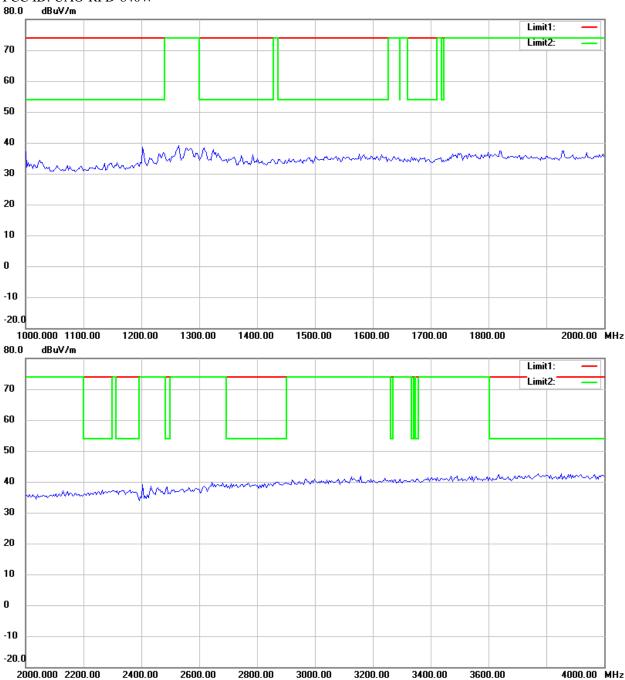


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M21006-10753-C-1

FCC ID: UAO-RFD-840W

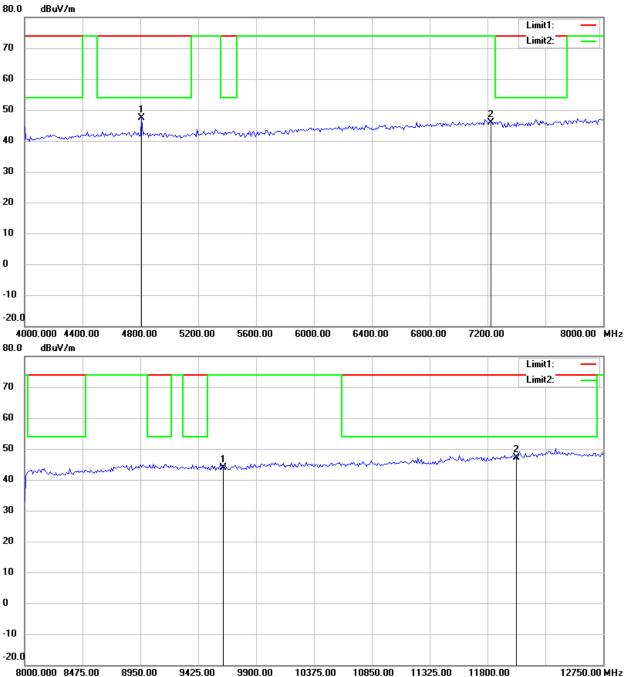


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M21006-10753-C-1

FCC ID: UAO-RFD-840W

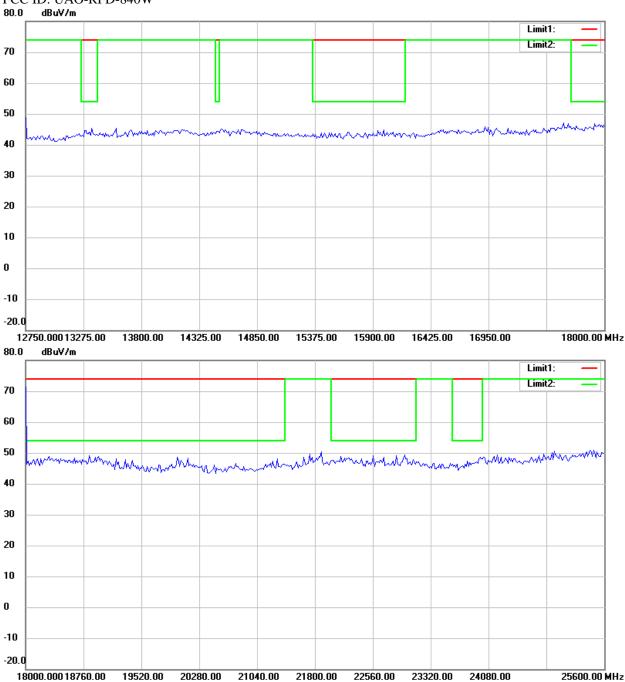


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M21006-10753-C-1

FCC ID: UAO-RFD-840W

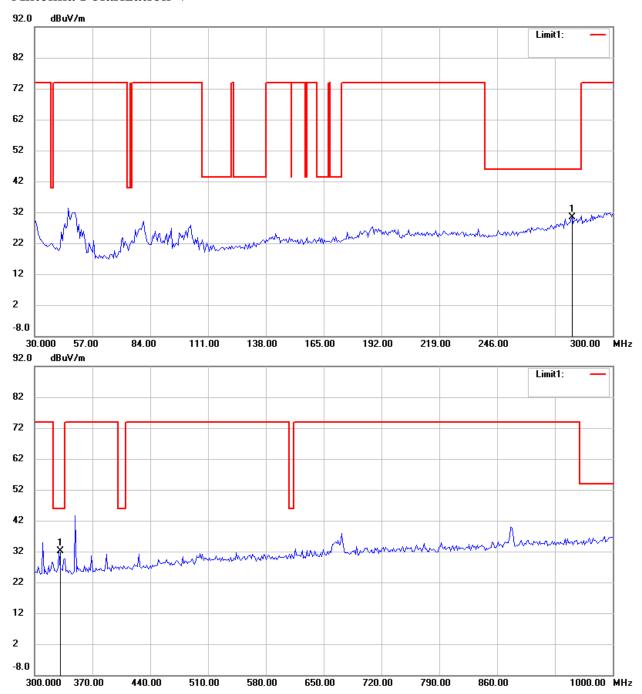


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M21006-10753-C-1

FCC ID: UAO-RFD-840W Antenna Polarization V

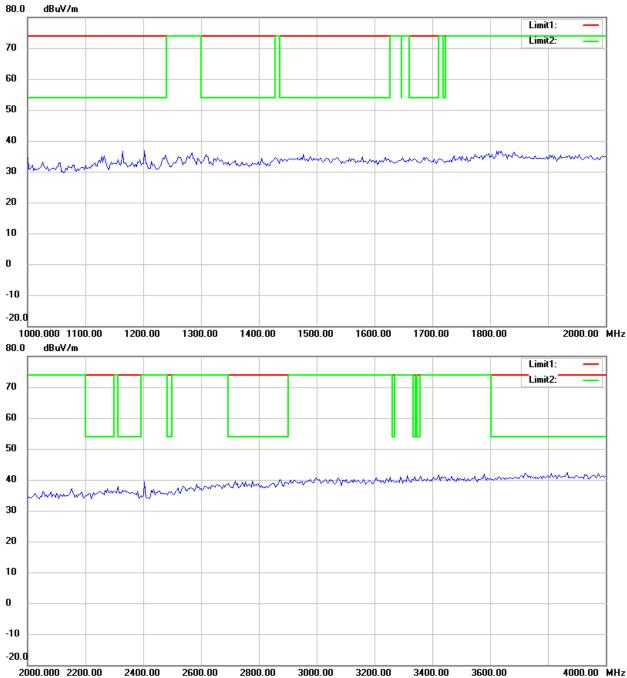


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M21006-10753-C-1

FCC ID: UAO-RFD-840W

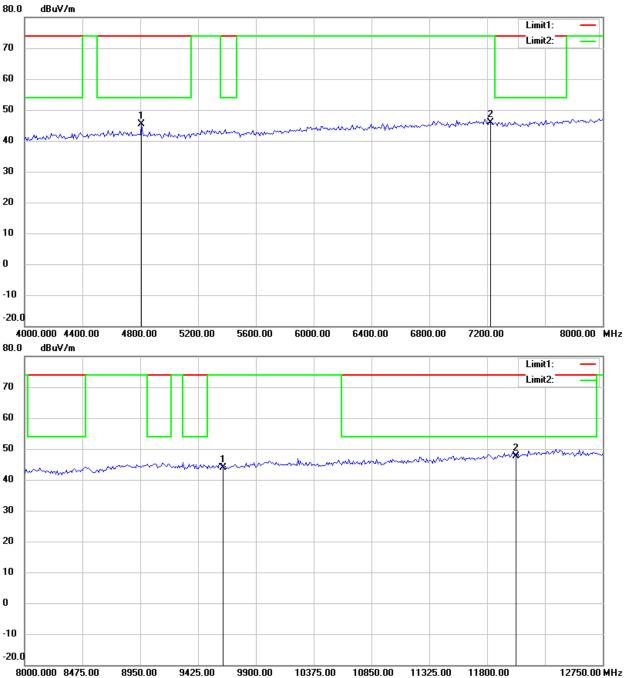


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M21006-10753-C-1

FCC ID: UAO-RFD-840W

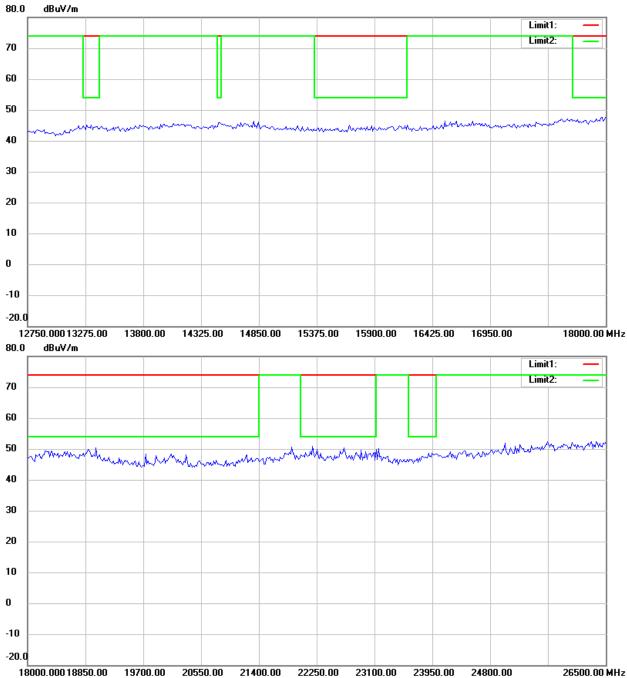


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M21006-10753-C-1

FCC ID: UAO-RFD-840W



- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.

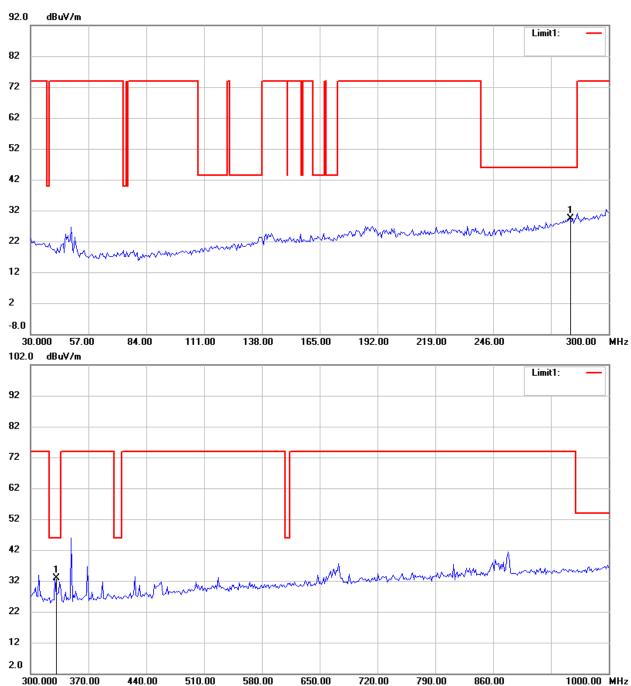


Registration number: W6M21006-10753-C-1

FCC ID: UAO-RFD-840W

TX-2440 MHz

Antenna Polarization H

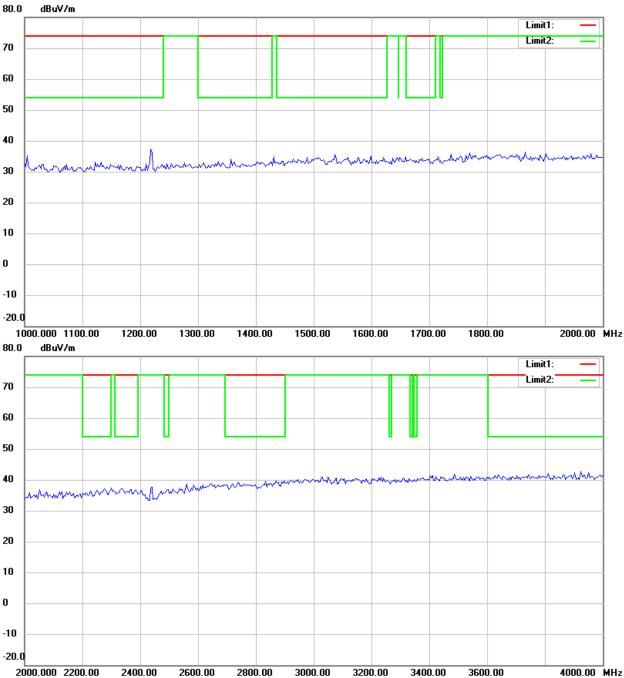


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M21006-10753-C-1

FCC ID: UAO-RFD-840W

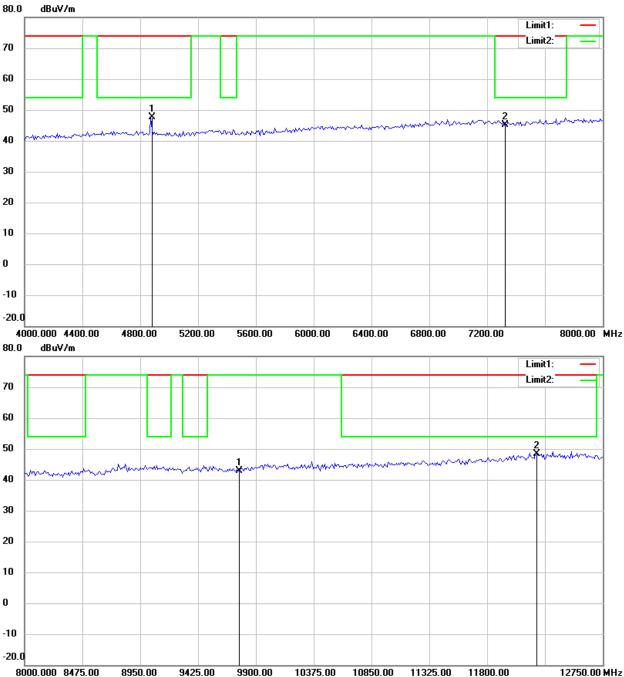


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M21006-10753-C-1

FCC ID: UAO-RFD-840W

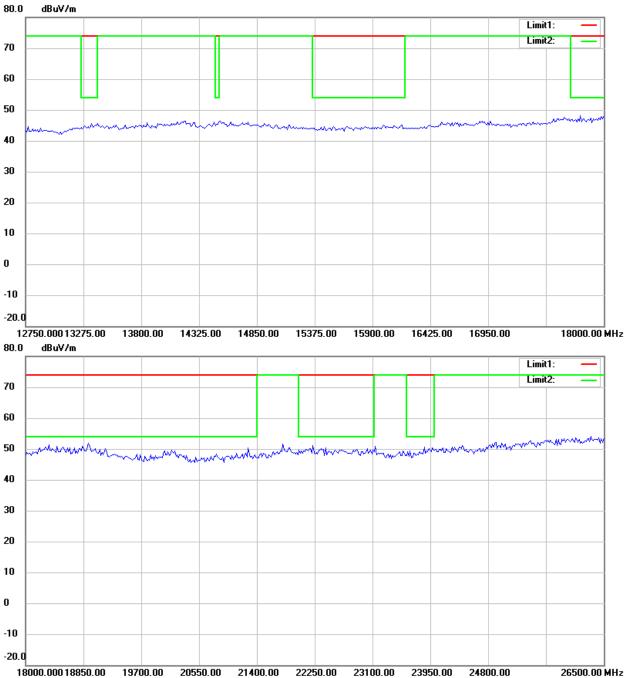


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M21006-10753-C-1

FCC ID: UAO-RFD-840W

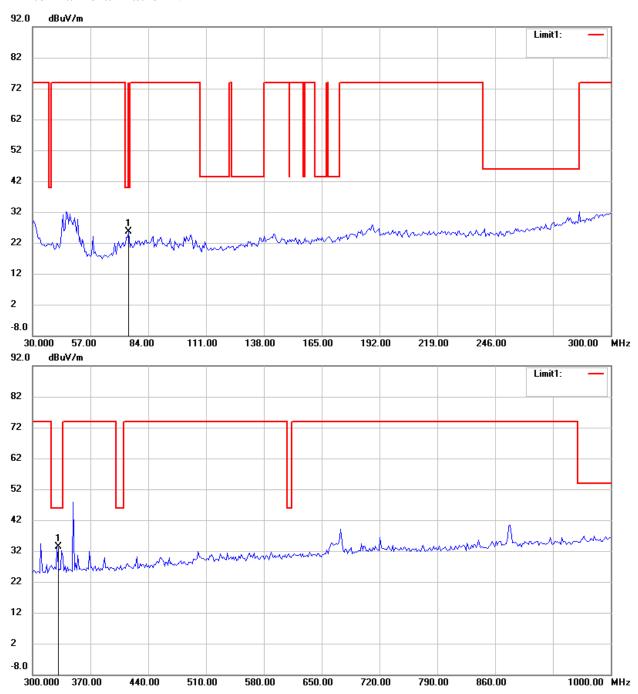


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M21006-10753-C-1

FCC ID: UAO-RFD-840W Antenna Polarization V

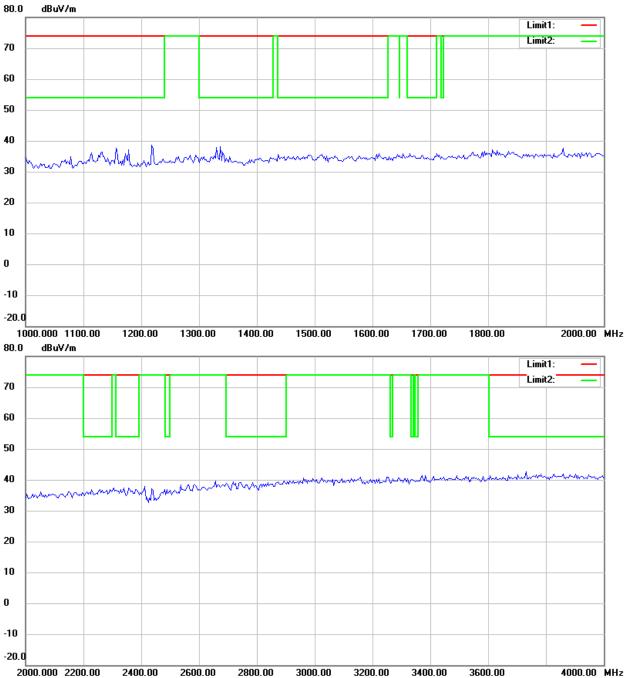


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M21006-10753-C-1

FCC ID: UAO-RFD-840W

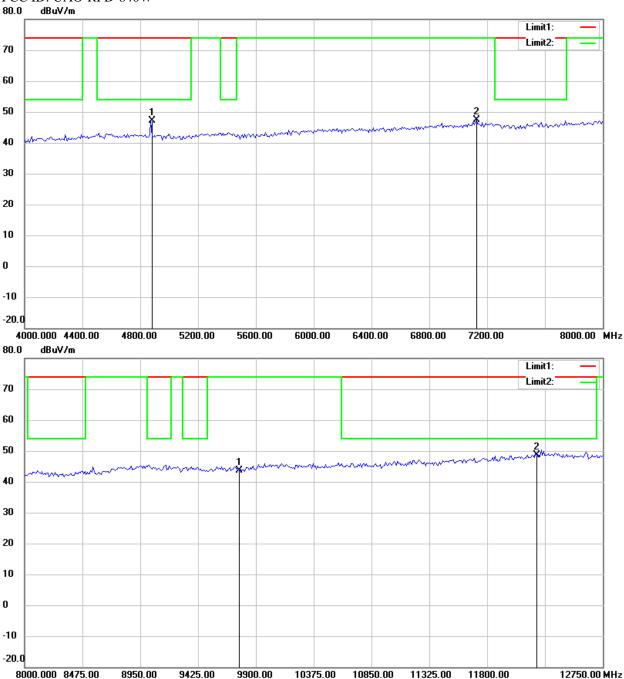


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



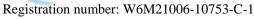
Registration number: W6M21006-10753-C-1

FCC ID: UAO-RFD-840W

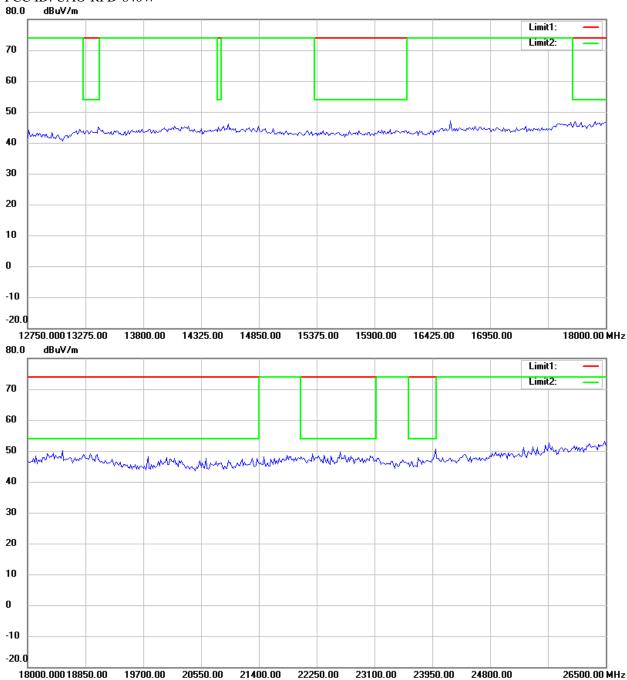


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





FCC ID: UAO-RFD-840W



- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.

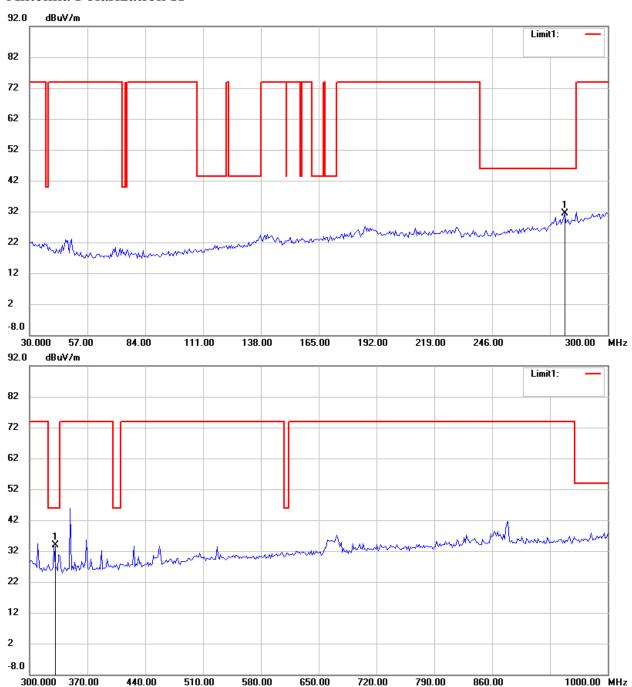


Registration number: W6M21006-10753-C-1

FCC ID: UAO-RFD-840W

TX-2472 MHz

Antenna Polarization H

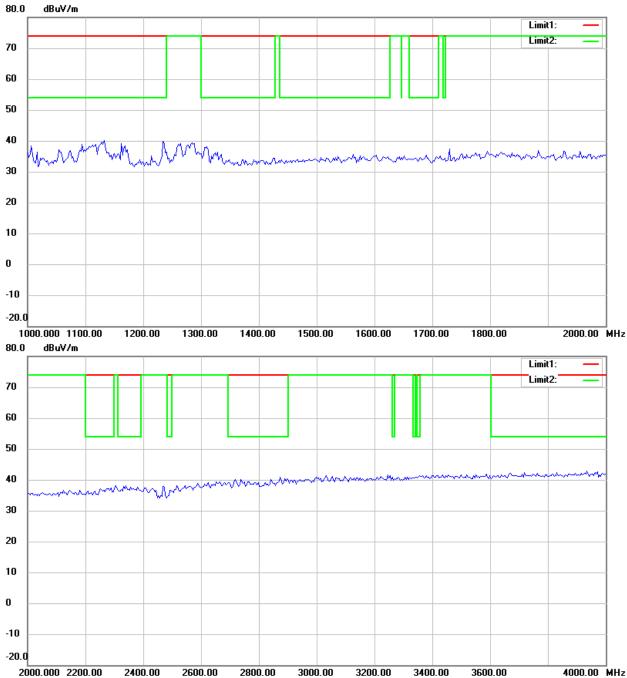


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M21006-10753-C-1

FCC ID: UAO-RFD-840W

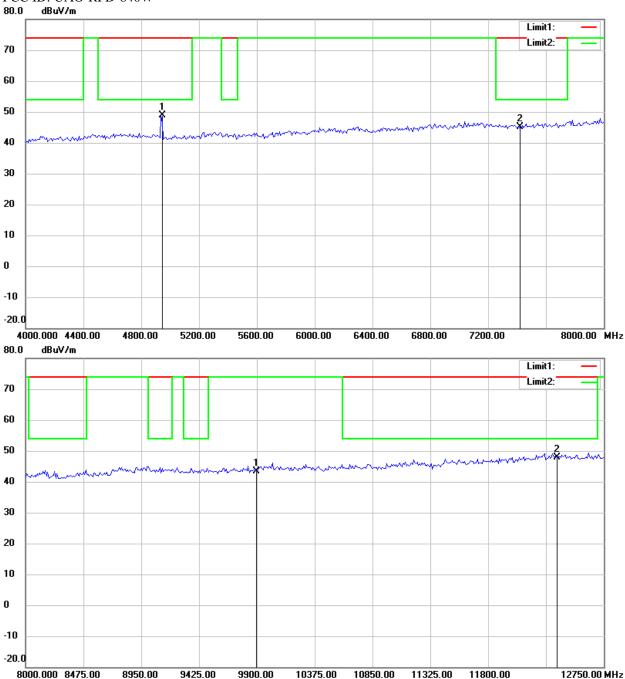


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- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
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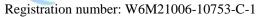
Registration number: W6M21006-10753-C-1

FCC ID: UAO-RFD-840W

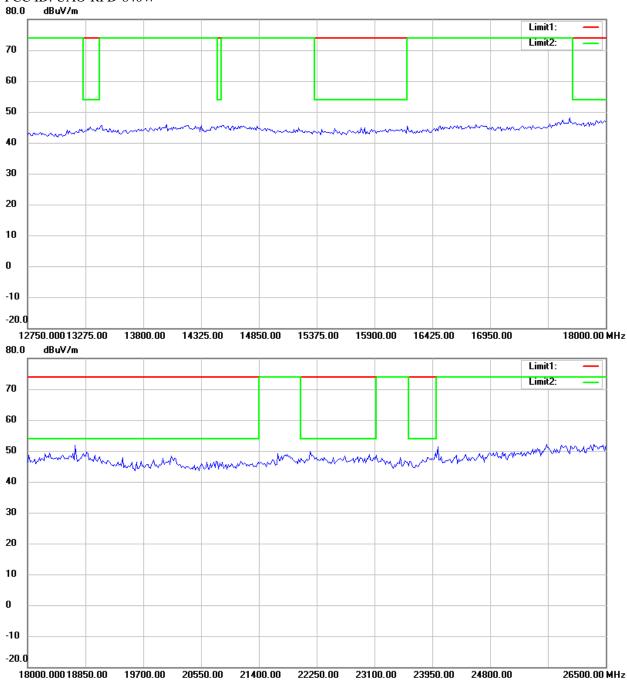


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FCC ID: UAO-RFD-840W

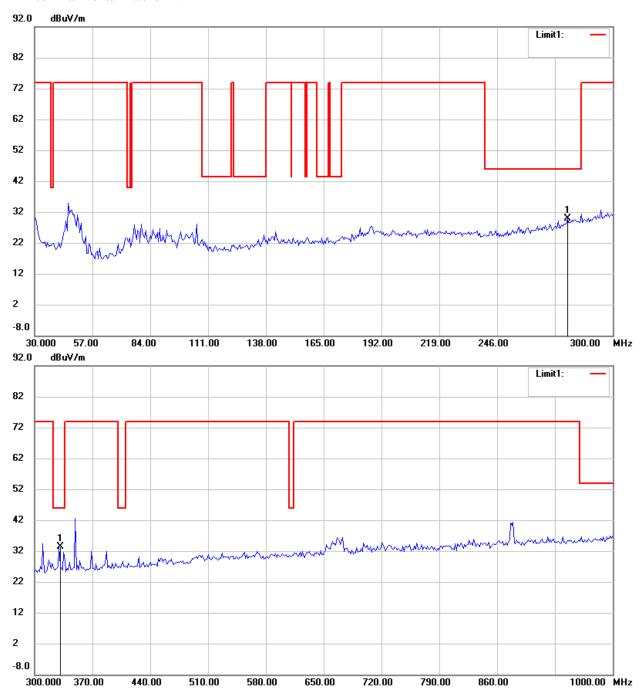


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
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Registration number: W6M21006-10753-C-1

FCC ID: UAO-RFD-840W Antenna Polarization V

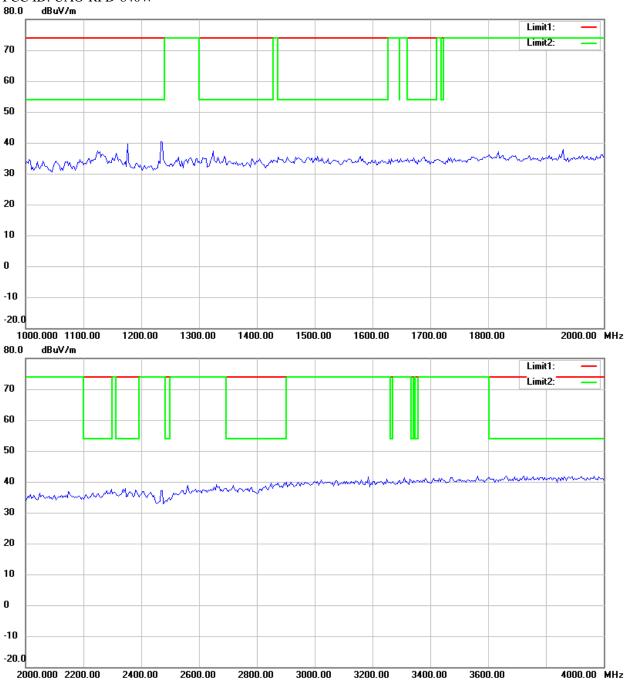


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M21006-10753-C-1

FCC ID: UAO-RFD-840W

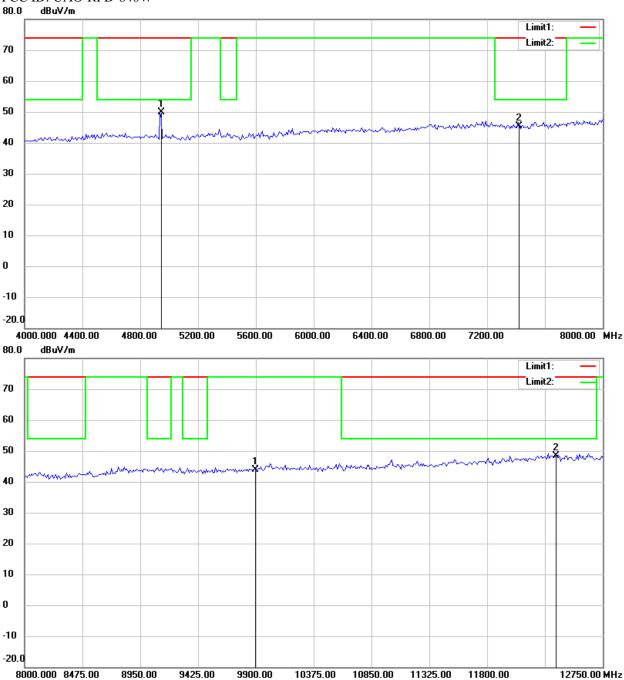


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



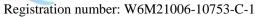
Registration number: W6M21006-10753-C-1

FCC ID: UAO-RFD-840W

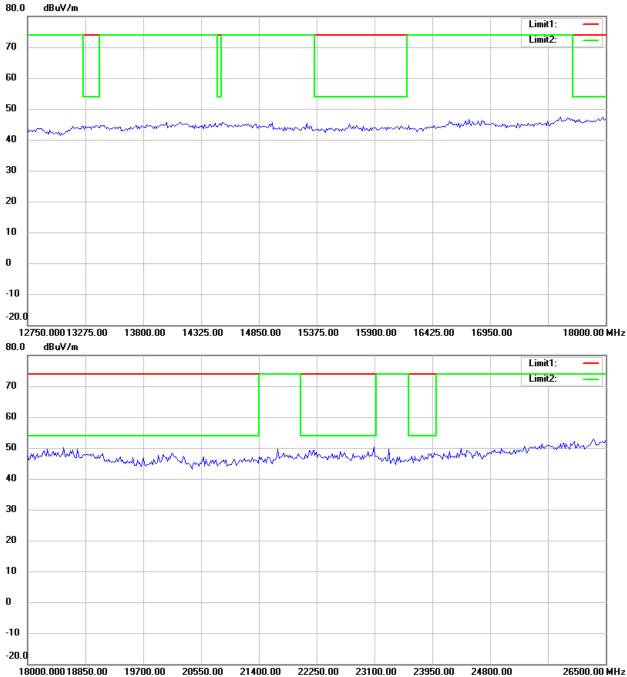


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.









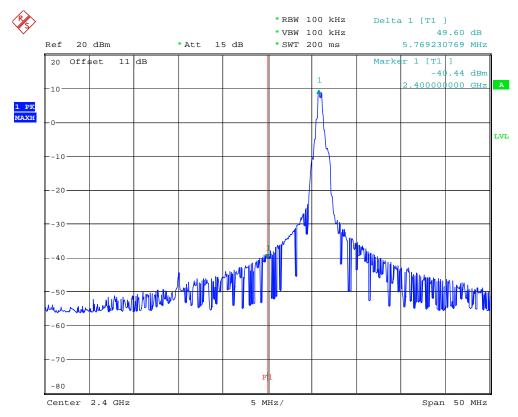
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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Registration number: W6M21006-10753-C-1

FCC ID: UAO-RFD-840W

Band Edge Measurement

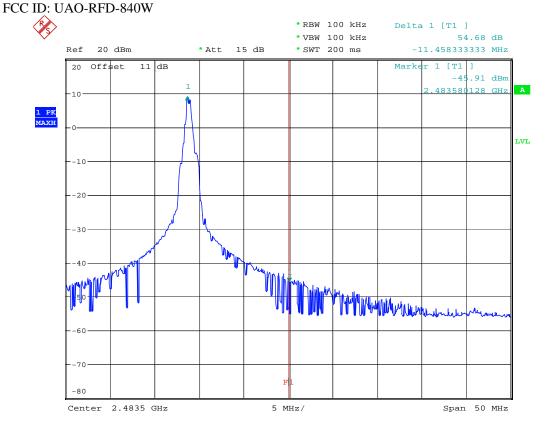


BANDEDGE LOW CHANNEL

Date: 13.AUG.2010 14:18:03



Registration number: W6M21006-10753-C-1



BANDEDGE HIGH CHANNEL

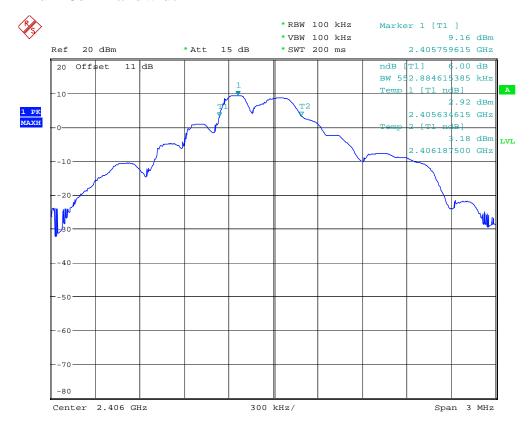
Date: 13.AUG.2010 14:08:58



Registration number: W6M21006-10753-C-1

FCC ID: UAO-RFD-840W

Minimum 6dB Bandwidth



6DB BANDWIDTH LOW CHANNEL Date: 13.AUG.2010 14:21:29



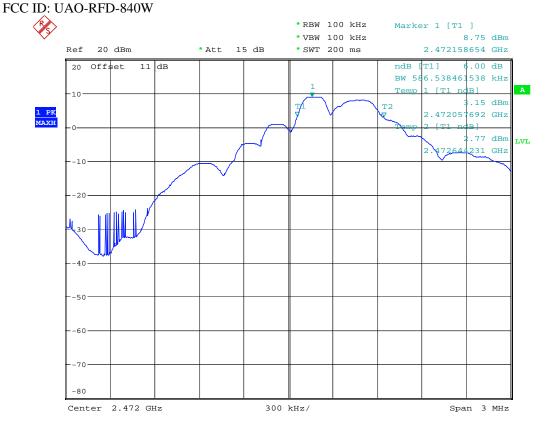
Registration number: W6M21006-10753-C-1



6DB BANDWIDTH MIDDLE CHANNEL Date: 13.AUG.2010 14:22:28



Registration number: W6M21006-10753-C-1



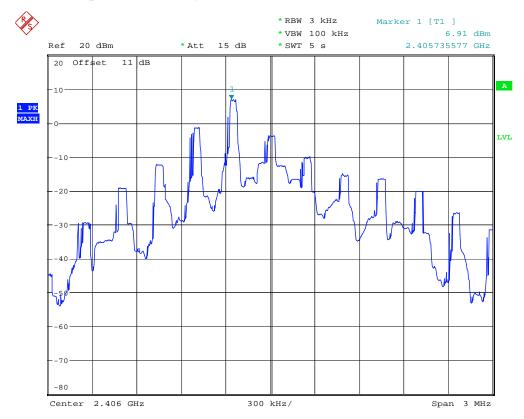
6DB BANDWIDTH HIGH CHANNEL Date: 13.AUG.2010 14:27:13



Registration number: W6M21006-10753-C-1

FCC ID: UAO-RFD-840W

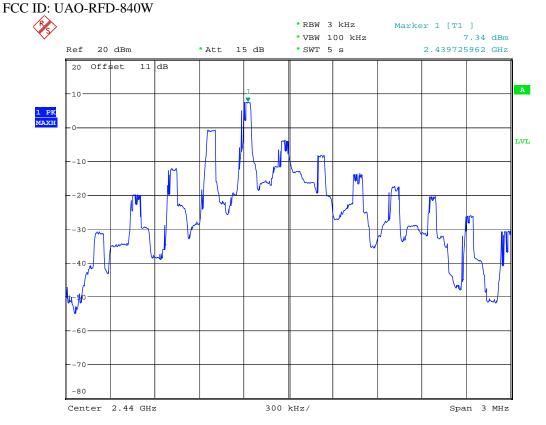
Peak Power Spectral Density



POWER DENSITY LOW CHANNEL Date: 13.AUG.2010 13:15:12



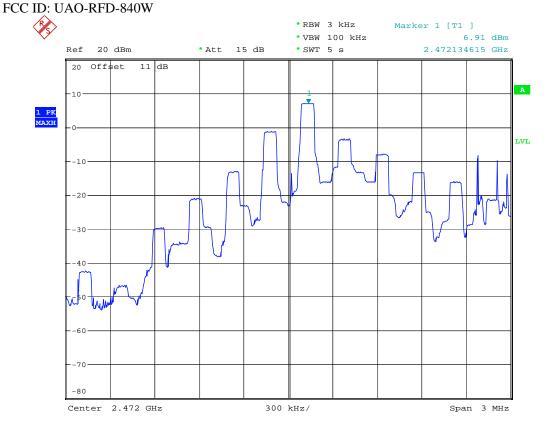
Registration number: W6M21006-10753-C-1



POWER DENSITY MIDDLE CHANNEL Date: 13.AUG.2010 13:16:33



Registration number: W6M21006-10753-C-1



POWER DENSITY HIGH CHANNEL Date: 13.AUG.2010 13:53:04