Ke Mei Ou Laboratory Co., Ltd.

7A, Jiaxiangge, Jiahuixincheng, No.3027, Shennan Rd., Futian, Shenzhen, Guangdong, P.R.China. Zip Code: 518033
Tel: +86 755 83642690 Fax: +86 755 83297077
www.kmolab.com

FCC TEST REPORT

Under FCC 15 Subpart C, Paragraph 15.247: 2008

Operating in 2400 ~ 2483.5 MHz Band

Prepared For:

D-Link Corporation

NO.289, Sinhu 3rd., Neihu District, Taipei City 114, Taiwan, R.O.C

FCC ID: KA2DSL-2600U

EUT: Wireless G ADSL2 + Router

Model: DSL-2600U

November 25, 2009

Report Type: Original Report

Test Engineer: Jacky Huang

Test Date: November 9, 2009

Review By:

Apollo Liu / Manager

The test report consists 41 pages in total. It may be duplicated completely for legal use with the allowance of the applicant. It shall not be reproduced except in full, without the written approval of Ke Mei Ou Laboratory Corporation. The test result in the report only applied to the tested sample.

TABLE OF CONTENTS

| 1. General Information | |
|---|----|
| 1. 1 Notes | 3 |
| 1. 2 Testing Laboratory | |
| 1. 3 Details of Applicant | |
| 1. 4 Application Details | |
| 1. 5 Test Item | |
| 1. 6 Test Standards | |
| 2. Technical Test | 4 |
| 2. 1 Summary of Test Results | 4 |
| 2. 2 Antenna Requirement | 4 |
| 3. EUT Modifications | |
| 4. Conducted Power Line Test | 5 |
| 4. 1 Test Equipment | 5 |
| 4. 2 Test Procedure | 5 |
| 4. 3 Test Setup | 5 |
| 4. 4 Configuration of the EUT | 6 |
| 4. 5 EUT Operating Condition | |
| 4. 6 Conducted Power Line Emission Limits | |
| 4. 7 Conducted Power Line Test Result. | |
| 5. FCC Part 15.247 Requirements for 802.11b/g Systems | |
| 5. 1 Test Equipment | |
| 5. 2 Test Procedure | |
| 5. 3 Test Setup | |
| 5. 4 Configuration of the EUT | |
| 5. 5 EUT Operating Condition | |
| 5. 6 Limit | |
| 5. 7 Test Result | |
| 6. Transmitter Spurious Radiated Emission at 3 Meters | |
| 6. 1 Test Equipment | |
| 6. 2 Test Procedure | |
| 6. 3 Test Setup | |
| 6. 4 Configuration of the EUT | |
| 6. 5 EUT Operating Condition | |
| 6. 6 Limit | 29 |
| 6. 7 Test Result | 30 |
| 7. RF Exposure Requirements | |
| 7. 1 Test Equipment | |
| 7. 2 Limit | |
| 7. 3 Test Result | |
| 8. Photos of Testing | |
| 8. 1 EUT Test Photographs | |
| 8. 2 EUT Detailed Photographs | |
| 9. FCC ID Label | 40 |
| 10. Test Equipment | 41 |

1. General Information

1. 1 Notes

The test results of this report relate exclusively to the test item specified in 1.5. The KMO Lab does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. 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 KMO Lab.

1. 2 Testing Laboratory

Site on File with the Federal Communications Commission – United Sates

Registration Number: 963441

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: 7353A

1. 3 Details of Applicant

Name : D-Link Corporation

Address : NO.289, Sinhu 3rd., Neihu District, Taipei City 114, Taiwan, R. O.C

Contact : N/A
Tel : N/A
Fax : N/A

1. 4 Application Details

Date of Receipt of Application : November 6, 2009
Date of Receipt of Test Item : November 9, 2009

Date of Test : November 9~November 18, 2009

1. 5 Test Item

Manufacturer : Same Applicant

Trade Name : D-Link

Model No. : DSL-2600U, DSL-2600 Description : Wireless G ADSL2 + Router

Additional Information

Frequency : 2412MHz~2462MHz

Maximum Range : N/A
Number of Channels : 11
Transmitter Antenna : Dipole
Power Supply : DC 12V

Modulation Type : IEEE 802.11b: DQPSK, DBPSK, DSSS, and CCK IEEE 802.11g: BPSK, QPSK, 16QAM, 64QAM

Power Consumption :

1. 6 Test Standards

FCC 15 Subpart C, Paragraph 15.247: 2008

Note: All radiated measurements were made in all three orthogonal planes. The values reported are the maximum values.

2. Technical Test

2. 1 Summary of Test Results

The EUT has been tested according to the following specifications:

| Standard Test Type | | Result | Notes |
|--|---|--------|-----------|
| FCC Part 15, Paragraph 15.203 | Antenna Requirement | PASS | Complies |
| FCC Part 15, Paragraph 15.107, 15.207 | Conducted Test | PASS | Complies |
| FCC Part 15.205 | Radiated Emission (Restricted Band Requirements) | PASS | Complies |
| FCC Part 15.109, 15.209 | Radiated Emission (Spurious Emission) | PASS | Complies. |
| FCC Part 15 Subpart C Paragraph 15.247(a)(2) | Spectrum Bandwidth (6dB Bandwidth Measurement) | PASS | Complies. |
| FCC Part 15 Subpart C Paragraph 15.247(b)(3) | Maximum Peak Power | PASS | Complies |
| FCC Part 15 Subpart C Paragraph 15.247(c) 100kHz Bandwidth of Fred Band Edges | | PASS | Complies |
| FCC Part 15 Subpart C Paragraph 15.247(d) | Peak Power Spectral Density | PASS | Complies |

^{*} The digital circuit porting of the EUT has been tested and verified to comply with FCC Part 15, Subpart B., Class B Digital Devices and the associated Radio Receiver has also been tested and found to comply with FCC Part 15, Subpart B – Radio Receivers.

2. 2 Antenna Requirement

A. Regulation

FCC section 15.203, An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of Part 15C. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

B. Result

The antenna type used in this product is Dipole Antenna and fixed in the EUT and without connector. That no antenna other than furnished by the responsible party shall be used with the device. The EUT as tested meets the criteria of this rule by being antenna being permanently attached and professionally installed. The EUT is compliant with Section 15.203.

3. EUT Modifications

No modification by test lab.

4. Conducted Power Line Test

4. 1 Test Equipment

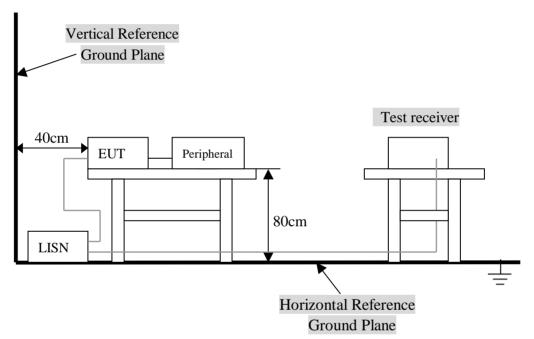
Please refer to Section 10 this report.

4. 2 Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination.

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission., the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4:2003 on conducted measurement. Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

4. 3 Test Setup



For the actual test configuration, Please refer to the related items - Photos of Testing.

4. 4 Configuration of the EUT

The EUT was configured according to ANSI C63.4-2003. EUT was used DC12V. The operation frequency is from 2400MHz~2483.5MHz. Enable the signal transmitted from the EUT to Notebook PC. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below. Note:

- Operating Modes: Each of lowest, middle and highest channel frequencies transmits continuously for emissions measurements. The EUT operates in normal 802.11b/g for occupancy duration and frequency separation.
- 2) Special Test Software & Hardware: Special firmware and hardware provided by the Applicant are installed to allow the EUT to operates in 802.11b/g or at each channel frequency continuously. For example, the transmitter will be operated at each of lowest, middle and highest frequencies individually continuously during testing.
- 3) Transmitter Test Antenna: The EUT is tested with the antenna fitted in a manner typical of normal intended use as an integral / non-integral antenna equipment as describe with the test results.
- Frequency(ies) Tested: 2412MHz, 2437MHz and 2462MHz were pre-tested, The worst case one, was chosen for conducted emission test.
- 5) Above 1GHz, the 2412MHz, 2437MHz and 2462MHz were tested individually.
- 6) Normal Test Modulation: 802.11b/g
- 7) Modulating Signal Source: Internal
- * Associated Antenna Descriptions: The antenna used in this product is embedded antenna.

A. EUT

| Device | Manufacturer | Model # | FCC ID |
|------------------------------|---------------------|-----------|--------------|
| Wireless G ADSL2 + Router | D-Link Corporation. | DSL-2600U | KA2DSL-2600U |

B. Internal Devices

| Device | Manufacturer | Model # | FCC ID |
|--------|--------------|---------|--------|
| N/A | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

C. Peripherals

| Device | Manufacturer | Model # Serial # | FCC ID/ DoC | Cable |
|----------|--------------|---------------------|----------------|--|
| Printer | HP | HP930C | DoC | 1.5m unshielded power cord 1.2m unshielded data cable. |
| Modem | GVC | N/A DoC | | 1.5m unshielded power cord 1.2m unshielded data cable. |
| Notebook | DELL | PP10L | DoC | 1.5m unshielded power cord |
| PC | Dell | 2400n | DoC | 1.5m unshielded power cord |

FCC ID: KA2DSL-2600U **D-Link Corporation**

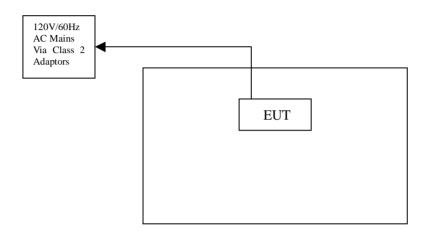
4. 5 EUT Operating Condition

Operating condition is according to ANSI C63.4 - 2003.

A. Setup the EUT and simulators as shown on follow.

B. Enable RF signal and confirm EUT active.

- C. Modulate output capacity of EUT up to specification.



4. 6 Conducted Power Line Emission Limits

| FCC Part 15 Paragraph 15.207 (dBuV) | | | | | |
|-------------------------------------|------------------|------------------|--|--|--|
| Frequency Range (MHz) | Class A QP/AV | Class B QP/AV | | | |
| 0.15 - 0.5 | 79/66 | 66-56/56-46 | | | |
| 0.5 - 5.0 | 73/60 | 56/46 | | | |
| 5.0 - 30 | 73/60 | 60/50 | | | |

NOTE: In the above table, the tighter limit applies at the band edges.

4. 7 Conducted Power Line Test Result

Product : Wireless G ADSL2 + Router Test Mode : IEEE 802.11b - 2412MHz

Test Item : Conducted Emission Data Temperature : 25 $^{\circ}$ C Test Voltage : DC 12V(by DC power supply) Humidity : 56%RH

Test Result : PASS

The frequency spectrum from $\underline{0.15}$ MHz to $\underline{30}$ MHz was investigated. All readings are quasi -peak values with a resolution bandwidth of $\underline{9}$ KHz.

· Temperature : $\underline{26}$ °C · Humidity : $\underline{53}$ % RH

| FCC Part 15 Paragraph 15.207 | | | | | | | |
|------------------------------|----------|---------------|---------|---------|---------------|--------|---------|
| Frequency | Emission | ı (dBuV) | LINE/ | Limit (| (dBuV) | Margi | in (dB) |
| (MHz) | QP | \mathbf{AV} | NEUTRAL | QP | \mathbf{AV} | QP | AV |
| 0.158 | 52.34 | 40.78 | Line | 65.57 | 55.57 | -13.23 | -14.79 |
| 0.158 | 51.93 | 40.54 | Neutral | 65.57 | 55.57 | -13.64 | -15.03 |
| 0.206 | 46.61 | 33.97 | Line | 63.37 | 53.37 | -16.76 | -19.40 |
| 0.210 | 45.97 | 34.06 | Neutral | 63.21 | 53.21 | -17.24 | -19.15 |
| 0.266 | 40.82 | 29.74 | Line | 61.24 | 51.24 | -20.42 | -21.50 |
| 0.266 | 37.8 | 26.97 | Neutral | 61.24 | 51.24 | -23.44 | -24.27 |

Note: NF = No Significant Peak was Found.

- 1.Uncertainty in conducted emission measured is <+/ -2dB.
- 2. The emission levels of other frequencies were very low against the limit.
- 3.All Reading Levels are Quasi-Peak and Average value.
- 4.Emission = Meter Reading + Factor; Factor = Insertion Loss + Cable Loss.
- 5.Margin Value = Emission Level Limit Value.

Conducted Emission

EN55022

EUT: Wireless G ADSL2 + Router

M/N: DSL-2600U (FRECOM DC POWER model: FM120010-US)

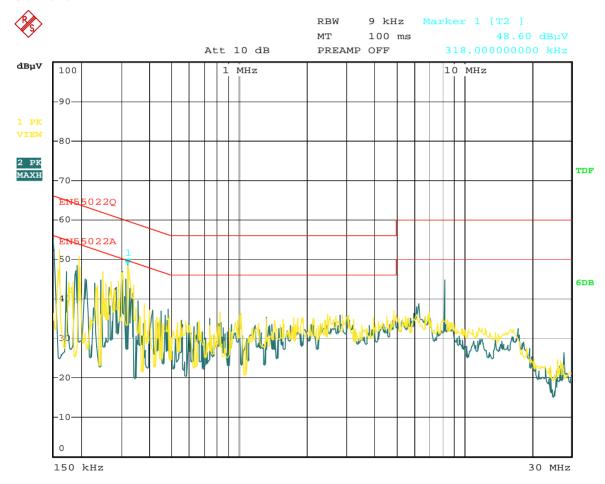
Manufacturer: D-Link Corporation Operating Condition: Transmitter

Test Site: Normal

Operator: Jacky Huang

Test Specification: LINE&NEUTRAL

Comment:



Date: 17.NOV.2009 08:21:39

Product : Wireless G ADSL2 + Router Test Mode : IEEE 802.11b - 2412MHz

Test Item : Conducted Emission Data Temperature : 25 $^{\circ}$ C Test Voltage : DC 12V(by DC power supply) Humidity : 56% RH

Test Result : PASS

The frequency spectrum from $\underline{0.15}$ MHz to $\underline{30}$ MHz was investigated. All readings are quasi -peak values with a resolution bandwidth of $\underline{9}$ KHz.

· Temperature : $\underline{26}$ °C · Humidity : $\underline{53\%}$ RH

| | FCC Part 15 Paragraph 15.207 | | | | | | | |
|-----------|------------------------------|----------|---------|-------|--------|--------|-------------|--|
| Frequency | Emission | ı (dBuV) | LINE/ | Limit | (dBuV) | Margi | Margin (dB) | |
| (MHz) | QP | AV | NEUTRAL | QP | AV | QP | AV | |
| 0.162 | 48.61 | 32.34 | Line | 65.36 | 55.36 | -16.75 | -23.02 | |
| 0.158 | 49.36 | 33.84 | Neutral | 65.57 | 55.57 | -16.21 | -21.73 | |
| 0.202 | 42.93 | 28.95 | Line | 63.53 | 53.53 | -20.60 | -24.58 | |
| 0.206 | 41.32 | 27.54 | Neutral | 63.37 | 53.37 | -22.05 | -25.83 | |
| 0.294 | 36.69 | 23.52 | Line | 60.41 | 50.41 | -23.72 | -26.89 | |
| 0.242 | 38.45 | 26.95 | Neutral | 62.03 | 52.03 | -23.58 | -25.08 | |

Note: NF = No Significant Peak was Found.

- 1.Uncertainty in conducted emission measured is <+/ -2dB.
- 2. The emission levels of other frequencies were very low against the limit.
- 3.All Reading Levels are Quasi-Peak and Average value.
- 4.Emission = Meter Reading + Factor; Factor = Insertion Loss + Cable Loss.
- 5.Margin Value = Emission Level Limit Value.

Conducted Emission

EN55022

EUT: Wireless G ADSL2 + Router

M/N: DSL-2600U (HuntKey DC POWER model: HKA01812010-2A)

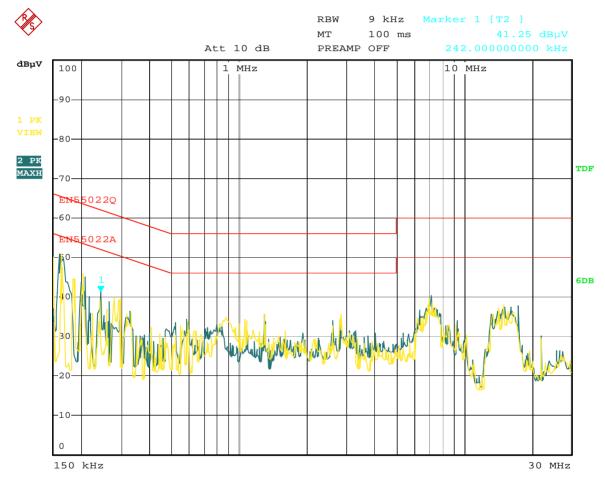
Manufacturer: D-Link Corporation
Operating Condition: Transmitter

Test Site: Normal

Operator: Jacky Huang

Test Specification: LINE&NEUTRAL

Comment:



Date: 25.NOV.2009 10:31:54

5. FCC Part 15.247 Requirements for 802.11b/g Systems

5. 1 Test Equipment

Please refer to Section 10 this report.

5. 2 Test Procedure

Refer to FCC 15.247(a)(2), ANSI C63.4: 2003

6 dB Bandwidth:

- a. Place the EUT on the table and set it in the transmitting mode.
- b. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- c. Set the spectrum analyzer as RBW = 100 kHz, VBW = RBW, Span = 50 MHz, Sweep = auto.
- d. Mark the peak frequency and -6dB (upper and lower) frequency.
- e. Repeat until all the rest channels are investigated.

Peak Power:

The transmitter output is connected to the test receiver. The test receiver is set to the peak power detection. The power is equal to the reading level on test receiver plus cable loss at the EUT RF output terminal.

Band Edges Measurement:

- a. The transmitter output was connected to the spectrum analyzer via a low lose cable.
- b. Set both RBW and VBW of spectrum analyzer to 100kHz with suitable frequency span including 100kHz bandwidth from band edge.
- c. The band edges was measured and recorded.

Peak Power Spectral Density:

- a. The transmitter output is connected to a test receiver, The spectrum analyzer's resolution bandwidth was set at 3kHz RBW and 30kHz VBW as that of the fundamental frequency. Set the sweep time=span/3kHz.
- b. The power spectral density was measured and recorded.
- c. The sweep time is allowed to be longer than span/3kHz for a full response of the mixer in the spectrum analyzer.

5. 3 Test Setup



5. 4 Configuration of the EUT

Same as section 4.4 of this report

5. 5 EUT Operating Condition

Same as section 4.5 of this report.

5. 6 Limit

According to $\S15.247(a)(2)$, systems using digital modulation techniques may operate in the $902 \sim 928$ MHz, $2400 \sim 2483.5$ MHz, and $5725 \sim 5850$ MHz bands. The minimum 6dB bandwidth shall be at least 500 kHz.

According to §15.247(b)(3), for systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz: 1 Watt.

According to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

According to §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB 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, provided the transmitter demonstrates compliance with the peak conducted power limits. 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 Section 15.205(c)).

According to §15.247(e), for digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. According to §15.247(f), the digital modulation operation of the hybrid system, with the frequency hopping turned off, shall comply with the power density requirements of paragraph (d) of this section.

5. 7 Test Result

A. 6 dB Bandwidth

Product : Wireless G ADSL2 + Router Test Mode : IEEE 802.11b/g

Test Item : 6 dB BW Temperature : 25 $^{\circ}$ C Test Voltage : DC 12V (Power by DC Power Supply) Humidity : 56%RH

Test Result : PASS

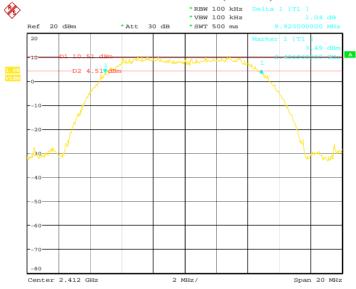
IEEE 802.11b

| Channel | Frequency (MHz) | Bandwidth (MHz) | FCC Limit (kHz) | Result |
|---------|--------------------|--------------------|--------------------|--------|
| Low | 2412 | 9.92 | | PASS |
| Mid | 2437 | 9.84 | >500 kHz | PASS |
| High | 2462 | 10.24 | | PASS |

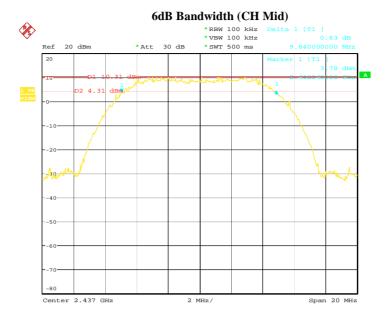
IEEE 802.11g

| Channel | Frequency (MHz) | Bandwidth (MHz) | FCC Limit (kHz) | Result |
|---------|--------------------|--------------------|--------------------|--------|
| Low | 2412 | 16.44 | | PASS |
| Mid | 2437 | 16.44 | >500 kHz | PASS |
| High | 2462 | 16.40 | | PASS |

IEEE 802.11b 6dB Bandwidth (CH Low)

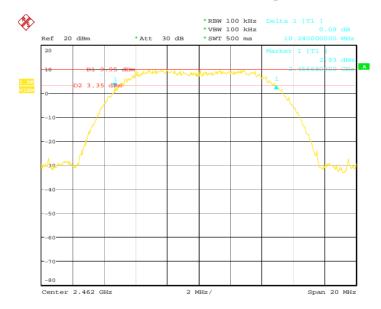


Date: 10.NOV.2009 08:37:06



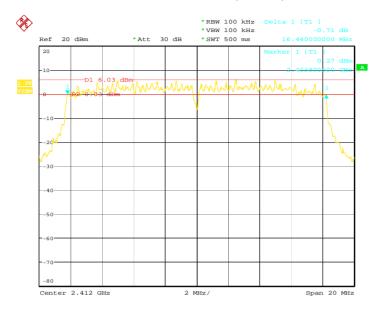
Date: 10.NOV.2009 10:13:05

6dB Bandwidth (CH High)



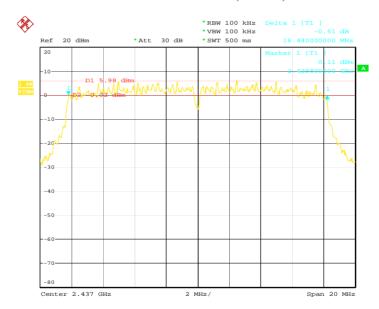
Date: 10.NOV.2009 10:11:01

IEEE 802.11g 6dB Bandwidth (CH Low)

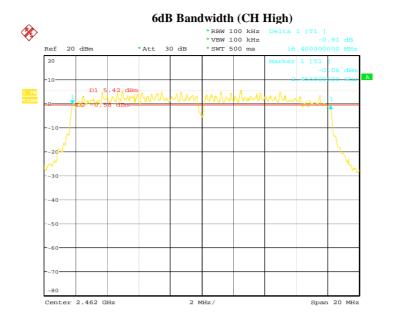


Date: 10.NOV.2009 10:04:47

6dB Bandwidth (CH Mid)



Date: 10.NOV.2009 10:07:25



Date: 10.NOV.2009 10:09:30

B. Peak Power

Product : Wireless G ADSL2 + Router Test Mode : IEEE 802.11b/g

Test Item : Peak Power Temperature : 25 $^{\circ}$ C Test Voltage : DC 12V(by DC power supply) Humidity : 56%RH

Test Result : PASS

IEEE 802.11b

| ELL OVECTO | | | | | | |
|------------|--------------------|--------------------|----------------------|--------|--|--|
| Channel | Frequency (MHz) | Output Power (dBm) | FCC Limit (W/dBm) | Result | | |
| Low | 2412 | 17.83 | | PASS | | |
| Mid | 2437 | 17.76 | 1.00/30.00 | PASS | | |
| High | 2462 | 17.24 | | PASS | | |

IEEE 802.11g

| Channel | Frequency (MHz) | Output Power (dBm) | FCC Limit (W/dBm) | Result |
|---------|--------------------|--------------------|----------------------|--------|
| Low | 2412 | 15.50 | | PASS |
| Mid | 2437 | 15.96 | 1.00/30.00 | PASS |
| High | 2462 | 15.37 | | PASS |

C. Band Edges Measurement

Product : Wireless G ADSL2 + Router Test Mode : IEEE 802.11b/g

Test Item : Band Edges Measurement Temperature : 25 $^{\circ}$ C Test Voltage : DC 12V (Power by DC Power Supply) Humidity : 56%RH

Test Result : PASS

IEEE 802.11b

| Channel | Detector | Radiated Method Max. Field Strength of Fundamental (dBuV/m) | Conducted Method Between Carrier Max. Power and Local Max. Emission in Restrict Band(dBc) | The Max. Field Strength in Restrict Band (dBuV/m) | Limt @3m (dBuVm) Peak / Average | Margin (dB) |
|---------|----------|---|---|--|---------------------------------------|-------------|
| Low | Peak | 106.07 | 46.97 | 59.10 | 74 | -14.90 |
| High | Peak | 105.05 | 51.16 | 53.89 | 74 | -20.11 |

| Channel | Detector | Radiated Method Max. Field Strength of Fundamental (dBuV/m) | Conducted Method Between Carrier Max. Power and Local Max. Emission in Restrict Band(dBc) | The Max. Field Strength in Restrict Band (dBuV/m) | Limt @3m (dBuVm) Peak / Average | Margin (dB) |
|---------|----------|---|---|--|---------------------------------------|----------------|
| Low | Average | 86.90 | 47.12 | 39.78 | 54 | -14.22 |
| High | Average | 86.24 | 51.05 | 35.19 | 54 | -18.81 |

IEEE 802.11g

| Channel | Detector | Radiated Method Max. Field Strength of Fundamental (dBuV/m) | Conducted Method Between Carrier Max. Power and Local Max. Emission in Restrict Band(dBc) | The Max. Field Strength in Restrict Band (dBuV/m) | Limt @3m (dBuVm) Peak | Margin (dB) |
|---------|----------|---|---|--|-----------------------------|----------------|
| Low | Peak | 102.67 | 39.31 | 63.36 | 74 | -10.64 |
| High | Peak | 102.36 | 40.16 | 62.20 | 74 | -11.80 |

| Channel | Detector | Radiated Method Max. Field Strength of Fundamental (dBuV/m) | Conducted Method Between Carrier Max. Power and Local Max. Emission in Restrict Band(dBc) | The Max. Field Strength in Restrict Band (dBuV/m) | Limt @3m (dBuVm) Peak / Average | Margin (dB) |
|---------|----------|---|---|--|---------------------------------------|----------------|
| Low | Average | 76.34 | 39.22 | 37.12 | 54 | -16.88 |
| High | Average | 76.18 | 43.77 | 32.41 | 54 | -21.59 |

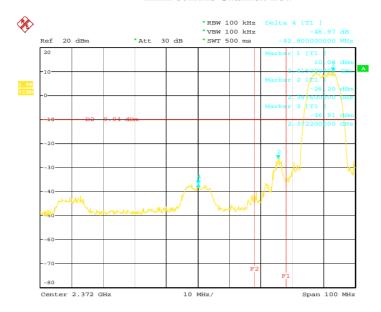
Note: (1) According to step 2 of Marker-Delta Method DA 00-705 (following plots included).

(2) According to step 3 of Marker-Delta Method:

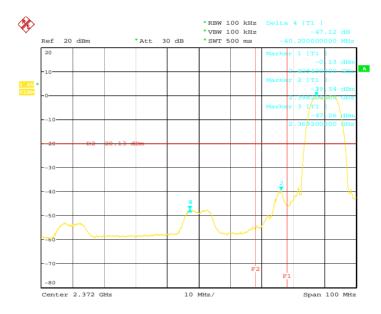
The Max. Field Strength in Restrict Band = Filed Strength of Fundamental – Between Carrier Max Power and Local Max. Emission in Restrict Band

(3) The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

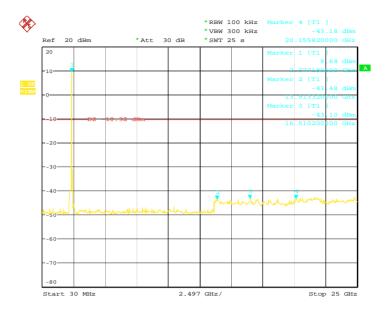
IEEE 802.11b Channel: Low



Date: 10.NOV.2009 08:57:44

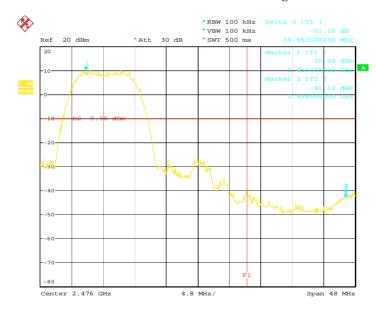


Date: 10.NOV.2009 09:08:04

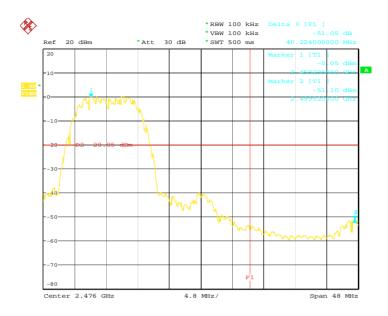


Date: 10.NOV.2009 09:00:43

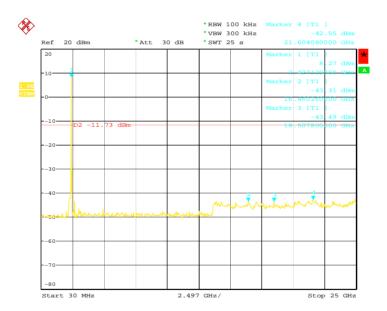
IEEE 802.11b Channel: High



Date: 10.NOV.2009 09:50:46

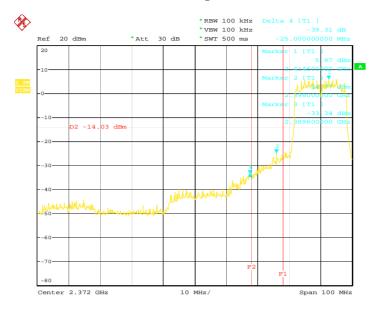


Date: 10.NOV.2009 09:48:38

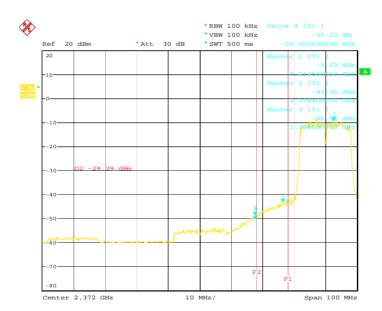


Date: 10.NOV.2009 09:56:35

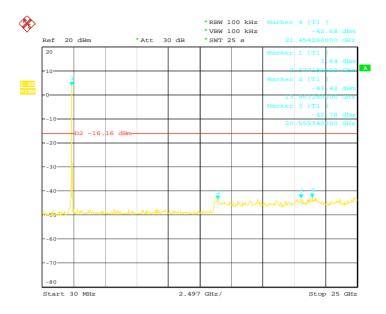
IEEE 802.11g Channel: Low-



Date: 10.NOV.2009 10:20:53

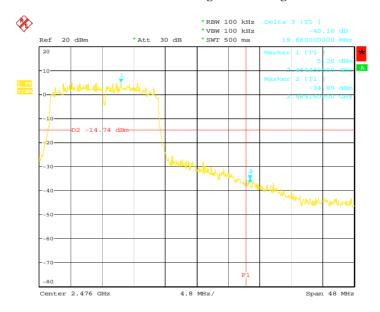


Date: 10.NOV.2009 10:22:22

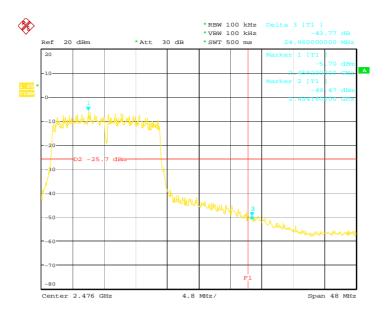


Date: 10.NOV.2009 10:02:52

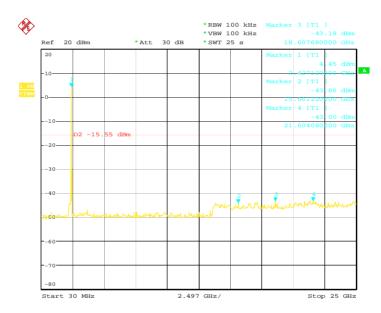
IEEE 802.11g Channel: High



Date: 10.NOV.2009 10:28:07



Date: 10.NOV.2009 10:26:32



Date: 10.NOV.2009 09:59:03

D. Peak Power Spectral Density

Product : Wireless G ADSL2 + Router Test Mode : IEEE 802.11b/g

Test Item : Peak Power Spectral Density Temperature : 25 $^{\circ}$ C Test Voltage : DC 12V (Power by DC Power Supply) Humidity : 56%RH

Test Result : PASS

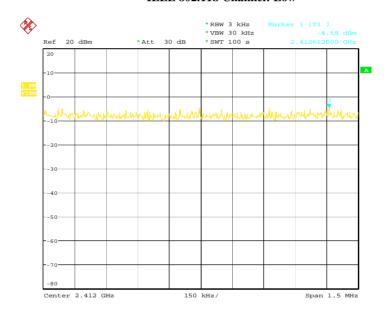
IEEE 802.11b

| Channel | Frequency (MHz) | PPSD (dBm) | FCC Limit (dBm) | Result |
|---------|--------------------|---------------|-----------------|--------|
| Low | 2412 | -4.58 | | PASS |
| Mid | 2437 | -4.23 | 8.00 | PASS |
| High | 2462 | -4.24 | | PASS |

IEEE 802.11g

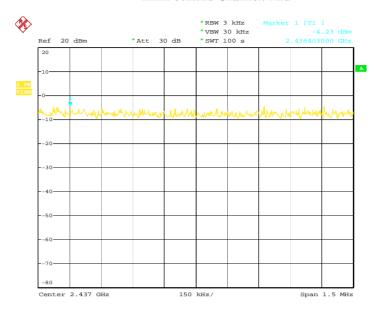
| Channel | Frequency (MHz) | PPSD (dBm) | FCC Limit (dBm) | Result |
|---------|--------------------|------------|-----------------|--------|
| Low | 2412 | -9.64 | | PASS |
| Mid | 2437 | -9.59 | 8.00 | PASS |
| High | 2462 | -10.42 | | PASS |

IEEE 802.11b Channel: Low



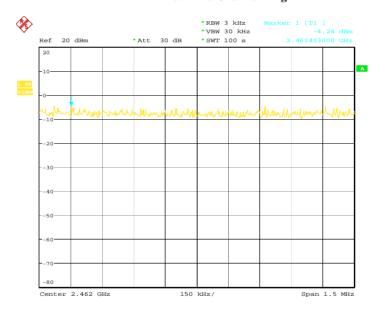
Date: 10.NOV.2009 09:12:49

IEEE 802.11b Channel: Mid



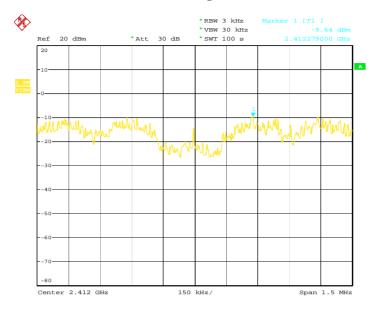
Date: 10.NOV.2009 09:17:04

IEEE 802.11b Channel: High



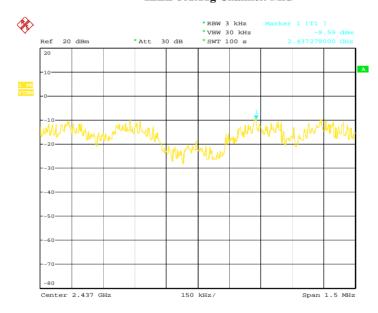
Date: 10.NOV.2009 09:44:05

IEEE 802.11g Channel: Low



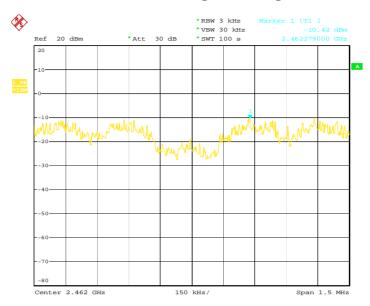
Date: 10.NOV.2009 09:32:36

IEEE 802.11g Channel: Mid



Date: 10.NOV.2009 09:35:30

IEEE 802.11g Channel: High



Date: 10.NOV.2009 09:39:52

Report #: KSZ2009110601J

6. Transmitter Spurious Radiated Emission at 3 Meters

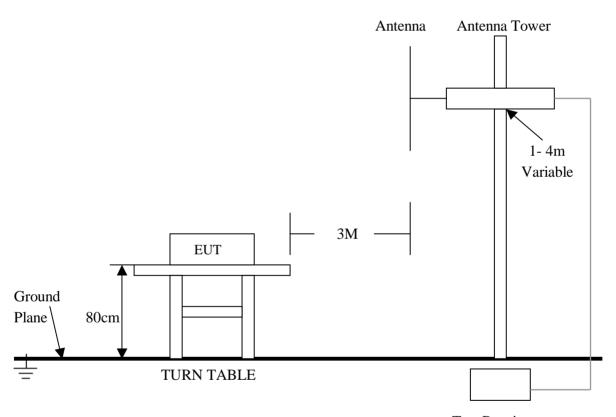
6. 1 Test Equipment

Please refer to Section 10 this report.

6. 2 Test Procedure

- 1. The EUT was tested according to ANSI C63.4 2003.
- 2. The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high <u>0.8</u> m. All set up is according to ANSI C63.4-2003.
- 3. The frequency spectrum from $\underline{30}$ MHz to $\underline{1}$ GHz was investigated. All readings from $\underline{30}$ MHz to $\underline{1}$ GHz are quasi-peak values with a resolution bandwidth of $\underline{120}$ KHz. All readings are above $\underline{1}$ GHz, peak values with a resolution bandwidth of $\underline{1}$ MHz. Measurements were made at $\underline{3}$ meters.
- 4. The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- 5. Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- 6. The antenna polarization: Vertical polarization and Horizontal polarization.

6. 3 Test Setup



Test Receiver

For the actual test configuration, please refer to the related items - Photos of Testing

6. 4 Configuration of the EUT

Same as section 4.4 of this report

6. 5 EUT Operating Condition

Same as section 4.5 of this report.

6. 6 Limit

In any 100 KHz bandwidth outside the operating frequency band, the radio frequency power that is produced by modulation products of the spreading sequence, the information sequence and the carrier frequency shall be either at least 20 dB below that in any 100 KHz bandwidth within the band that contains the highest level of the desired power or shall not exceed the general levels specified in section 15.209(a), which lesser attenuation.

All other emissions inside restricted bands specified in section 15.205(a) shall not exceed the general radiated emission limits specified in section 15.209(a)

Note:

Applies to harmonics/spurious emissions that fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

47 CFR § 15.237(c): The emission limits as specified above are based on measurement instrument employing an average detector. The provisions in section 15.35 for limiting peak emissions apply.

FCC CFR 47, Part 15, Subpart C, Para, 15.205(a) - Restricted Frequency Bands

| 100 0111 11, 1410 10, 240 pair 0, 1414, 1012 00 (4) | | reserved Frequency Bunds | |
|---|---------------------|--------------------------|-------------|
| MHz | MHz | MHz | GHz |
| 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 |
| 10.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 |
| 2.1735–2.1905 | 16.80425-16.80475 | 960–1240 | 7.25-7.75 |
| 4.125–4.128 | 25.5-25.67 | 1300–1427 | 8.025-8.5 |
| 4.17725-4.17775 | 37.5-38.25 | 1435–1626.5 | 9.0-9.2 |
| 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 |
| 6.215–6.218 | 74.8–75.2 | 1660–1710 | 10.6-12.7 |
| 6.26775–6.26825 | 108-121.94 | 1718.8–1722.2 | 13.25-13.4 |
| 6.31175–6.31225 | 123-138 | 2200-2300 | 14.47–14.5 |
| 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 |
| 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7–21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 2655-2900 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 |
| 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 |
| 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 |
| 12.57675-12.57725 | 322-335.4 | 3600-4400 | (2) |
| 13.36–13.41. | | | |

 $^{^{\}rm 1}$ Until February 1, 1999, this restricted band shall be 0.490–0.510 MHz. $^{\rm 2}$ Above 38.6

FCC 47 CFR, Part 15.209(a) - Field Strength Limits within Restricted Frequency Bands

| Frequency (MHz) | Field strength (microvolts/meter) | Measure- ment dis- tance (meters) |
|-----------------|--------------------------------------|--|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100** | 3 |
| 88-216 | 150** | 3 |
| 216-960 | 200** | 3 |
| Above 960 | 500 | 3 |

6. 7 Test Result

Product : Wireless G ADSL2 + Router Test Mode : IEEE 802.11b/g

Test Item : Spurious Radiated Emissions Temperature : 25 $^{\circ}$ C Test Voltage : DC 12V (Power by DC Power Supply) Humidity : 56%RH

Test Result : PASS

IEEE 802.11b Channel: Low

| Freq. | Emission (dBuV/m) | HORIZ / | Limits (dBuV/m) | Margin |
|----------|-------------------|---------|-----------------|---------------|
| (MHz) | Peak Detector | VERT | Peak / Average | (dB) |
| 2398.20 | 67.40/46.44 | HORZ | 74.0 / 54.0 | -6.54/-7.56 |
| 2398.20 | 56.99/40.28 | VERT | 74.0 / 54.0 | -17.01/-13.72 |
| 4824.00 | 50.84 | HORZ | 74.0 / 54.0 | -23.16 |
| 4824.00 | 48.92 | VERT | 74.0 / 54.0 | -25.08 |
| 7236.00 | 49.56 | HORZ | 74.0 / 54.0 | -24.44 |
| 7236.08 | 48.76 | VERT | 74.0 / 54.0 | -25.24 |
| 9648.02 | 49.93 | HORZ | 74.0 / 54.0 | -24.07 |
| 9648.10 | 49.05 | VERT | 74.0 / 54.0 | -24.95 |
| 24120.04 | - | HORZ | 74.0 / 54.0 | - |
| 24120.20 | - | VERT | 74.0 / 54.0 | - |

IEEE 802.11b Channel: Mid

| Freq. | Emission (dBuV/m) Peak Detector | HORIZ / VERT | Limits (dBuV/m) | Margin |
|----------|---------------------------------|-----------------|-----------------|--------|
| (MHz) | | | Peak / Average | (dB) |
| 4874.00 | 49.85 | HORZ | 74.0 / 54.0 | -24.15 |
| 4874.00 | 48.74 | VERT | 74.0 / 54.0 | -25.26 |
| 7311.00 | 48.87 | HORZ | 74.0 / 54.0 | -25.13 |
| 7311.02 | 48.13 | VERT | 74.0 / 54.0 | -25.87 |
| 9748.10 | 49.54 | HORZ | 74.0 / 54.0 | -24.46 |
| 9748.00 | 48.46 | VERT | 74.0 / 54.0 | -25.54 |
| 24370.10 | - | HORZ | 74.0 / 54.0 | - |
| 24370.00 | - | VERT | 74.0 / 54.0 | _ |

IEEE 802.11b Channel: High

| Freq. (MHz) | Emission (dBuV/m) Peak Detector | HORIZ / VERT | Limits (dBuV/m) Peak / Average | Margin (dB) |
|----------------|------------------------------------|-----------------|-----------------------------------|----------------|
| 2498.56 | 56.42/41.10 | HORZ | 74.0 / 54.0 | -17.58/-12.90 |
| 2498.56 | 50.15/39.87 | VERT | 74.0 / 54.0 | -23.85/-14.13 |
| 4924.00 | 49.85 | HORZ | 74.0 / 54.0 | -24.15 |
| 4924.00 | 48.94 | VERT | 74.0 / 54.0 | -25.06 |
| 7386.12 | 49.07 | HORZ | 74.0 / 54.0 | -24.93 |
| 7368.00 | 48.56 | VERT | 74.0 / 54.0 | -25.44 |
| 9848.00 | 48.83 | HORZ | 74.0 / 54.0 | -25.17 |
| 9848.00 | 48.02 | VERT | 74.0 / 54.0 | -25.98 |
| 24620.11 | - | HORZ | 74.0 / 54.0 | - |
| 24620.00 | - | VERT | 74.0 / 54.0 | - |

- (1) All Reading Levels below 1GHz are Quasi-Peak, above are peak and average value.
- (2) Emission Level = Reading Level + Probe Factor + Cable Loss.
- (3) Receiver setting (Peak Detector): RBW=1MHz; VBW=1MHz; Span=100MHz
- (4) Receiver setting (AVG Detector): RBW=1MHz; VBW=30Hz; Span=20MHz
- (5) The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
- (6) Where an emission level is indicated by a -, levels had a margin greater than 20 dB when compared to the limit.

FCC ID: KA2DSL-2600U **D-Link Corporation**

IEEE 802.11g Channel: Low

| Freq. | Emission (dBuV/m) | HORIZ / | Limits (dBuV/m) | Margin |
|----------|-------------------|---------|-----------------|---------------|
| (MHz) | Peak | VERT | Peak / Average | (dB) |
| 2398.40 | 72.51/47.25 | HORZ | 74.0 / 54.0 | -1.49/-6.75 |
| 2398.40 | 60.57/39.71 | VERT | 74.0 / 54.0 | -13.43/-14.29 |
| 4824.00 | 49.98 | HORZ | 74.0 / 54.0 | -24.02 |
| 4824.00 | 48.23 | VERT | 74.0 / 54.0 | -25.77 |
| 7236.00 | 48.78 | HORZ | 74.0 / 54.0 | -25.22 |
| 7236.08 | 47.96 | VERT | 74.0 / 54.0 | -26.04 |
| 9648.02 | 48.78 | HORZ | 74.0 / 54.0 | -25.22 |
| 9648.10 | 48.11 | VERT | 74.0 / 54.0 | -25.89 |
| 24120.04 | - | HORZ | 74.0 / 54.0 | - |
| 24120.20 | - | VERT | 74.0 / 54.0 | - |

IEEE 802.11g Channel: Mid

| TEEE 002.11g Chainer, whu | | | | | | |
|---------------------------|---------------------------|-----------------|-----------------------------------|----------------|--|--|
| Freq. (MHz) | Emission (dBuV/m) Peak | HORIZ / VERT | Limits (dBuV/m) Peak / Average | Margin (dB) | | |
| 4874.00 | 49.97 | HORZ | 74.0 / 54.0 | -24.03 | | |
| 4874.00 | 48.05 | VERT | 74.0 / 54.0 | -25.95 | | |
| 7311.00 | 49.18 | HORZ | 74.0 / 54.0 | -24.82 | | |
| 7311.02 | 48.05 | VERT | 74.0 / 54.0 | -25.95 | | |
| 9748.10 | 49.08 | HORZ | 74.0 / 54.0 | -24.92 | | |
| 9748.00 | 48.55 | VERT | 74.0 / 54.0 | -25.45 | | |
| 24370.10 | - | HORZ | 74.0 / 54.0 | - | | |
| 24370.00 | - | VERT | 74.0 / 54.0 | - | | |

IEEE 802.11g Channel: High

| Freq. | Emission (dBuV/m) | HORIZ / | Limits (dBuV/m) | Margin |
|----------|-------------------|---------|-----------------|---------------|
| (MHz) | Peak | VERT | Peak / Average | (dB) |
| 2484.16 | 64.91/40.11 | HORZ | 74.0 / 54.0 | -9.09/-13.89 |
| 2484.16 | 51.39/39.27 | VERT | 74.0 / 54.0 | -22.61/-14.73 |
| 4924.00 | 49.08 | HORZ | 74.0 / 54.0 | -24.92 |
| 4924.00 | 48.17 | VERT | 74.0 / 54.0 | -25.83 |
| 7386.12 | 48.84 | HORZ | 74.0 / 54.0 | -25.16 |
| 7368.00 | 48.07 | VERT | 74.0 / 54.0 | -25.93 |
| 9848.00 | 49.03 | HORZ | 74.0 / 54.0 | -24.97 |
| 9848.00 | 48.46 | VERT | 74.0 / 54.0 | -25.54 |
| 24620.11 | - | HORZ | 74.0 / 54.0 | - |
| 24620.00 | - | VERT | 74.0 / 54.0 | - |

- (1) All Reading Levels below 1GHz are Quasi-Peak, above are peak and average value.
- (2) Emission Level = Reading Level + Probe Factor + Cable Loss.
- (3) Receiver setting (Peak Detector): RBW=1MHz; VBW=1MHz; Span=100MHz (4) Receiver setting (AVG Detector): RBW=1MHz; VBW=30Hz; Span=20MHz
- (5) The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
- (6) Where an emission level is indicated by a –, levels had a margin greater than 20 dB when compared to the limit.

General Radiated Emission Data

Product : Wireless G ADSL2 + Router Test Mode : CH Low Test Item : Fundamental Radiated Emission Data :25 °C Temperature Test Voltage : DC 12V Humidity : 56% RH Test Result : PASS : DSL-2600U Model

| Freq. (MHz) | Emission (dBuV/m) QP Detector | HORIZ / VERT | Limits (dBuV/m) | Margin (dB) |
|----------------|----------------------------------|-----------------|--------------------|----------------|
| 120.00 | 31.22 | HORZ | 43.5 | -12.28 |
| 104.28 | 33.09 | VERT | 43.5 | -10.41 |
| 240.00 | 38.95 | HORZ | 46.0 | -7.05 |
| 240.00 | 36.52 | VERT | 46.0 | -9.48 |
| 480.00 | 37.86 | HORZ | 46.0 | -8.14 |
| 480.00 | 41.93 | VERT | 46.0 | -4.07 |

- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- (2) Emission Level = Reading Level + Probe Factor + Cable Loss.

FCC ID: KA2DSL-2600U **D-Link Corporation**

7. RF Exposure Requirements

7. 1 Test Equipment

Please refer to Section 10 this report.

7. 2 Limit

According to FCC 15.247(i), Systems operating under provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commissions guidelines.

FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified in 1.1307(b)(1) of this chapter.

TABLE 1-LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

| Frequency range (MHz) | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm²) | Averaging time (minutes) | | | |
|---|-------------------------------------|-------------------------------------|---|-----------------------------|--|--|--|
| (A) Limits for Occupational/Controlled Exposures | | | | | | | |
| 0.3–3.0 3.0–30 30–300 300–1500 1500–100,000 | 614 1842/f 61.4 | 1.63 4.89/f 0.163 | *(100) *(900/f²) 1.0 f/300 5 | 6 6 6 6 | | | |
| (B) Limits for General Population/Uncontrolled Exposure | | | | | | | |
| 0.3–1.34 1.34–30 30–300 300–1500 1500–100,000 | 614 824/f 27.5 | 1.63 2.19/f 0.073 | *(100) *(180/f²) 0.2 f/1500 1.0 | 30 30 30 30 | | | |

7. 3 Test Result

Product : Wireless G ADSL2 + Router Test Mode : IEEE 802.11b/g

Test Item : RF Exposure Temperature : 25 ℃ : DC 12V (Power by DC Power Supply) Test Voltage Humidity :56%RH

Test Result : PASS

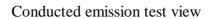
| Evaluation of RF Exposure Compliance Requirements MPE Prediction of MPE according to equation from page 19 of OET Bulletin 65, Edition 97-01 | | | | |
|--|---|--|--|--|
| RF Exposure Requirements | Compliance with FCC Rules | | | |
| S=PG/4∏R2 Where: S=Power density P=Power input to antenna G=Power gain of the antenna relative to an isotropic radiator | Maximum output power at antenna input terminal: 17.83 dBm =60.67 mW Prediction distance: 20 cm Antenna gain: 2.0dBi Prediction frequency: 2412MHz MPE limit for uncontrolled exposure at prediction frequency: 1.0 mW/cm ² | | | |
| R=Distance to the center of radiation of the antenna | Power density at 20 cm: Antenna: 0.02415 mW/cm ² | | | |

f = frequency in MHz
* = Plane-wave equivalent power density
NOTE 1 TO TABLE 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

NOTE 2 TO TABLE 1: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

8. Photos of Testing

8. 1 EUT Test Photographs





Radiated emission test view



KMO FCC ID Report #: KSZ2009110601J

8. 2 EUT Detailed Photographs

EUT top view



Frecom DC Power



KMO FCC ID Report #: KSZ2009110601J

HuntKey DC power



EUT bottom view



KMO FCC ID Report Page 36 of 41 Report #: KSZ2009110601J



Frecom DC power

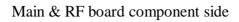


HuntKey DC power



EUT inside whole view







Main & RF board solder side



KMO FCC ID Report #: KSZ2009110601J

9. FCC ID Label

FCC ID: KA2DSL-2600U

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The Label must not be a stick-on paper label. The Label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Proposed Label Location on EUT

EUT Bottom View/Proposed FCC ID Label Location



10. Test Equipment

The following test equipments were used during the radiated & conducted emission test:

| Equipment/ | Manufacturer | Model # | Serial No. | Due Date |
|------------------------------------|-----------------|------------|------------|---------------|
| Facilities | | | | |
| Turntable | SinTek | N/A | N/A | NCR |
| Antenna Tower | SinTek | N/A | N/A | NCR |
| OATS | SinTek | N/A | N/A | Oct. 9, 2010 |
| Bilog Antenna | SCHAFFNER | CBL6111C | 2775 | June 12, 2010 |
| Pre-Amplifier | HP | 8449B | 3008B00965 | June 12, 2010 |
| Horn Antenna | EMCO | 3115 | 9602-4659 | June 12, 2010 |
| Horn Antenna | Rohde & Schwarz | AT4560 | SB3435/03 | May 4, 2010 |
| EMI Test Receiver | Rohde & Schwarz | ESPI7 | 100013 | July 09, 2010 |
| Spectrum Analyzer | Rohde & Schwarz | FSP40 | 100273 | Sep.18, 2010 |
| Signal Generator | FLUKE | PM5418+Y/C | LO747012 | Feb.10, 2010 |
| Signal Generator | FLUKE | PM5418TX | LO738007 | Feb.10, 2010 |
| Loop Antenna | SCHWARZBECK | FMZB1516 | 113 | Jan. 30, 2010 |
| Loop Antenna | Rohde & Schwarz | HFH2-Z2 | 872096/16 | Jan. 30, 2010 |
| Trilog-Super Broadband Antenna | SCHWARZBECK | VULB9161 | 9161-4079 | Sep.18, 2010 |
| Trilog-Super Broadband Antenna | SCHWARZBECK | VULB9161 | 9161-4080 | Sep.18, 2010 |
| Broad-Band Horn Antenna | SCHWARZBECK | BBHA 9120D | 9120D-564 | Sep.18, 2010 |
| Broad-Band Horn Antenna | SCHWARZBECK | BBHA 9120D | 9120D-565 | Sep.18, 2010 |
| Ultra Broadband Antenna | Rohde & Schwarz | HL 562 | 100110 | June.05, 2010 |
| AMN | Rohde & Schwarz | ESH3-Z5 | 100196 | Oct. 23, 2010 |
| AMN | Rohde & Schwarz | ESH3-Z5 | 100197 | Oct. 23, 2010 |
| Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | N/A | N/A |
| Absorbing Clamp | Rohde & Schwarz | MDS-21 | N/A | Oct. 29,2010 |
| KMO Shielded Room | KMO | KMO-001 | N/A | N/A |
| Coaxial Cable with N-Connectors | SCHWARZBECK | AK9515H | 95549 | Sep.18, 2010 |
| Power Meter | Rohde & Schwarz | NRVD | 100041 | Feb.10, 2010 |
| Radio Communication Test Set | Rohde & Schwarz | CMS 54 | 846621/024 | Feb.10, 2010 |
| Modulation Analyzer | Hewlett-Packard | 8901B | 2303A00362 | Feb.10, 2010 |
| SOHO Telephone Switching System | IKE | 2000-108C | N/A | Feb.10, 2010 |
| Temperature Chamber | TABAI | PSL-4GTW | N/A | Feb.10, 2010 |