

FCC PART 15 SUBPART C TEST REPORT

for

Wireless Console

Model No.: C130

FCC ID: WBI-UFH-C130

of

Applicant: Yuhuan Edison Brasswork Inc.
Address: Yuhuan Mechanical & Electrical Industrial Zone,
Yuhuan, Zhejiang, China 317600

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.: W6M20805-9080-P-15



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1 General Information

1.1 Notes

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

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

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

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems.

The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

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

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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.

The test sample is able to work according IEEE 802.15.4.

This report is related to FCC Part 15.247.

Tester:

May 30, 2008

Jay Chaing

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

May 30, 2008

Steven Chuang

Date

WTS

Name

Signature



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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: 1983.02

FCC filed test laboratory Reg. No. 930600

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

1.3 Details of approval holder

| | |
|------------|---|
| Name: | Yuhuan Edison Brasswork Inc. |
| Street: | Yuhuan Mechanical & Electrical Industrial Zone, |
| Town: | Yuhuan, Zhejiang, |
| Country: | China 317600 |
| Telephone: | +86 576-8729 8766 |
| Fax: | +86 576 8729 8760 |



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1.4 Application details

Date of receipt of test item: May 13, 2008
Date of test: from May 14, 2008 to May 27, 2008

1.5 General information of Test item

Type of test item: Wireless Console
Model Number: C130
Brand Name: IDC, Seagull
Hardware: ./.
Software: ./.
Multi-listing model number: without
Photos: see Appendix

Technical data

Frequency band: 2400 MHz – 2483.5 MHz
Frequency (ch 1 or A): 2405 MHz
Frequency (ch 8 or B): 2440 MHz
Frequency (ch 16 or C): 2480 MHz
Number of Channels: 16
Operation modes: duplex
Modulation Type: O-QPSK
Fixed point-to-point operation: ☐ Yes / ☒ No
Type of Antenna: F-ANTENNA
Antenna gain: 2 dBi
Power supply: Adaptor (I/P: AC 100-240 V / 50-60 Hz / 0.3 A,
O/P: 12 Vdc / 400 mA)

Emission designator: 4M50G1D
Host device: none



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Classification :

| | |
|--|-------------------------------------|
| Fixed Device | <input checked="" type="checkbox"/> |
| Mobile Device (Human Body distance > 20cm) | <input type="checkbox"/> |
| Portable Device (Human Body distance < 20cm) | <input type="checkbox"/> |
| Modular Radio Device | <input type="checkbox"/> |

Transmitter

Unom

Power (ch 1 or A):

Conducted: 9.39 dBm

Power (ch 8 or B):

Conducted: 9.76 dBm

Power (ch 16 or C):

Conducted: 9.63 dBm

Manufacturer: (if different from applicant)

Name: ./.

Street: ./.

Town: ./.

Country: ./.

1.6 Test standards

Technical standard : FCC RULES PART 15 SUBPART B / SUBPART C § 15.247 (2007-10)



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2 Technical test

2.1 Summary of test results

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



or

The deviations as specified in 2.5 were ascertained in the course of the tests performed.



2.2 Test environment

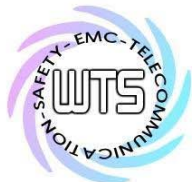
Temperature: 23 °C

Relative humidity content: 20 ... 75 %

Air pressure: 86 ... 103 kPa

Power supply: Adaptor (I/P: AC 100-240 V / 50-60 Hz / 0.3 A,
O/P: 12 Vdc / 400 mA)

Extreme conditions parameters: ./.

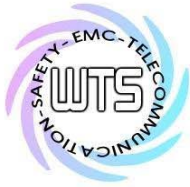


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2.3 Test Equipment List

| No. | Test equipment | Type | Serial No. | Manufacturer | Cal. Date | Next Cal. Date |
|--------------|---|-----------------|-------------|--------------|---------------|----------------|
| ETSTW-CE 001 | EMI TEST RECEIVER | ESHS10 | 842121/013 | R&S | 2007/10/15 | 2008/10/14 |
| ETSTW-CE 002 | PREREULATOR MODE DC POWER SUPPLY | None | None | | Function Test | |
| ETSTW-CE 003 | AC POWER SOURCE | APS-9102 | D161137 | GW | Function Test | |
| ETSTW-CE 004 | ZWEILEITER-V-NETZNACHBILDUNG TWO-LINE V-NETWORK | ESH3-Z5 | 840731/011 | R&S | 2007/10/15 | 2008/10/14 |
| ETSTW-CE 005 | Line-Impedance Stabilisation Network | NNBM 8126D | 137 | Schwarzbeck | 2007/10/15 | 2008/10/14 |
| ETSTW-CE 006 | IMPULSBEGRENZER PULSE LIMITER | ESH3-Z2 | 100226 | R&S | 2008/5/10 | 2009/5/09 |
| ETSTW-CE 008 | ABSORBING CLAMP | MDS 21 | 3469 | Schwarzbeck | 2007/10/23 | 2009/10/22 |
| ETSTW-CE 009 | TEMP.&HUMIDITY CHAMBER | GTH-225-40-1P-U | MAA0305-009 | GIANT FORCE | 2007/8/2 | 2008/8/1 |
| ETSTW-CE 013 | CISPR 22 TWO BALANCED TELECOM PAIRS IMPEDANCE STABILIZATION NETWORK | FCC-TLISN-T4-02 | 20242 | FCC | 2007/11/2 | 2009/11/1 |
| ETSTW-CE 014 | CISPR 22 TWO BALANCED TELECOM PAIRS IMPEDANCE STABILIZATION NETWORK | FCC-TLISN-T2-02 | 20241 | FCC | 2005/12/7 | 2008/12/6 |
| ETSTW-CE 015 | CISPR 22 TWO BALANCED TELECOM PAIRS IMPEDANCE STABILIZATION NETWORK | FCC-TLISN-T8-02 | 20307 | FCC | 2006/11/7 | 2008/11/6 |
| ETSTW-CE 016 | TWO-LINE V-NETWORK | ENV216 | 100050 | R&S | 2007/10/29 | 2008/10/28 |
| ETSTW-RE 002 | Function Generator | 33220A | MY43004982 | Agilent | 2007/10/12 | 2009/10/11 |
| ETSTW-RE 003 | EMI TEST RECEIVER | ESI 26 | 831438/001 | R&S | 2007/12/3 | 2008/12/2 |
| ETSTW-RE 004 | EMI TEST RECEIVER | ESI 40 | 832427/004 | R&S | 2007/10/29 | 2008/10/28 |
| ETSTW-RE 005 | EMI TEST RECEIVER | ESVS10 | 843207/020 | R&S | 2007/10/11 | 2008/10/12 |
| ETSTW-RE 010 | PROGRAMMABLE LINEAR POWER SUPPLY | LPS-305 | 30503070181 | MOTECH | Function Test | |
| ETSTW-RE 011 | PROGRAMMABLE LINEAR POWER SUPPLY | LPS-305 | 30503070165 | MOTECH | Function Test | |
| ETSTW-RE 017 | Log-Periodic Antenna | HL025 | 352886/001 | R&S | 2008/5/5 | 2010/5/4 |
| ETSTW-RE 018 | MICROWAVE HORN ANTENNA | AT4560 | 27212 | AR | 2007/11/7 | 2010/11/6 |
| ETSTW-RE 020 | MICROWAVE HORN ANTENNA | AT4002A | 306915 | AR | Function Test | |
| ETSTW-RE 021 | SWEEP GENERATOR | SWM05 | 835130/010 | R&S | 2007/10/9 | 2008/10/8 |
| ETSTW-RE 027 | Passive Loop Antenna | 6512 | 00034563 | EMCO | 2007/6/29 | 2008/6/28 |
| ETSTW-RE 028 | Log-Periodic DipoleArray Antenna | 3148 | 34429 | EMCO | 2008/4/23 | 2010/4/22 |
| ETSTW-RE 029 | Biconical Antenna | 3109 | 33524 | EMCO | 2008/4/23 | 2010/4/22 |
| ETSTW-RE 030 | Double-Ridged Guide Horn Antenna | 3117 | 00035224 | EMCO | 2008/3/26 | 2010/3/25 |



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| | | | | | | |
|--------------|--|---------------------|----------------|-------------|---------------|------------|
| ETSTW-RE 032 | Millivoltmeter | URV 55 | 849086/013 | R&S | 2007/10/9 | 2008/10/8 |
| ETSTW-RE 033 | WaveRunner 6000A Serie Oscilloscope | WAVERUNNER 6100A | LCRY0604P14508 | LeCroy | 2007/7/9 | 2008/7/8 |
| ETSTW-RE 034 | Power Sensor | URV5-Z4 | 839313/006 | R&S | 2007/10/16 | 2009/10/15 |
| ETSTW-RE 042 | Biconical Antenna | HK116 | 100172 | R&S | 2007/1/11 | 2009/1/10 |
| ETSTW-RE 043 | Log-Periodic Dipole Antenna | HL223 | 100166 | R&S | 2008/5/2 | 2010/5/1 |
| ETSTW-RE 044 | Log-Periodic Antenna | HL050 | 100094 | R&S | 2008/5/28 | 2010/5/27 |
| ETSTW-RE 047 | ESA-E SERIES SPECTRUM ANALYZER | E4445A | MY46181369 | Agilent | 2007/7/19 | 2008/7/18 |
| ETSTW-RE 048 | Triple Loop Antenna | HXYZ 9170 | HXYZ 9170-134 | Schwarzbeck | 2005/3/22 | 2009/3/21 |
| ETSTW-RE 049 | TRILOG Super Broadband test Antenna | VULB 9160 | 9160-3185 | Schwarzbeck | 2007/5/2 | 2009/5/1 |
| ETSTW-RE 055 | SPECTRUM ANALYZER | FSU-26 | 200074 | R&S | 2007/7/16 | 2008/7/15 |
| ETSTW-RE 064 | Bluetooth Test Set | MT8852B-042 | 6K00005709 | Anritsu | Function Test | |
| ETSTW-RE 072 | CELL SITE TEST SET | 8921A | 3339A00375 | HP | 2007/7/2 | 2009/7/1 |



2.4 General Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.4-2003 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 C63.4-2003 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 μ V) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB.

Example:

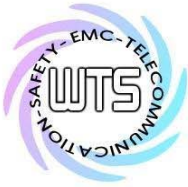
| | |
|------------|--|
| Freq (MHz) | METER READING + ACF + CABLE LOSS (to the receiver) = FS |
| 33 | 20 dB μ V + 10.36 dB + 6 dB = 36.36 dB μ V/m @3m |

The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m (non metallic table) and arranged according to ANSI C63.4-2003 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.



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

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

The formula is as follows:

Average = Peak + Duty Factor

Duty Factor = $20 \log (\text{dwell time}/T)$

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



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3 Test results (enclosure)

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

(The follows intended to leave blank.)



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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 condition | | Conducted Power | | |
|--------------------------------|--------------------------|-----------------|-----------|-----------|
| | | Channel A | Channel B | Channel C |
| $T_{nom} = 23^{\circ}\text{C}$ | $V_{nom} = 120\text{ V}$ | [dBm] | [dBm] | [dBm] |
| | | 9.39 | 9.76 | 9.63 |

| | |
|---|---|
| Test condition $T_{nom} = \text{--}^{\circ}\text{C}$, $V_{nom} = \text{-- V}$ | Signal Field strength TX highest power mode $\text{dB } \mu\text{V/m}$ |
| 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 $> 6\text{ dBi}$ and using fixed point-to point operation consider §15.247 (b)(4)

Test equipment used: ETSTW-RE 073 ETSTW-RE 74

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



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3.2 Equivalent isotropic radiated power

FCC Rule: 15.247(b)(3)

EIRP = max. conducted output power + antenna gain

EIRP = 9.76 dBm + 2 dBi

= 11.76 dBm

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

Test equipment used: ETSTW-RE 003 ETSTW-RE 004 ETSTW-RE 017 ETSTW-RE 021
ETSTW-RE 028 ETSTW-RE 030 ETSTW-RE 043 ETSTW-RE 044

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.

$$S = \frac{PG}{4\pi R^2}$$

S – Power Density

P – Output power ERP

R – Distance

D – Cable Loss

AG – Antenna Gain

| Item | Unit | Value | Remarks |
|------|--------------------|-------|------------------|
| P | mW | 9.47 | Peak value |
| D | dB | | |
| AG | dBi | 2 | |
| G | | 1.6 | Calculated Value |
| R | cm | 20 | Assumed value |
| S | mW/cm ² | 0.003 | Calculated value |

Limits:

| Limit for General Population / Uncontrolled Exposure | |
|--|--|
| Frequency (MHz) | Power Density (mW/cm ²) |
| 1500 – 100.000 | 1,0 |



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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 \leq 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 (MHz) | Field strength (microvolts/meter) | Field Strength (dB microvolts/meter) |
|--------------------------------|--------------------------------------|---|
| 30 - 88 | 100 | 40.0 |
| 88 - 216 | 150 | 43.5 |
| 216 - 960 | 200 | 46.0 |
| Above | 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 = $20 \log (\text{dwell time} / 100\text{ms})$

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

Explanation: see attached diagrams in Appendix.



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3.5 Spurious Emissions (tx)

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

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

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:

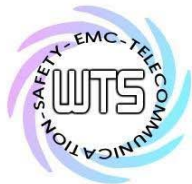
“If the emission is pulsed, modify the unit for continuous operation, use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.”

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 = $20 \log (\text{dwell time}/100\text{ms})$

Test equipment used: ETSTW-RE 004 ETSTW-RE 017 ETSTW-RE 028 ETSTW-RE 029 ETSTW-RE 030 ETSTW-RE 042 ETSTW-RE 043 ETSTW-RE 044

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



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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: C130 Date: 2008/5/19
Mode: ch low Temperature: 26 °C Engineer: Brian
Polarization: Horizontal Humidity: 60 %

| Frequency (MHz) | Reading (dBuV) | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|--------------------|-------------------|-------|-------------------------|------------------------|-------|-----------------------|-------|----------------|---------------------------|----------------------|
| | Peak | Ave. | | Peak | Ave. | Peak | Ave. | | | |
| 4810.146 | 54.42 | 37.77 | -1.30 | 53.12 | 36.47 | 74.00 | 54.00 | -17.53 | 120 | 150 |
| 7222.445 | 50.46 | --- | 1.88 | 52.34 | --- | 74.00 | 54.00 | -21.66 | 115 | 150 |
| 9620.000 | 21.28 | --- | 25.26 | 40.54 | --- | 74.00 | 54.00 | -33.46 | 165 | 150 |
| 12025.000 | 20.59 | --- | 29.36 | 43.95 | --- | 74.00 | 54.00 | -30.05 | 185 | 150 |
| 14430.000 | 19.85 | --- | 31.42 | 39.27 | --- | 74.00 | 54.00 | -34.73 | 125 | 150 |
| 16835.000 | 22.75 | --- | 32.50 | 43.25 | --- | 74.00 | 54.00 | -30.75 | 95 | 150 |

Polarization: Vertical

| Frequency (MHz) | Reading (dBuV) | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|--------------------|-------------------|------|-------------------------|------------------------|------|-----------------------|-------|----------------|---------------------------|----------------------|
| | Peak | Ave. | | Peak | Ave. | Peak | Ave. | | | |
| 4809.619 | 50.15 | --- | -1.30 | 48.85 | --- | 74.00 | 54.00 | -25.15 | 195 | 150 |
| 7222.445 | 60.21 | --- | 1.88 | 62.09 | --- | 74.00 | 54.00 | -11.91 | 220 | 150 |
| 9620.000 | 20.29 | --- | 25.26 | 39.55 | --- | 74.00 | 54.00 | -34.45 | 150 | 150 |
| 12025.000 | 19.39 | --- | 29.36 | 42.75 | --- | 74.00 | 54.00 | -31.25 | 140 | 150 |
| 14430.000 | 20.16 | --- | 31.42 | 39.58 | --- | 74.00 | 54.00 | -34.42 | 315 | 150 |
| 16835.000 | 21.71 | --- | 32.50 | 42.21 | --- | 74.00 | 54.00 | -31.79 | 120 | 150 |



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20805-9080-P-15

FCC ID: WBI-UFH-C130

Mode: ch middle

Polarization: Horizontal

| Frequency (MHz) | Reading (dBuV) | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|--------------------|-------------------|-------|-------------------------|------------------------|-------|-----------------------|-------|----------------|---------------------------|----------------------|
| | Peak | Ave. | | Peak | Ave. | Peak | Ave. | | | |
| 4880.068 | 52.42 | 37.78 | -1.30 | 51.12 | 36.48 | 74.00 | 54.00 | -17.52 | 205 | 150 |
| 7326.653 | 59.03 | 40.25 | 1.85 | 60.88 | 42.10 | 74.00 | 54.00 | -11.90 | 210 | 150 |
| 9760.000 | 20.72 | --- | 25.00 | 39.72 | --- | 74.00 | 54.00 | -34.28 | 125 | 150 |
| 12200.000 | 20.79 | --- | 29.78 | 44.57 | --- | 74.00 | 54.00 | -29.43 | 190 | 150 |
| 14640.000 | 20.91 | --- | 32.19 | 41.10 | --- | 74.00 | 54.00 | -32.90 | 120 | 150 |
| 17080.000 | 21.11 | --- | 33.22 | 42.33 | --- | 74.00 | 54.00 | -31.67 | 195 | 150 |

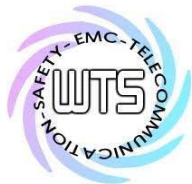
Polarization: Vertical

| Frequency (MHz) | Reading (dBuV) | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|--------------------|-------------------|-------|-------------------------|------------------------|-------|-----------------------|-------|----------------|---------------------------|----------------------|
| | Peak | Ave. | | Peak | Ave. | Peak | Ave. | | | |
| 4879.998 | 53.80 | 38.02 | -1.30 | 52.50 | 36.72 | 74.00 | 54.00 | -17.28 | 50 | 150 |
| 7321.202 | 53.43 | 39.30 | 1.84 | 55.27 | 41.14 | 74.00 | 54.00 | -12.86 | 315 | 150 |
| 9760.000 | 20.74 | --- | 25.00 | 39.74 | --- | 74.00 | 54.00 | -34.26 | 85 | 150 |
| 12200.000 | 20.85 | --- | 29.78 | 44.63 | --- | 74.00 | 54.00 | -29.37 | 100 | 150 |
| 14640.000 | 20.46 | --- | 32.19 | 40.65 | --- | 74.00 | 54.00 | -33.35 | 125 | 150 |
| 17080.000 | 20.15 | --- | 33.22 | 41.37 | --- | 74.00 | 54.00 | -32.63 | 230 | 150 |

Mode: ch high

Polarization: Horizontal

| Frequency (MHz) | Reading (dBuV) | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|--------------------|-------------------|-------|-------------------------|------------------------|-------|-----------------------|-------|----------------|---------------------------|----------------------|
| | Peak | Ave. | | Peak | Ave. | Peak | Ave. | | | |
| 4961.924 | 49.65 | --- | -1.05 | 48.60 | --- | 74.00 | 54.00 | -25.40 | 95 | 150 |
| 7441.345 | 58.52 | 39.63 | 1.79 | 60.31 | 41.42 | 74.00 | 54.00 | -12.58 | 60 | 150 |
| 9920 | 22.24 | --- | 26.04 | 42.28 | --- | 74.00 | 54.00 | -31.72 | 130 | 150 |
| 12400 | 21.02 | --- | 30.26 | 45.28 | --- | 74.00 | 54.00 | -28.72 | 155 | 150 |
| 14880 | 20.67 | --- | 32.86 | 41.53 | --- | 74.00 | 54.00 | -32.47 | 195 | 150 |
| 17360 | 22.2 | --- | 34.34 | 44.54 | --- | 74.00 | 54.00 | -29.46 | 185 | 150 |



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20805-9080-P-15

FCC ID: WBI-UFH-C130

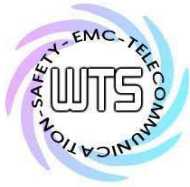
Polarization: Vertical

| Frequency (MHz) | Reading (dBuV) | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|--------------------|-------------------|-------|-------------------------|------------------------|-------|-----------------------|-------|----------------|---------------------------|----------------------|
| | Peak | Ave. | | Peak | Ave. | Peak | Ave. | | | |
| 4953.908 | 53.90 | --- | -1.08 | 52.82 | --- | 74.00 | 54.00 | -21.18 | 195 | 150 |
| 7438.976 | 58.69 | 39.80 | 1.81 | 60.50 | 41.61 | 74.00 | 54.00 | -12.39 | 320 | 150 |
| 9920.000 | 21.64 | --- | 26.04 | 41.68 | --- | 74.00 | 54.00 | -32.32 | 150 | 150 |
| 12400.000 | 21.82 | --- | 30.26 | 46.08 | --- | 74.00 | 54.00 | -27.92 | 145 | 150 |
| 14880.000 | 22.03 | --- | 32.86 | 42.89 | --- | 74.00 | 54.00 | -31.11 | 75 | 150 |
| 17360.000 | 21.46 | --- | 34.34 | 43.80 | --- | 74.00 | 54.00 | -30.20 | 175 | 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-RE003 ETSTW-RE 004 ETSTW-RE 017 ETSTW-RE 028
ETSTW-RE029 ETSTW-RE 030 ETSTW-RE 042 ETSTW-RE 043 ETSTW-RE 044



Registration number: W6M20805-9080-P-15
FCC ID: WBI-UFH-C130

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 |
| $T_{nom} = 23^{\circ}\text{C}$ | $V_{nom} = 120\text{ V}$ | 39.88 dB | 40.35 dB |

Limit:

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

Test equipment used: ETSTW-RE 003 ETSTW-RE 004 ETSTW-RE 017 ETSTW-RE 028
ETSTW-RE 030 ETSTW-RE 043 ETSTW-RE 044

Explanation: Please see attached diagram as appendix.



Registration number: W6M20805-9080-P-15
FCC ID: WBI-UFH-C130

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 A | Channel B | Channel C |
| $T_{nom} = 23^{\circ}\text{C}$ | $V_{nom} = 120\text{ V}$ | 1.634615385 MHz | 1.634615385 MHz | 1.666666667 MHz |

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 003 ETSTW-RE 004 ETSTW-RE 055

Explanation: see attached diagrams in Appendix.

Registration number: W6M20805-9080-P-15

FCC ID: WBI-UFH-C130

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.

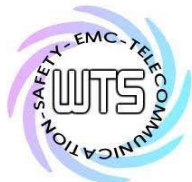
| Test conditions | | Peak Power Spectral Density (3 kHz) | | |
|--------------------------------|---------------------------|-------------------------------------|--------------------|--------------------|
| | | Channel A [dBm] | Channel B [dBm] | Channel C [dBm] |
| $T_{nom} = 23^{\circ}\text{C}$ | $V_{nom} = 120 \text{ V}$ | -5.46 | -4.52 | -4.04 |

Limits:

| Frequency Range MHz | dBm |
|------------------------|-----|
| 902-928 | 8 |
| 2400-2483,5 | 8 |
| 5725-5850 | 8 |

Test equipment used: ETSTW-RE 003 ETSTW-RE 004 ETSTW-RE 055

Explanation: see attached diagrams in Appendix.



Registration number: W6M20805-9080-P-15

FCC ID: WBI-UFH-C130

3.9 Radiated Emission from Receiver Part

FCC Rule: 15.109

Model: C130

Date: 2008/5/19

Mode: ch low RX mode

Temperature: 26 °C

Engineer: Brian

Polarization: Horizontal

Humidity: 60 %

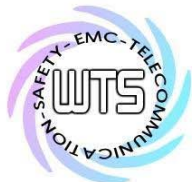
| Frequency (MHz) | Reading (dBuV) | Detector | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|-----------------|----------------|----------|-------------|-----------------|----------------|-------------|---------------------|----------------|
| 139.840 | 26.47 | QP | 14.81 | 41.28 | 43.50 | -2.22 | 195 | 150 |
| 198.818 | 24.21 | peak | 12.21 | 36.42 | 43.50 | -7.08 | 130 | 150 |
| 588.978 | 22.51 | QP | 21.84 | 44.35 | 46.00 | -1.65 | 195 | 150 |
| 701.202 | 19.59 | QP | 23.46 | 43.05 | 46.00 | -2.95 | 160 | 150 |

| Frequency (MHz) | Reading (dBuV) | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|-----------------|----------------|------|-------------------|---------------------|------|--------------------|-------|-------------|---------------------|----------------|
| | Peak | Ave. | | Peak | Ave. | Peak | Ave. | | | |
| 2100.200 | 49.41 | --- | -6.80 | 42.61 | --- | 74.00 | 54.00 | -31.39 | 190 | 150 |
| 2382.766 | 47.11 | --- | -5.19 | 41.92 | --- | 74.00 | 54.00 | -32.08 | 225 | 150 |

Polarization: Vertical

| Frequency (MHz) | Reading (dBuV) | Detector | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|-----------------|----------------|----------|-------------|-----------------|----------------|-------------|---------------------|----------------|
| 46.774 | 23.82 | QP | 13.63 | 37.45 | 40.00 | -2.55 | 165 | 150 |
| 140.381 | 26.57 | QP | 14.84 | 41.41 | 43.50 | -2.09 | 170 | 150 |
| 361.723 | 20.30 | peak | 16.74 | 37.04 | 46.00 | -8.96 | 110 | 150 |
| 981.764 | 14.21 | peak | 27.28 | 41.49 | 54.00 | -12.51 | 220 | 150 |

| Frequency (MHz) | Reading (dBuV) | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|-----------------|----------------|------|-------------------|---------------------|------|--------------------|-------|-------------|---------------------|----------------|
| | Peak | Ave. | | Peak | Ave. | Peak | Ave. | | | |
| 2100.200 | 48.22 | --- | -6.80 | 41.42 | --- | 74.00 | 54.00 | -32.58 | 240 | 150 |
| 2382.766 | 47.51 | --- | -5.19 | 42.32 | --- | 74.00 | 54.00 | -31.68 | 245 | 150 |



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20805-9080-P-15

FCC ID: WBI-UFH-C130

Mode: ch middle RX mode

Polarization: Horizontal

| Frequency (MHz) | Reading (dBuV) | Detector | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|-----------------|----------------|----------|-------------|-----------------|----------------|-------------|---------------------|----------------|
| 139.840 | 26.24 | QP | 14.81 | 41.05 | 43.50 | -2.45 | 250 | 150 |
| 216.132 | 26.86 | peak | 12.45 | 39.31 | 46.00 | -6.69 | 255 | 150 |
| 559.519 | 20.24 | peak | 21.04 | 41.28 | 46.00 | -4.72 | 135 | 150 |
| 701.202 | 19.09 | peak | 23.46 | 42.55 | 46.00 | -3.45 | 235 | 150 |

| Frequency (MHz) | Reading (dBuV) | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|-----------------|----------------|------|-------------------|---------------------|------|--------------------|-------|-------------|---------------------|----------------|
| | Peak | Ave. | | Peak | Ave. | Peak | Ave. | | | |
| 1120.241 | 52.52 | --- | -13.80 | 38.72 | --- | 74.00 | 54.00 | -35.28 | 125 | 150 |
| 2100.200 | 50.46 | --- | -6.80 | 43.66 | --- | 74.00 | 54.00 | -30.34 | 220 | 150 |

Polarization: Vertical

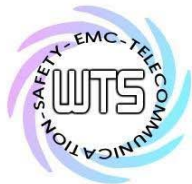
| Frequency (MHz) | Reading (dBuV) | Detector | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|-----------------|----------------|----------|-------------|-----------------|----------------|-------------|---------------------|----------------|
| 43.527 | 23.81 | QP | 13.65 | 37.46 | 40.00 | -2.54 | 165 | 150 |
| 140.381 | 26.75 | QP | 14.84 | 41.59 | 43.50 | -1.91 | 195 | 150 |
| 337.876 | 21.62 | peak | 16.30 | 37.92 | 46.00 | -8.08 | 125 | 150 |
| 542.685 | 14.89 | peak | 20.57 | 35.46 | 46.00 | -10.54 | 220 | 150 |

| Frequency (MHz) | Reading (dBuV) | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|-----------------|----------------|------|-------------------|---------------------|------|--------------------|-------|-------------|---------------------|----------------|
| | Peak | Ave. | | Peak | Ave. | Peak | Ave. | | | |
| 2382.765 | 47.98 | --- | -5.19 | 42.79 | --- | 74.00 | 54.00 | -31.21 | 195 | 150 |
| 2659.319 | 46.62 | --- | -4.22 | 42.40 | --- | 74.00 | 54.00 | -31.60 | 290 | 150 |

Mode: ch high RX mode

Polarization: Horizontal

| Frequency (MHz) | Reading (dBuV) | Detector | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|-----------------|----------------|----------|-------------|-----------------|----------------|-------------|---------------------|----------------|
| 140.381 | 26.96 | QP | 14.84 | 41.80 | 43.50 | -1.70 | 115 | 150 |
| 151.743 | 24.82 | peak | 15.40 | 40.22 | 43.50 | -3.28 | 200 | 150 |
| 560.922 | 20.47 | peak | 21.07 | 41.54 | 46.00 | -4.46 | 150 | 150 |
| 701.202 | 18.83 | peak | 23.46 | 42.29 | 46.00 | -3.71 | 260 | 150 |



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20805-9080-P-15

FCC ID: WBI-UFH-C130

| Frequency (MHz) | Reading (dBuV) | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|--------------------|-------------------|------|-------------------------|------------------------|------|-----------------------|-------|----------------|---------------------------|----------------------|
| | Peak | Ave. | | Peak | Ave. | Peak | Ave. | | | |
| 1120.241 | 52.62 | --- | -13.80 | 38.82 | --- | 74.00 | 54.00 | -35.18 | 140 | 150 |
| 2100.200 | 49.11 | --- | -6.80 | 42.31 | --- | 74.00 | 54.00 | -31.69 | 95 | 150 |

Polarization: Vertical

| Frequency (MHz) | Reading (dBuV) | Detector | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|--------------------|-------------------|----------|----------------|--------------------|-------------------|----------------|---------------------------|----------------------|
| 48.397 | 24.09 | QP | 13.58 | 37.67 | 40.00 | -2.33 | 130 | 150 |
| 140.381 | 23.57 | peak | 14.84 | 38.41 | 43.50 | -5.09 | 115 | 150 |
| 701.202 | 12.09 | peak | 23.46 | 35.55 | 46.00 | -10.45 | 330 | 150 |
| 841.483 | 10.72 | peak | 25.58 | 36.30 | 46.00 | -9.70 | 160 | 150 |

| Frequency (MHz) | Reading (dBuV) | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|--------------------|-------------------|------|-------------------------|------------------------|------|-----------------------|-------|----------------|---------------------------|----------------------|
| | Peak | Ave. | | Peak | Ave. | Peak | Ave. | | | |
| 2100.200 | 48.46 | --- | -6.80 | 41.66 | --- | 74.00 | 54.00 | -32.34 | 150 | 150 |
| 2382.766 | 48.27 | --- | -5.19 | 43.08 | --- | 74.00 | 54.00 | -30.92 | 190 | 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.**

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

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

Test equipment used: ETSTW-RE 003 ETSTW-RE 004 ETSTW-RE 017 ETSTW-RE 028 ETSTW-RE 029
ETSTW-RE 030 ETSTW-RE 042 ETSTW-RE 043 ETSTW-RE 044

Explanation: see attached diagrams in Appendix.



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.

| Frequency | Level (dB μ V) | |
|-----------|--------------------|------------------|
| | quasi-peak | average |
| 150 kHz | lower limit line | Lower limit line |

Model: C130 Date: 2008/5/19
 Mode: Temperature: 26 °C Engineer: Brian
 Polarization: N Humidity: 60 %

| Frequency (MHz) | Reading (dB μ V) | | Factor (dB) Corr. | Result (dB μ V) | | Limit (dB μ V) | | Margin (dB) |
|--------------------|-------------------------|-------|-------------------------|------------------------|-------|-----------------------|-------|----------------|
| | QP | Ave. | | QP | Ave. | QP | Ave. | |
| 0.2426 | 26.85 | 18.48 | 10.10 | 36.95 | 28.58 | 62.01 | 52.01 | -23.43 |
| 0.3592 | 31.23 | 25.93 | 10.10 | 41.33 | 36.03 | 58.75 | 48.75 | -12.72 |
| 0.4222 | 33.99 | 28.34 | 10.10 | 44.09 | 38.44 | 57.40 | 47.40 | -8.96 |
| 0.7850 | 28.95 | 18.58 | 10.10 | 39.05 | 28.68 | 56.00 | 46.00 | -16.95 |
| 1.0850 | 26.01 | 12.28 | 10.10 | 36.11 | 22.38 | 56.00 | 46.00 | -19.89 |
| 2.2300 | 26.75 | 16.72 | 10.10 | 36.85 | 26.82 | 56.00 | 46.00 | -19.15 |

Polarization: L1

| Frequency (MHz) | Reading (dB μ V) | | Factor (dB) Corr. | Result (dB μ V) | | Limit (dB μ V) | | Margin (dB) |
|--------------------|-------------------------|-------|-------------------------|------------------------|-------|-----------------------|-------|----------------|
| | QP | Ave. | | QP | Ave. | QP | Ave. | |
| 0.1819 | 27.89 | 21.63 | 10.10 | 37.99 | 31.73 | 64.40 | 54.40 | -22.67 |
| 0.3627 | 33.73 | 28.32 | 10.10 | 43.83 | 38.42 | 58.67 | 48.67 | -10.25 |
| 0.4242 | 34.70 | 28.27 | 10.10 | 44.80 | 38.37 | 57.37 | 47.37 | -9.00 |
| 0.7850 | 30.50 | 20.16 | 10.10 | 40.60 | 30.26 | 56.00 | 46.00 | -15.40 |
| 1.2050 | 29.80 | 22.86 | 10.10 | 39.90 | 32.96 | 56.00 | 46.00 | -13.04 |
| 2.2300 | 29.84 | 20.72 | 10.10 | 39.94 | 30.82 | 56.00 | 46.00 | -15.18 |



Registration number: W6M20805-9080-P-15
FCC ID: WBI-UFH-C130

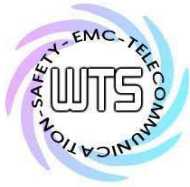
Note: 1. The formula of measured value as: $\text{Test Result} = \text{Reading} + \text{Correction Factor}$
2. The Correction Factor = Cable Loss + LISN Insertion Loss + Pulse Limit Loss
3. Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average
4. All not in the table noted test results are more than 20 dB below the relevant limits.

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 003 ETSTW-CE 004 ETSTW-CE 006 ETSTW-CE 011

Explanation: see attached diagrams in Appendix.



Appendix

A Measurement diagrams

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

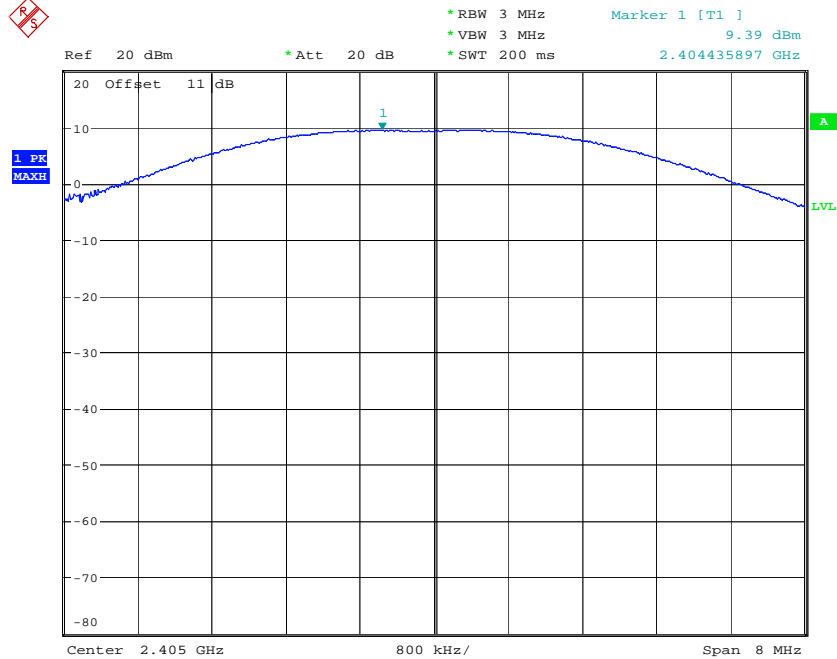
B Photos

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

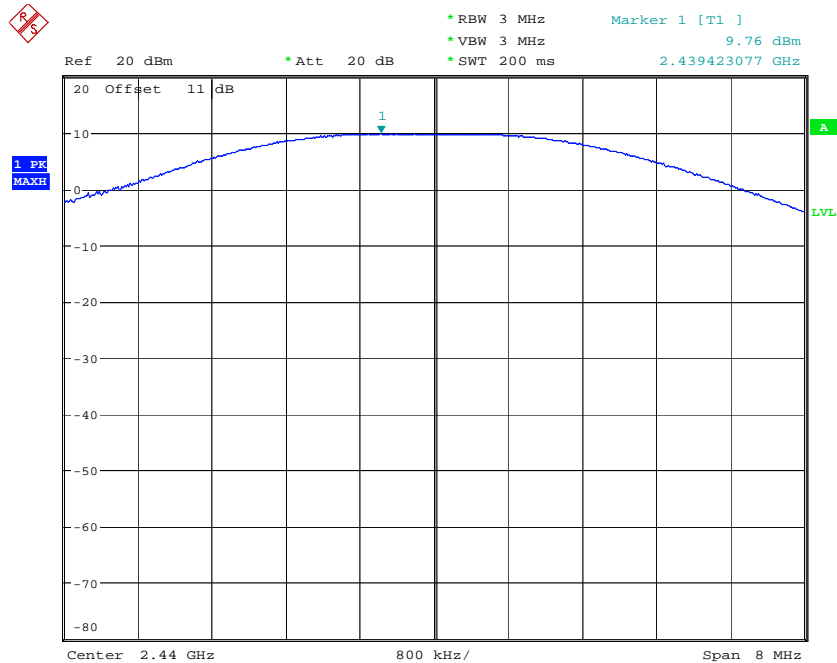


Registration number: W6M20805-9080-P-15
FCC ID: WBI-UFH-C130

Peak Output Power



MAX OUTPUT POWER CH LOW
Date: 26.MAY.2008 09:01:06

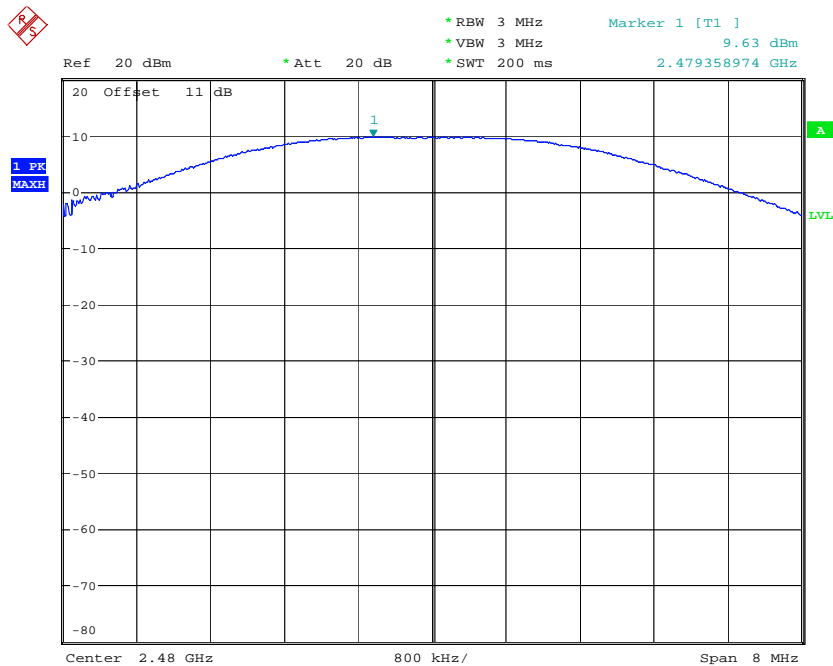


MAX OUTPUT POWER CH MIDDLE
Date: 26.MAY.2008 09:06:30



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20805-9080-P-15
FCC ID: WBI-UFH-C130

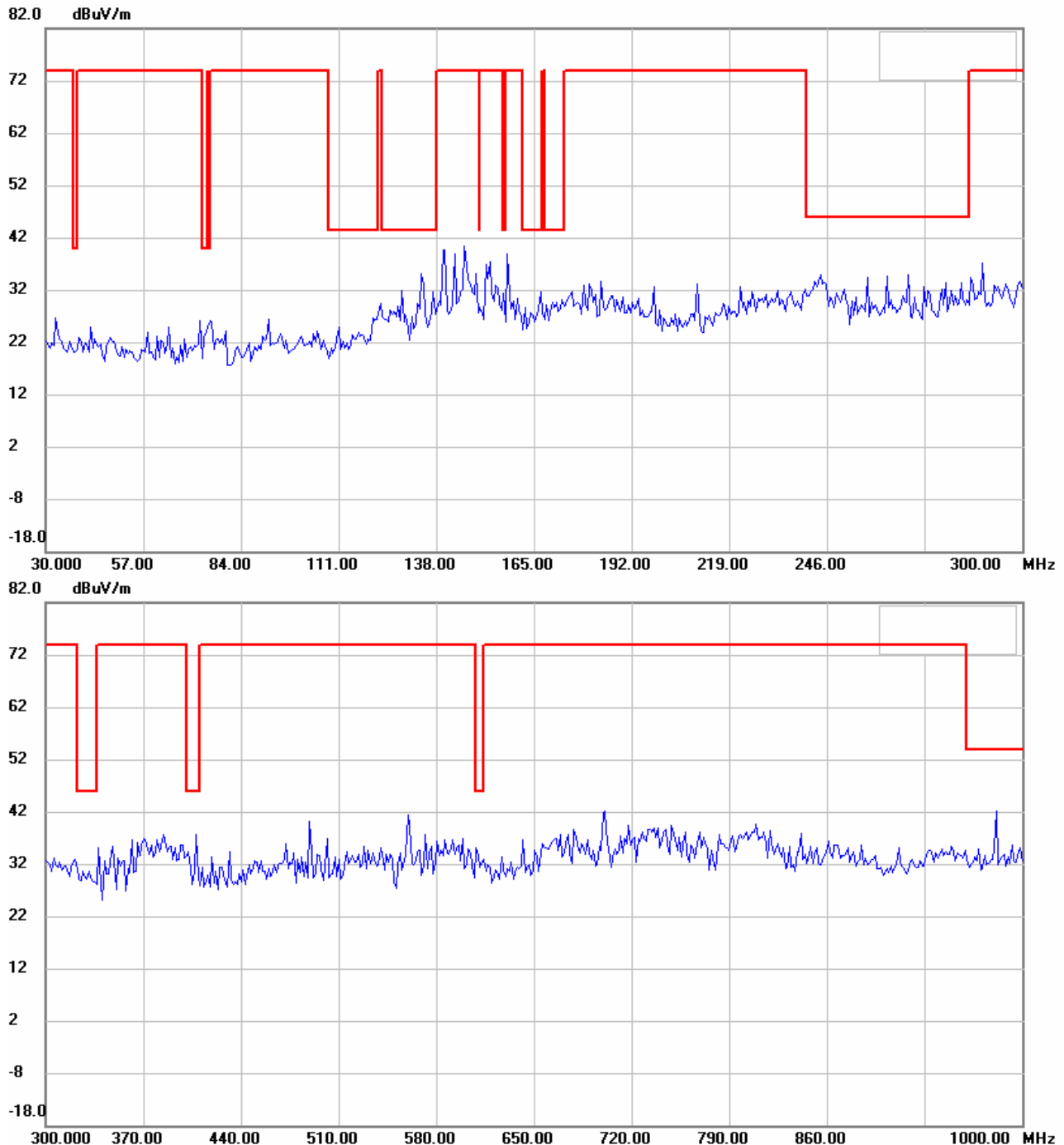


MAX OUTPUT POWER CH HIGH
Date: 26.MAY.2008 09:23:21



Registration number: W6M20805-9080-P-15
FCC ID: WBI-UFH-C130

Spurious Emissions radiated
TX Mode_CH 1
Antenna Polarization H



Up Line: Peak Limit Line
Down Line: Ave Limit Line

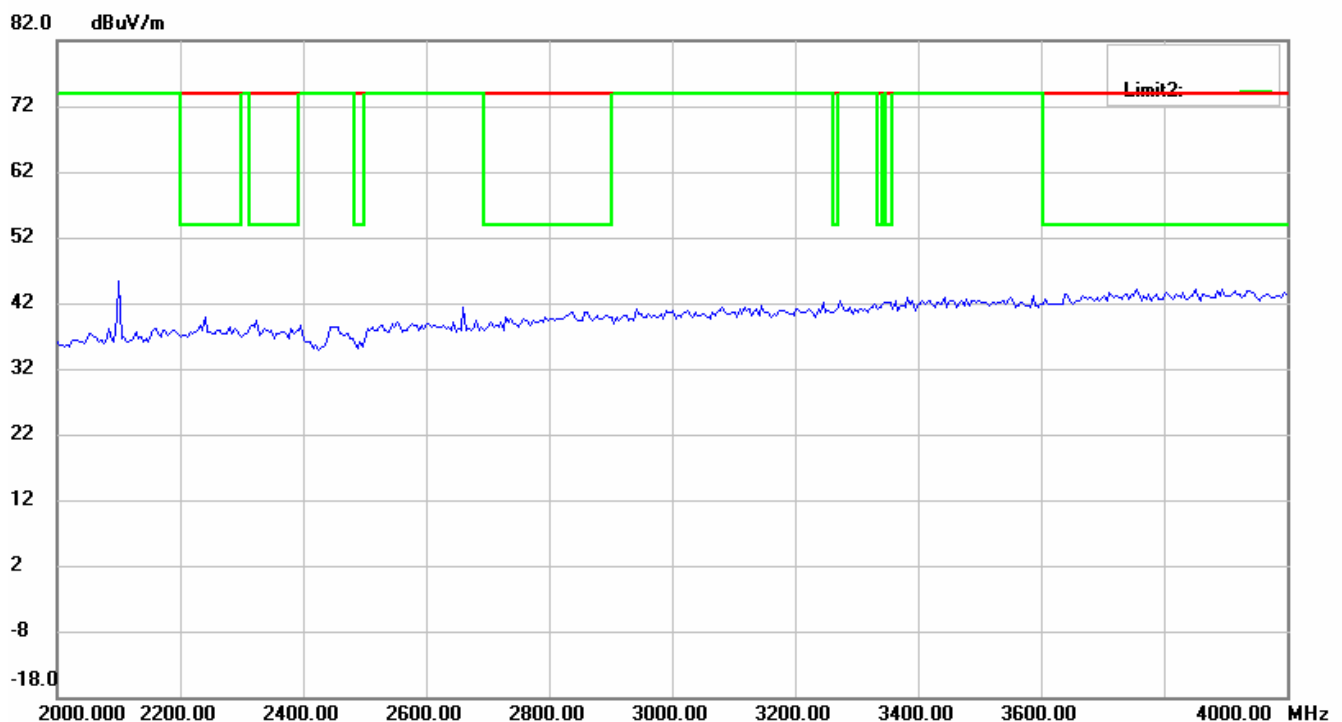
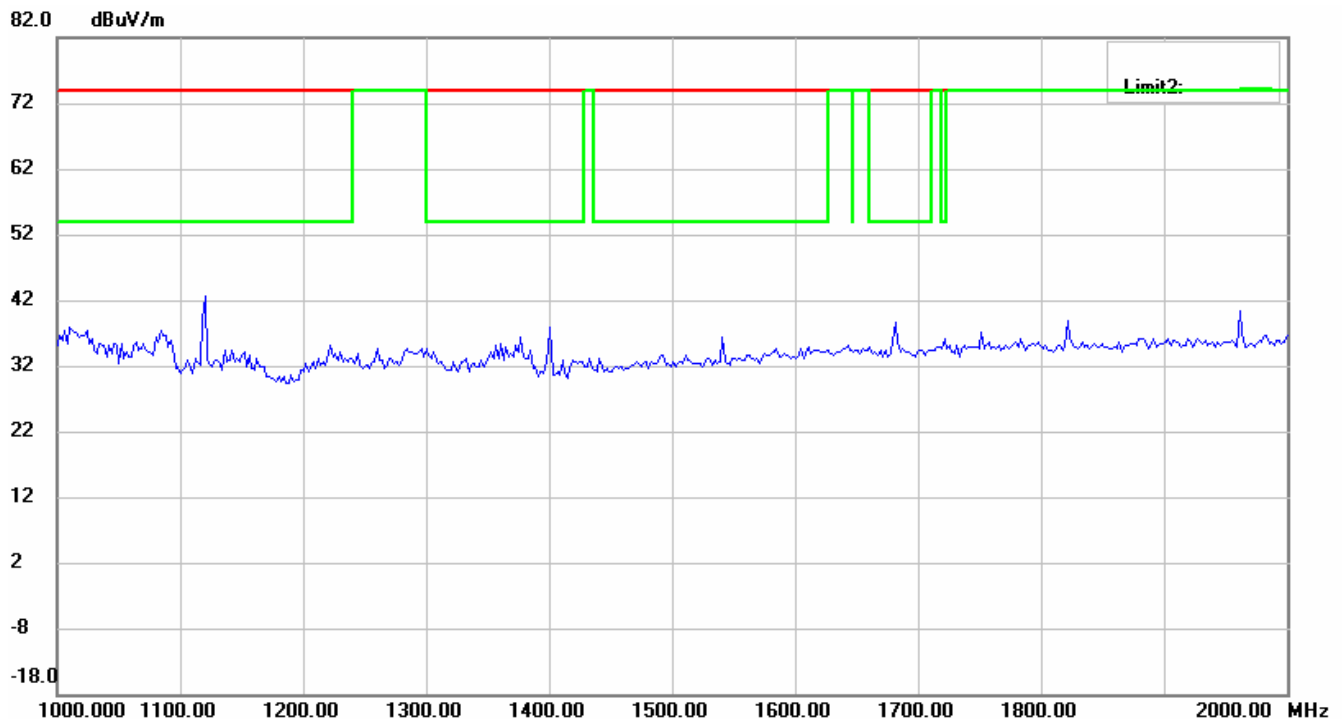
Note:

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: W6M20805-9080-P-15

FCC ID: WBI-UFH-C130



Up Line: Peak Limit Line

Down Line: Ave Limit Line

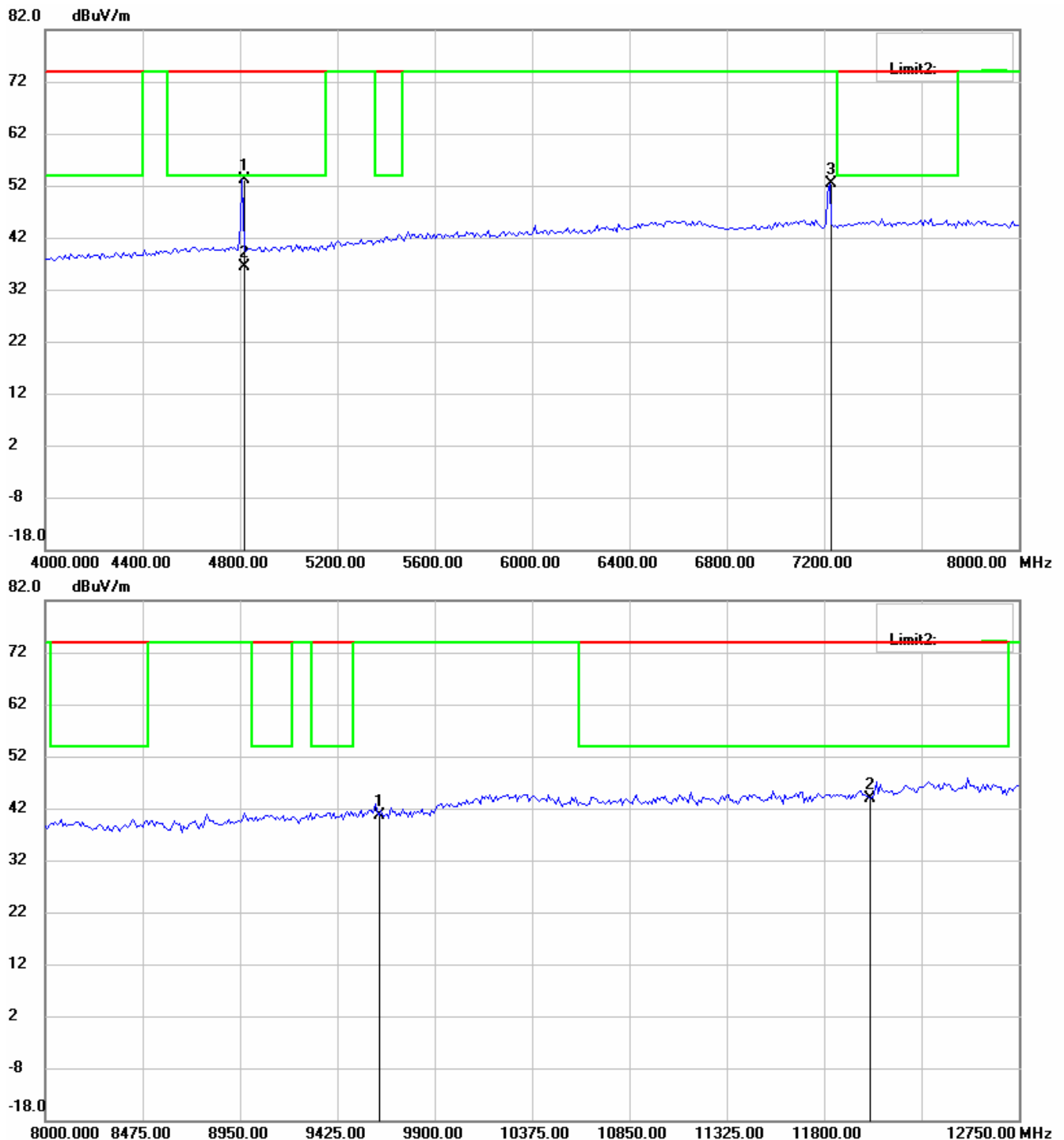
Note:

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.



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20805-9080-P-15
FCC ID: WBI-UFH-C130



Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

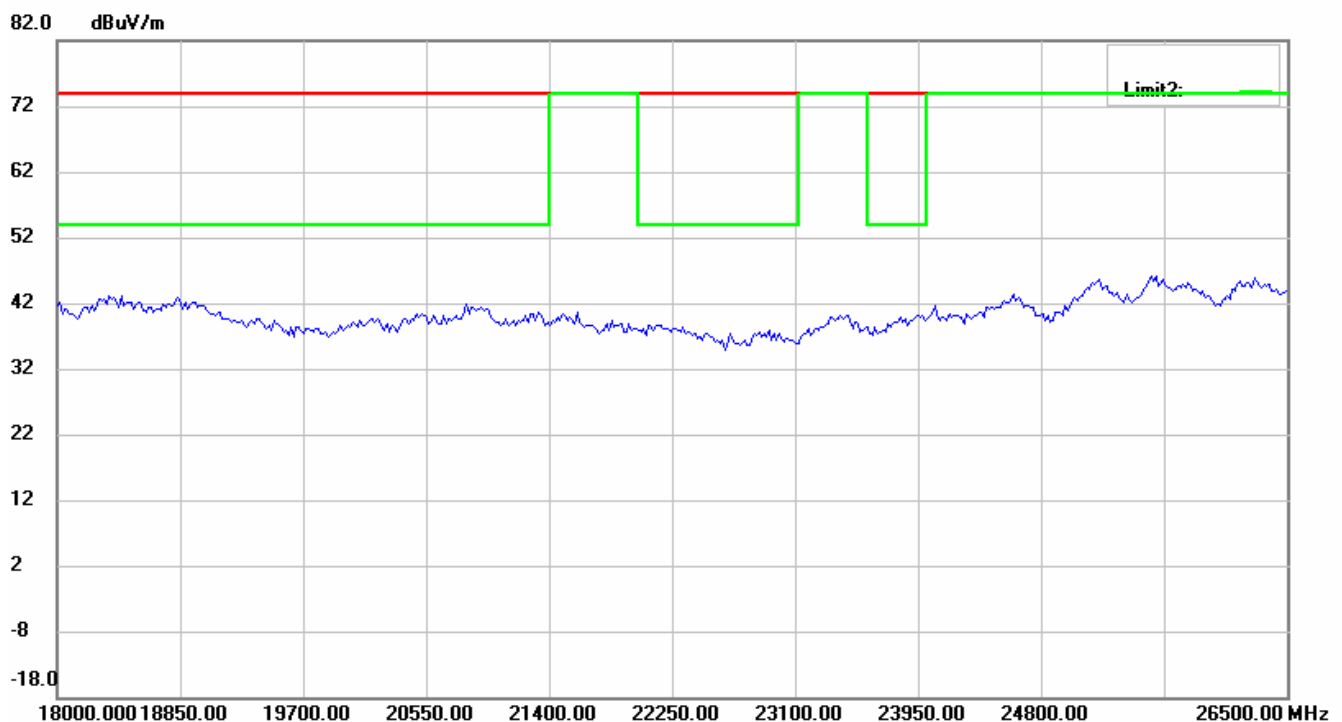
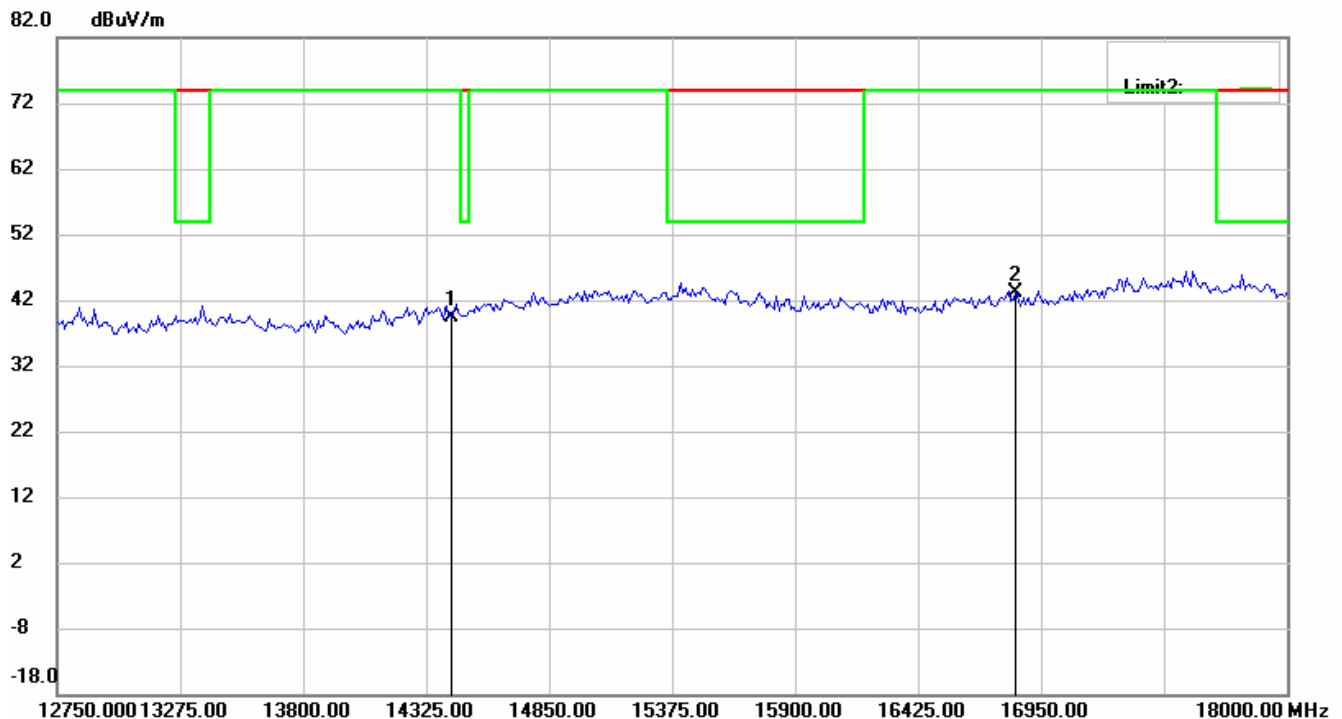
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification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



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20805-9080-P-15

FCC ID: WBI-UFH-C130



Up Line: Peak Limit Line

Down Line: Ave Limit Line

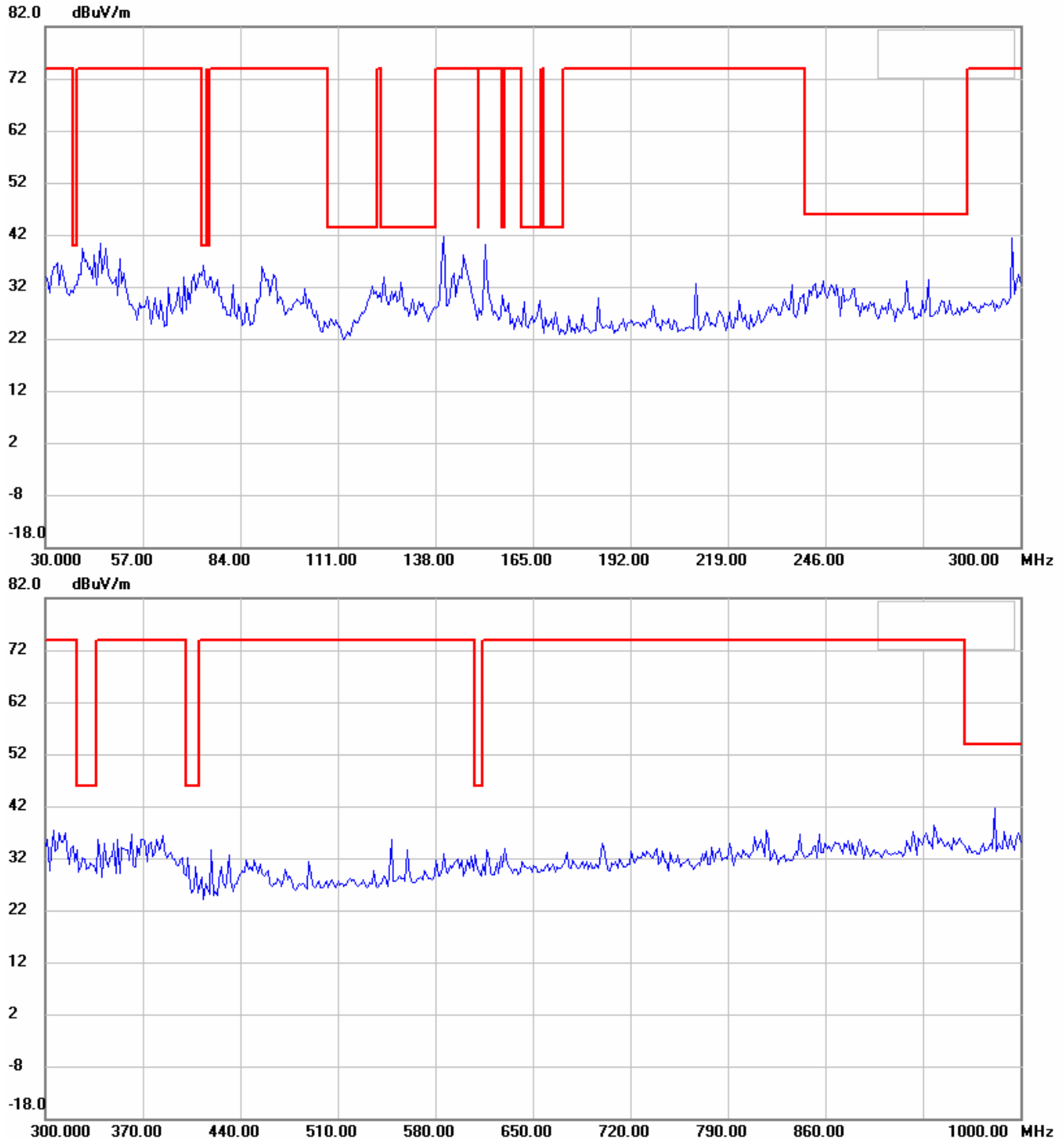
Note:

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: W6M20805-9080-P-15
FCC ID: WBI-UFH-C130

Antenna Polarization V



Up Line: Peak Limit Line

Down Line: Ave Limit Line

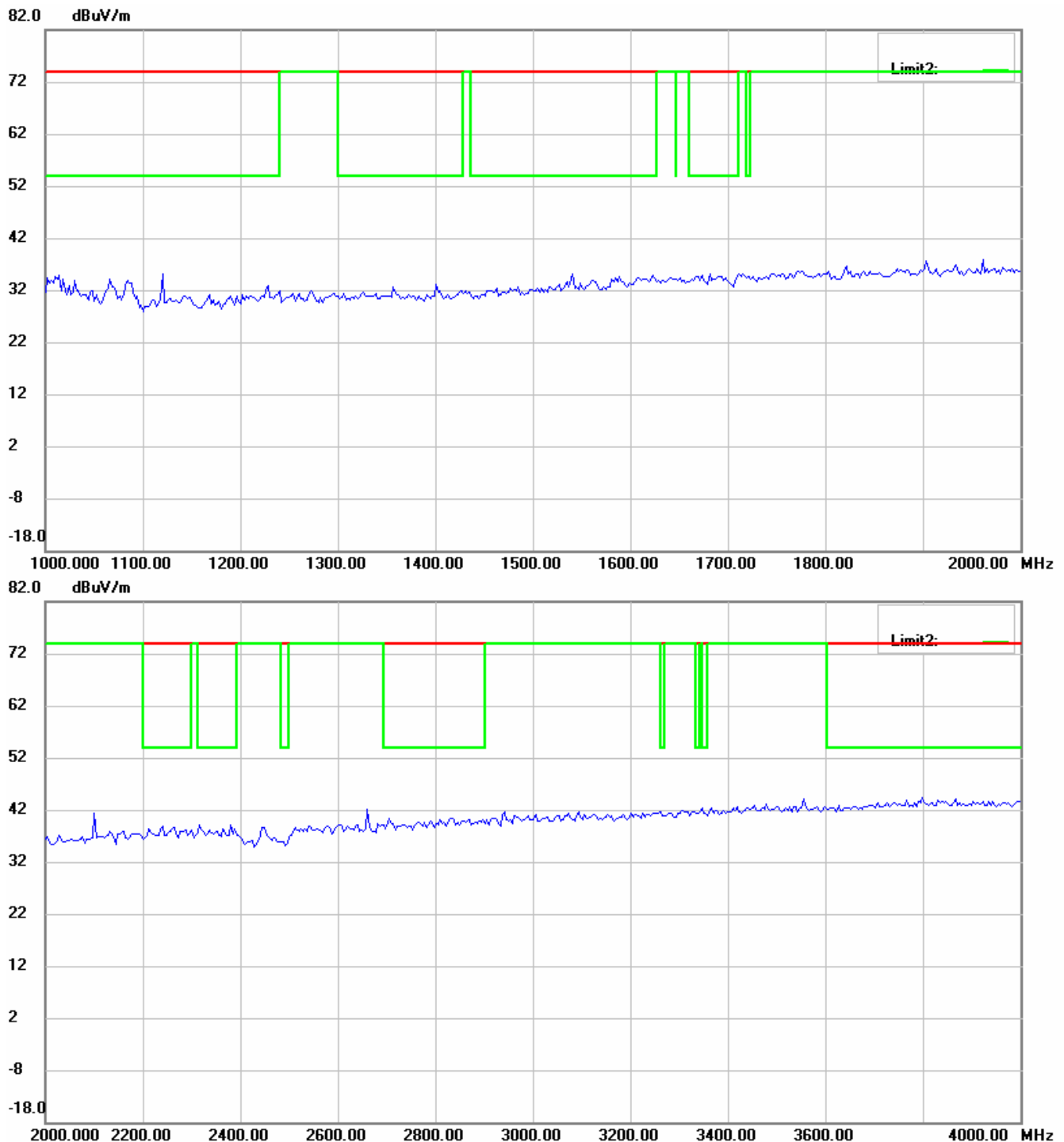
Note:

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.



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20805-9080-P-15
FCC ID: WBI-UFH-C130



Up Line: Peak Limit Line

Down Line: Ave Limit Line

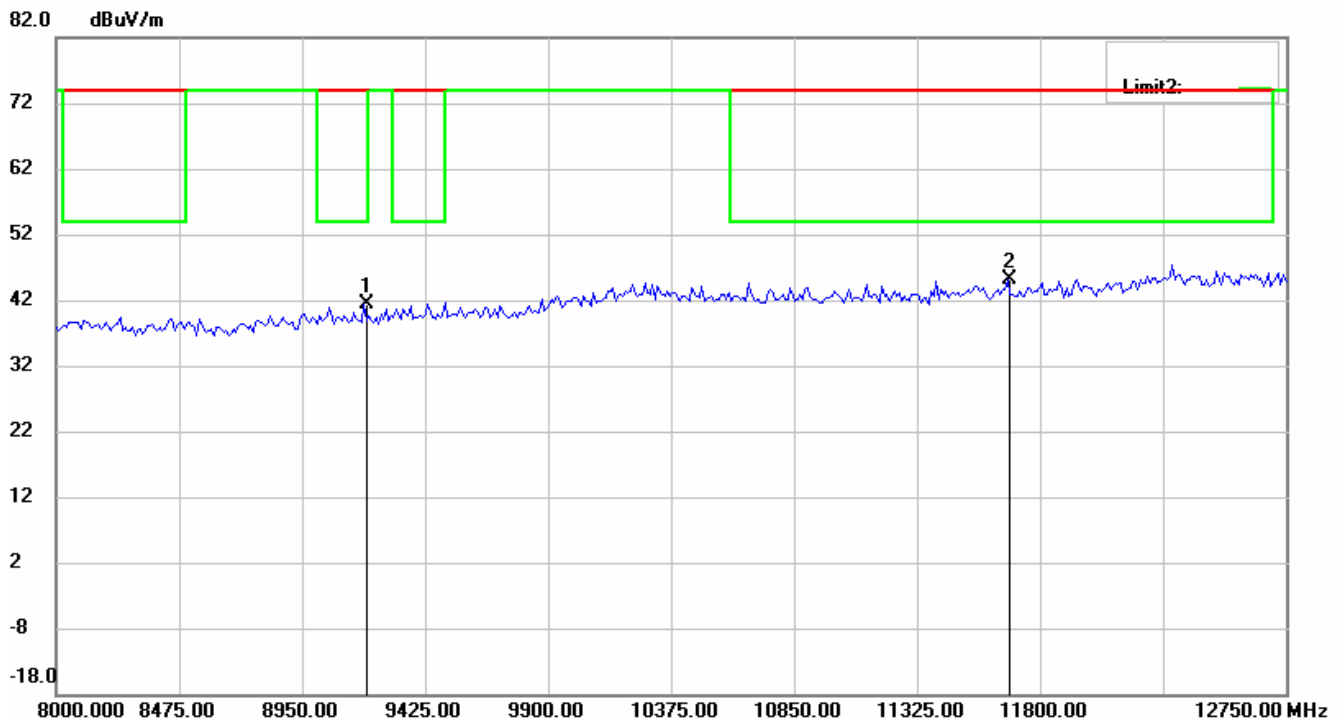
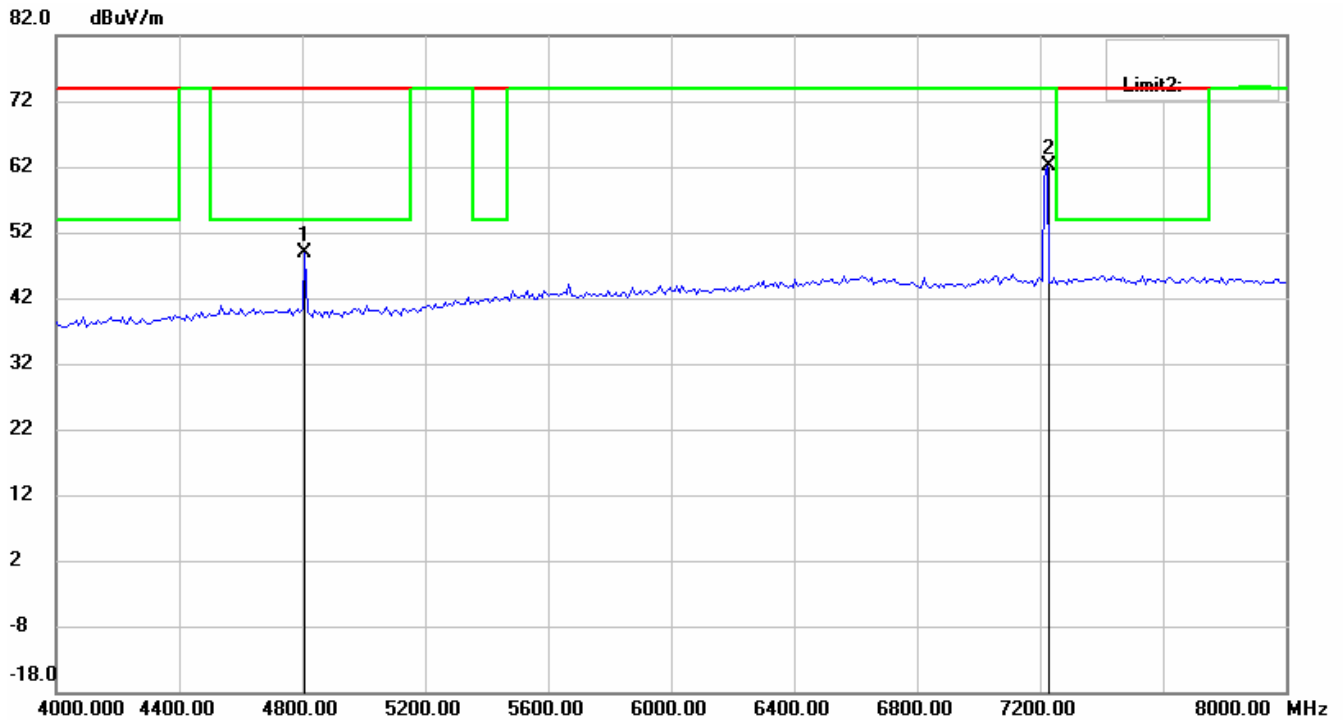
Note:

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.



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20805-9080-P-15
FCC ID: WBI-UFH-C130



Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

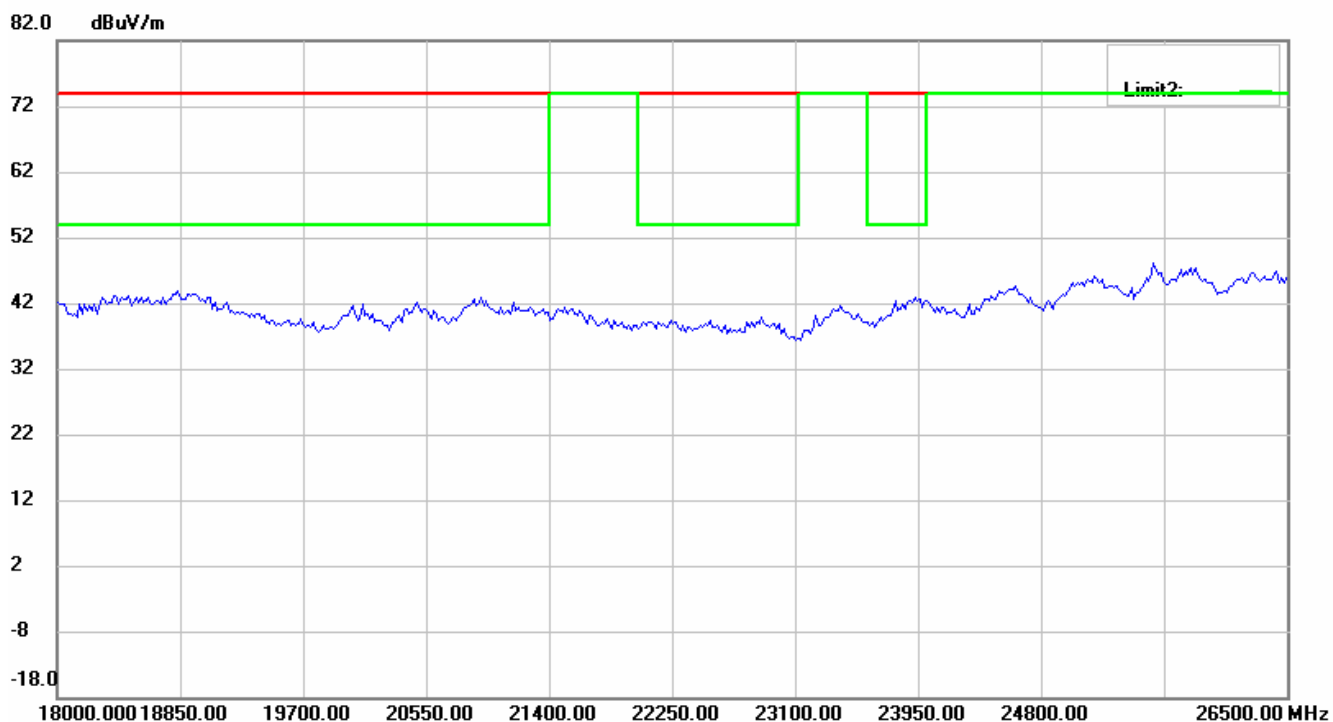
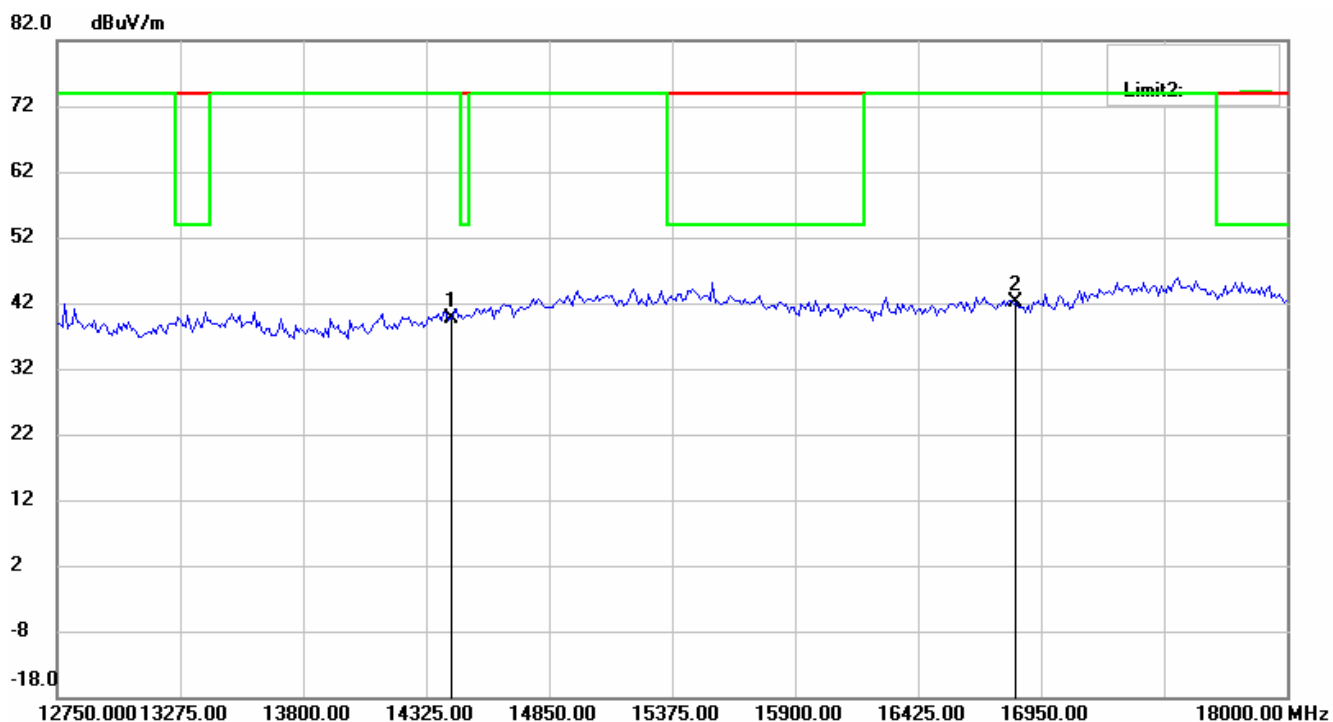
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20805-9080-P-15

FCC ID: WBI-UFH-C130



Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

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.

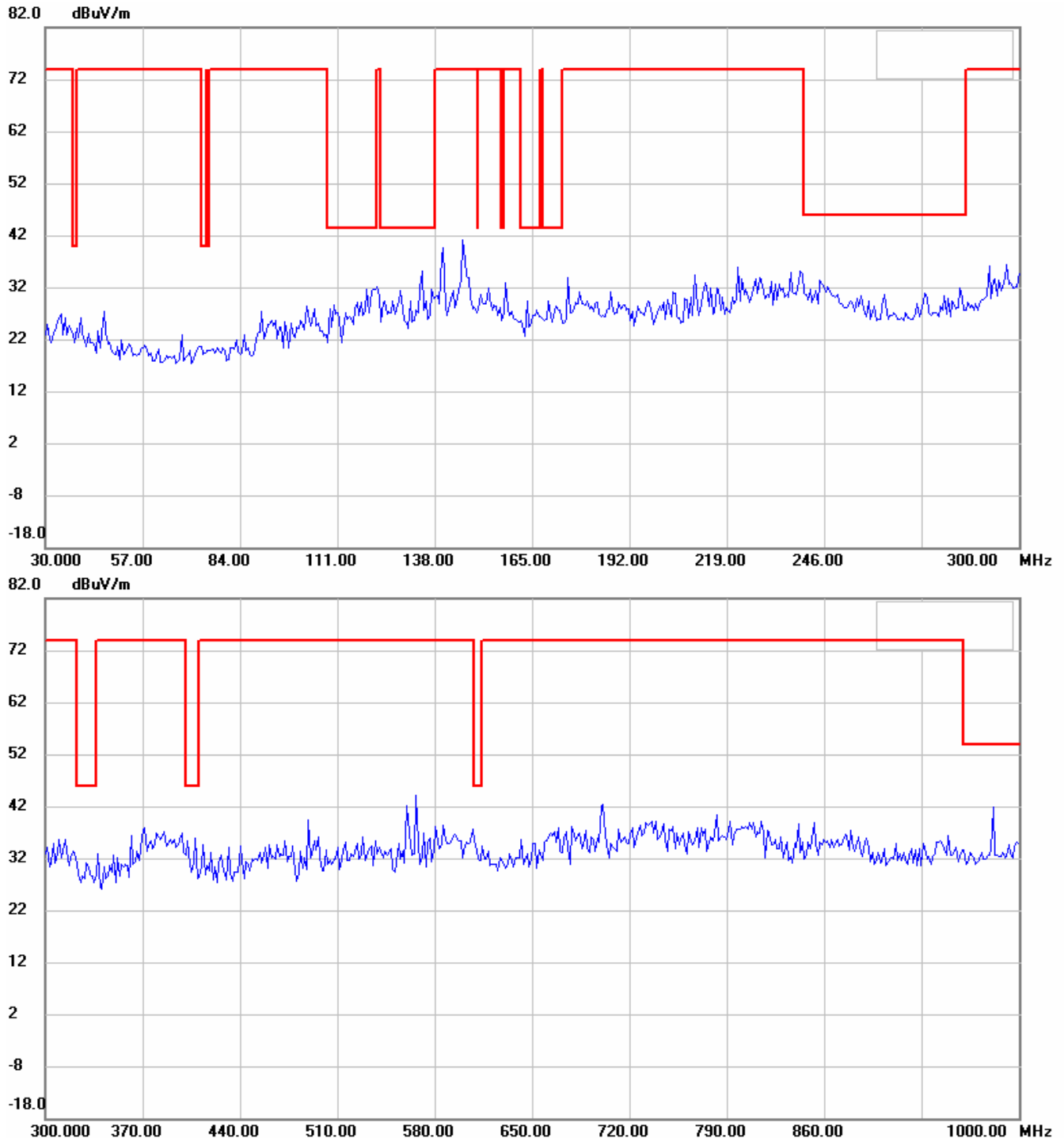


Registration number: W6M20805-9080-P-15

FCC ID: WBI-UFH-C130

TX Mode_CH 8

Antenna Polarization H



Up Line: Peak Limit Line

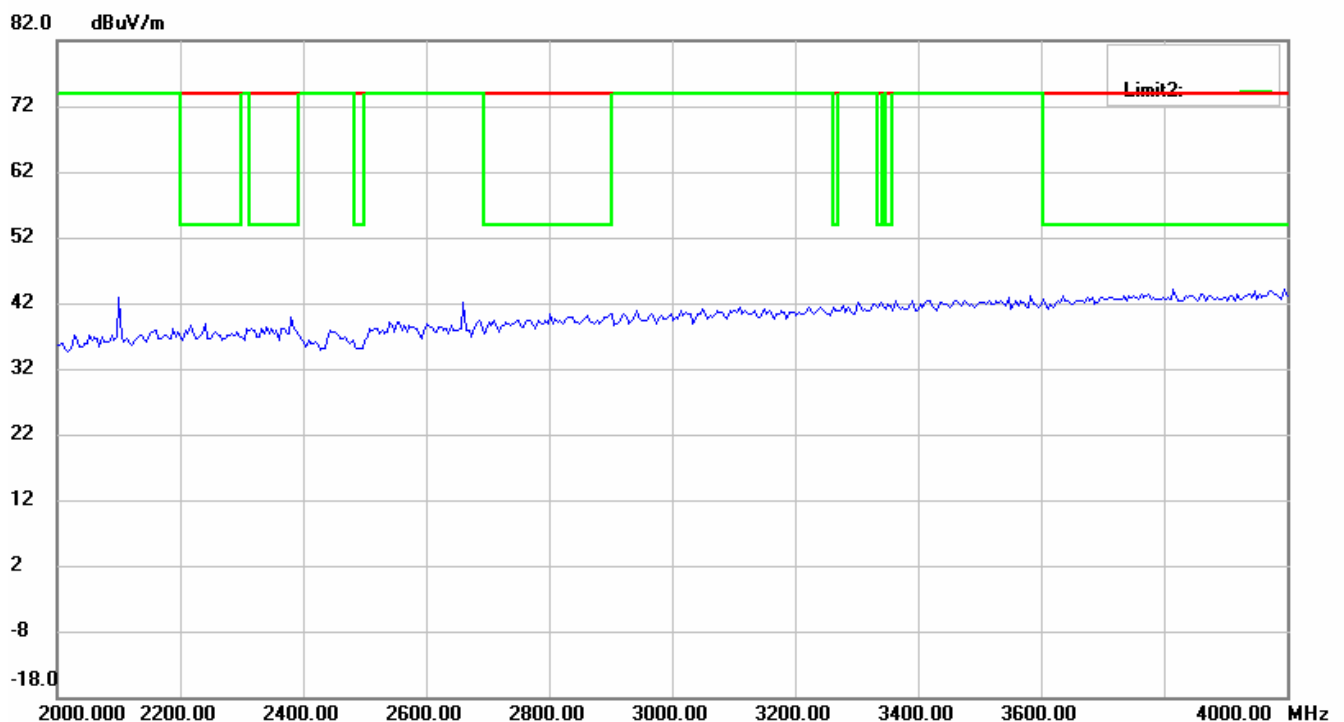
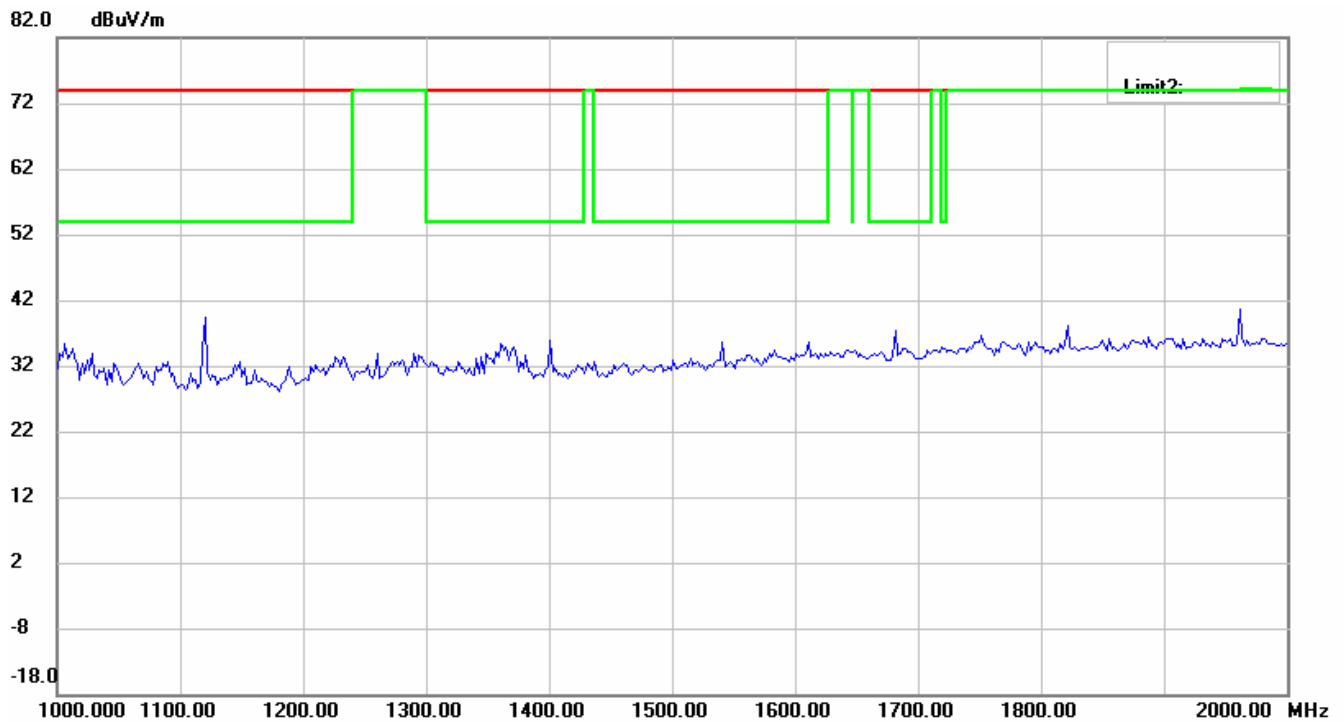
Down Line: Ave Limit Line

Note:

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: W6M20805-9080-P-15
FCC ID: WBI-UFH-C130



Up Line: Peak Limit Line
Down Line: Ave Limit Line

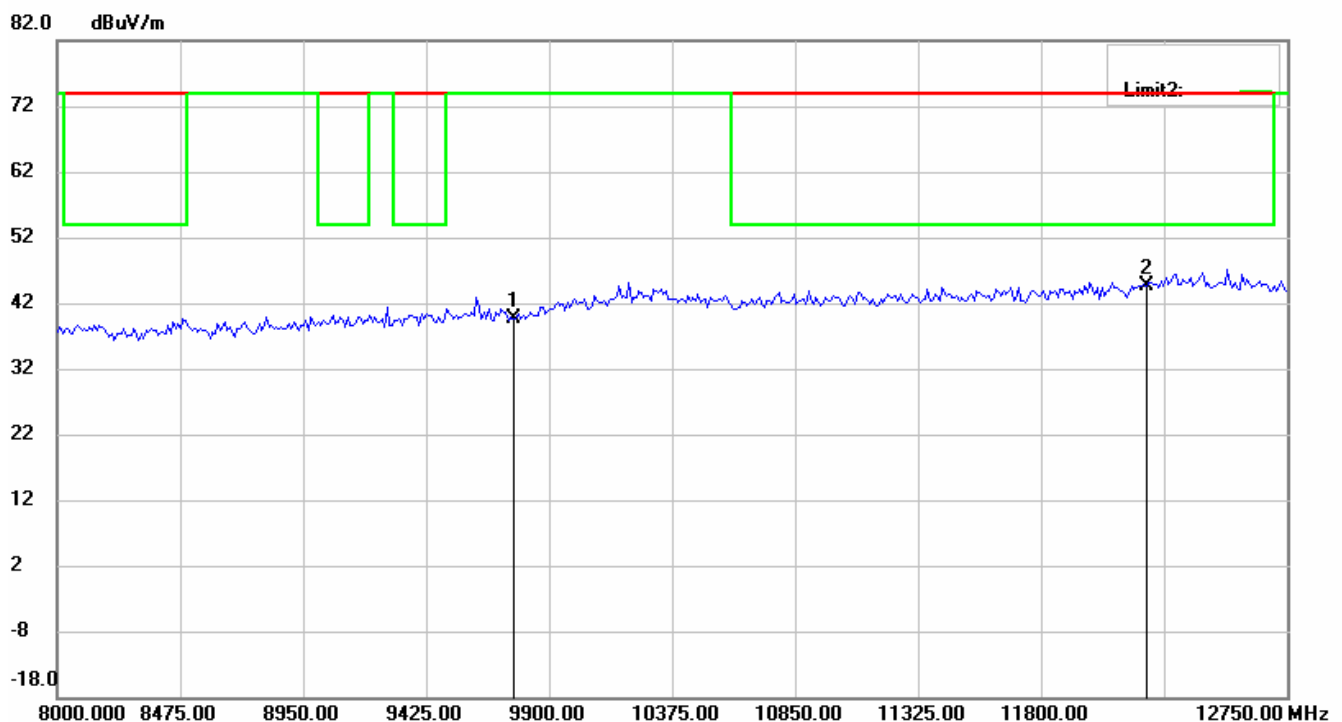
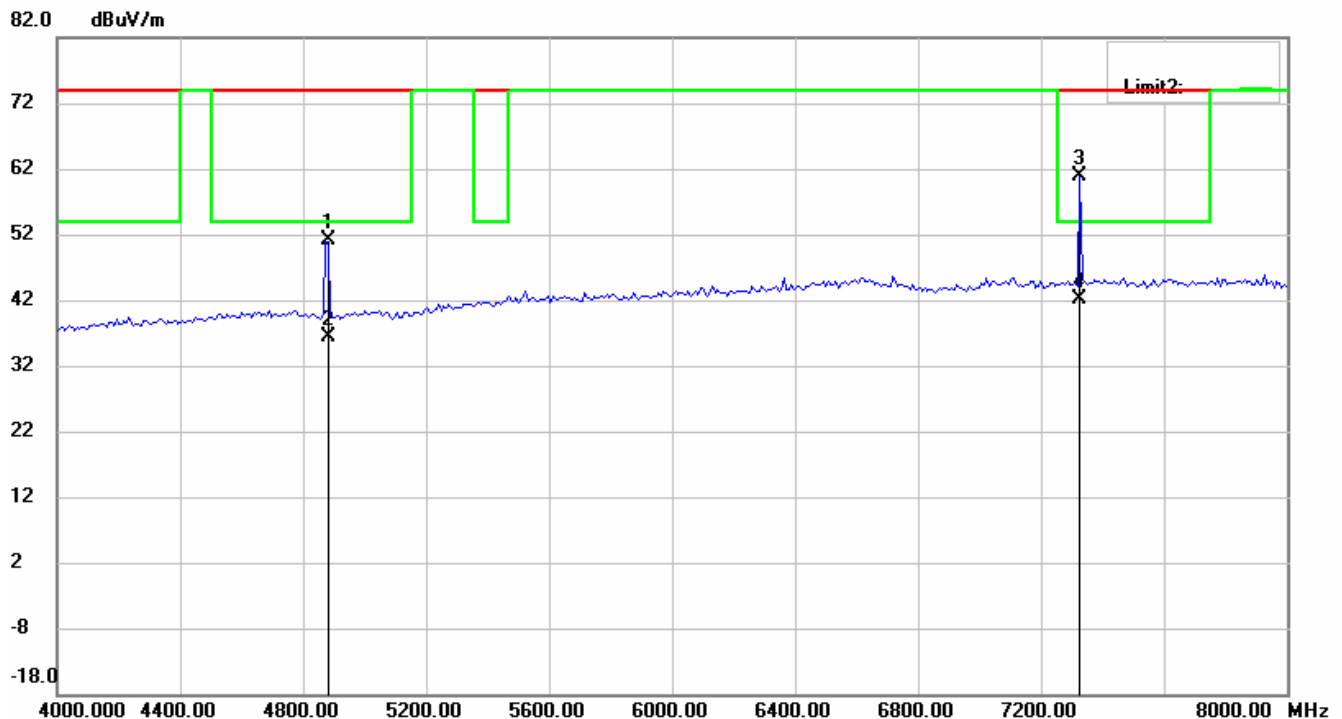
Note:

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: W6M20805-9080-P-15

FCC ID: WBI-UFH-C130



Up Line: Peak Limit Line

Down Line: Ave Limit Line

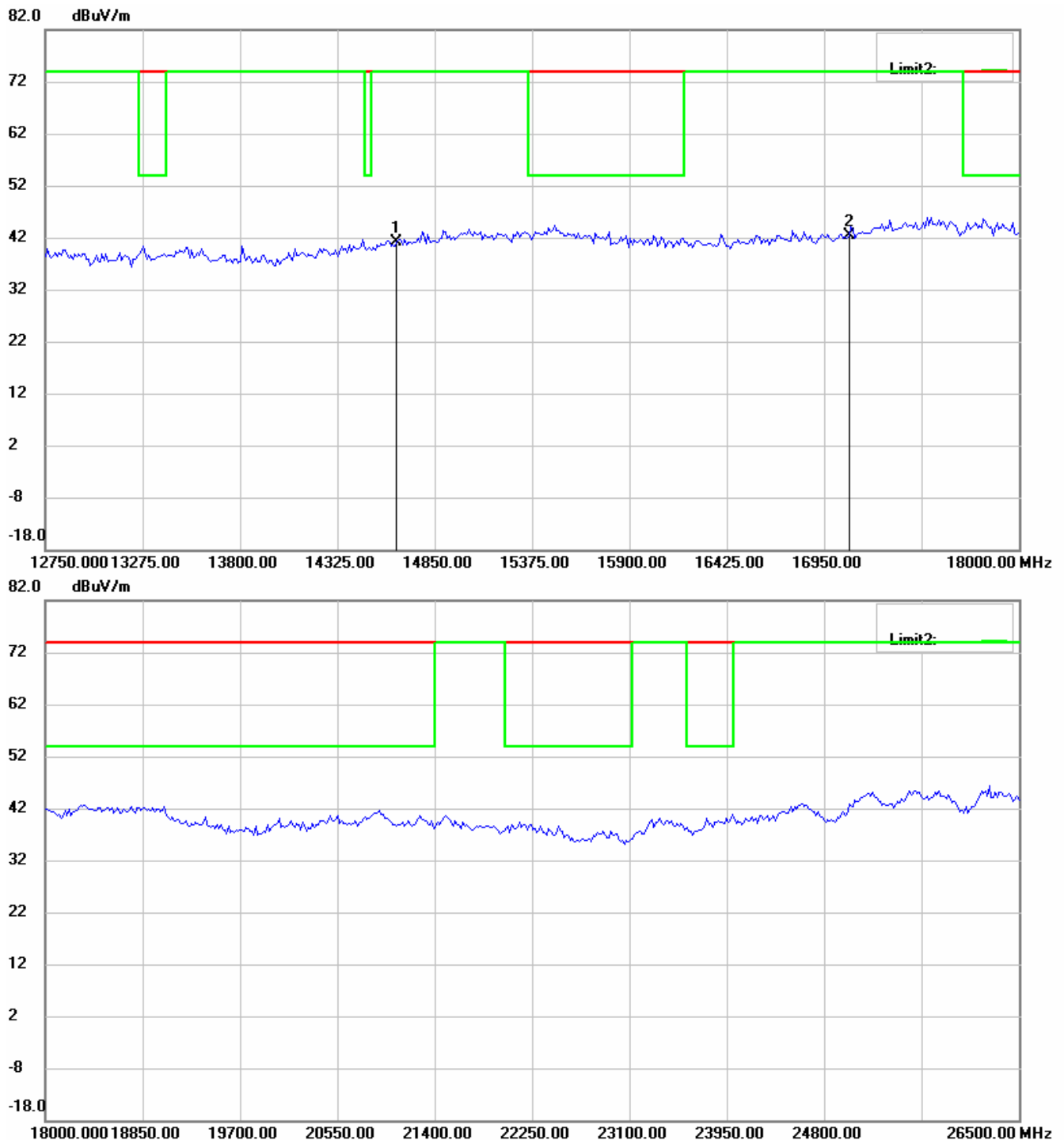
Note:

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.



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20805-9080-P-15
FCC ID: WBI-UFH-C130



Up Line: Peak Limit Line

Down Line: Ave Limit Line

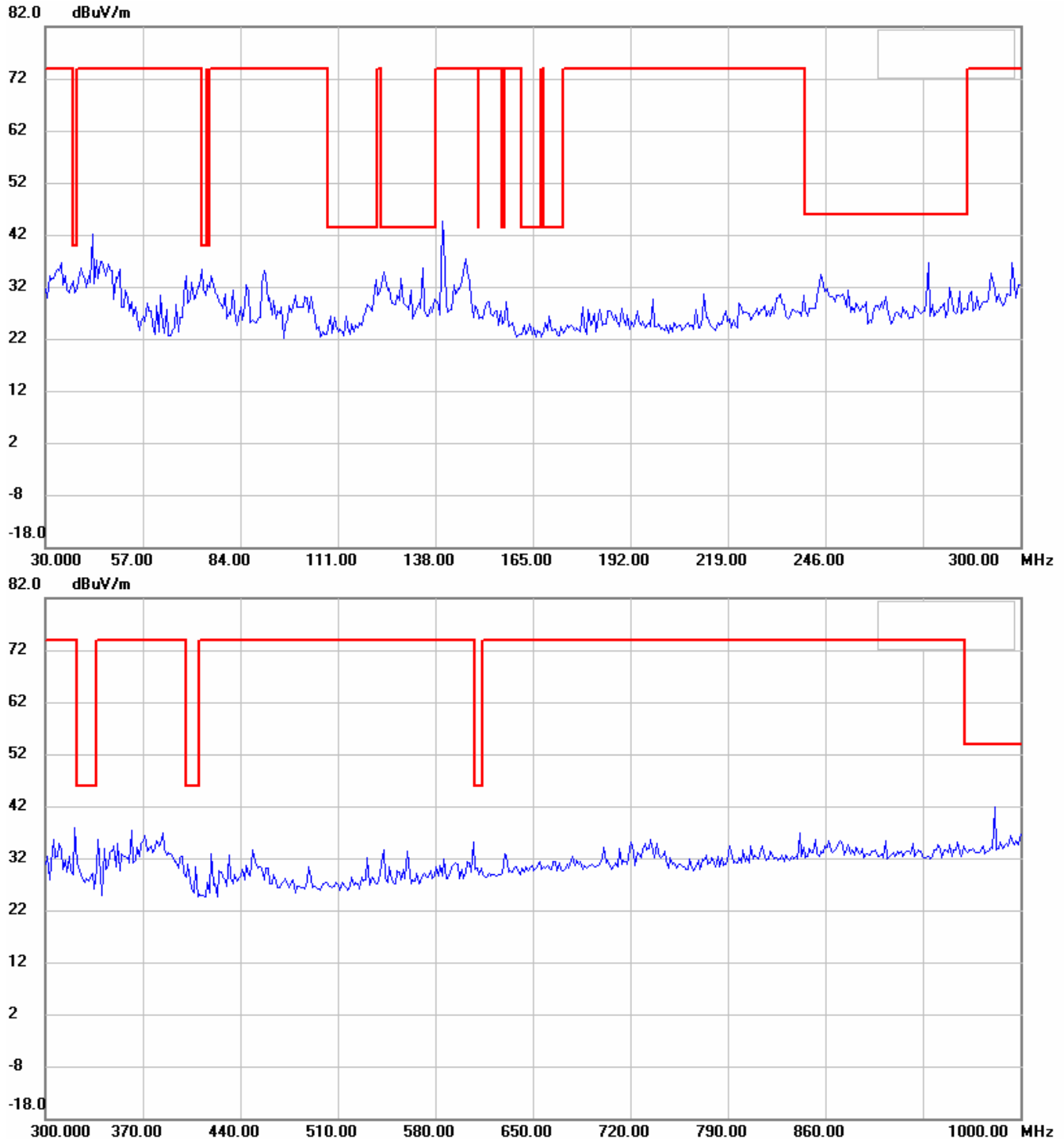
Note:

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: W6M20805-9080-P-15
FCC ID: WBI-UFH-C130

Antenna Polarization V



Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

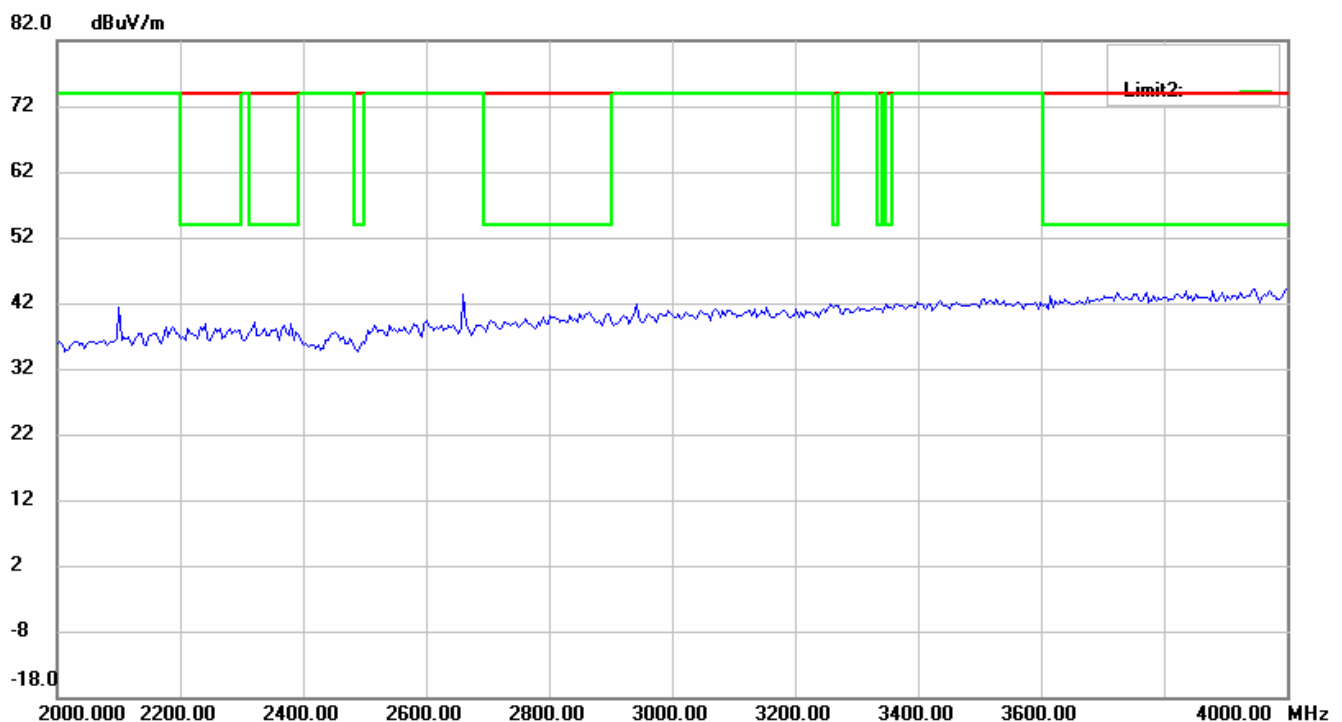
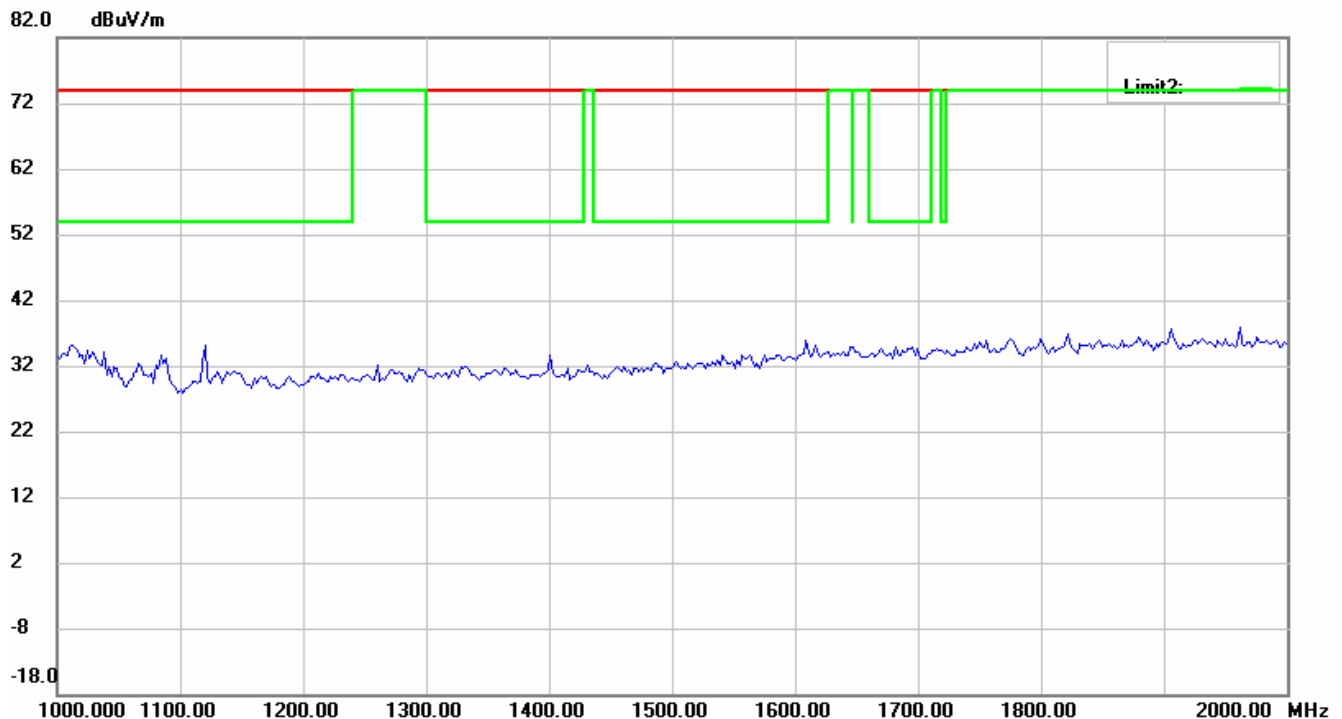
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification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



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20805-9080-P-15

FCC ID: WBI-UFH-C130



Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

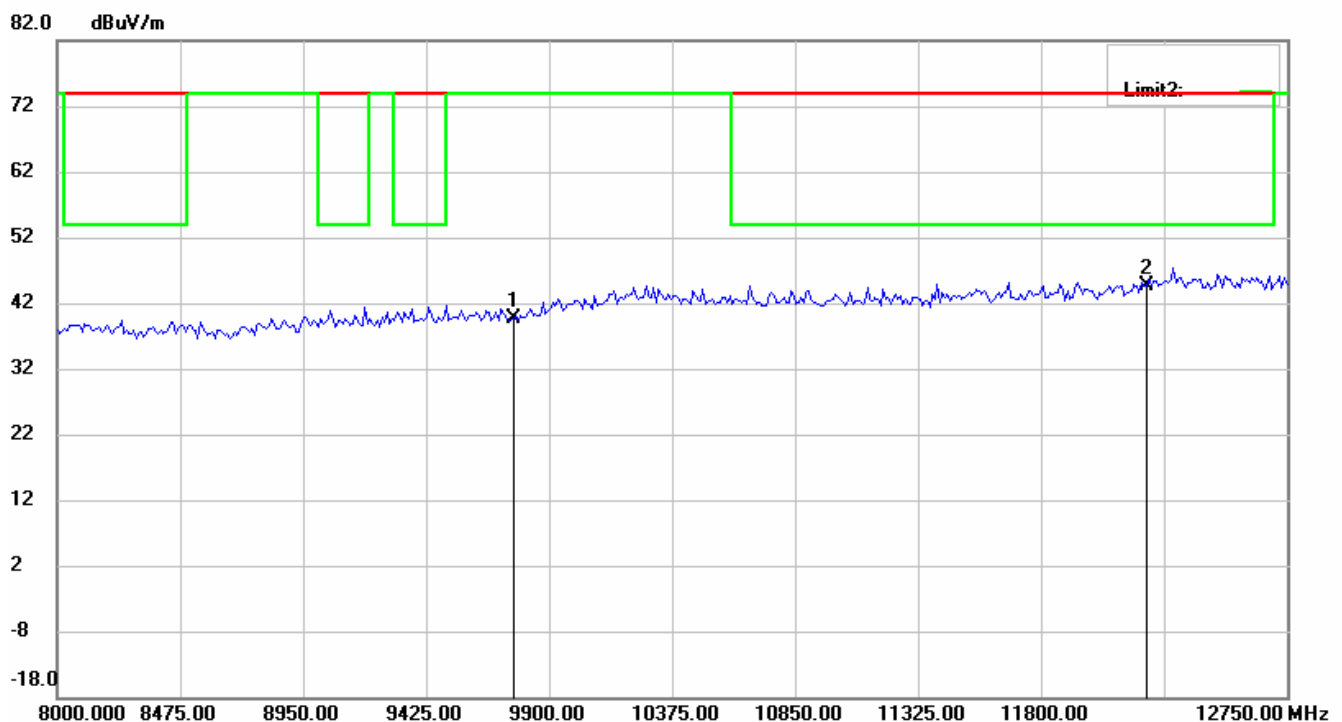
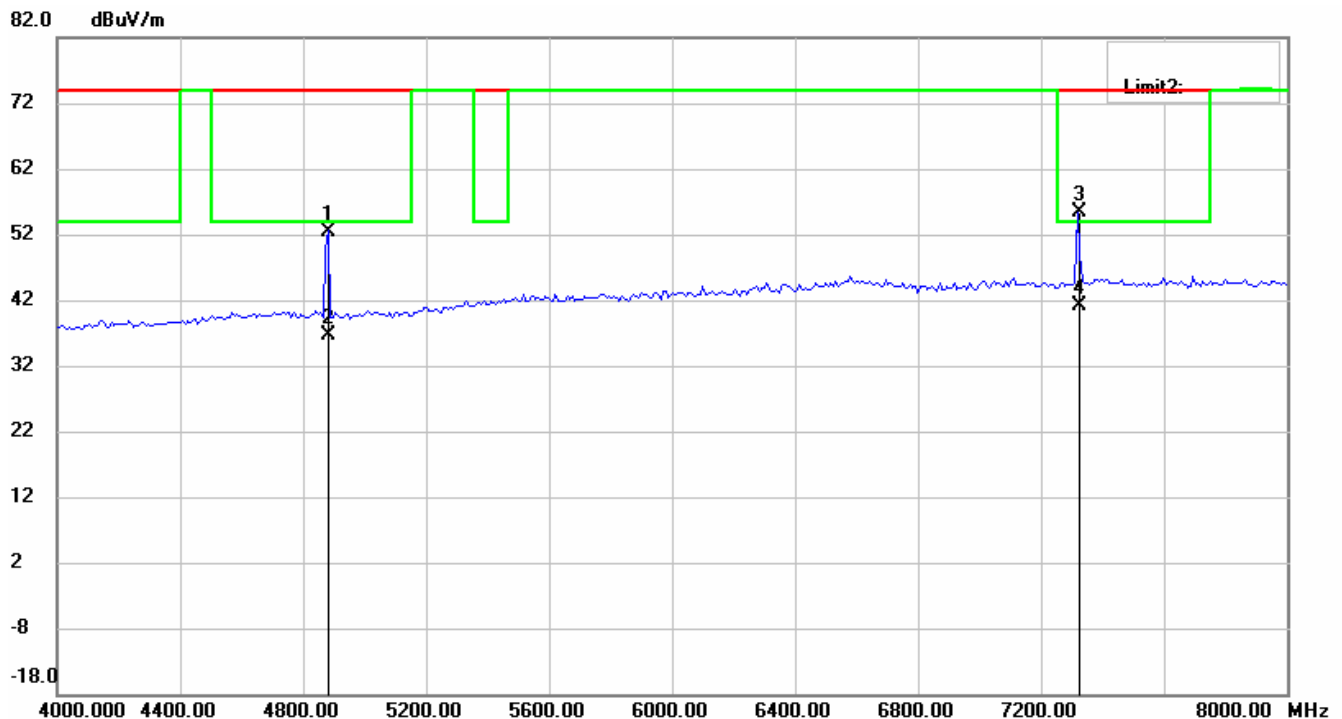
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification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



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20805-9080-P-15

FCC ID: WBI-UFH-C130



Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

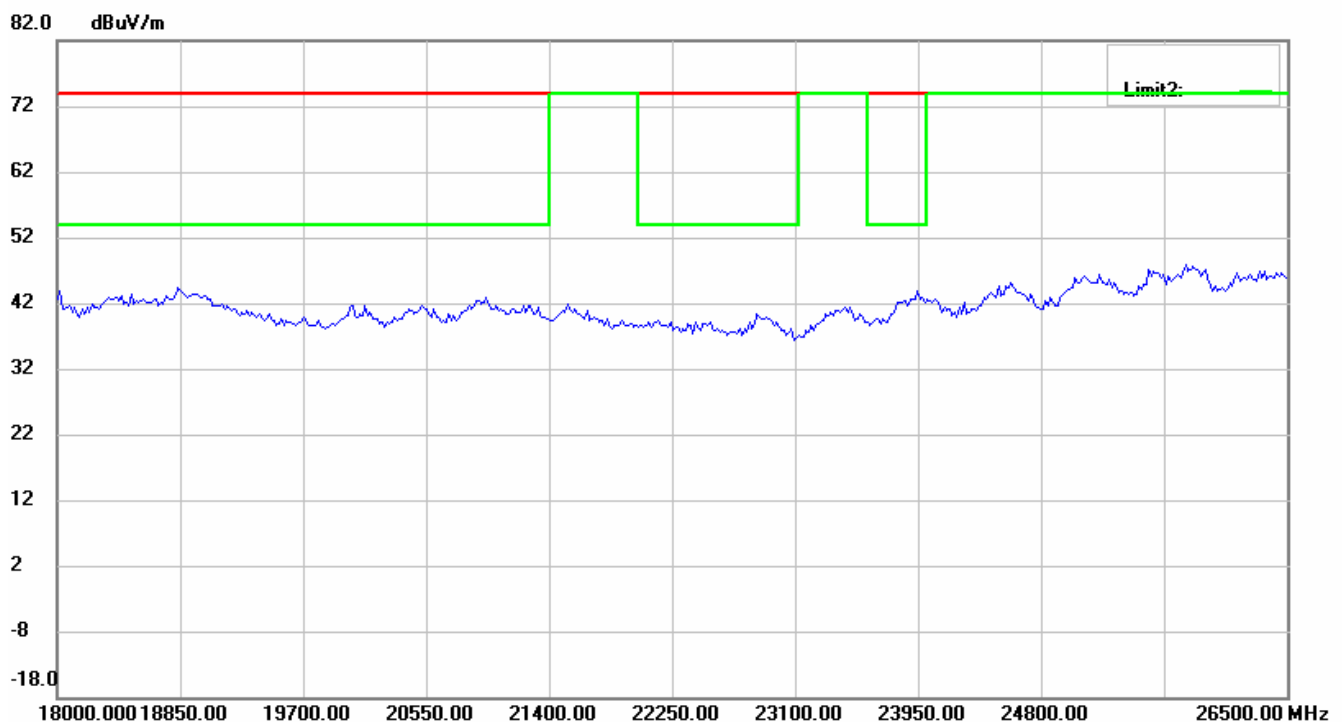
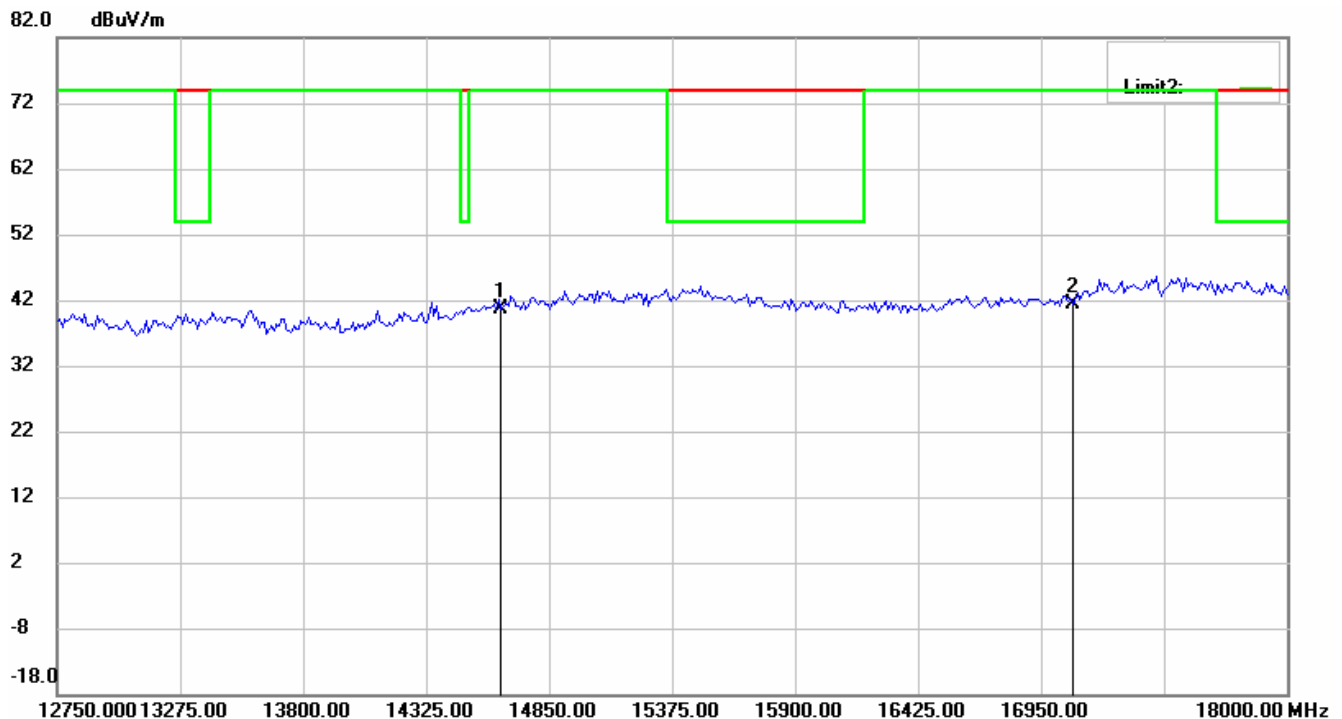
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Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20805-9080-P-15

FCC ID: WBI-UFH-C130



Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

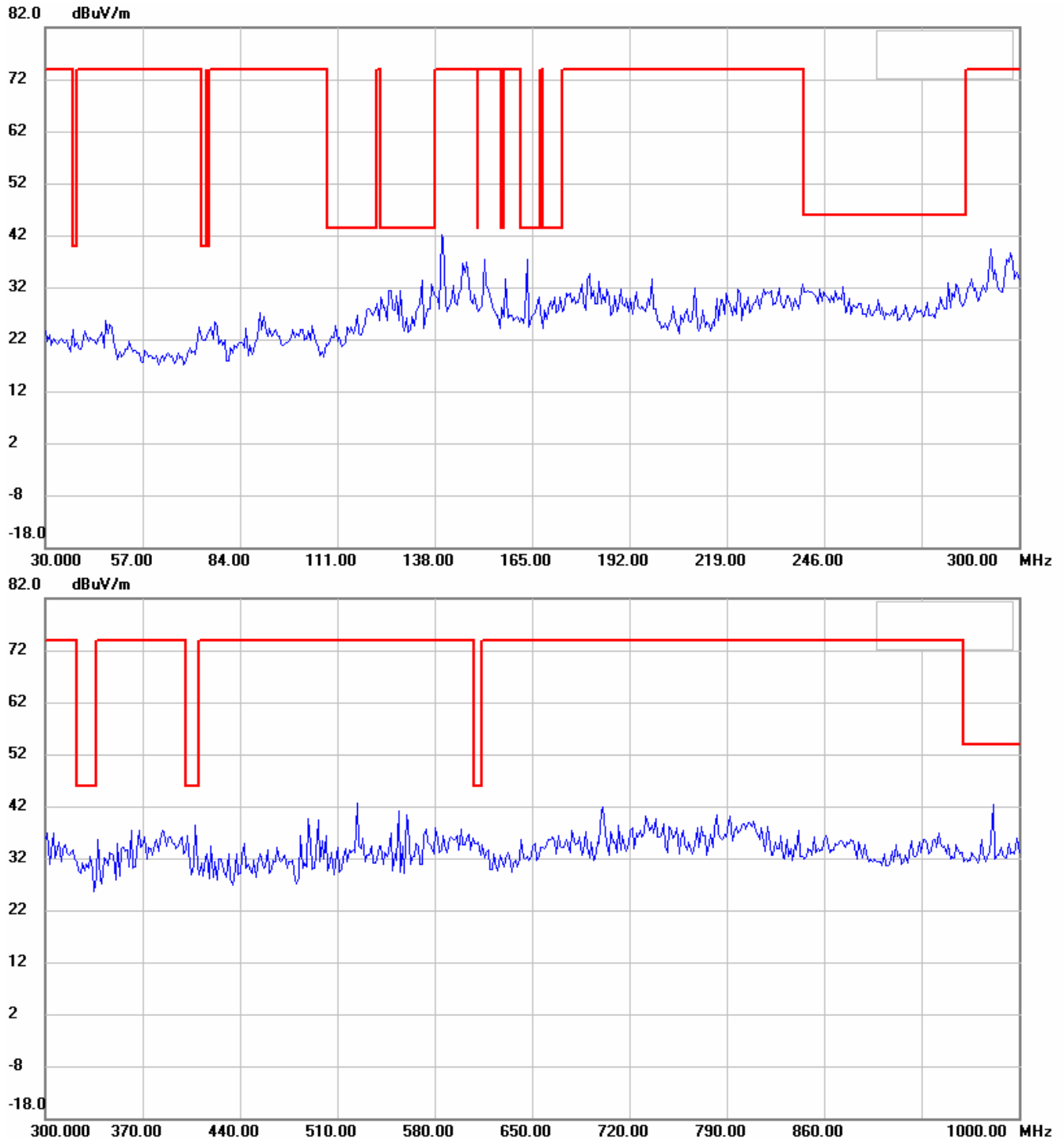
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
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Registration number: W6M20805-9080-P-15
FCC ID: WBI-UFH-C130

CH 16

Antenna Polarization H



Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

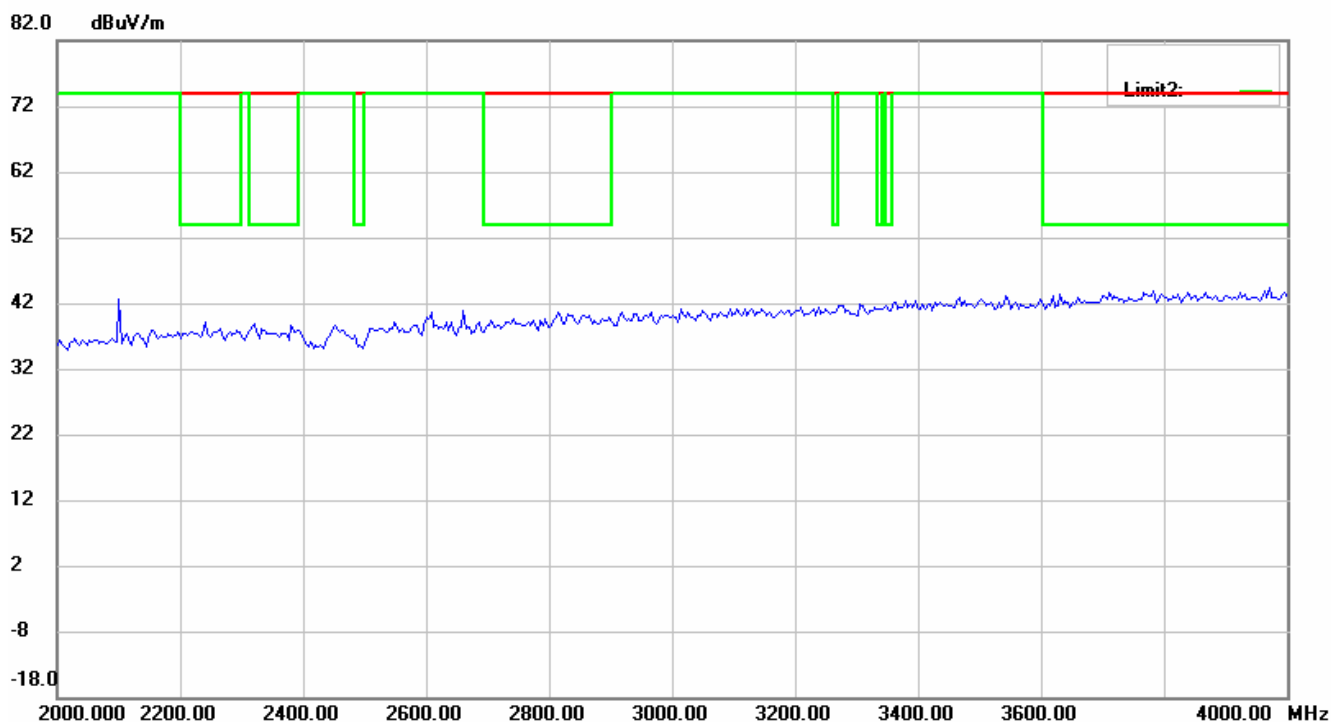
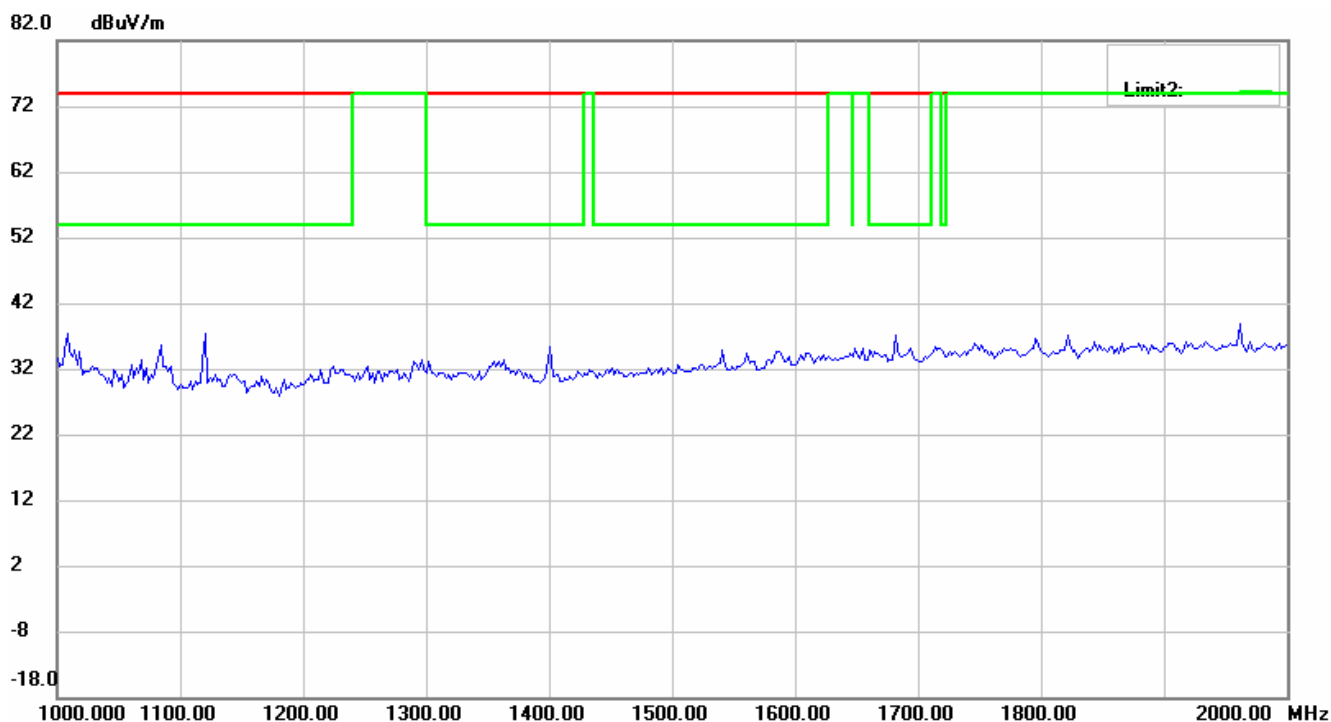
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification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



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20805-9080-P-15

FCC ID: WBI-UFH-C130



Up Line: Peak Limit Line

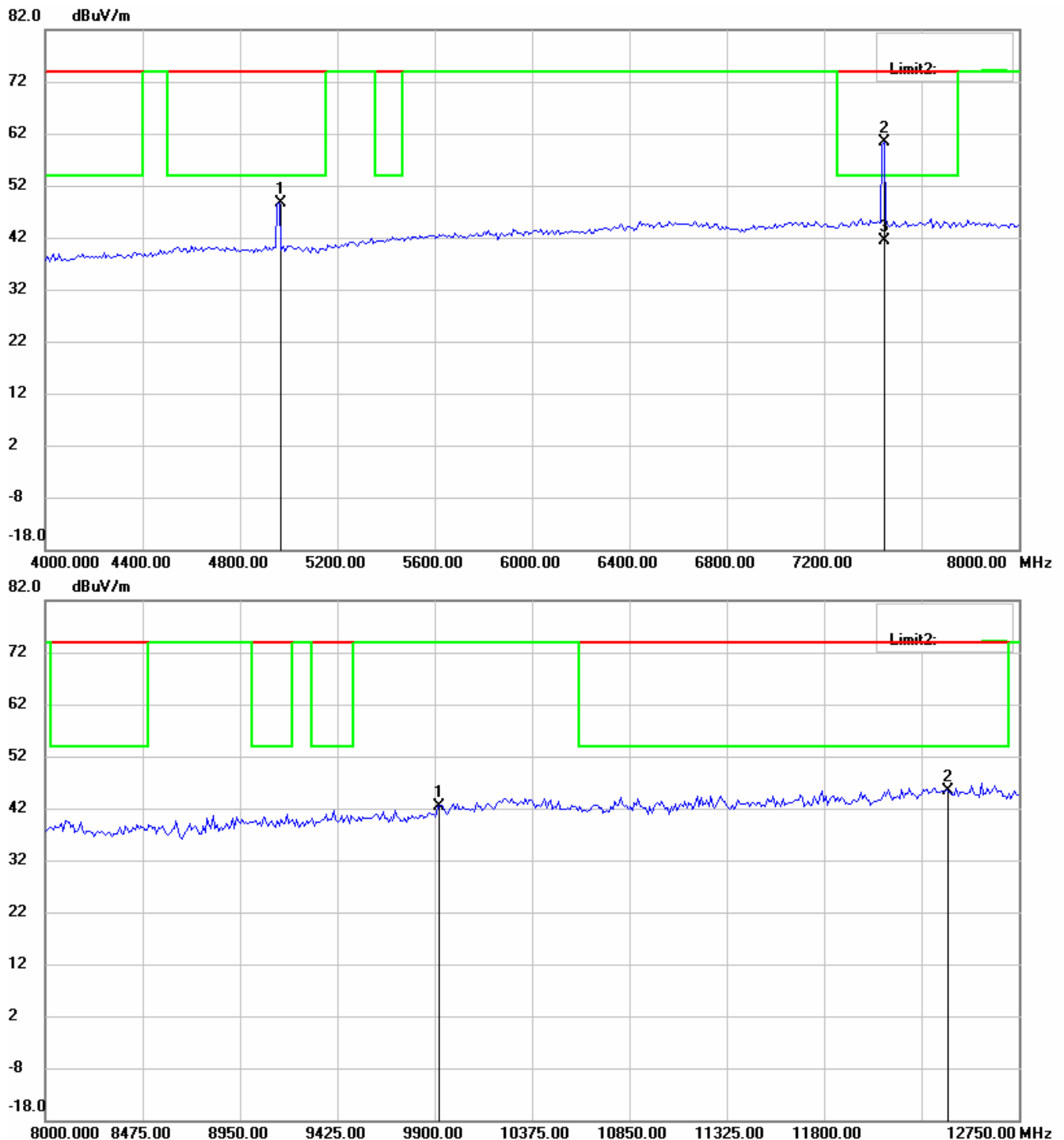
Down Line: Ave Limit Line

Note:

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: W6M20805-9080-P-15
FCC ID: WBI-UFH-C130



Up Line: Peak Limit Line
Down Line: Ave Limit Line

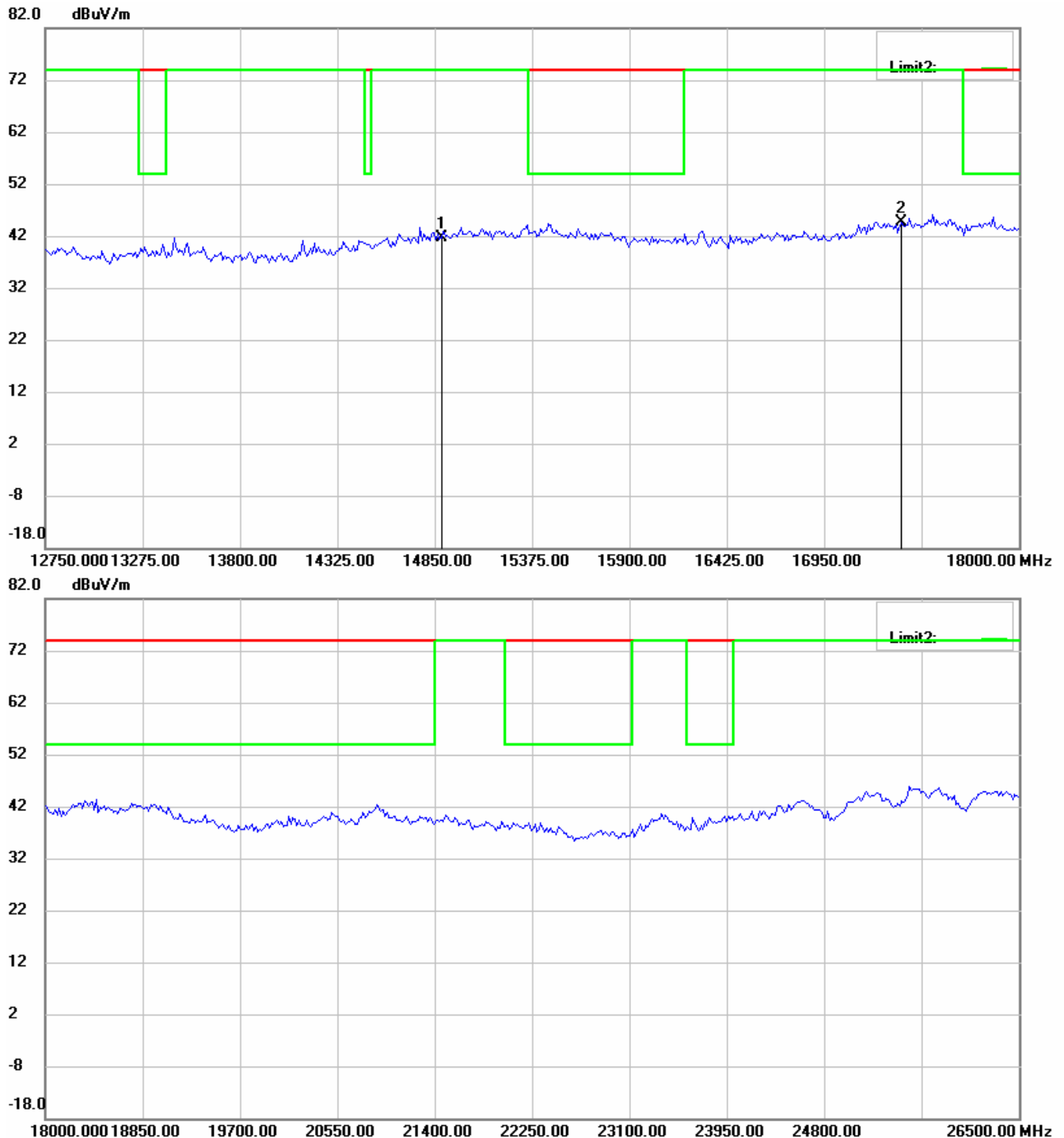
Note:

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Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20805-9080-P-15
FCC ID: WBI-UFH-C130



Up Line: Peak Limit Line
Down Line: Ave Limit Line

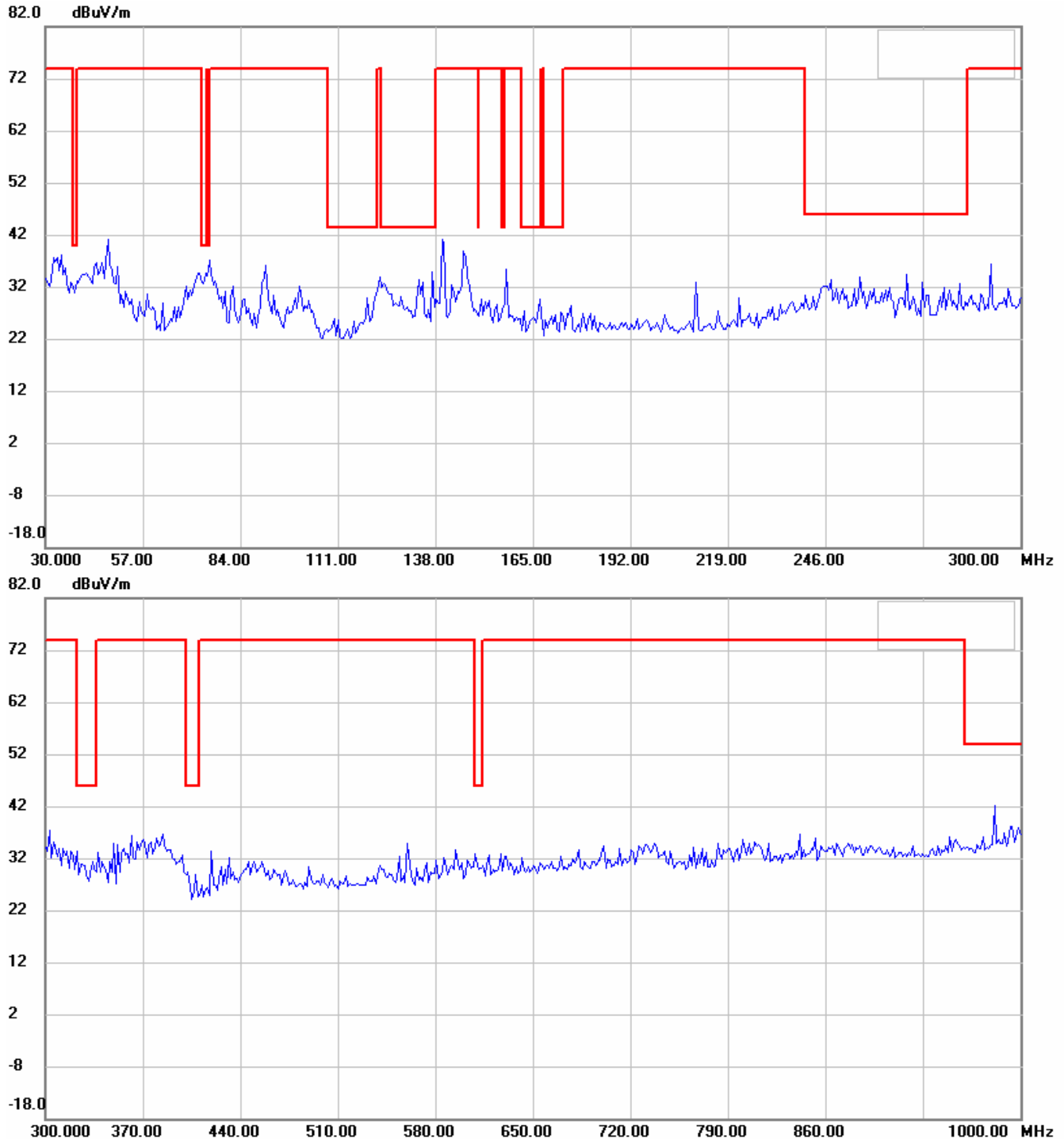
Note:

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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: W6M20805-9080-P-15
FCC ID: WBI-UFH-C130

Antenna Polarization V



Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

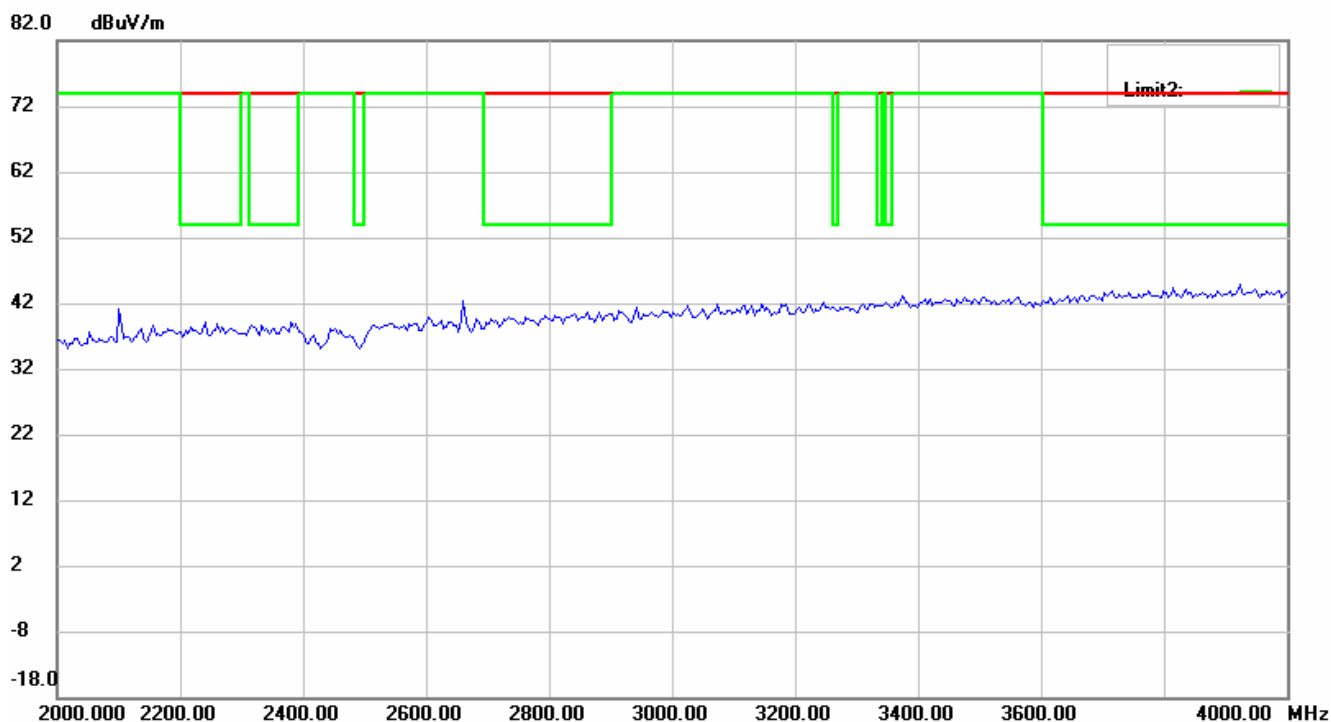
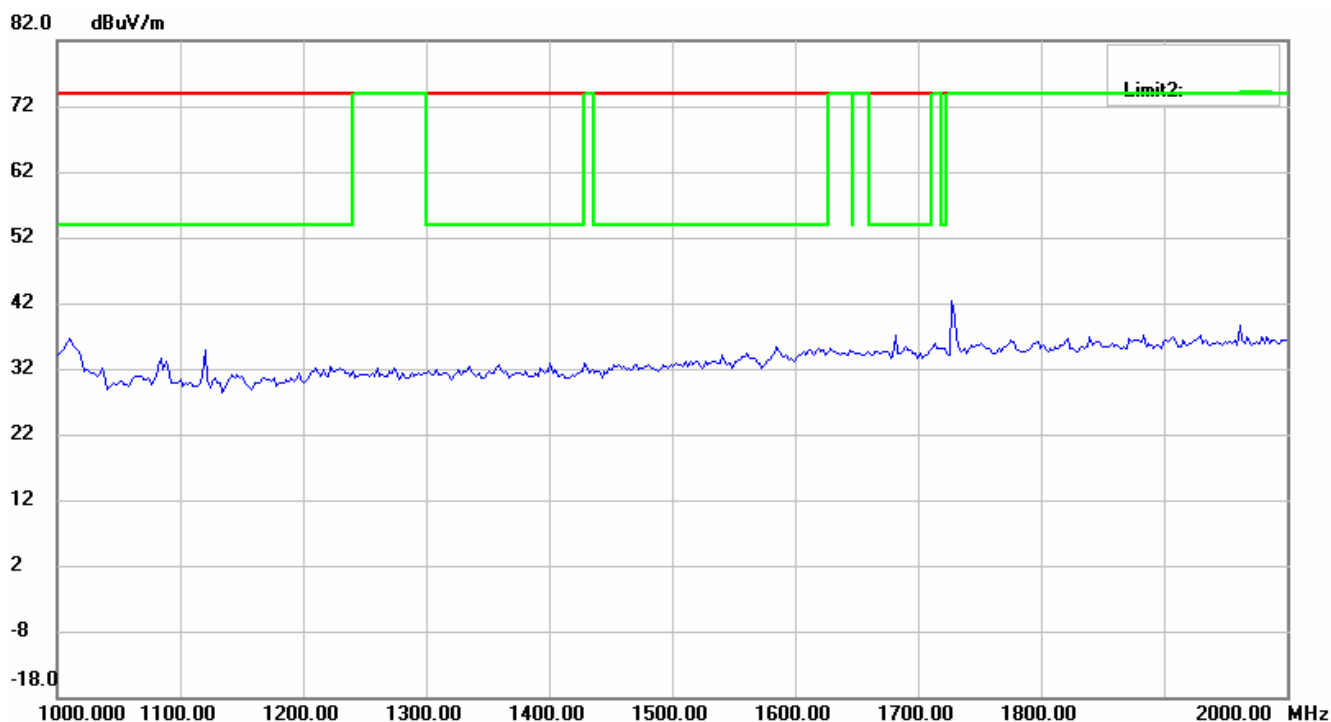
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Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20805-9080-P-15

FCC ID: WBI-UFH-C130



Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

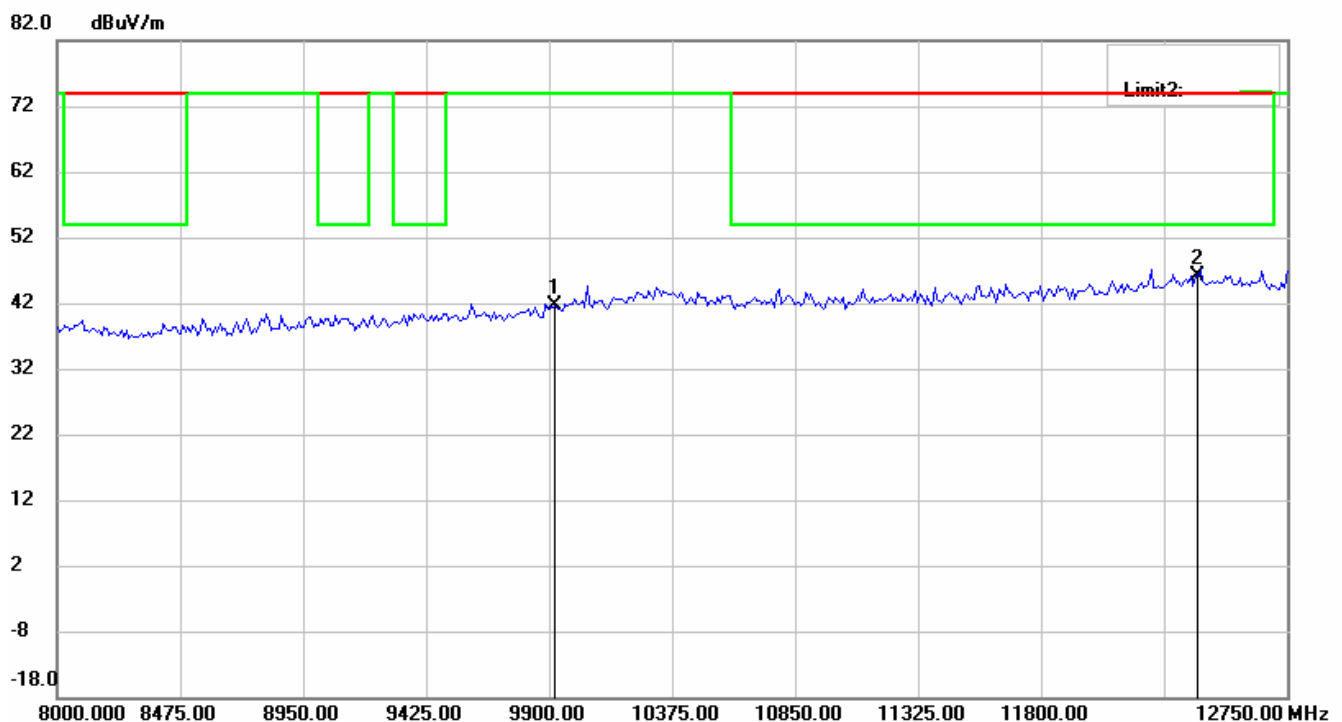
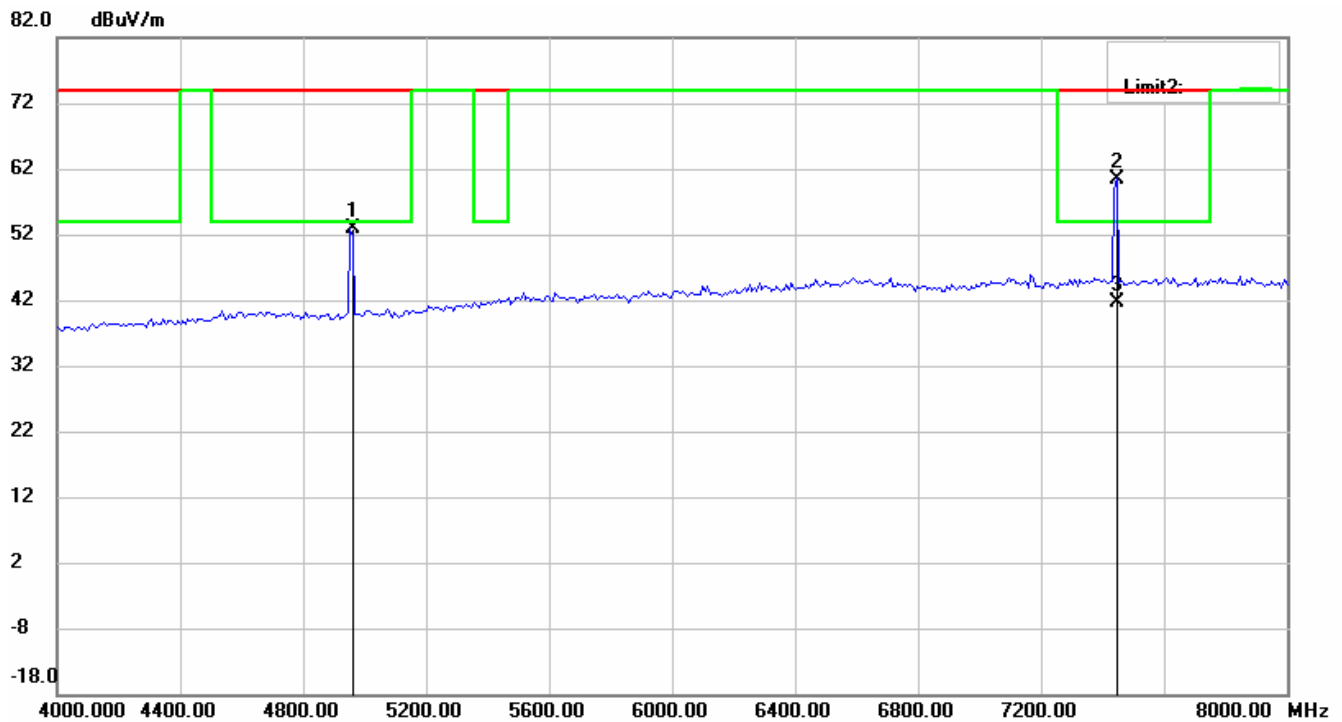
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Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20805-9080-P-15

FCC ID: WBI-UFH-C130



Up Line: Peak Limit Line

Down Line: Ave Limit Line

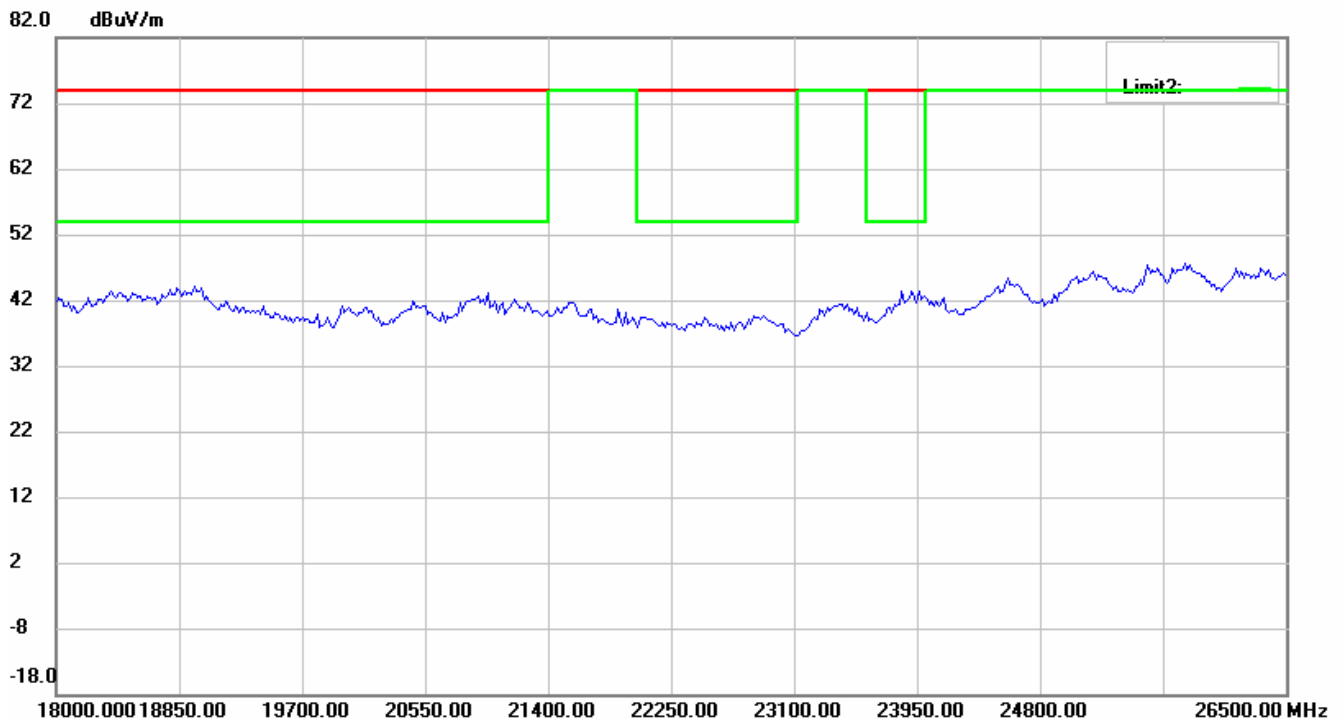
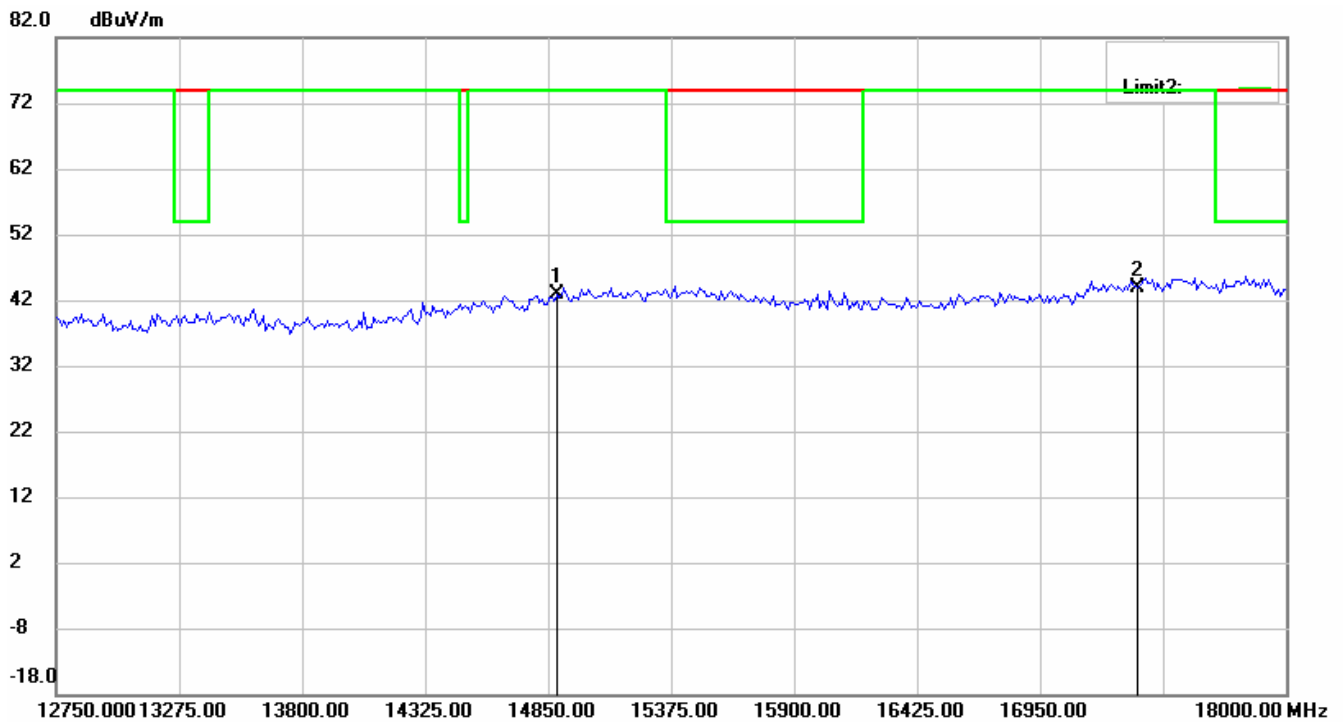
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Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20805-9080-P-15
FCC ID: WBI-UFH-C130



Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

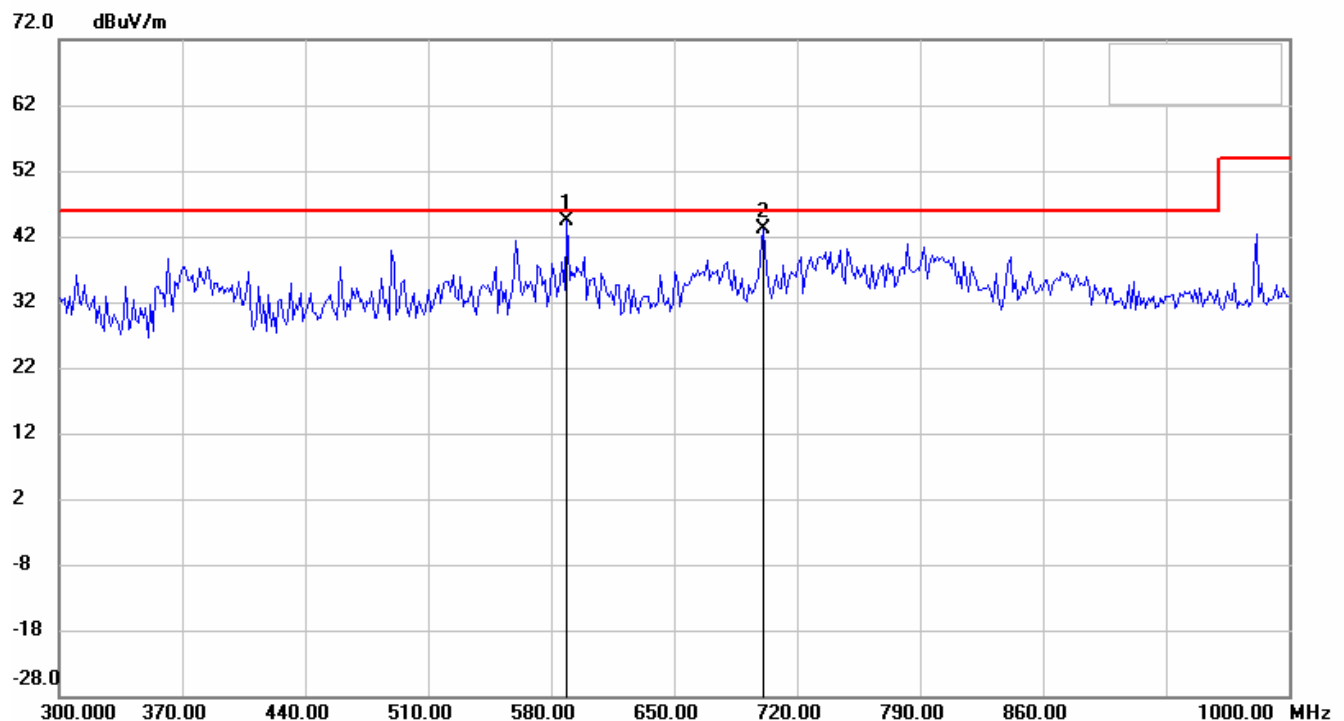
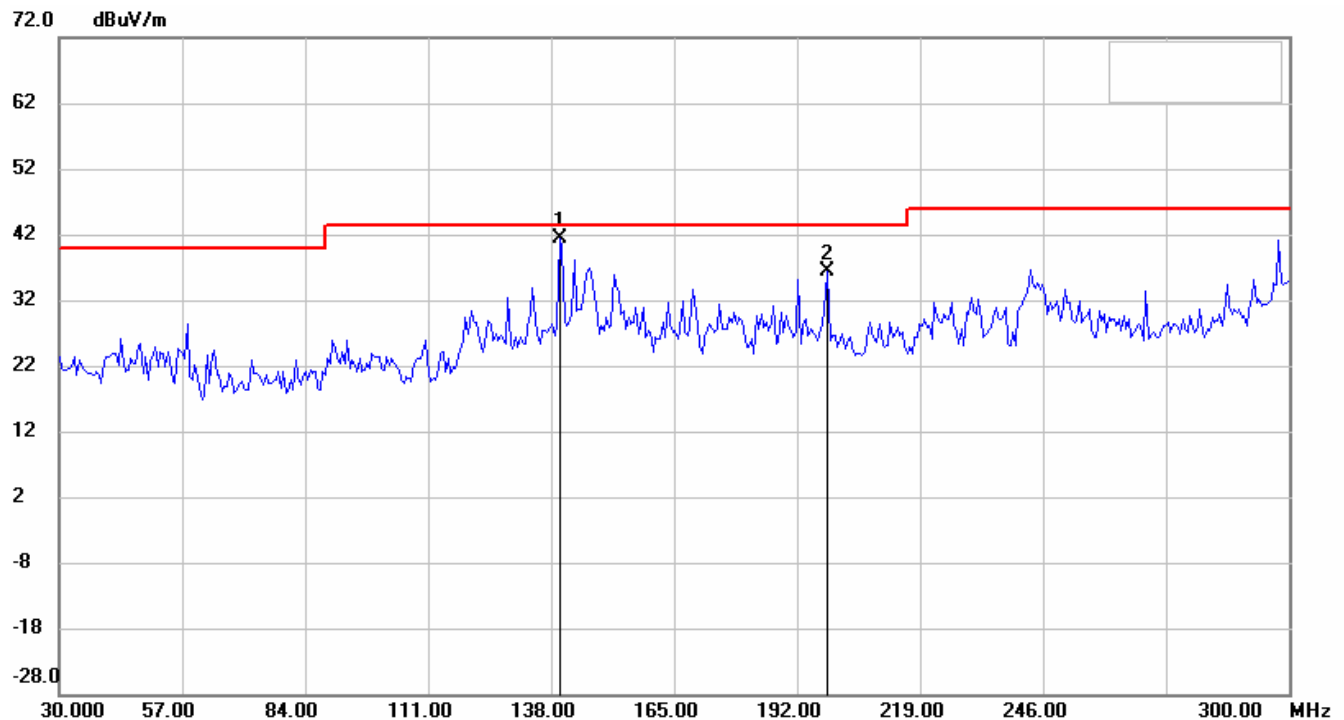
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Registration number: W6M20805-9080-P-15
FCC ID: WBI-UFH-C130

RX Mode_CH 1

Antenna Polarization H



Up Line: Peak Limit Line

Down Line: Ave Limit Line

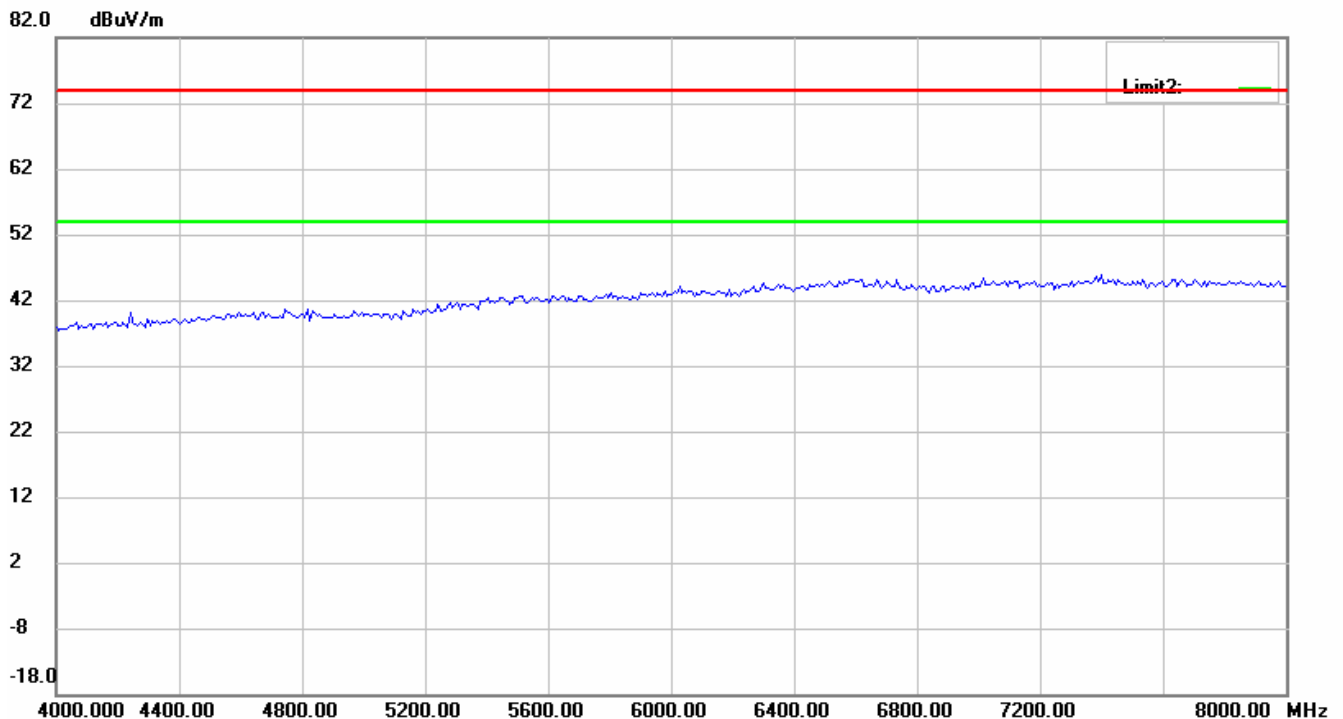
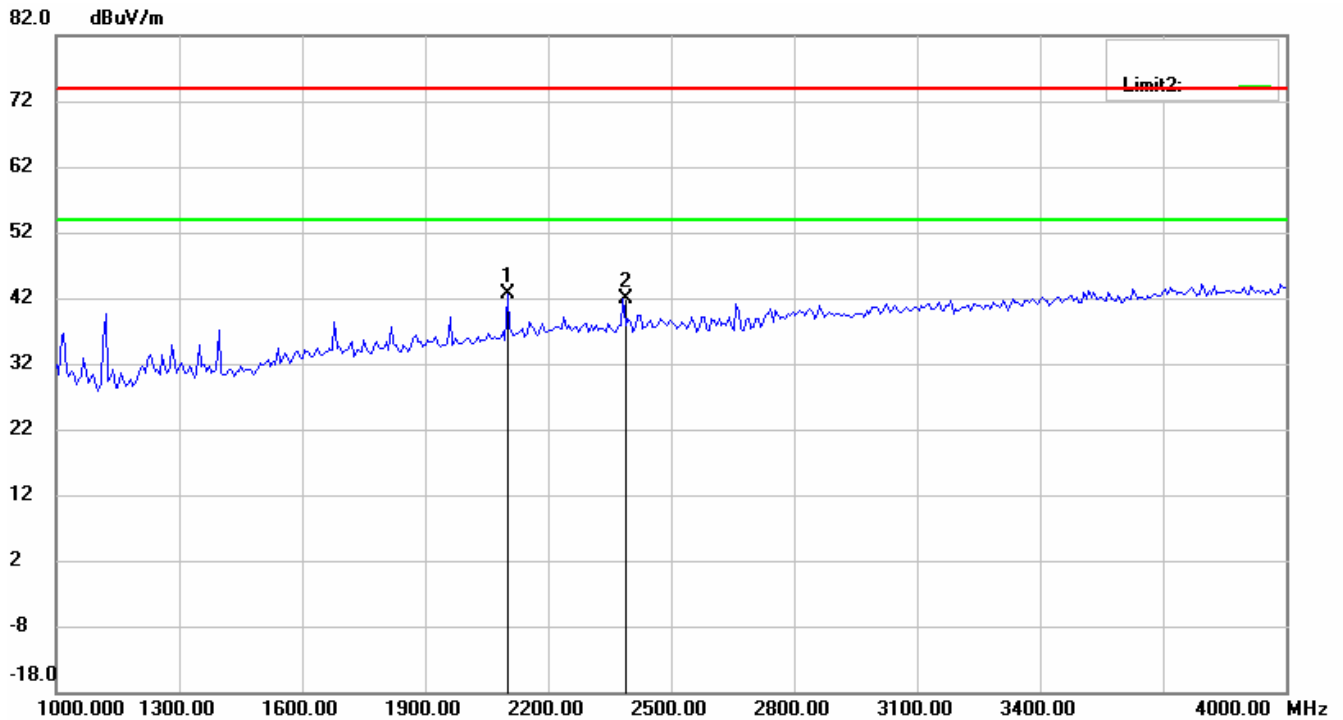
Note:

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Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20805-9080-P-15
FCC ID: WBI-UFH-C130



Up Line: Peak Limit Line
Down Line: Ave Limit Line

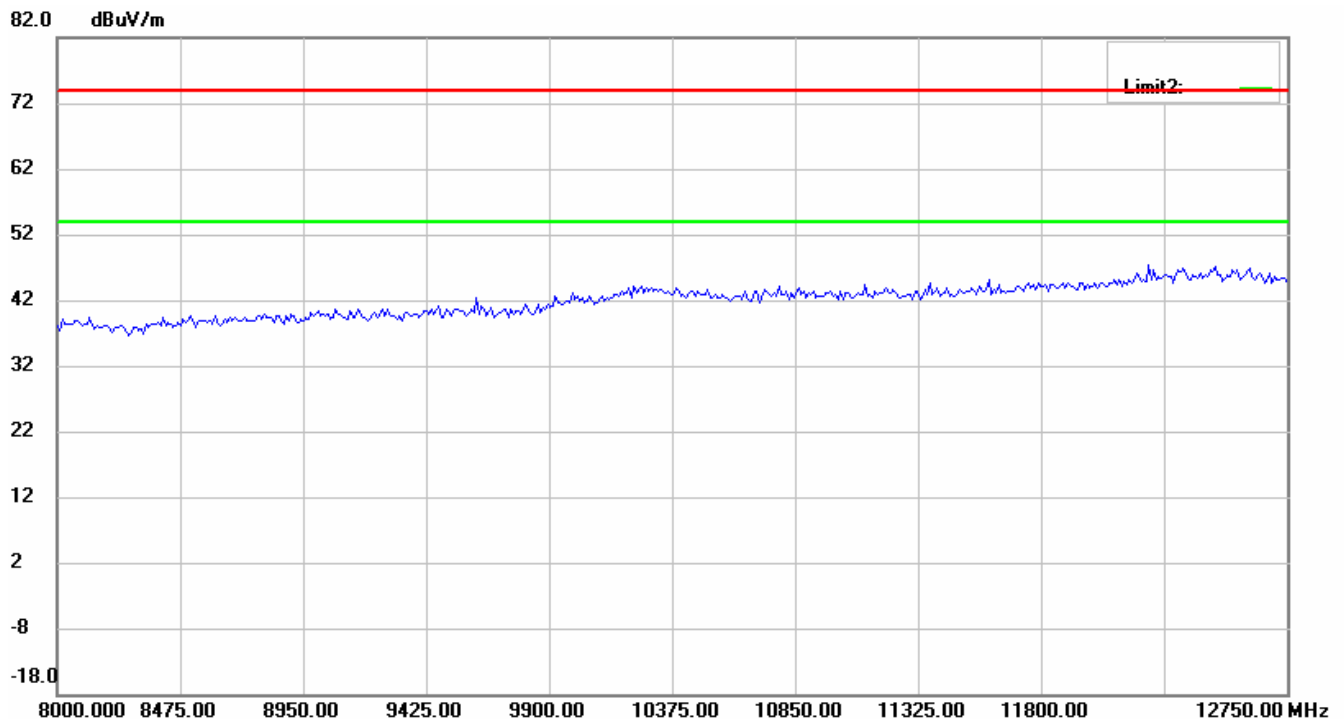
Note:

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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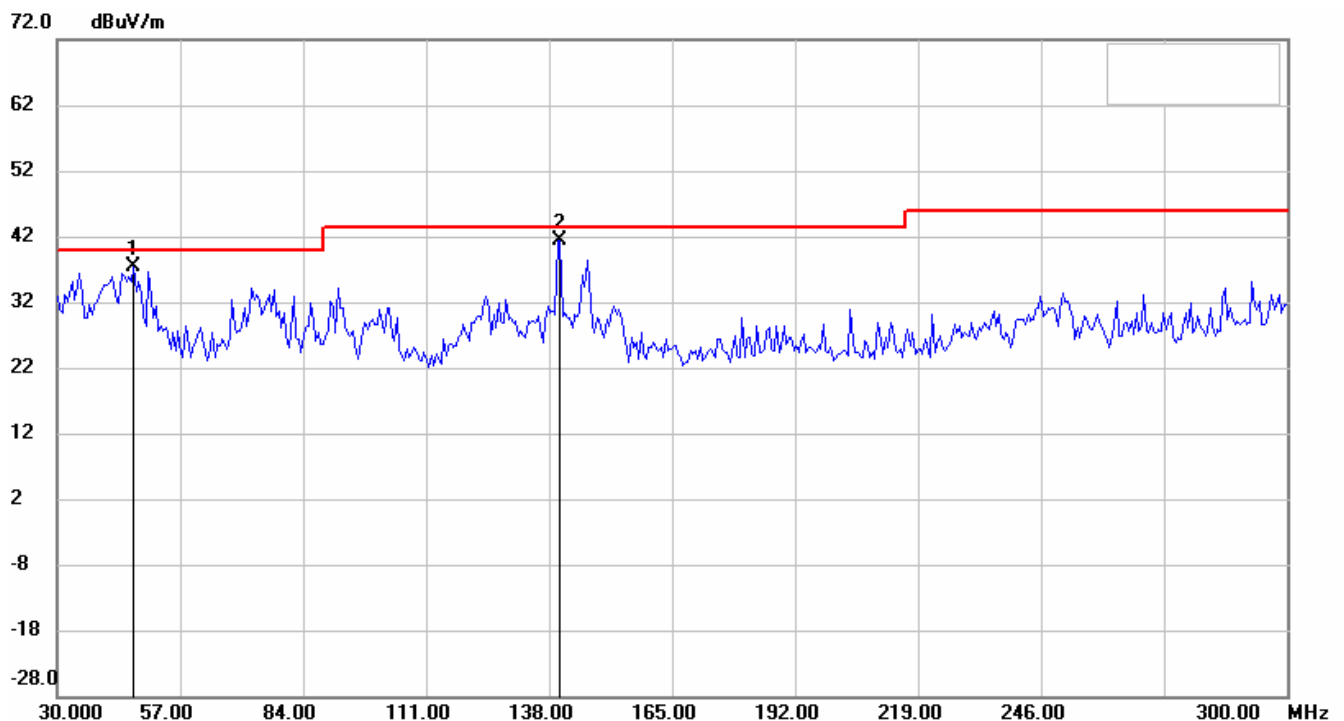


Registration number: W6M20805-9080-P-15

FCC ID: WBI-UFH-C130



Antenna Polarization V



Up Line: Peak Limit Line

Down Line: Ave Limit Line

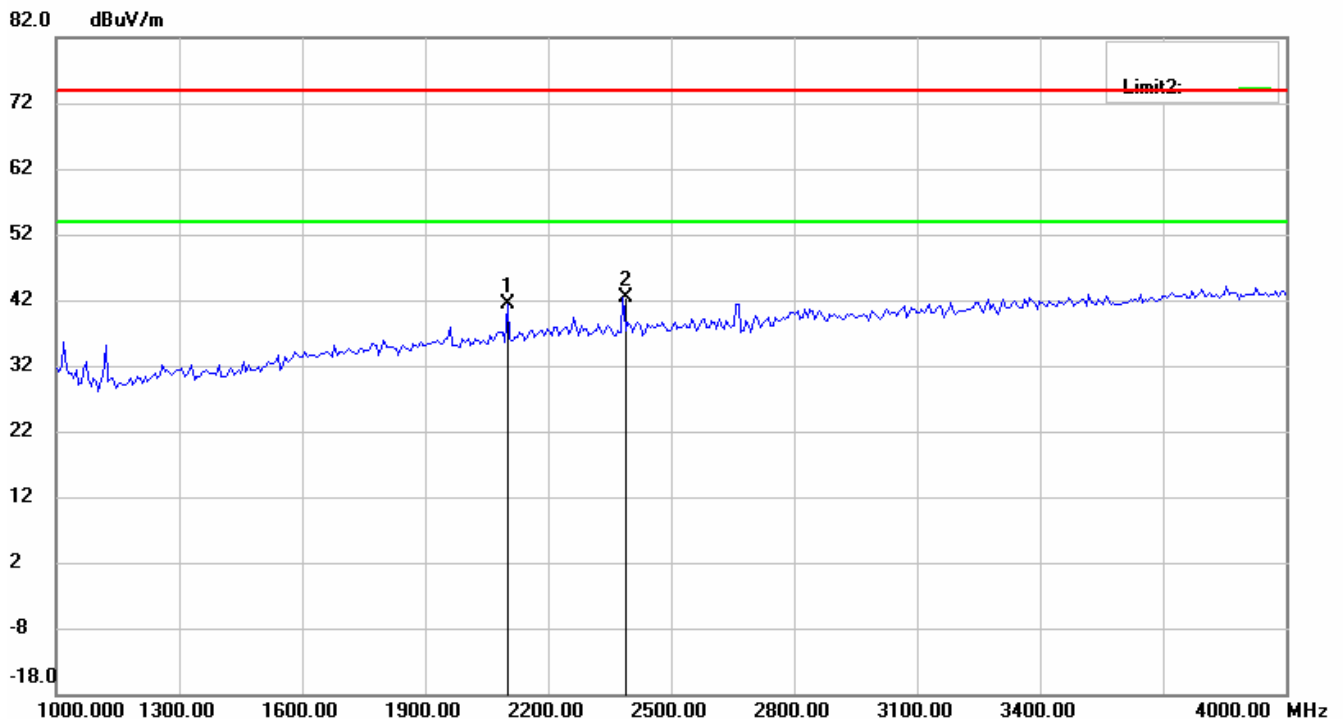
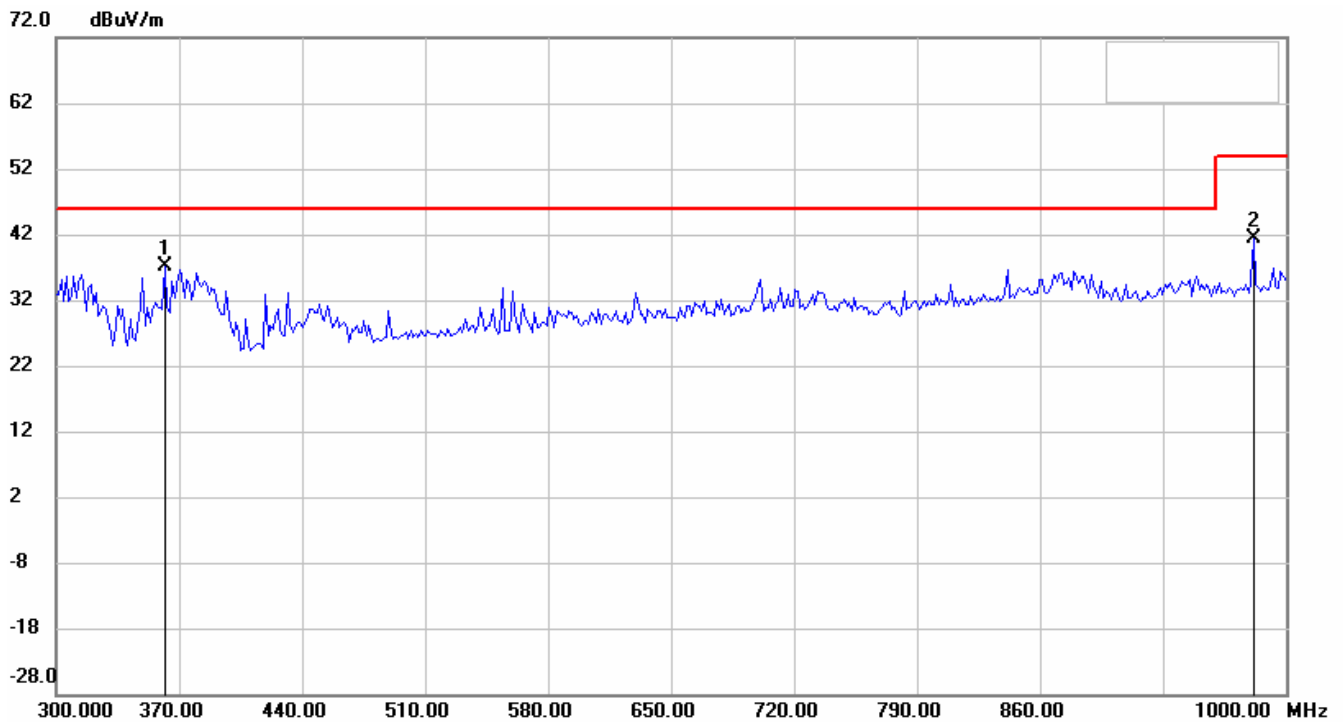
Note:

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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.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M20805-9080-P-15

FCC ID: WBI-UFH-C130



Up Line: Peak Limit Line

Down Line: Ave Limit Line

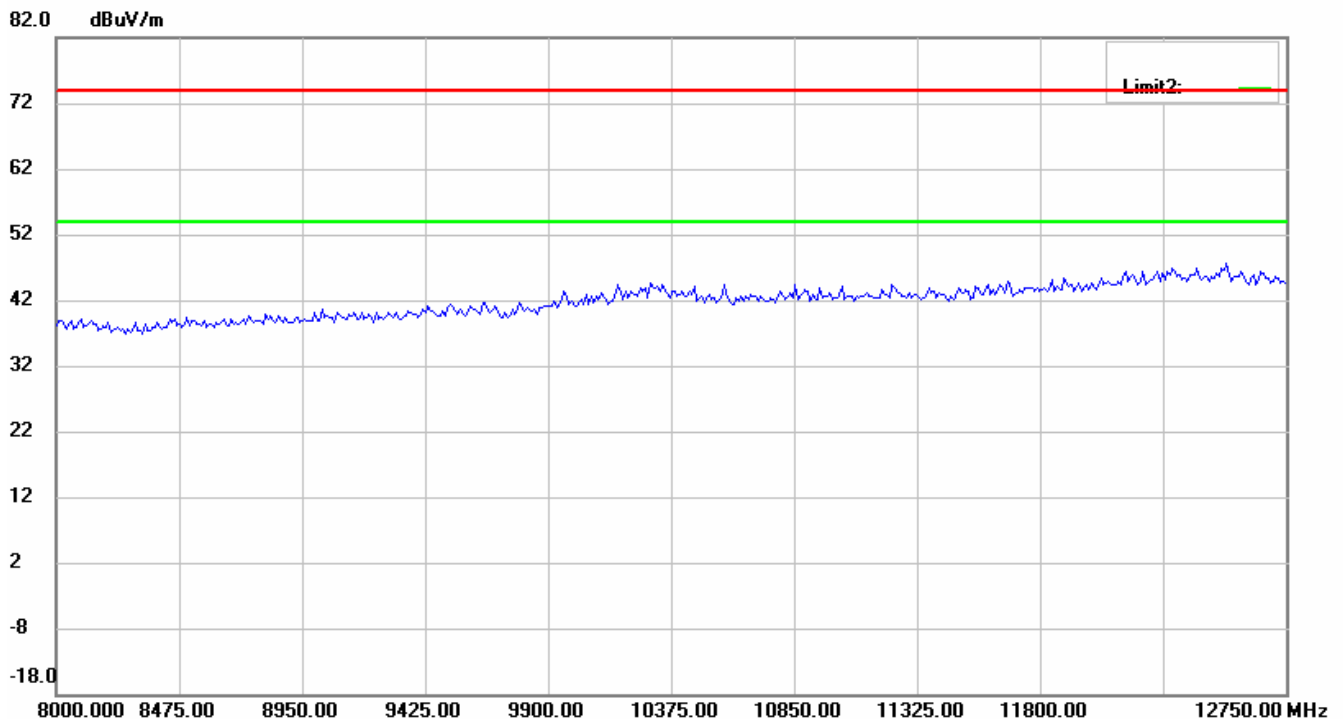
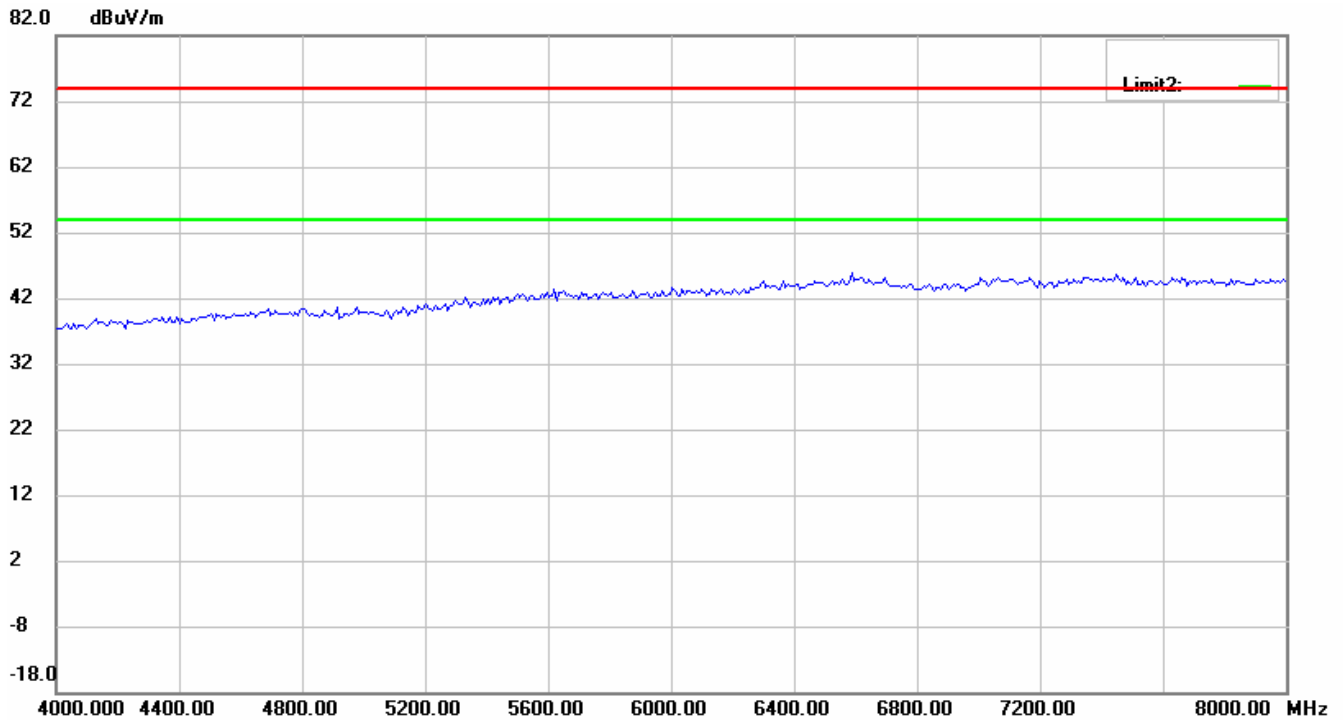
Note:

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.



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20805-9080-P-15
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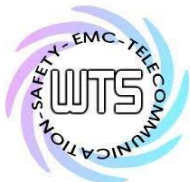


Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

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.

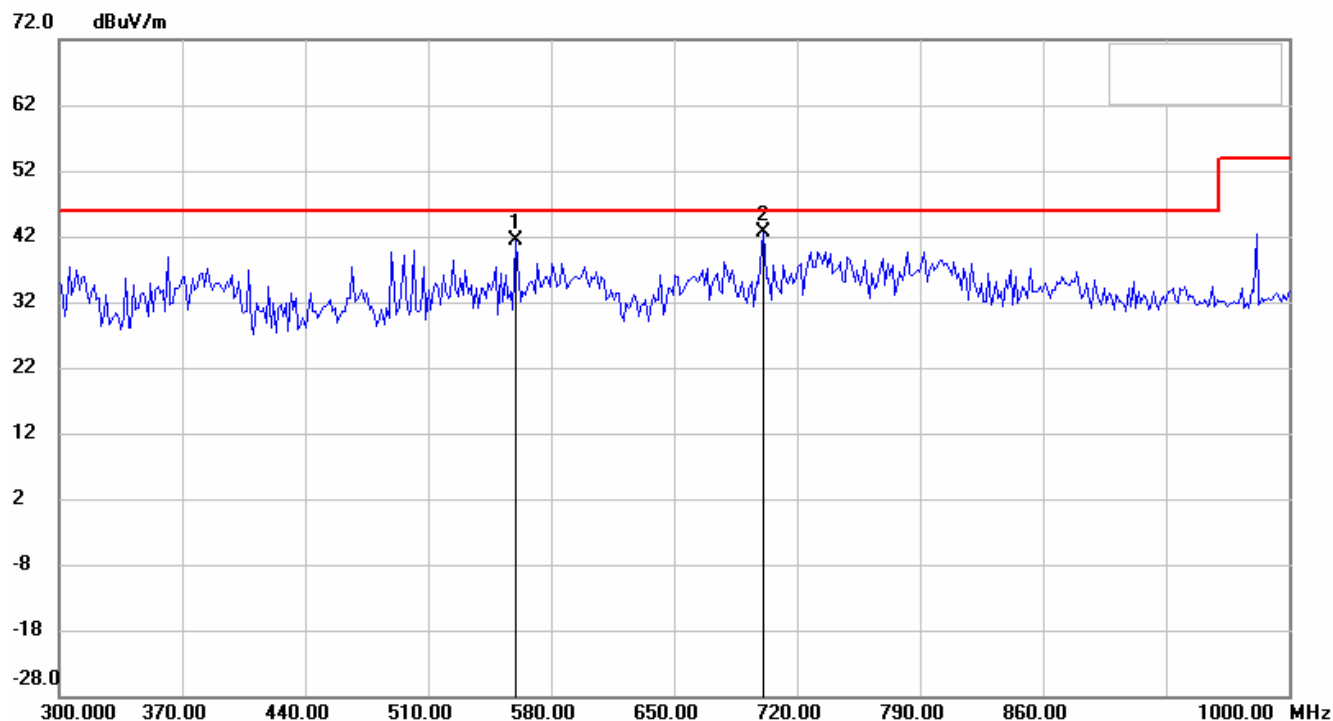
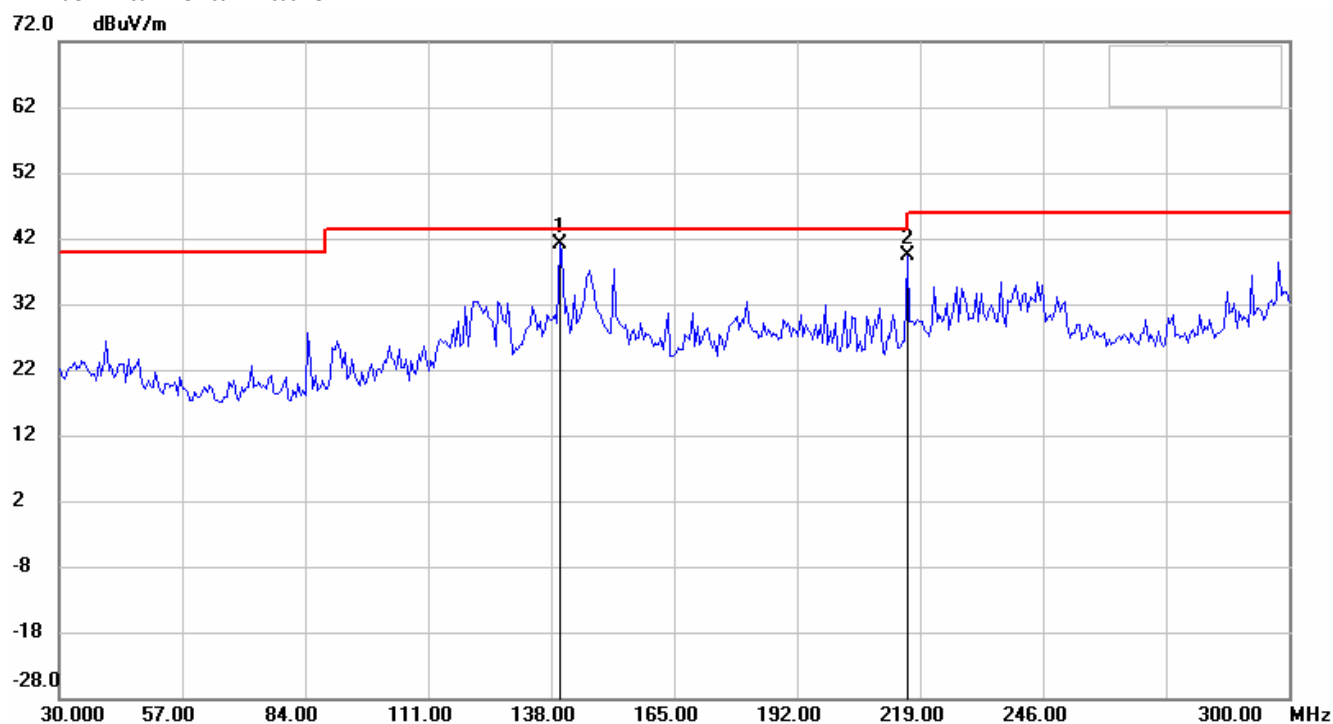


Registration number: W6M20805-9080-P-15

FCC ID: WBI-UFH-C130

RX Mode_CH 8

Antenna Polarization H



Up Line: Peak Limit Line

Down Line: Ave Limit Line

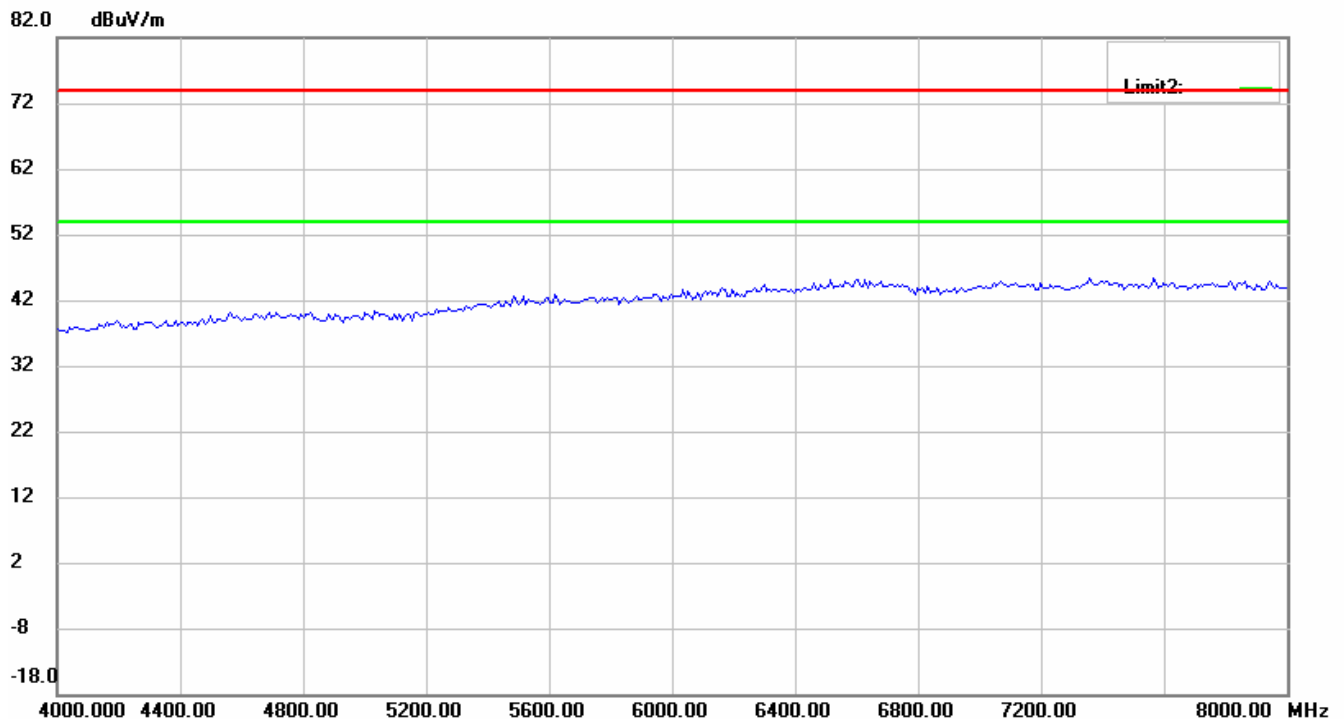
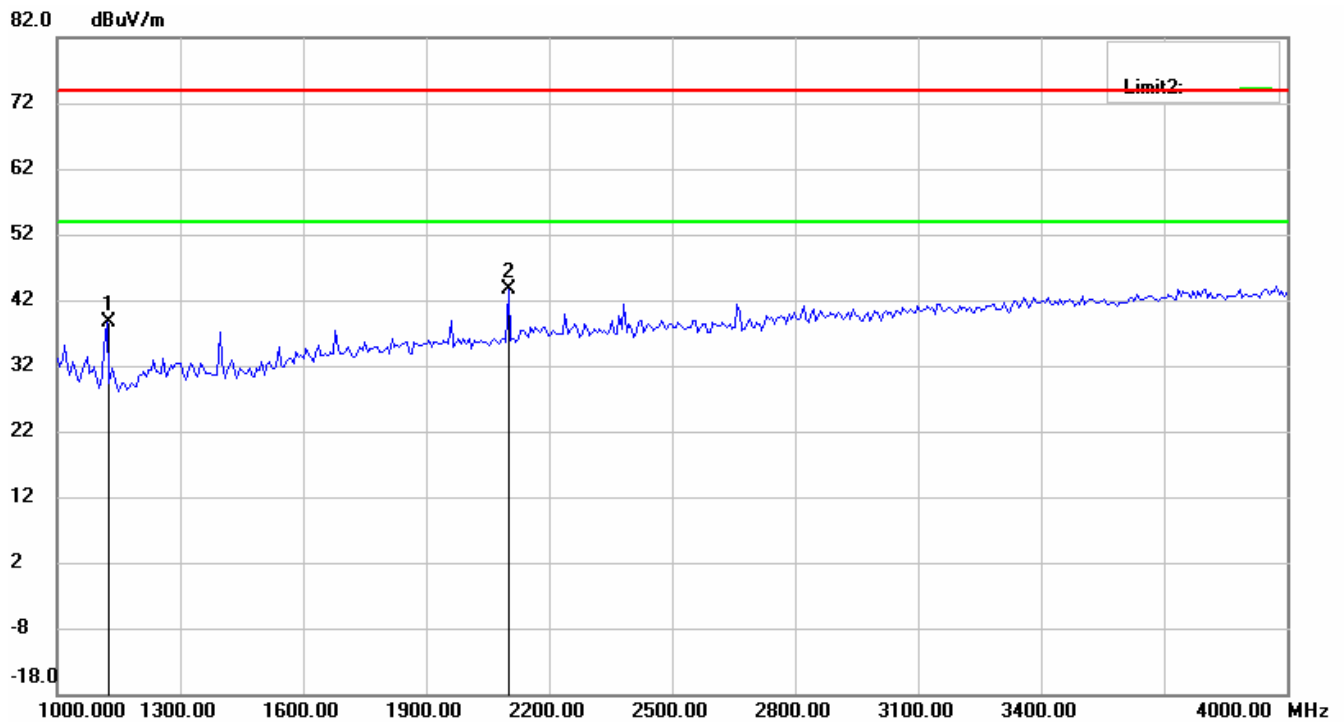
Note:

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.



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20805-9080-P-15
FCC ID: WBI-UFH-C130



Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

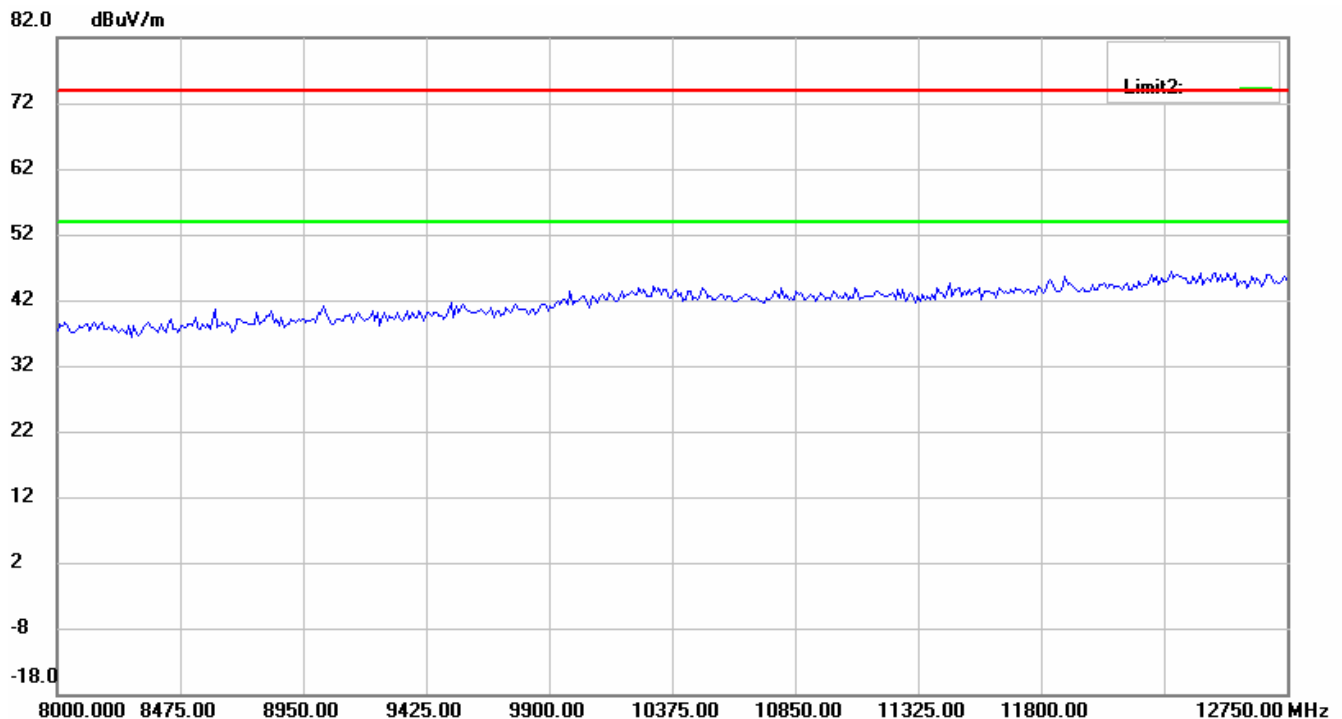
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification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



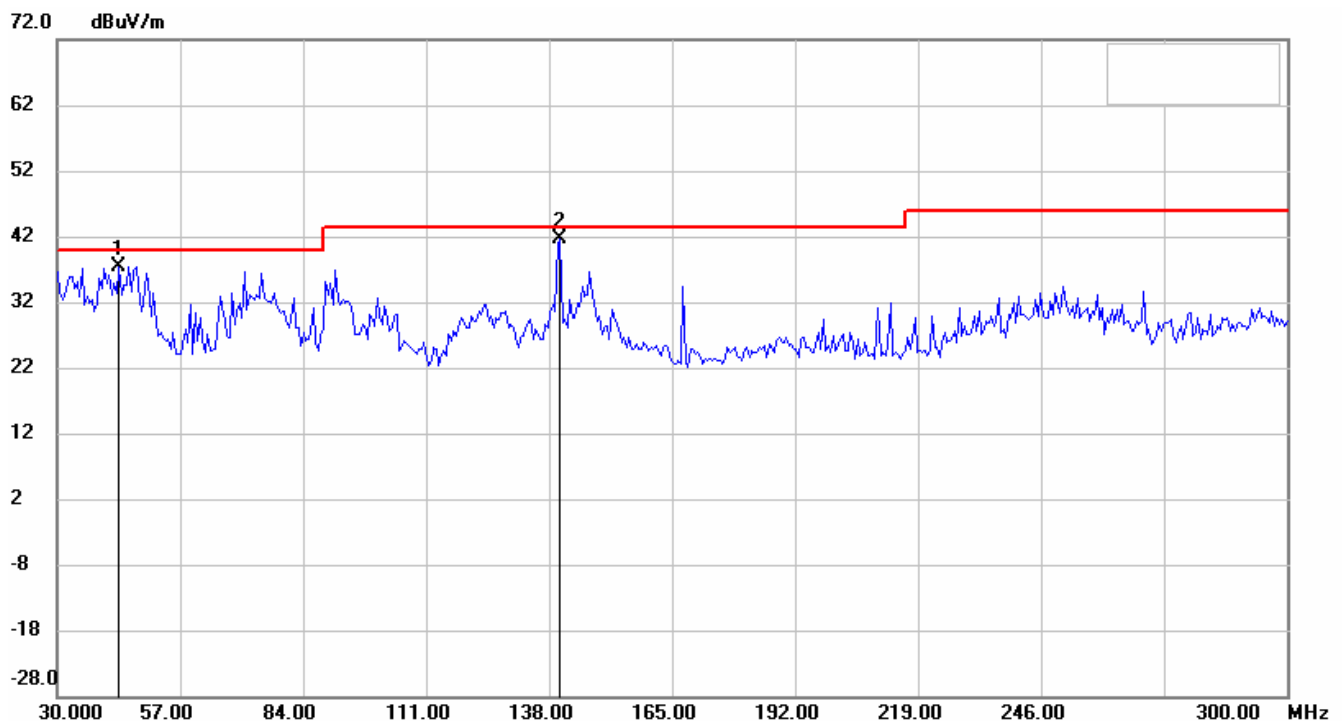
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20805-9080-P-15

FCC ID: WBI-UFH-C130



Antenna Polarization V



Up Line: Peak Limit Line

Down Line: Ave Limit Line

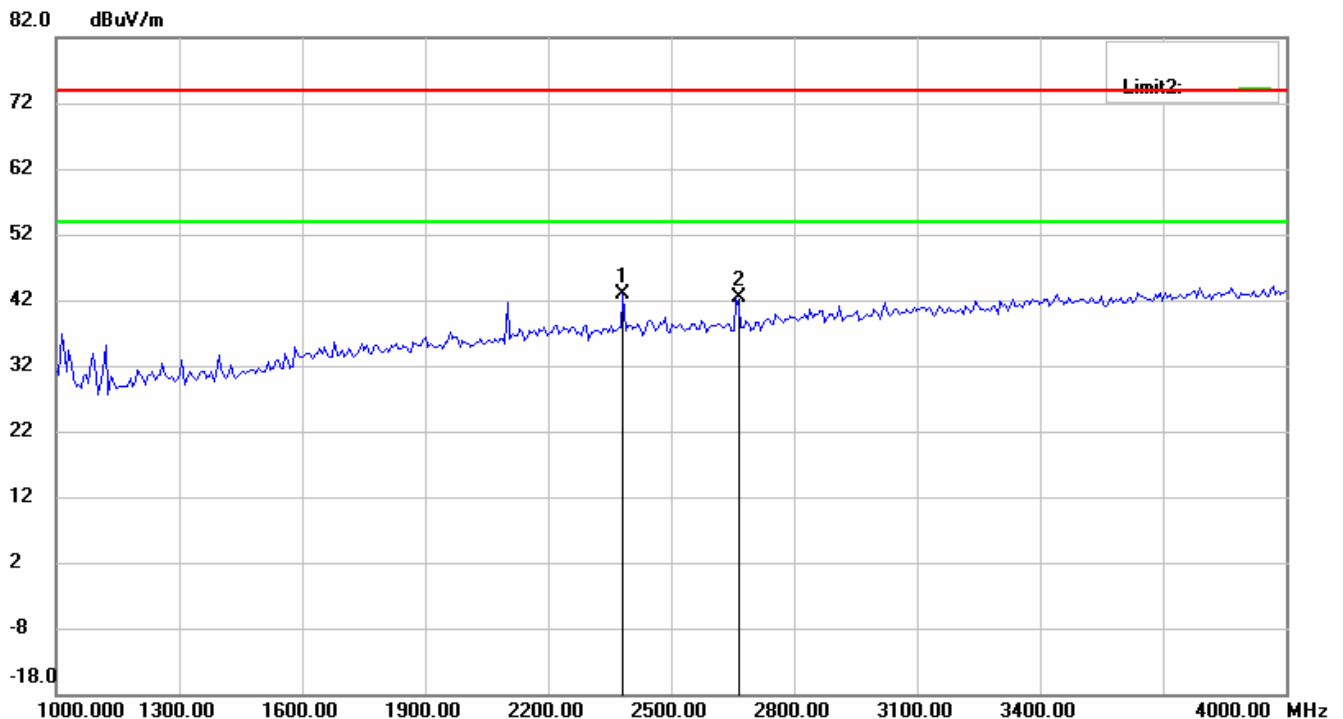
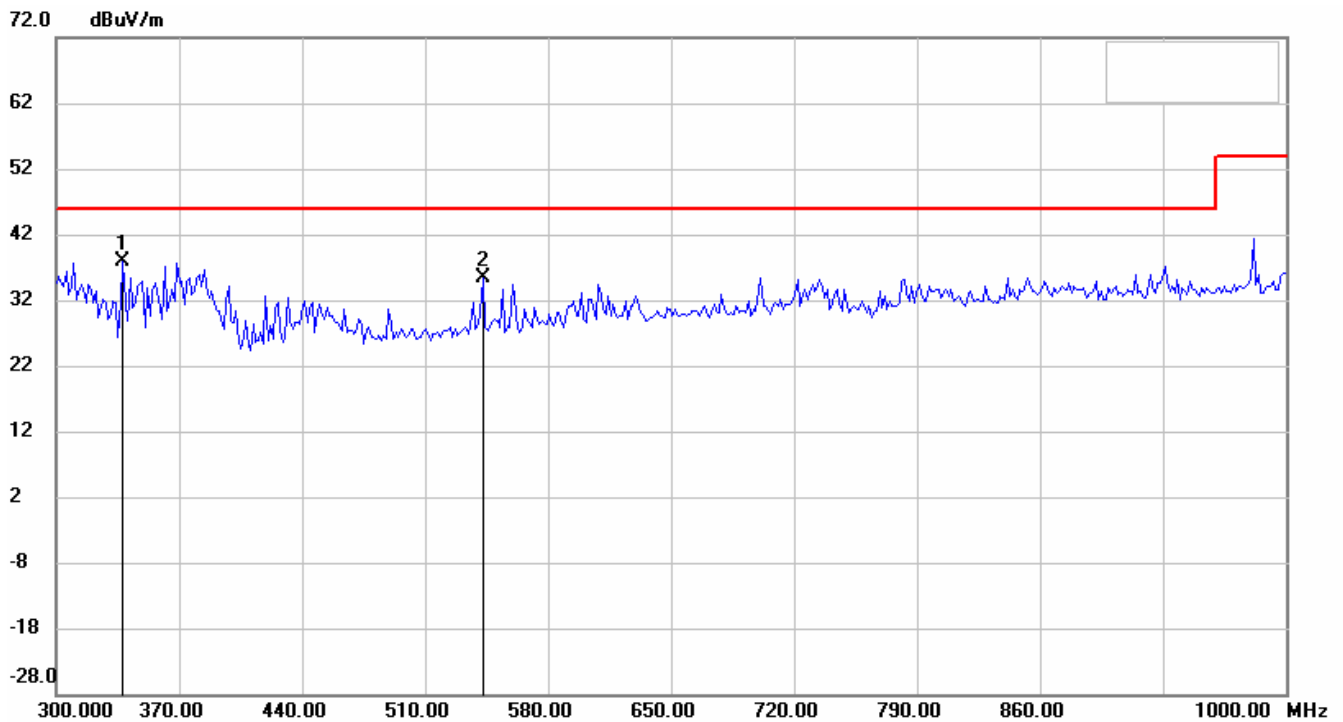
Note:

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.



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20805-9080-P-15
FCC ID: WBI-UFH-C130



Up Line: Peak Limit Line
Down Line: Ave Limit Line

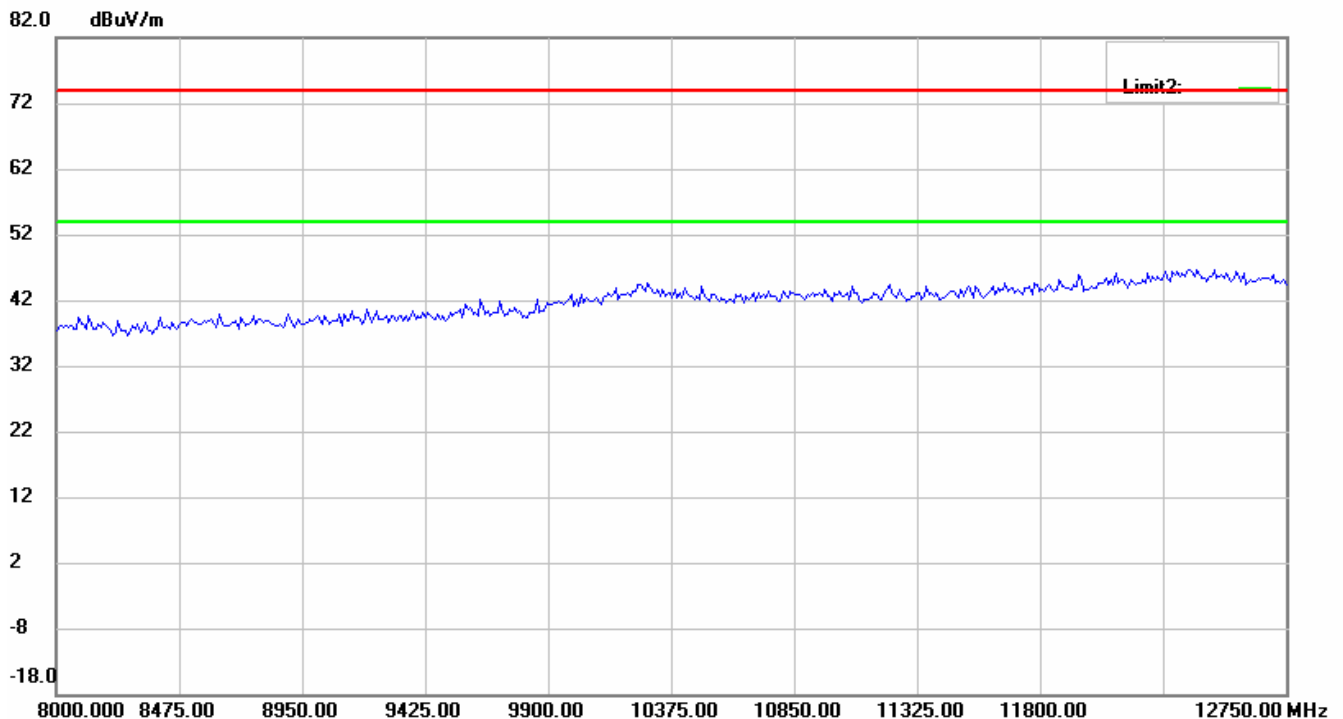
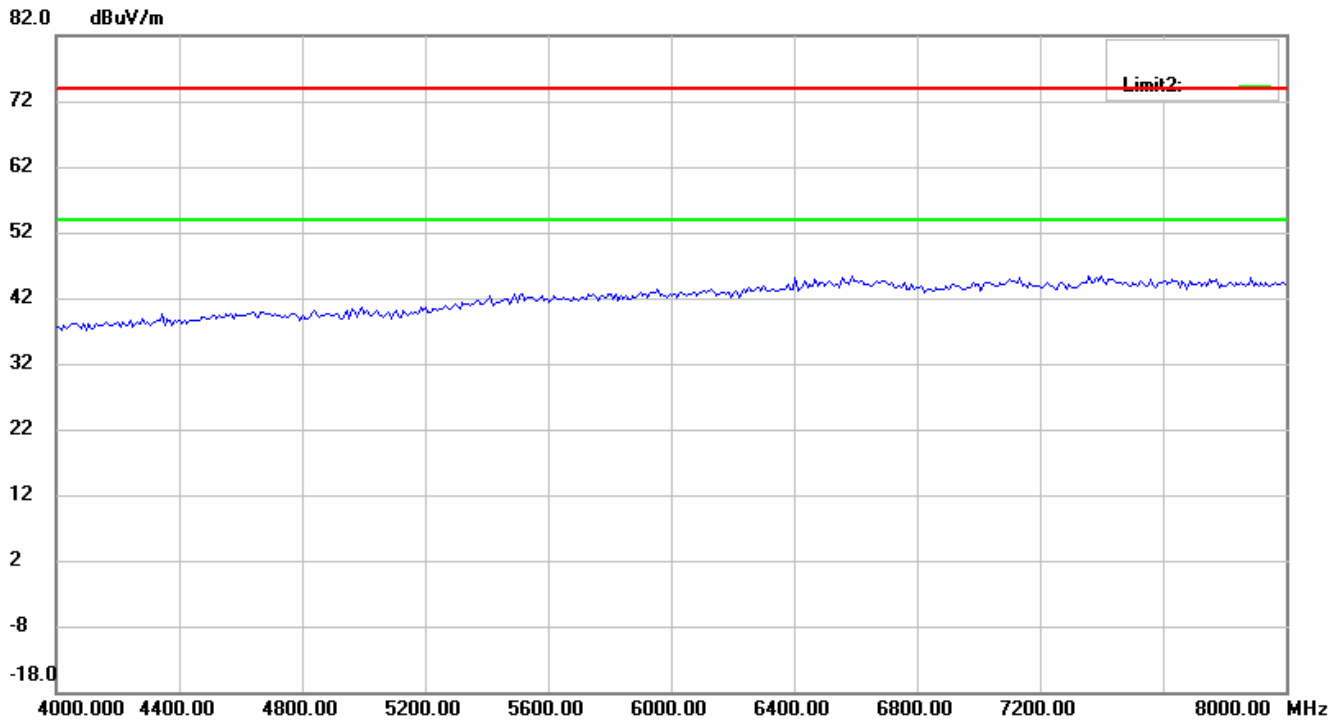
Note:

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.



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20805-9080-P-15
FCC ID: WBI-UFH-C130



Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

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.

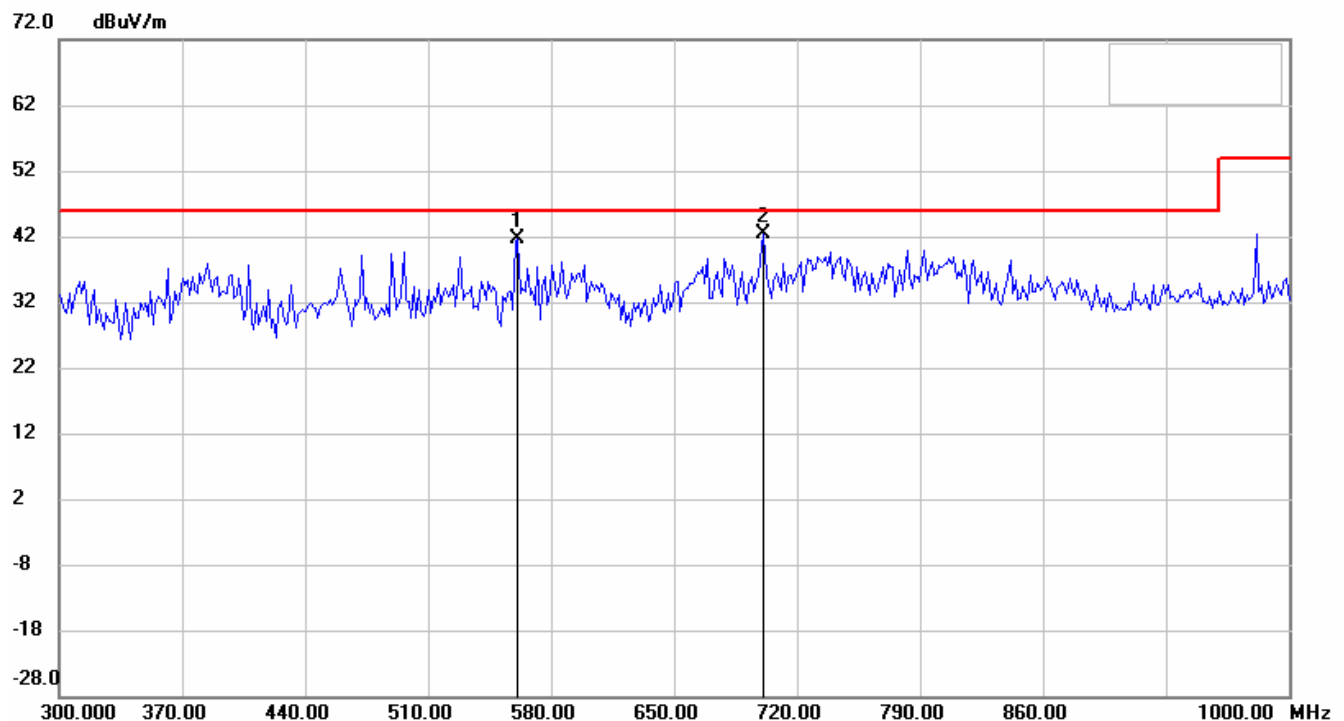
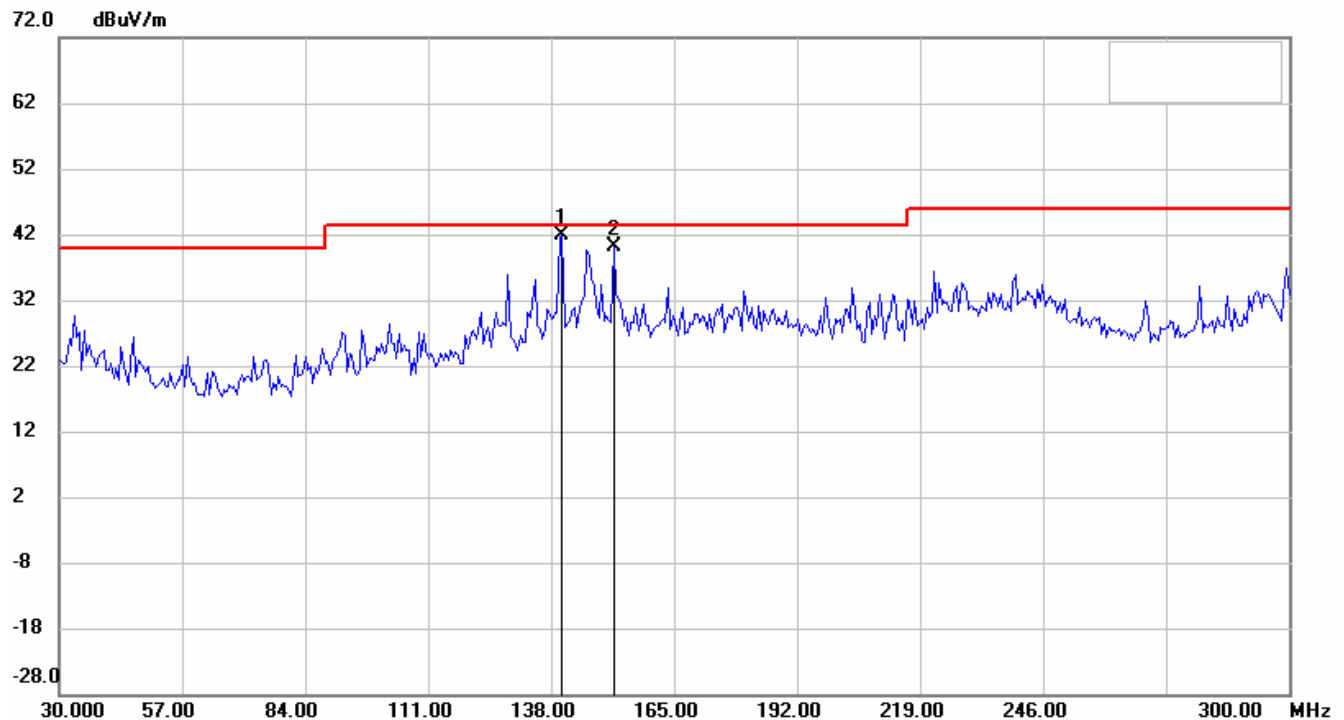


Registration number: W6M20805-9080-P-15

FCC ID: WBI-UFH-C130

RX Mode_CH 16

Antenna Polarization H



Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

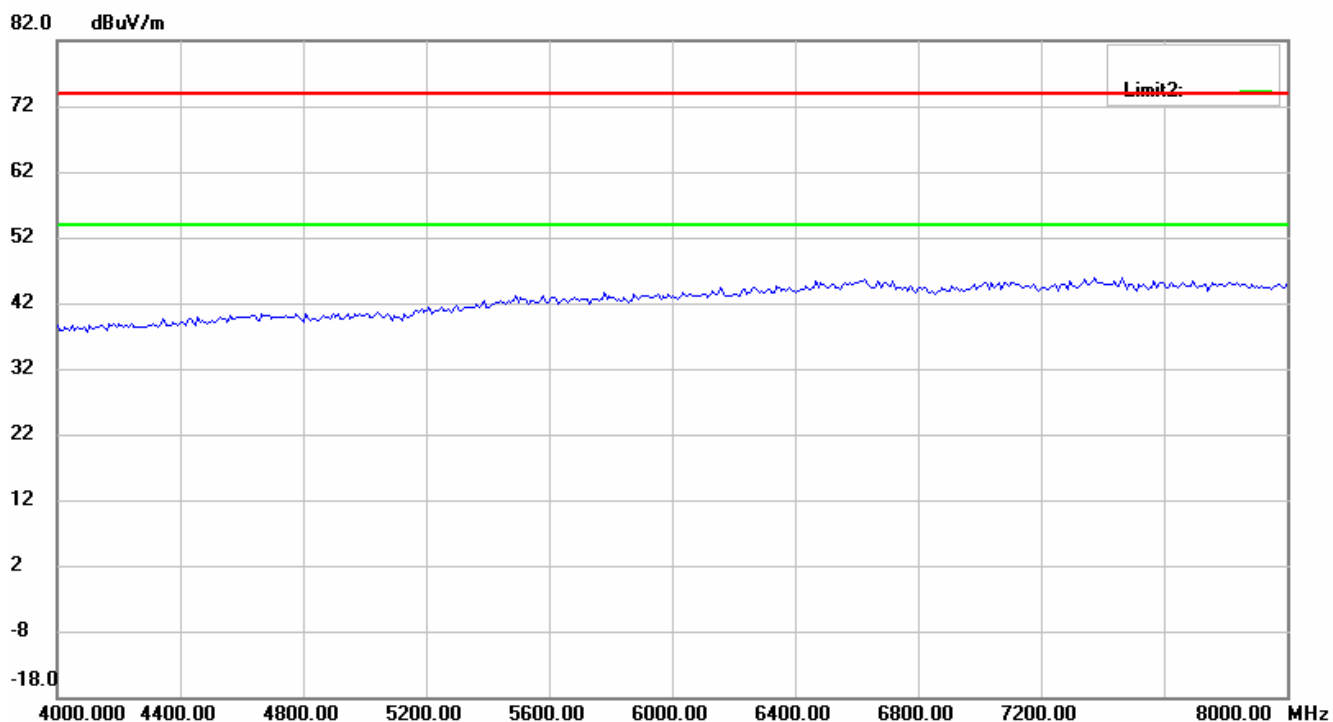
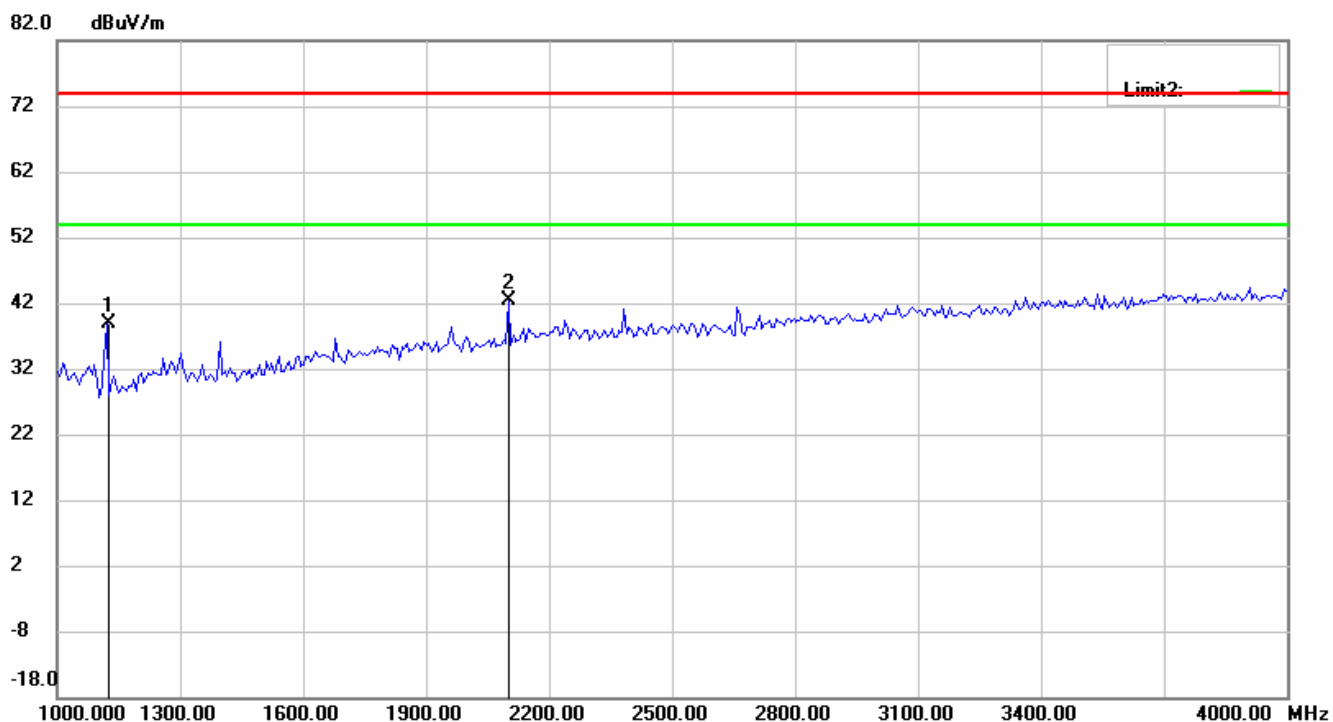
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification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



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20805-9080-P-15

FCC ID: WBI-UFH-C130



Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

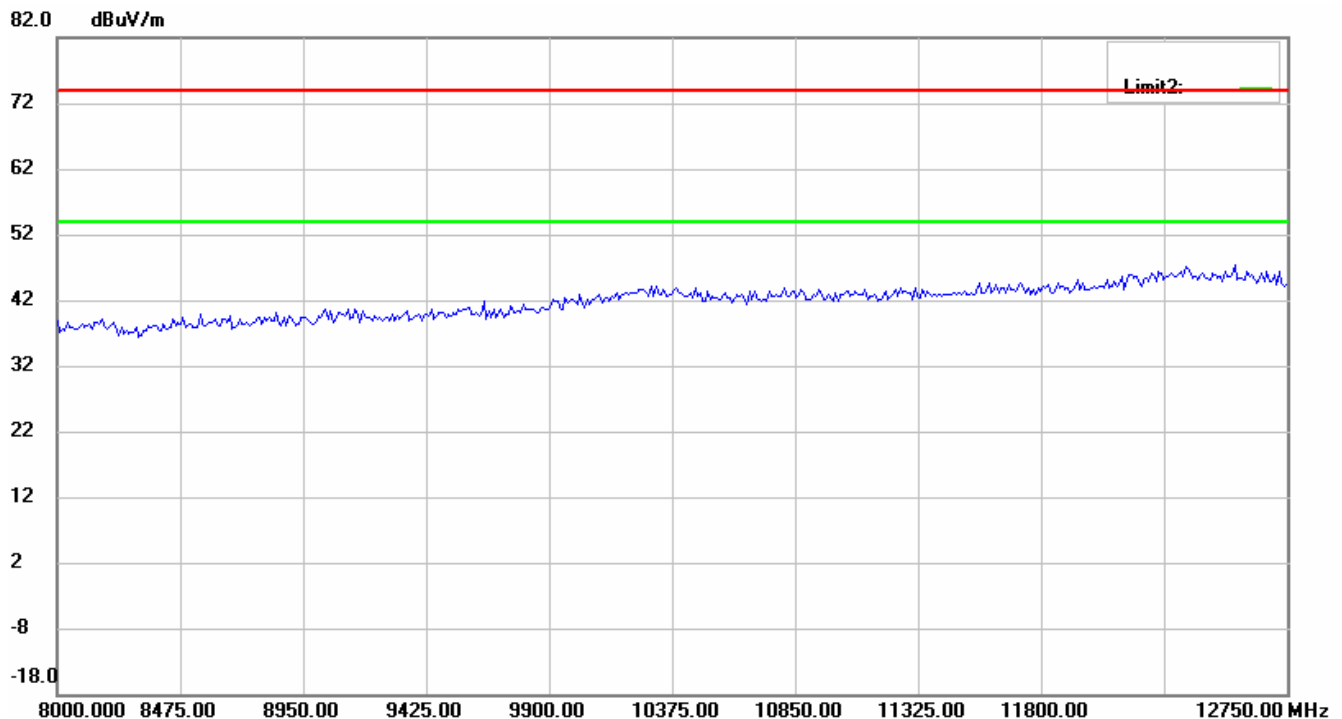
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification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



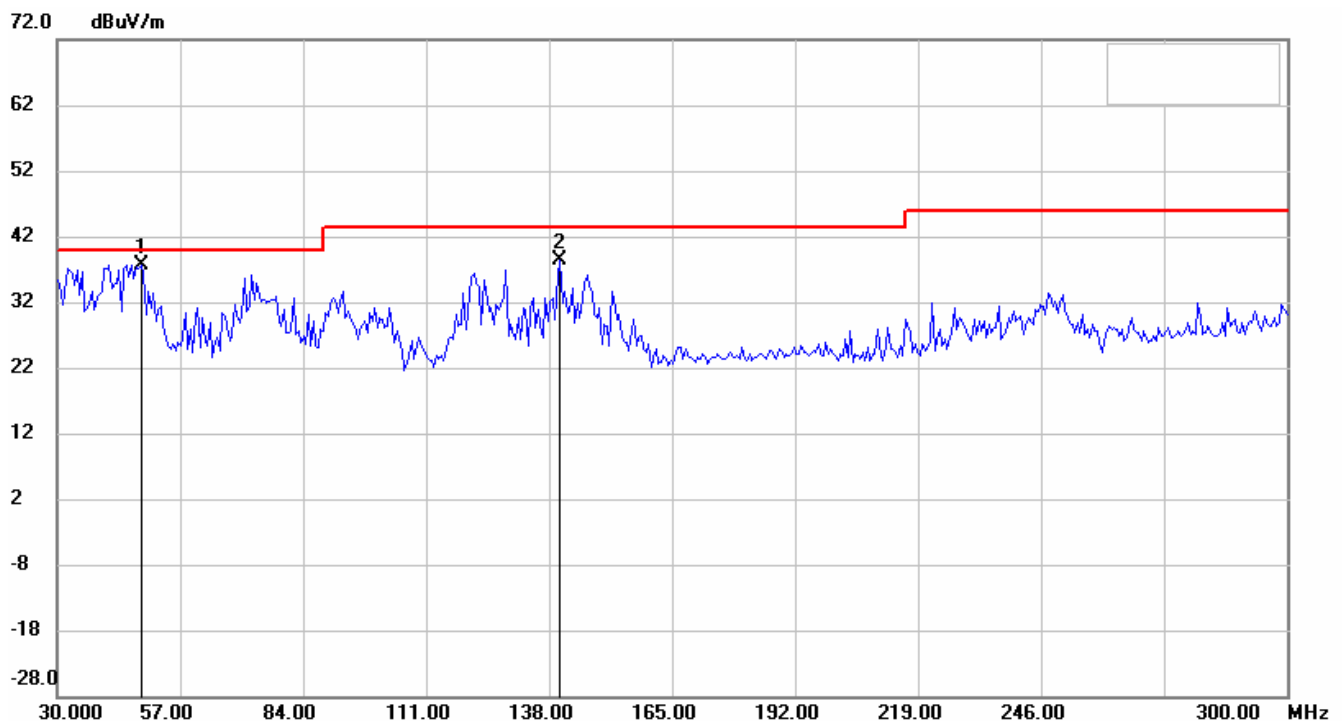
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20805-9080-P-15

FCC ID: WBI-UFH-C130



Antenna Polarization V



Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

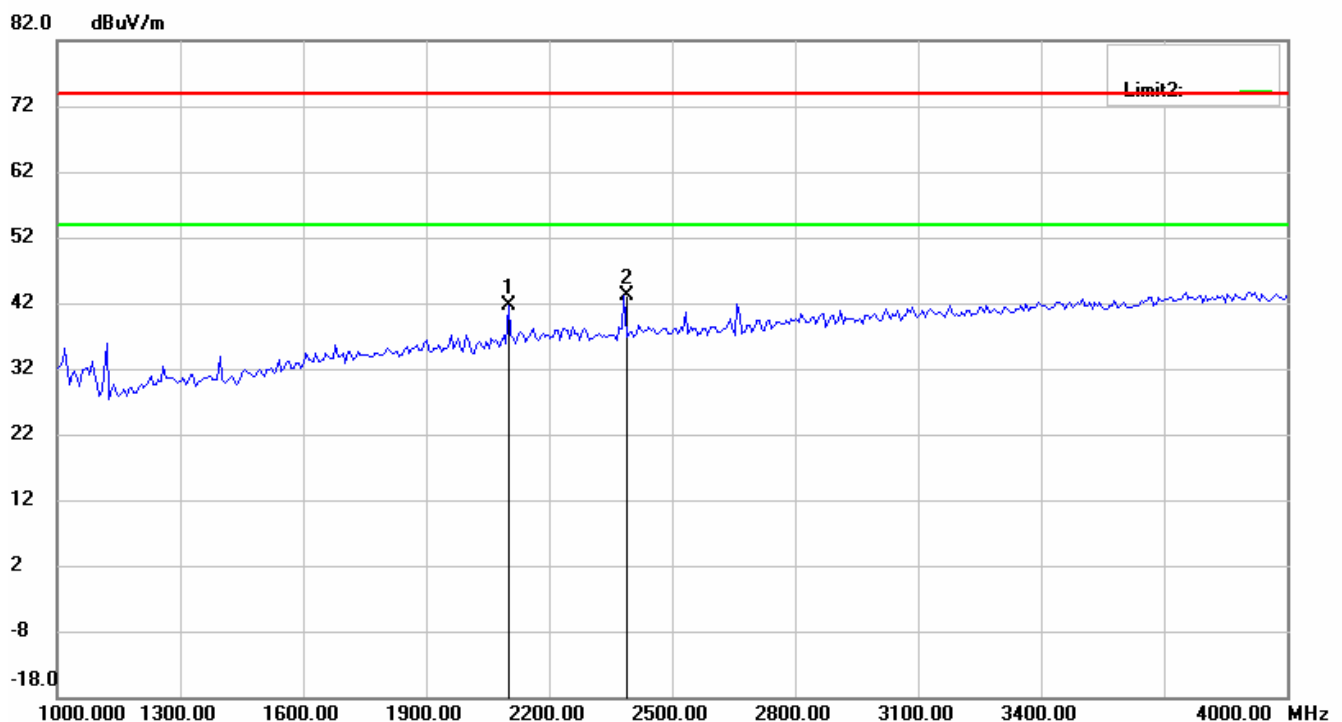
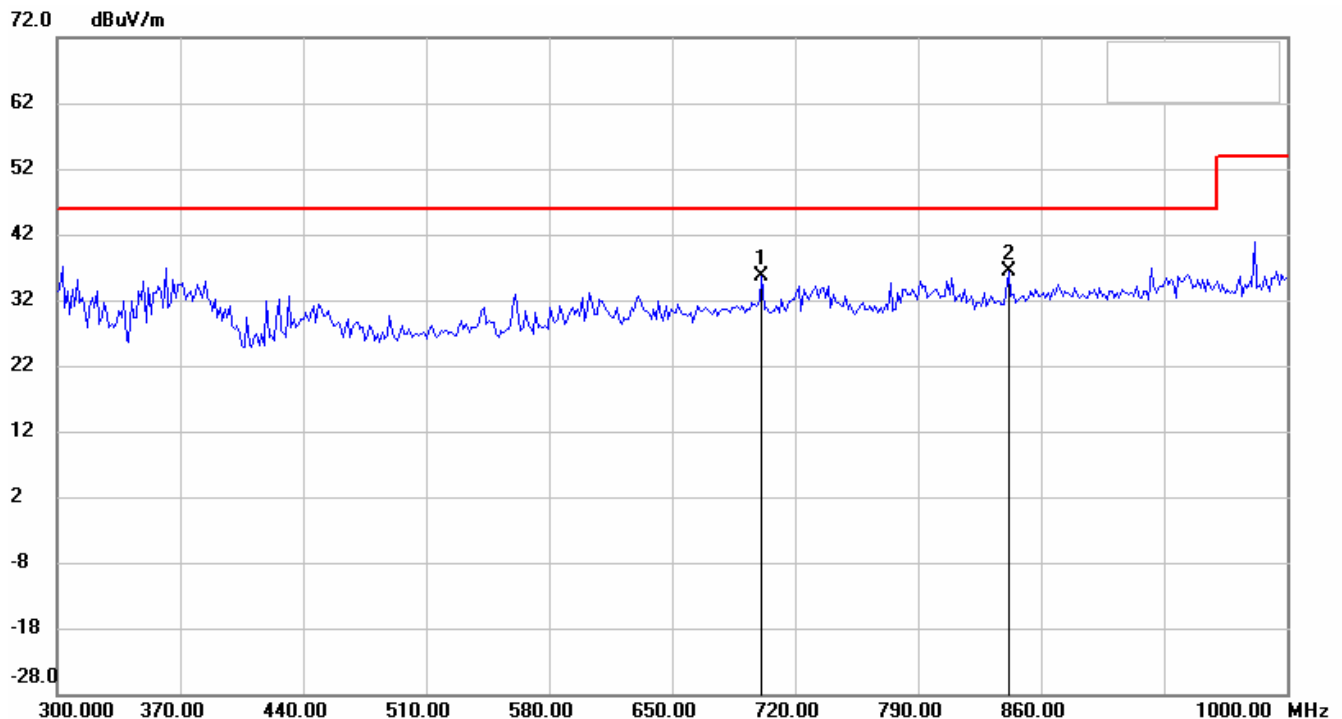
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification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



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20805-9080-P-15

FCC ID: WBI-UFH-C130



Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

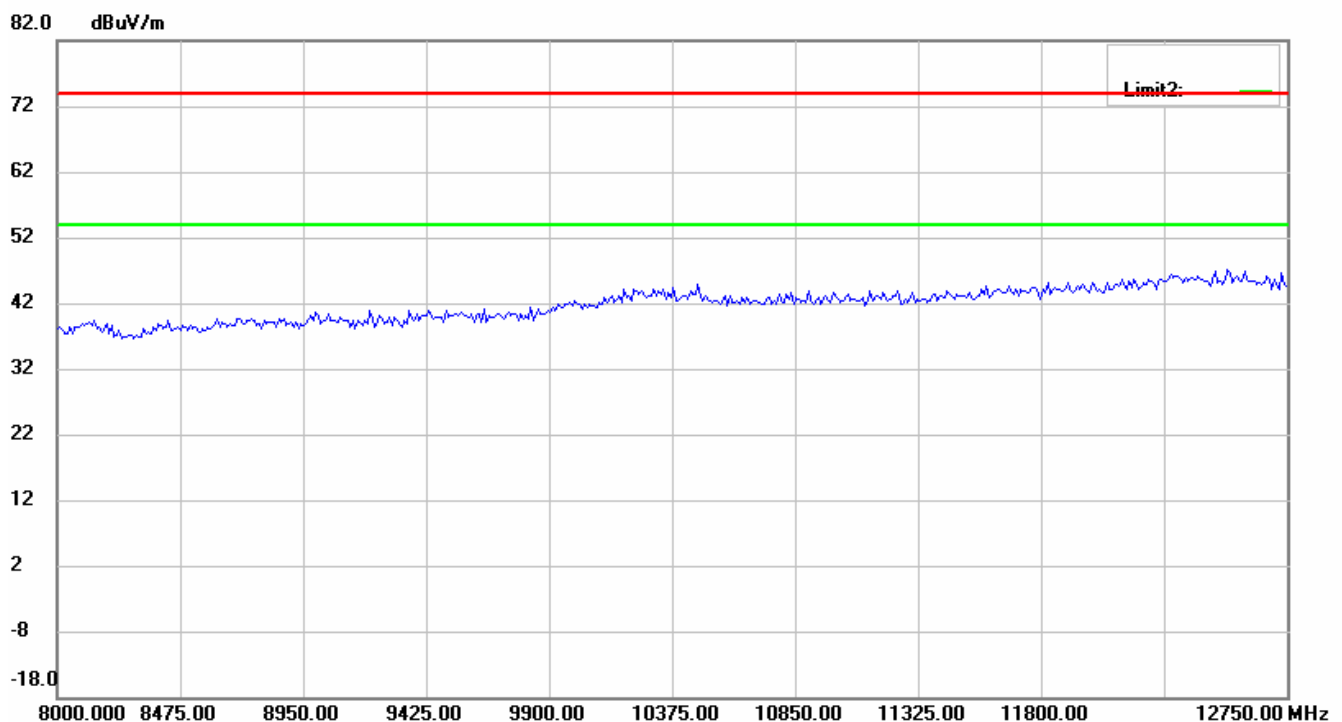
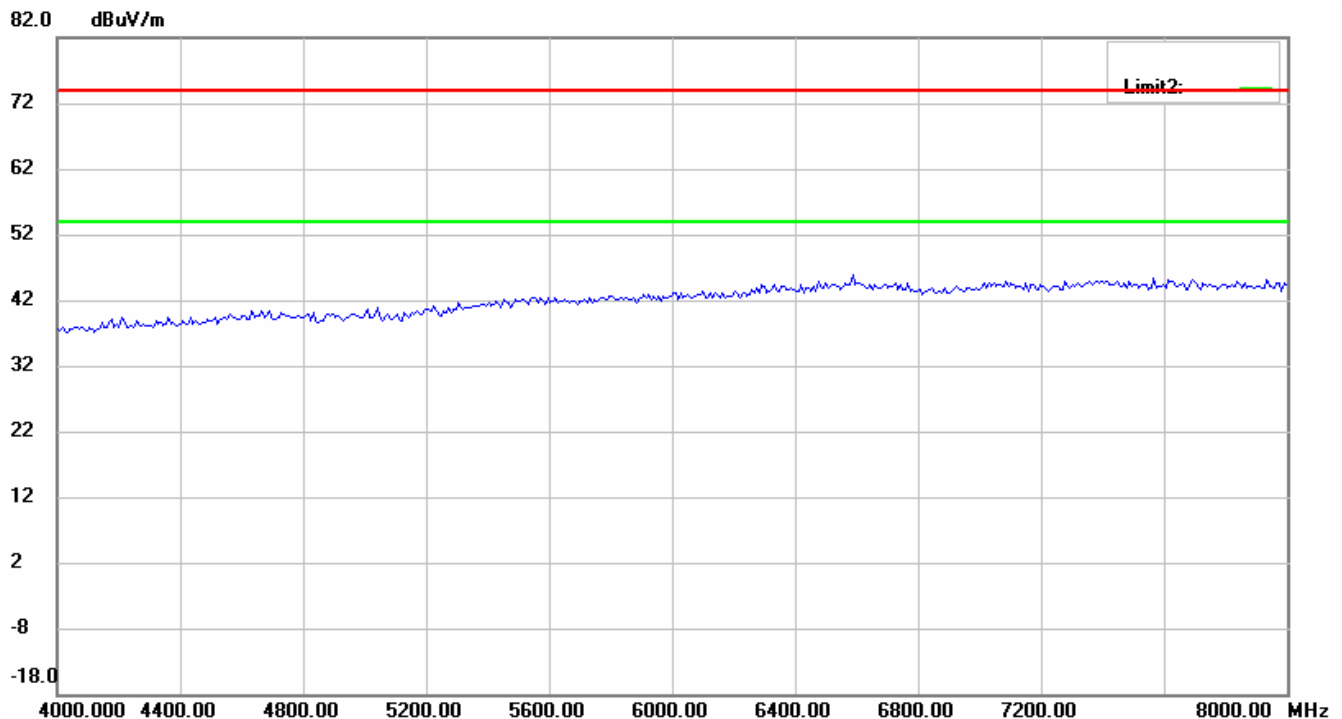
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification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



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20805-9080-P-15

FCC ID: WBI-UFH-C130



Up Line: Peak Limit Line

Down Line: Ave Limit Line

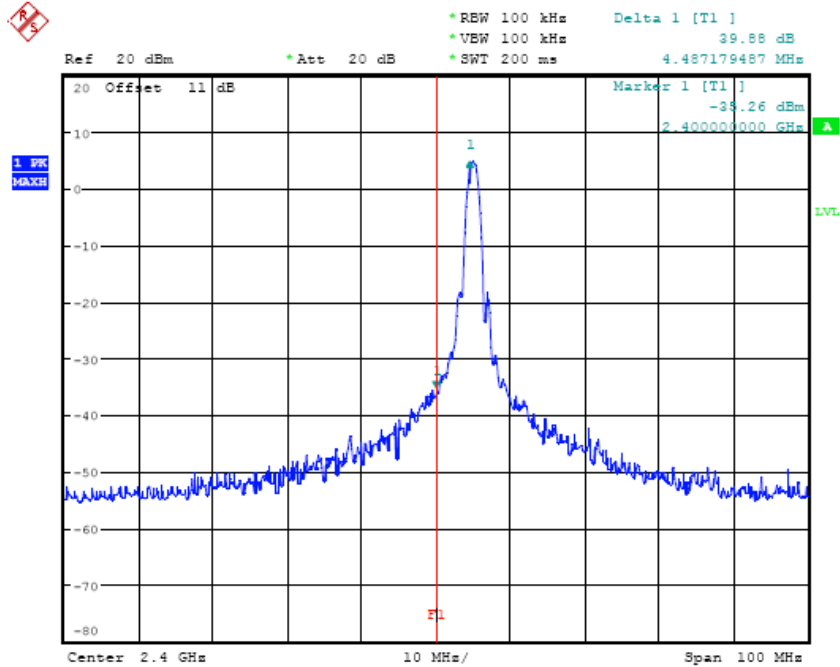
Note:

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.

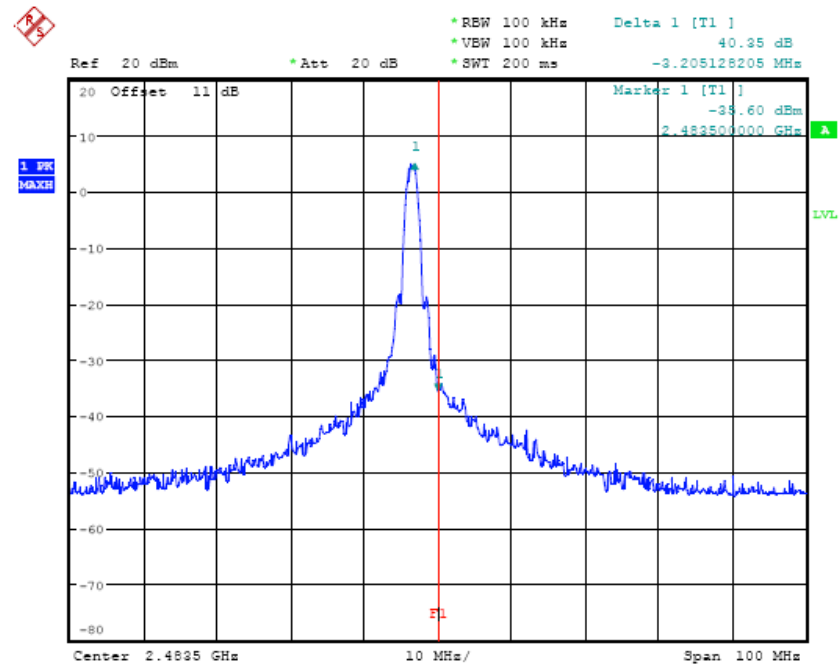


Registration number: W6M20805-9080-P-15
FCC ID: WBI-UFH-C130

Band Edge Measurement



BANDEDGE CH LOW
Date: 26.MAY.2008 09:04:12

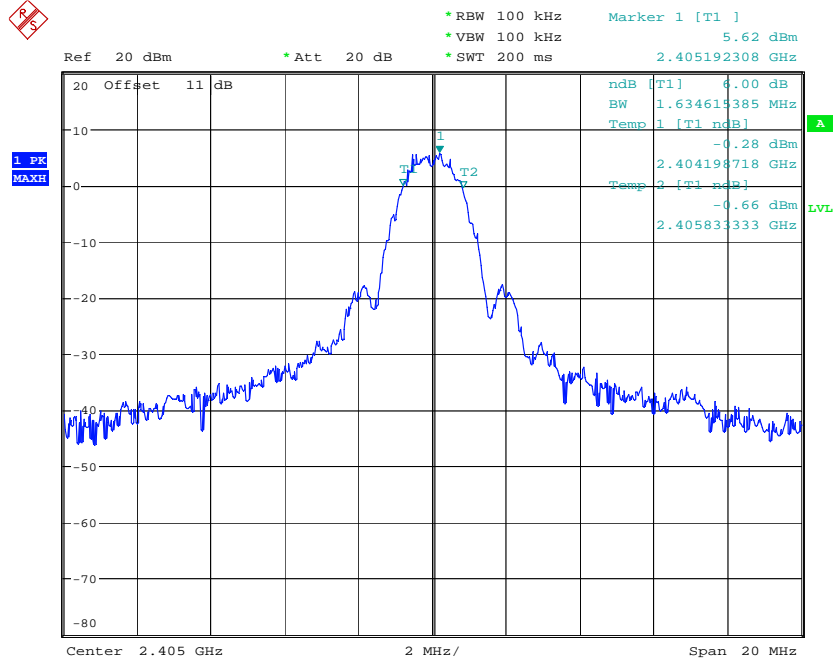


BANDEDGE CH HIGH
Date: 26.MAY.2008 09:21:36

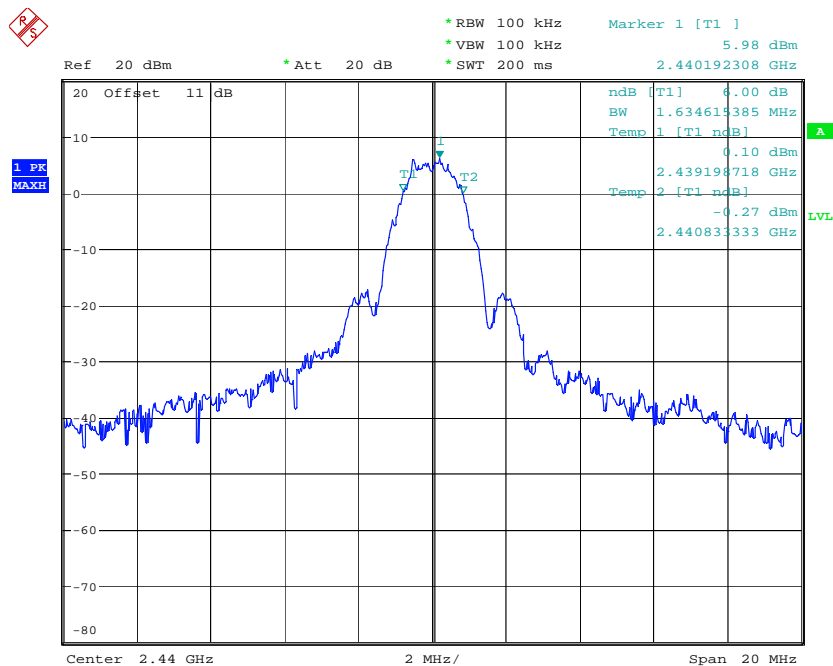


Registration number: W6M20805-9080-P-15
FCC ID: WBI-UFH-C130

Minimum 6dB Bandwidth



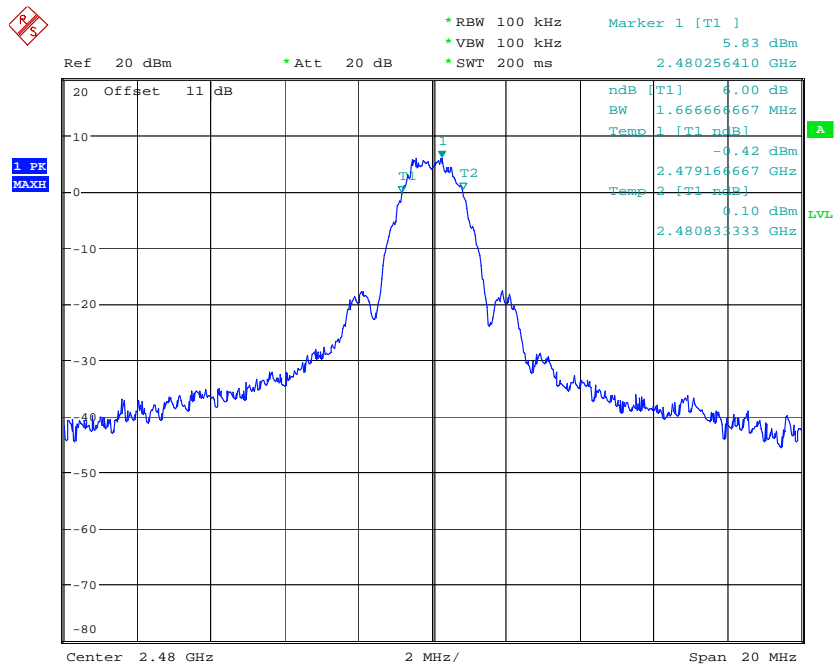
6dB BANDWIDTH CH LOW
Date: 26.MAY.2008 12:32:55



6dB BANDWIDTH CH MIDDLE
Date: 26.MAY.2008 12:34:15



Registration number: W6M20805-9080-P-15
FCC ID: WBI-UFH-C130



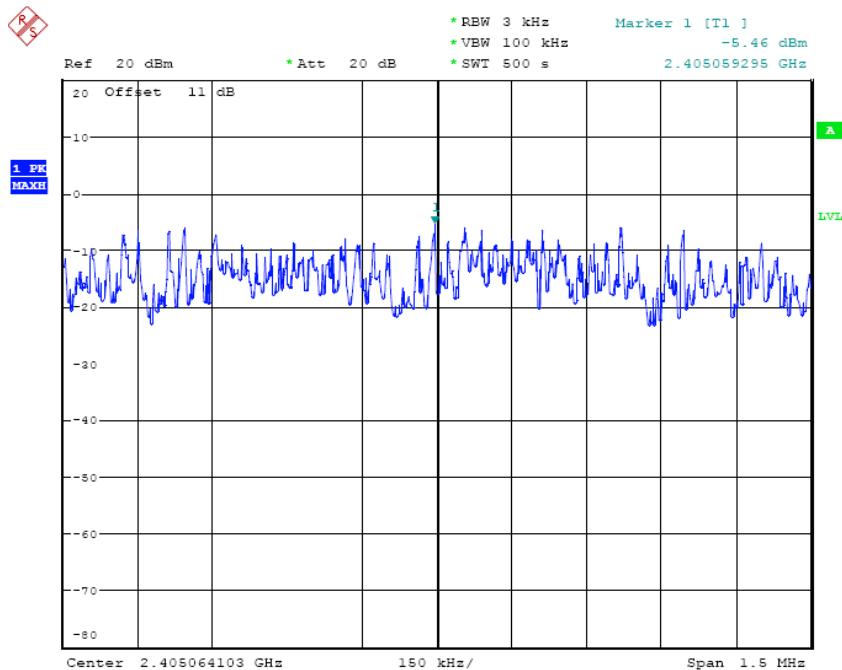
6dB BANDWIDTH CH HIGH
Date: 26.MAY.2008 12:35:34



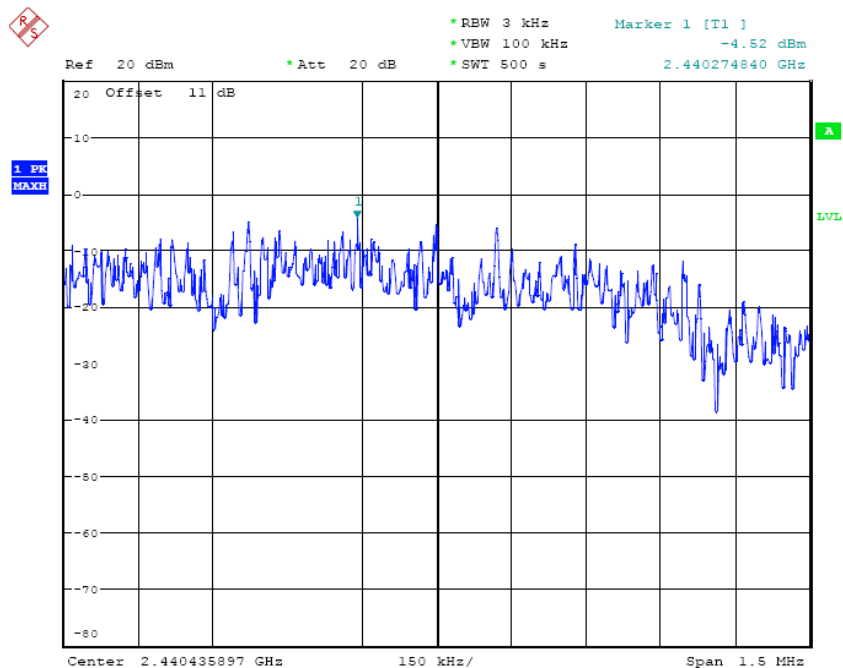
Registration number: W6M20805-9080-P-15

FCC ID: WBI-UFH-C130

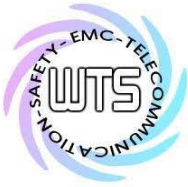
Peak Power Spectral Density



POWER DENSITY CH LOW
Date: 26.MAY.2008 09:02:16

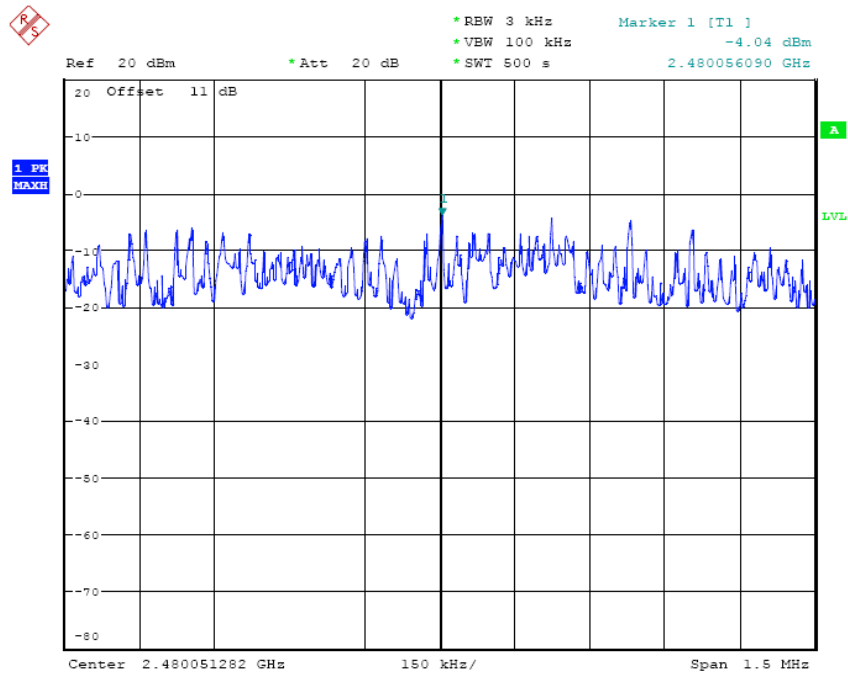


POWER DENSITY CH MIDDLE
Date: 26.MAY.2008 09:08:23



Worldwide Testing Services(Taiwan) Co., Ltd.

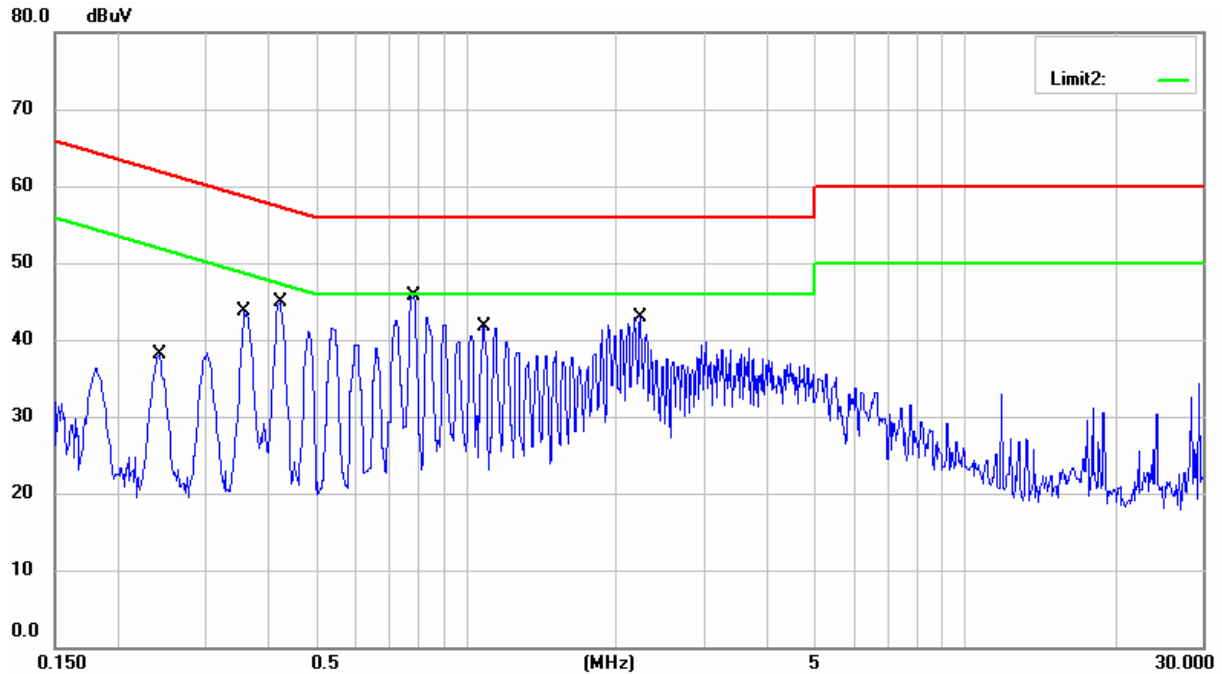
Registration number: W6M20805-9080-P-15
FCC ID: WBI-UFH-C130



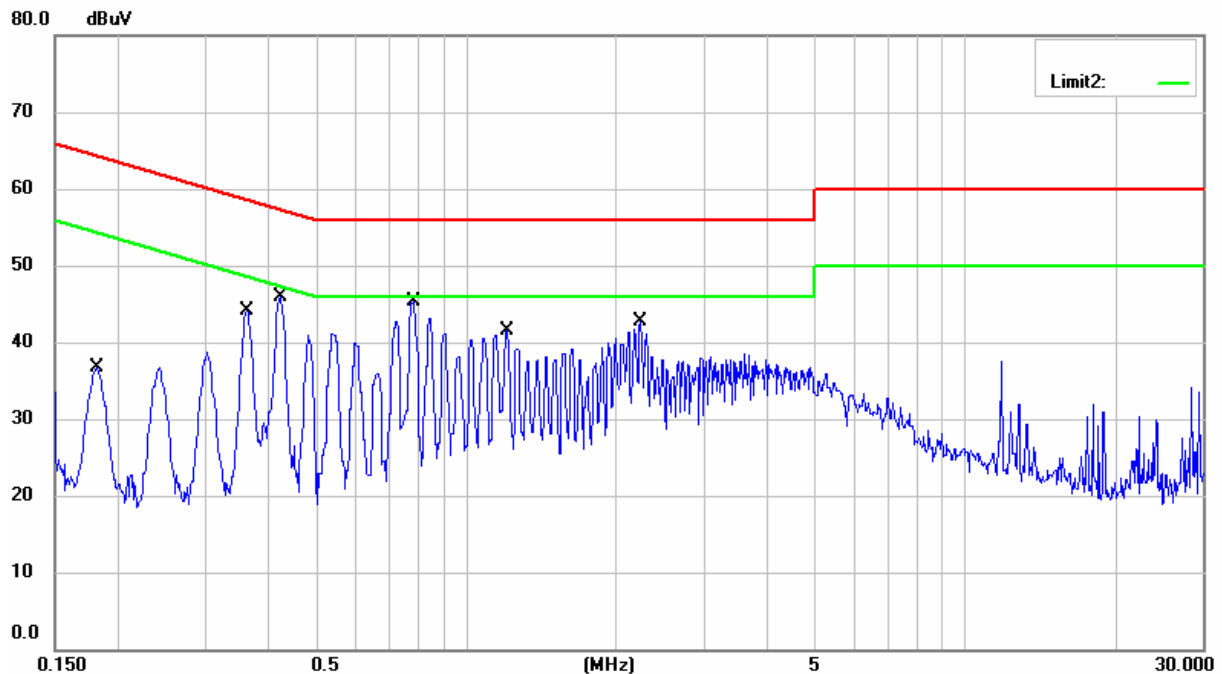
POWER DENSITY CH HIGH
Date: 26.MAY.2008 09:24:36

Registration number: W6M20805-9080-P-15
FCC ID: WBI-UFH-C130

Power Line Conducted Emission LISN N



LISN L1



Up Line: QP Limit Line
Down Line: Ave Limit Line

Note:

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3. For corrected test results are listed in the relevant table of AC conducted test data of this test report.