# APPLICATION FOR CERTIFICATION
On Behalf of
Chungear Industrial Co., Ltd.

Fan/Light Remote Control (Transmitter)

Model : BCF-00I9X2

FCC ID：KUJCE9001

Prepared for : Chungear Industrial Co., Ltd.
106 Kanho Rd., Taichung,
Taiwan, R.O.C.

Prepared by : Taiwan Tokin EMC Eng. Corp.
No. 53-11, Tin-Fu Tsun, Lin-Kou,
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| | | |
|---|---|---|
| File Number | : | ATM-G90673 |
| Report Number | : | TTEMC-F01114-01 |
| Date of Test | : | Aug. 10 ~ 16, 2001 |
| Date of Report | : | Sep. 05, 2001 |

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# TEST REPORT CERTIFICATION

| | | |
|---|---|---|
| Applicant | : | Chungear Industrial Co., Ltd. |
| Manufacturer | : | Chungear Industrial Co., Ltd. |
| FCC ID | : | KUJCE9001 |
| EUT Description | : | Fan/Light Remote Control (Transmitter) |

(A) MODEL NO. : BCF-00I9X2

(B) SERIAL NO. : N/A

(C) POWER SUPPLY : DC 9V

Measurement Procedure Used:

FCC RULES AND REGULATIONS PART 15 SUBPART C, MAY 2001
AND FCC/OET MP-4

The device described above was tested by TAIWAN TOKIN EMC ENG. CORP. to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 subpart C limits both radiated and conducted emissions.

The measurement results are contained in this test report and TAIWAN TOKIN EMC ENG. CORP. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the FCC official limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Taiwan Tokin EMC Eng. corp.

Date of Test : Aug. 10 ~ 16, 2001

Prepared by : Cherry Wang Sep.10.2001
(CHERRY WANG)

Test Engineer : Allen Wang Sep.10.2001
(ALLEN WANG)

Approve & Authorized Signer : Leon Liu Sep.10 2001
(LEON LIU)

# 1. GENERAL INFORMATION

## 1.1. Description of Device (EUT)

| | | |
|---|---|---|
| Description | : | Fan/Light Remote Control (Transmitter) |
| Model Number | : | BCF-00I9X2 |
| FCC ID | : | KUJCE9001 |
| Applicant | : | Chungear Industrial Co., Ltd.<br>160 Kanho Rd., Taichung,<br>Taiwan, R.O.C. |
| Manufacturer | : | Chungear Industrial Co., Ltd.<br>160 Kanho Rd., Taichung,<br>Taiwan, R.O.C. |
| Fundamental Frequency | : | 299.6MHz |
| Power Supply | : | DC 9V |
| Date of Receipt of Sample | : | May 29, 2001 |
| Date of Test | : | Aug. 10 ~ 16, 2001 |

Fan/Light Remote Control -Receiver
Model No.: BCF-2DI162
FCC ID : By DoC

## 1.2. Description of Test Facility

| | | |
|---|---|---|
| Site Description<br>(No. 5 Open Site) | : | Jan. 29, 2001 Re-File on<br>Federal Communication Commission<br>FCC Engineering Laboratory<br>7435 Oakland Mills Road<br>Columbia, MD 21046, U.S.A.<br>Registration Number: 90992 |
| Name of Firm | : | Taiwan Tokin EMC Eng. Corp. |
| Site Location #1 | : | No. 53-11, Tin-Fu Tsun, Lin-Kou,<br>Taipei Hsien, Taiwan, R.O.C. |
| Site Location #2 | : | No. 67-4, Tin-Fu Tsun, Lin-Kou,<br>Taipei Hsien, Taiwan, R.O.C. |
| NVLAP Lab Code | : | 200077-0 |

## 1.3. Measurement Uncertainty

(1) Radiation Uncertainty Ur = ± 4.01dB
(2) Conduction Uncertainty Uc = ± 2.26dB

# 2. POWERLINE CONDUCTED TEST

【This EUT input voltage is DC power operated, so no conductive emissions were performed according to FCC Part 15 C section § 15.207】

# 3. RADIATED EMISSION TEST

## 3.1. Test Equipment

The following test equipment are used during the radiated emission tests：

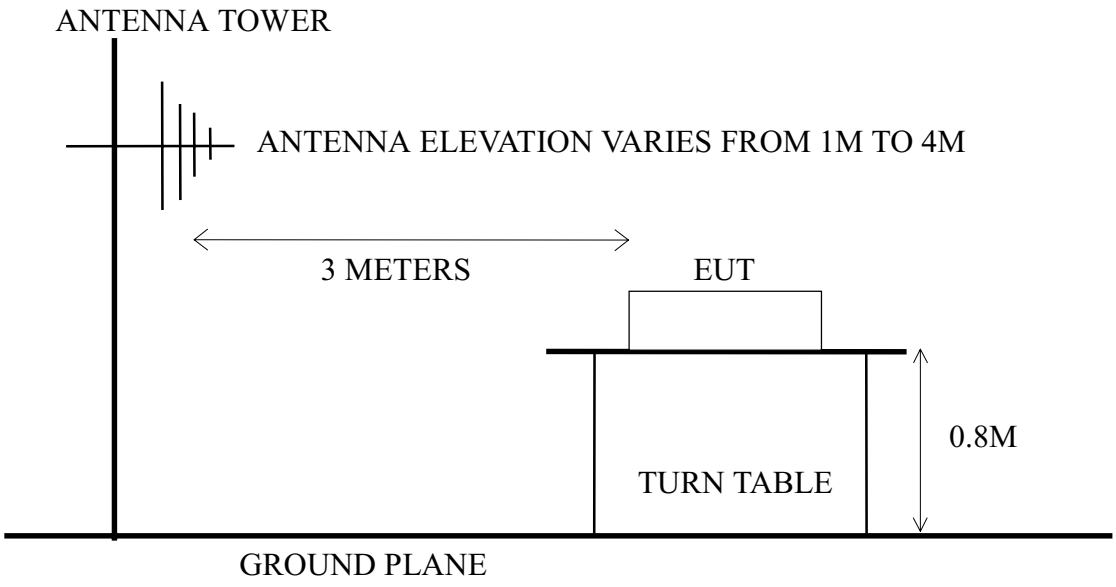
| Item | Type | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|---|---|---|---|---|---|---|
| 1. | Spectrum Analyzer (for 30MHz~3GHz) | HP | 8595E | 3829A03778 | Aug. 17, 01’ | 1 Year |
| 2. | Test Receiver | R&S | ESVS10 | 849231/017 | Dec. 01, 00’ | 1 Year |
| 3. | Biconical Antenna | Chase | VBA6106A | 1227 | Apr. 16, 01’ | 1 Year |
| 4. | Log Periodic Antenna | Chase | UPA6109 | 1061 | Apr. 16, 01’ | 1 Year |
| 5. | Amplifier (for 1~3GHz) | HP | 8449B | 3008A01284 | Jul.04, 01’ | 1 Year |
| 6. | Horn Antenna (for 1~3GHz) | EMCO | 3115 | 9112-3775 | Apr.17, 01’ | 1 Year |

## 3.2. Test Setup

### 3.2.1. Block Diagram of connection between EUT and simulators

FAN/LIGHT REMOTE CONTROL
(TRANSMITTER, EUT)

### 3.2.2. Open Field Test Site (3M) Setup Diagram



## 3.3. Radiation Limit (§15.231)

| FREQUENCY MHz | DISTANCE Meters | FIELD STRENGTHS LIMITS | |
|---|---|---|---|
| | | μV/m | dBμV/m |
| Fundamental Freq. | 3 | 5400 | 74.65 (Quasi-Peak) |
| Spurious Emission | 3 | 540 | 54.65 (Peak) |

Remark: (1) Emission level (dBμV/m) = 20 log Emission level (μV/m)
(2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

## 3.4. EUT's Configuration during Compliance Measurement

The following equipment were installed on radiated measurement to meet the commission requirement and operating in a manner which tended to maximize its emission characteristics in a normal application.

3.4.1. Fan/Light Remote Control (Transmitter) (EUT)

| | | |
|---|---|---|
| Model Number | : | BCF-00I9X2 |
| Serial Number | : | N/A |
| Manufacturer | : | Chungear Industrial Co., Ltd. |
| Fundamental Frequency | : | 299.6MHz |

## 3.5. Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown on 3.2.

3.5.2. Turned on the power of all equipment.

3.5.3. The EUT (Fan/Light Remote Control (Transmitter)) was emitted the fundamental frequency with data code.

3.5.4. The EUT was at worked on Fan and Light function mode.

3.5.5. Repeated the above procedures from 3.5.3 to 3.5.4.

## 3.6. Test Procedure

The EUT and its simulators were placed on a turn table which was 0.8 meter above the ground. The turn table rotated 360 degrees to determine the position of the maximum emission level. For 30MHz to 3GHz frequency range, EUT was set 3 meters away from the receiving antenna which was mounted on a antenna tower. The antenna moved up and down between 1 to 4 meters for 30MHz to 3GHz frequency range to find out the maximum emission level. Broadband antenna such as calibrated biconical and log- periodical antenna or horn antenna were used as a receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to FCC/OET MP-4 regulation.

The bandwidth of test receiver was set at 120KHz and resolution bandwidth of spectrum analyzer was set at 1MHz.

EUT with the following test modes were done during radiated measurement and all the test results are listed in section 3.8.

| No. | Test Model No. | Test Modes |
|---|---|---|
| 1. | BCF-00I9X2 | EUT on Stand, Fan Mode/Hi Speed |
| 2. | | EUT on Stand, Fan Mode/Medium Speed |
| 3. | | EUT on Stand, Fan Mode/Low Speed |
| 4. | | EUT on Stand, Light Mode |
| 5. | | EUT on Side, Fan Mode/Hi Speed |
| 6. | | EUT on Side, Fan Mode/Medium Speed |
| 7. | | EUT on Side, Fan Mode/Low Speed |
| 8. | | EUT on Side, Light Mode |
| 9. | | EUT on Lie, Fan Mode/Hi Speed |
| 10. | | EUT on Lie, Fan Mode/Medium Speed |
| 11. | | EUT on Lie, Fan Mode/Low Speed |
| 12. | | EUT on Lie, Light Mode |

## 3.7. Test Results

**PASSED**. Please refer to the following pages.

## 3.8. Radiated Emission Noise Measurement Results

The frequency spectrum from 30 MHz to 3GHz is investigated. All the emissions not reported below are too low against the FCC part 15 subpart C limit.

Date of Test： Aug. 10, 2001 Temperature： 26℃

EUT： Fan/Light Remote Control (Transmitter), M/N: BCF-00I9X2 Humidity： 64%

Test Mode： EUT on Stand, Fan Mode/Hi Speed

| Emission Frequency MHz | Antenna Factor dB/m | Cable Loss dB | (Pre-Amp) Factor dB | Meter Reading Horizontal dBμV | Emission Level Horizontal dBμV/m | Limits dBμV/m | Margin dB |
|---|---|---|---|---|---|---|---|
| Fundamental Frequency (Quasi-Peak Values) | | | | | | | |
| 299.559 | 26.09 | 3.13 | 0.00 | 35.99 | 65.21 | 74.64 | 9.43 |
| Spurious Frequency | | | | | | | |
| 599.559 | 20.48 | 4.79 | 0.00 | 23.28 | 48.55 | 54.64 | 6.09 |
| 898.620 | 23.62 | 6.23 | 0.00 | 16.70 | 46.55 | 54.64 | 8.09 |
| 1198.236 | 25.17 | 4.42 | 32.41 | 48.41 | 45.59 | 54.64 | 9.05 |
| 1497.795 | 25.88 | 4.80 | 32.26 | 43.51 | 41.93 | 54.64 | 12.71 |
| 1797.353 | 26.46 | 5.58 | 32.13 | 44.19 | 44.10 | 54.64 | 10.54 |
| 2096.912 | 26.98 | 6.21 | 32.09 | 41.98 | 43.08 | 54.64 | 11.56 |
| 2396.471 | 27.47 | 6.68 | 32.17 | 40.21 | 42.19 | 54.64 | 12.45 |
| 2696.030 | 27.90 | 7.10 | 32.25 | 39.24 | 41.99 | 54.64 | 12.65 |
| 2995.589 | 28.30 | 7.48 | 32.33 | 39.92 | 43.37 | 54.64 | 11.27 |

| Emission Frequency MHz | Antenna Factor dB/m | Cable Loss dB | (Pre-Amp) Factor dB | Meter Reading Vertical dBμV | Emission Level Vertical dBμV/m | Limits dBμV/m | Margin dB |
|---|---|---|---|---|---|---|---|
| Fundamental Frequency (Quasi-Peak Values) | | | | | | | |
| 299.559 | 25.30 | 3.13 | 0.00 | 34.79 | 63.22 | 74.64 | 11.42 |
| Spurious Frequency | | | | | | | |
| 599.118 | 20.54 | 4.79 | 0.00 | 19.22 | 44.55 | 54.64 | 10.09 |
| 898.620 | 24.99 | 6.23 | 0.00 | 9.30 | 40.52 | 54.64 | 14.12 |
| 1198.236 | 25.17 | 4.42 | 32.41 | 48.36 | 45.54 | 54.64 | 9.10 |
| 1497.795 | 25.88 | 4.80 | 32.26 | 43.47 | 41.89 | 54.64 | 12.75 |
| 1797.353 | 26.46 | 5.58 | 32.13 | 46.28 | 46.19 | 54.64 | 8.45 |
| 2096.912 | 26.98 | 6.21 | 32.09 | 43.12 | 44.22 | 54.64 | 10.42 |
| 2396.471 | 27.47 | 6.68 | 32.17 | 40.99 | 42.97 | 54.64 | 11.67 |
| 2696.030 | 27.90 | 7.10 | 32.25 | 39.26 | 42.01 | 54.64 | 12.63 |
| 2995.589 | 28.30 | 7.48 | 32.33 | 38.40 | 41.85 | 54.64 | 12.79 |

Remark：
1. For Fundamental Frequency, the readings are Quasi-Peak values below 1000MHz; For Spurious Frequency, the readings are Quasi-Peak values below 1000MHz; the readings are peak values above 1GHz.
2. Emission Level = Antenna Factor + Cable Loss + Meter Reading – Pre-Amp Factor.
3. Measurement was up to 10th harmonic (~3GHz), but the emissions level were too low against the official limit and not report.

Date of Test： Aug. 10, 2001 Temperature： 26℃

EUT： Fan/Light Remote Control (Transmitter), M/N: BCF-00I9X2 Humidity： 64%

Test Mode： EUT on Stand, Fan Mode/Medium Speed

| Emission Frequency MHz | Antenna Factor dB/m | Cable Loss dB | (Pre-Amp) Factor dB | Meter Reading Horizontal dBμV | Emission Level Horizontal dBμV/m | Limits dBμV/m | Margin dB |
|---|---|---|---|---|---|---|---|
| Fundamental Frequency (Quasi-Peak Values) | | | | | | | |
| 299.605 | 26.09 | 3.13 | 0.00 | 37.20 | 66.42 | 74.64 | 8.22 |
| Spurious Frequency | | | | | | | |
| 599.211 | 20.48 | 4.79 | 0.00 | 22.98 | 48.25 | 54.64 | 6.39 |
| 898.816 | 23.62 | 6.23 | 0.00 | 16.67 | 46.52 | 54.64 | 8.12 |
| 1198.422 | 25.17 | 4.42 | 32.41 | 50.13 | 47.31 | 54.64 | 7.33 |
| 1498.027 | 25.88 | 4.80 | 32.26 | 47.61 | 46.03 | 54.64 | 8.61 |
| 1797.632 | 26.46 | 5.58 | 32.13 | 42.15 | 42.06 | 54.64 | 12.58 |
| 2097.238 | 26.98 | 6.21 | 32.09 | 43.22 | 44.32 | 54.64 | 10.32 |
| 2396.843 | 27.47 | 6.68 | 32.17 | 44.06 | 46.04 | 54.64 | 8.60 |
| 2696.448 | 27.90 | 7.10 | 32.25 | 42.21 | 44.96 | 54.64 | 9.68 |
| 2996.054 | 28.30 | 7.48 | 32.33 | 38.60 | 42.05 | 54.64 | 12.59 |

| Emission Frequency MHz | Antenna Factor dB/m | Cable Loss dB | (Pre-Amp) Factor dB | Meter Reading Vertical dBμV | Emission Level Vertical dBμV/m | Limits dBμV/m | Margin dB |
|---|---|---|---|---|---|---|---|
| Fundamental Frequency (Quasi-Peak Values) | | | | | | | |
| 299.605 | 25.30 | 3.13 | 0.00 | 33.79 | 62.22 | 74.64 | 12.42 |
| Spurious Frequency | | | | | | | |
| 599.211 | 20.54 | 4.79 | 0.00 | 22.21 | 47.54 | 54.64 | 7.10 |
| 898.813 | 24.99 | 6.23 | 0.00 | 13.23 | 44.45 | 54.64 | 10.19 |
| 1198.422 | 25.17 | 4.42 | 32.41 | 48.27 | 45.45 | 54.64 | 9.19 |
| 1498.027 | 25.88 | 4.80 | 32.26 | 43.49 | 41.91 | 54.64 | 12.73 |
| 1797.632 | 26.46 | 5.58 | 32.13 | 43.92 | 43.83 | 54.64 | 10.81 |
| 2097.238 | 26.98 | 6.21 | 32.09 | 43.15 | 44.25 | 54.64 | 10.39 |
| 2396.843 | 27.47 | 6.68 | 32.17 | 40.43 | 42.41 | 54.64 | 12.23 |
| 2696.448 | 27.90 | 7.10 | 32.25 | 41.80 | 44.55 | 54.64 | 10.09 |
| 2296.054 | 28.30 | 7.48 | 32.33 | 38.61 | 42.06 | 54.64 | 12.58 |

Remark：
1. For Fundamental Frequency, the readings are Quasi-Peak values below 1000MHz; For Spurious Frequency, the readings are Quasi-Peak values below 1000MHz; the readings are peak values above 1GHz.
2. Emission Level = Antenna Factor + Cable Loss + Meter Reading – Pre-Amp Factor.
3. Measurement was up to 10th harmonic (~3GHz), but the emissions level were too low against the official limit and not report.

Date of Test： Aug. 10, 2001 Temperature： 26℃

EUT： Fan/Light Remote Control (Transmitter), M/N: BCF-00I9X2 Humidity： 64%

Test Mode： EUT on Stand, Fan Mode/Low Speed

| Emission Frequency MHz | Antenna Factor dB/m | Cable Loss dB | (Pre-Amp) Factor dB | Meter Reading Horizontal dBμV | Emission Level Horizontal dBμV/m | Limits dBμV/m | Margin dB |
|---|---|---|---|---|---|---|---|
| Fundamental Frequency (Quasi-Peak Values) | | | | | | | |
| 299.633 | 26.09 | 3.13 | 0.00 | 36.23 | 65.45 | 74.64 | 9.19 |
| Spurious Frequency | | | | | | | |
| 599.265 | 20.48 | 4.79 | 0.00 | 20.18 | 45.45 | 54.64 | 9.19 |
| 898.898 | 23.62 | 6.23 | 0.00 | 12.30 | 42.15 | 54.64 | 12.49 |
| 1198.530 | 25.17 | 4.42 | 32.41 | 49.36 | 46.54 | 54.64 | 8.10 |
| 1498.163 | 25.88 | 4.80 | 32.26 | 45.65 | 44.07 | 54.64 | 10.57 |
| 1797.796 | 26.46 | 5.58 | 32.13 | 44.28 | 44.19 | 54.64 | 10.45 |
| 2097.428 | 26.98 | 6.21 | 32.09 | 44.25 | 45.35 | 54.64 | 9.29 |
| 2397.061 | 27.47 | 6.68 | 32.17 | 41.99 | 43.97 | 54.64 | 10.67 |
| 2696.693 | 27.90 | 7.10 | 32.25 | 42.09 | 44.84 | 54.64 | 9.80 |
| 2996.326 | 28.30 | 7.48 | 32.33 | 39.89 | 43.34 | 54.64 | 11.30 |

| Emission Frequency MHz | Antenna Factor dB/m | Cable Loss dB | (Pre-Amp) Factor dB | Meter Reading Vertical dBμV | Emission Level Vertical dBμV/m | Limits dBμV/m | Margin dB |
|---|---|---|---|---|---|---|---|
| Fundamental Frequency (Quasi-Peak Values) | | | | | | | |
| 299.633 | 25.30 | 3.13 | 0.00 | 35.78 | 64.21 | 74.64 | 10.43 |
| Spurious Frequency | | | | | | | |
| 599.265 | 20.54 | 4.79 | 0.00 | 19.31 | 44.64 | 54.64 | 10.00 |
| 898.898 | 24.99 | 6.23 | 0.00 | 11.23 | 42.45 | 54.64 | 12.19 |
| 1198.530 | 25.17 | 4.42 | 32.41 | 49.22 | 46.40 | 54.64 | 8.24 |
| 1498.163 | 25.88 | 4.80 | 32.26 | 47.03 | 45.45 | 54.64 | 9.19 |
| 1797.796 | 26.46 | 5.58 | 32.13 | 44.88 | 44.79 | 54.64 | 9.85 |
| 2097.428 | 26.98 | 6.21 | 32.09 | 46.31 | 47.41 | 54.64 | 7.23 |
| 2397.061 | 27.47 | 6.68 | 32.17 | 44.19 | 46.17 | 54.64 | 8.47 |
| 2696.693 | 27.90 | 7.10 | 32.25 | 41.99 | 44.74 | 54.64 | 9.90 |
| 2996.326 | 28.30 | 7.48 | 32.33 | 41.47 | 44.92 | 54.64 | 9.72 |

Remark：
1. For Fundamental Frequency, the readings are Quasi-Peak values below 1000MHz; For Spurious Frequency, the readings are Quasi-Peak values below 1000MHz; the readings are peak values above 1GHz.
2. Emission Level = Antenna Factor + Cable Loss + Meter Reading – Pre-Amp Factor.
3. Measurement was up to 10th harmonic (~3GHz), but the emissions level were too low against the official limit and not report.

Date of Test： Aug. 10, 2001 Temperature： 26℃

EUT： Fan/Light Remote Control (Transmitter), M/N: BCF-00I9X2 Humidity： 64%

Test Mode： EUT on Stand, Light Mode

| Emission Frequency MHz | Antenna Factor dB/m | Cable Loss dB | (Pre-Amp) Factor dB | Meter Reading Horizontal dBμV | Emission Level Horizontal dBμV/m | Limits dBμV/m | Margin dB |
|---|---|---|---|---|---|---|---|
| Fundamental Frequency (Quasi-Peak Values) | | | | | | | |
| 299.540 | 26.09 | 3.13 | 0.00 | 37.24 | 66.46 | 74.64 | 8.18 |
| Spurious Frequency | | | | | | | |
| 599.080 | 20.48 | 4.79 | 0.00 | 23.24 | 48.51 | 54.64 | 6.13 |
| 898.620 | 23.62 | 6.23 | 0.00 | 16.93 | 46.78 | 54.64 | 7.86 |
| 1198.147 | 25.17 | 4.42 | 32.41 | 48.27 | 45.45 | 54.64 | 9.19 |
| 1497.688 | 25.88 | 4.80 | 32.26 | 41.84 | 40.26 | 54.64 | 14.38 |
| 1797.228 | 26.46 | 5.58 | 32.13 | 42.15 | 42.06 | 54.64 | 12.58 |
| 2096.768 | 26.97 | 6.20 | 32.08 | 43.86 | 44.95 | 54.64 | 9.69 |
| 2396.308 | 27.47 | 6.68 | 32.17 | 40.07 | 42.05 | 54.64 | 12.59 |
| 2696.847 | 27.90 | 7.10 | 32.25 | 39.90 | 42.65 | 54.64 | 11.99 |
| 2995.387 | 28.30 | 7.48 | 32.33 | 39.62 | 43.07 | 54.64 | 11.57 |

| Emission Frequency MHz | Antenna Factor dB/m | Cable Loss dB | (Pre-Amp) Factor dB | Meter Reading Vertical dBμV | Emission Level Vertical dBμV/m | Limits dBμV/m | Margin dB |
|---|---|---|---|---|---|---|---|
| Fundamental Frequency (Quasi-Peak Values) | | | | | | | |
| 299.540 | 25.30 | 3.13 | 0.00 | 36.10 | 64.53 | 74.64 | 10.11 |
| Spurious Frequency | | | | | | | |
| 599.080 | 20.54 | 4.79 | 0.00 | 21.56 | 46.89 | 54.64 | 7.75 |
| 898.620 | 24.99 | 6.23 | 0.00 | 13.34 | 44.56 | 54.64 | 10.08 |
| 1198.147 | 25.17 | 4.42 | 32.41 | 49.36 | 46.54 | 54.64 | 8.10 |
| 1497.688 | 25.88 | 4.80 | 32.26 | 44.44 | 42.86 | 54.64 | 11.78 |
| 1797.228 | 26.46 | 5.58 | 32.13 | 44.26 | 44.17 | 54.64 | 10.47 |
| 2096.768 | 26.97 | 6.20 | 32.08 | 38.77 | 39.86 | 54.64 | 14.78 |
| 2396.308 | 27.47 | 6.68 | 32.17 | 41.36 | 43.34 | 54.64 | 11.30 |
| 2695.847 | 27.90 | 7.10 | 32.25 | 41.26 | 44.01 | 54.64 | 10.63 |
| 2995.387 | 28.30 | 7.48 | 32.33 | 41.66 | 45.11 | 54.64 | 9.53 |

Remark：
1. For Fundamental Frequency, the readings are Quasi-Peak values below 1000MHz; For Spurious Frequency, the readings are Quasi-Peak values below 1000MHz; the readings are peak values above 1GHz.
2. Emission Level = Antenna Factor + Cable Loss + Meter Reading – Pre-Amp Factor.
3. Measurement was up to 10th harmonic (~3GHz), but the emissions level were too low against the official limit and not report.

Date of Test： Aug. 10, 2001 Temperature： 26℃

EUT： Fan/Light Remote Control (Transmitter), M/N: BCF-00I9X2 Humidity： 64%

Test Mode： EUT on Side, Fan Mode/Hi Speed

| Emission Frequency MHz | Antenna Factor dB/m | Cable Loss dB | (Pre-Amp) Factor dB | Meter Reading Horizontal dBμV | Emission Level Horizontal dBμV/m | Limits dBμV/m | Margin dB |
|---|---|---|---|---|---|---|---|
| Fundamental Frequency (Quasi-Peak Values) | | | | | | | |
| 299.559 | 26.09 | 3.13 | 0.00 | 35.41 | 64.63 | 74.64 | 10.01 |
| Spurious Frequency | | | | | | | |
| 599.118 | 20.48 | 4.79 | 0.00 | 20.05 | 45.32 | 54.64 | 9.32 |
| 898.620 | 23.62 | 6.23 | 0.00 | 11.40 | 41.25 | 54.64 | 13.39 |
| 1198.236 | 25.17 | 4.42 | 32.41 | 49.41 | 46.59 | 54.64 | 8.05 |
| 1497.795 | 25.88 | 4.80 | 32.26 | 45.51 | 43.93 | 54.64 | 10.71 |
| 1797.353 | 26.46 | 5.58 | 32.13 | 43.19 | 43.10 | 54.64 | 11.54 |
| 2096.912 | 26.98 | 6.21 | 32.09 | 41.98 | 43.08 | 54.64 | 11.56 |
| 2396.471 | 27.47 | 6.68 | 32.17 | 38.21 | 40.19 | 54.64 | 14.45 |
| 2696.030 | 27.90 | 7.10 | 32.25 | 42.24 | 44.99 | 54.64 | 9.65 |
| 2995.589 | 28.30 | 7.48 | 32.33 | 38.92 | 42.37 | 54.64 | 12.27 |

| Emission Frequency MHz | Antenna Factor dB/m | Cable Loss dB | (Pre-Amp) Factor dB | Meter Reading Vertical dBμV | Emission Level Vertical dBμV/m | Limits dBμV/m | Margin dB |
|---|---|---|---|---|---|---|---|
| Fundamental Frequency (Quasi-Peak Values) | | | | | | | |
| 299.559 | 25.30 | 3.13 | 0.00 | 35.21 | 63.64 | 74.64 | 11.00 |
| Spurious Frequency | | | | | | | |
| 599.118 | 20.54 | 4.79 | 0.00 | 23.32 | 48.65 | 54.64 | 5.99 |
| 898.620 | 24.99 | 6.23 | 0.00 | 14.20 | 45.42 | 54.64 | 9.22 |
| 1198.236 | 25.17 | 4.42 | 32.41 | 49.36 | 46.54 | 54.64 | 8.10 |
| 1497.795 | 25.88 | 4.80 | 32.26 | 47.47 | 45.89 | 54.64 | 8.75 |
| 1797.353 | 26.46 | 5.58 | 32.13 | 43.28 | 43.19 | 54.64 | 11.45 |
| 2096.912 | 26.98 | 6.21 | 32.09 | 42.12 | 43.22 | 54.64 | 11.42 |
| 2396.471 | 27.47 | 6.68 | 32.17 | 42.99 | 44.97 | 54.64 | 9.67 |
| 2696.030 | 27.90 | 7.10 | 32.25 | 40.26 | 43.01 | 54.64 | 11.63 |
| 2995.589 | 28.30 | 7.48 | 32.33 | 42.40 | 45.85 | 54.64 | 8.79 |

Remark：
1. For Fundamental Frequency, the readings are Quasi-Peak values below 1000MHz; For Spurious Frequency, the readings are Quasi-Peak values below 1000MHz; the readings are peak values above 1GHz.
2. Emission Level = Antenna Factor + Cable Loss + Meter Reading – Pre-Amp Factor.
3. Measurement was up to 10th harmonic (~3GHz), but the emissions level were too low against the official limit and not report.

Date of Test： Aug. 10, 2001 Temperature： 26℃

EUT： Fan/Light Remote Control (Transmitter), M/N: BCF-00I9X2 Humidity： 64%

Test Mode： EUT on Side, Fan Mode/Medium Speed

| Emission Frequency MHz | Antenna Factor dB/m | Cable Loss dB | (Pre-Amp) Factor dB | Meter Reading Horizontal dBμV | Emission Level Horizontal dBμV/m | Limits dBμV/m | Margin dB |
|---|---|---|---|---|---|---|---|
| Fundamental Frequency (Quasi-Peak Values) | | | | | | | |
| 299.605 | 26.09 | 3.13 | 0.00 | 37.11 | 66.33 | 74.64 | 8.31 |
| Spurious Frequency | | | | | | | |
| 599.211 | 20.48 | 4.79 | 0.00 | 19.04 | 44.31 | 54.64 | 10.33 |
| 898.816 | 23.62 | 6.23 | 0.00 | 12.50 | 42.35 | 54.64 | 12.29 |
| 1198.422 | 25.17 | 4.42 | 32.41 | 48.59 | 45.77 | 54.64 | 8.87 |
| 1498.027 | 25.88 | 4.80 | 32.26 | 44.77 | 43.19 | 54.64 | 11.45 |
| 1797.632 | 26.46 | 5.58 | 32.13 | 43.03 | 42.94 | 54.64 | 11.70 |
| 2097.238 | 26.98 | 6.21 | 32.09 | 41.99 | 43.09 | 54.64 | 11.55 |
| 2396.843 | 27.47 | 6.68 | 32.17 | 42.51 | 44.49 | 54.64 | 10.15 |
| 2696.448 | 27.90 | 7.10 | 32.25 | 41.94 | 44.69 | 54.64 | 9.95 |
| 2996.054 | 28.30 | 7.48 | 32.33 | 37.75 | 41.20 | 54.64 | 13.44 |

| Emission Frequency MHz | Antenna Factor dB/m | Cable Loss dB | (Pre-Amp) Factor dB | Meter Reading Vertical dBμV | Emission Level Vertical dBμV/m | Limits dBμV/m | Margin dB |
|---|---|---|---|---|---|---|---|
| Fundamental Frequency (Quasi-Peak Values) | | | | | | | |
| 299.605 | 25.30 | 3.13 | 0.00 | 36.73 | 65.16 | 74.64 | 9.48 |
| Spurious Frequency | | | | | | | |
| 599.211 | 20.54 | 4.79 | 0.00 | 21.79 | 47.12 | 54.64 | 7.52 |
| 898.816 | 24.99 | 6.23 | 0.00 | 11.23 | 42.45 | 54.64 | 12.19 |
| 1198.422 | 25.17 | 4.42 | 32.41 | 50.29 | 47.47 | 54.64 | 7.17 |
| 1498.027 | 25.88 | 4.80 | 32.26 | 43.70 | 42.12 | 54.64 | 12.52 |
| 1797.632 | 26.46 | 5.58 | 32.13 | 45.22 | 45.13 | 54.64 | 9.51 |
| 2097.238 | 26.98 | 6.21 | 32.09 | 43.92 | 45.02 | 54.64 | 9.62 |
| 2396.843 | 27.47 | 6.68 | 32.17 | 43.30 | 45.28 | 54.64 | 9.36 |
| 2696.448 | 27.90 | 7.10 | 32.25 | 42.82 | 45.57 | 54.64 | 9.07 |
| 2296.054 | 28.30 | 7.48 | 32.33 | 39.07 | 42.52 | 54.64 | 12.12 |

Remark：
1. For Fundamental Frequency, the readings are Quasi-Peak values below 1000MHz; For Spurious Frequency, the readings are Quasi-Peak values below 1000MHz; the readings are peak values above 1GHz.
2. Emission Level = Antenna Factor + Cable Loss + Meter Reading – Pre-Amp Factor.
3. Measurement was up to 10th harmonic (~3GHz), but the emissions level were too low against the official limit and not report.

Date of Test： Aug. 10, 2001 Temperature： 26℃

EUT： Fan/Light Remote Control (Transmitter), M/N: BCF-00I9X2 Humidity： 64%

Test Mode： EUT on Side, Fan Mode/Low Speed

| Emission Frequency MHz | Antenna Factor dB/m | Cable Loss dB | (Pre-Amp) Factor dB | Meter Reading Horizontal dBμV | Emission Level Horizontal dBμV/m | Limits dBμV/m | Margin dB |
|---|---|---|---|---|---|---|---|
| Fundamental Frequency (Quasi-Peak Values) | | | | | | | |
| 299.633 | 26.09 | 3.13 | 0.00 | 37.21 | 66.43 | 74.64 | 8.21 |
| Spurious Frequency | | | | | | | |
| 599.265 | 20.48 | 4.79 | 0.00 | 22.14 | 47.41 | 54.64 | 7.23 |
| 898.898 | 23.62 | 6.23 | 0.00 | 14.30 | 44.15 | 54.64 | 10.49 |
| 1198.530 | 25.17 | 4.42 | 32.41 | 48.41 | 45.59 | 54.64 | 9.05 |
| 1498.163 | 25.88 | 4.80 | 32.26 | 44.70 | 43.12 | 54.64 | 11.52 |
| 1797.796 | 26.46 | 5.58 | 32.13 | 41.51 | 41.42 | 54.64 | 13.22 |
| 2097.428 | 26.98 | 6.21 | 32.09 | 40.03 | 41.13 | 54.64 | 13.51 |
| 2397.061 | 27.47 | 6.68 | 32.17 | 38.10 | 40.08 | 54.64 | 14.56 |
| 2696.693 | 27.90 | 7.10 | 32.25 | 40.00 | 42.75 | 54.64 | 11.89 |
| 2996.326 | 28.30 | 7.48 | 32.33 | 36.84 | 40.29 | 54.64 | 14.35 |

| Emission Frequency MHz | Antenna Factor dB/m | Cable Loss dB | (Pre-Amp) Factor dB | Meter Reading Vertical dBμV | Emission Level Vertical dBμV/m | Limits dBμV/m | Margin dB |
|---|---|---|---|---|---|---|---|
| Fundamental Frequency (Quasi-Peak Values) | | | | | | | |
| 299.633 | 25.30 | 3.13 | 0.00 | 34.99 | 63.42 | 74.64 | 11.22 |
| Spurious Frequency | | | | | | | |
| 599.265 | 20.54 | 4.79 | 0.00 | 19.29 | 44.62 | 54.64 | 10.02 |
| 898.898 | 24.99 | 6.23 | 0.00 | 11.23 | 42.45 | 54.64 | 12.19 |
| 1198.533 | 25.17 | 4.42 | 32.41 | 49.06 | 46.24 | 54.64 | 8.40 |
| 1498.166 | 25.88 | 4.80 | 32.26 | 45.81 | 44.23 | 54.64 | 10.41 |
| 1797.798 | 26.46 | 5.58 | 32.13 | 44.17 | 44.08 | 54.64 | 10.56 |
| 2097.431 | 26.98 | 6.21 | 32.09 | 39.74 | 40.84 | 54.64 | 13.80 |
| 2397.063 | 27.47 | 6.68 | 32.17 | 40.99 | 42.97 | 54.64 | 11.67 |
| 2696.696 | 27.90 | 7.10 | 32.25 | 41.10 | 43.85 | 54.64 | 10.79 |
| 2996.326 | 28.30 | 7.48 | 32.33 | 41.70 | 45.15 | 54.64 | 9.49 |

Remark：
1. For Fundamental Frequency, the readings are Quasi-Peak values below 1000MHz; For Spurious Frequency, the readings are Quasi-Peak values below 1000MHz; the readings are peak values above 1GHz.
2. Emission Level = Antenna Factor + Cable Loss + Meter Reading – Pre-Amp Factor.
3. Measurement was up to 10th harmonic (~3GHz), but the emissions level were too low against the official limit and not report.

Date of Test： Aug. 10, 2001 Temperature： 26℃

EUT： Fan/Light Remote Control (Transmitter), M/N: BCF-00I9X2 Humidity： 64%

Test Mode： EUT on Side, Light Mode

| Emission Frequency MHz | Antenna Factor dB/m | Cable Loss dB | (Pre-Amp) Factor dB | Meter Reading Horizontal dBμV | Emission Level Horizontal dBμV/m | Limits dBμV/m | Margin dB |
|---|---|---|---|---|---|---|---|
| Fundamental Frequency (Quasi-Peak Values) | | | | | | | |
| 299.540 | 26.09 | 3.13 | 0.00 | 38.11 | 67.33 | 74.64 | 7.31 |
| Spurious Frequency | | | | | | | |
| 599.080 | 20.48 | 4.79 | 0.00 | 22.28 | 47.55 | 54.64 | 7.09 |
| 898.620 | 23.62 | 6.23 | 0.00 | 14.71 | 44.56 | 54.64 | 10.08 |
| 1198.147 | 25.17 | 4.42 | 32.41 | 47.22 | 44.40 | 54.64 | 10.24 |
| 1497.688 | 25.88 | 4.80 | 32.26 | 42.84 | 41.26 | 54.64 | 13.38 |
| 1797.228 | 26.46 | 5.58 | 32.13 | 41.17 | 41.08 | 54.64 | 13.56 |
| 2096.768 | 26.97 | 6.20 | 32.08 | 37.87 | 38.96 | 54.64 | 15.68 |
| 2396.308 | 27.47 | 6.68 | 32.17 | 40.07 | 42.05 | 54.64 | 12.59 |
| 2696.847 | 27.90 | 7.10 | 32.25 | 38.90 | 41.65 | 54.64 | 12.99 |
| 2995.387 | 28.30 | 7.48 | 32.33 | 42.62 | 46.07 | 54.64 | 8.57 |

| Emission Frequency MHz | Antenna Factor dB/m | Cable Loss dB | (Pre-Amp) Factor dB | Meter Reading Vertical dBμV | Emission Level Vertical dBμV/m | Limits dBμV/m | Margin dB |
|---|---|---|---|---|---|---|---|
| Fundamental Frequency (Quasi-Peak Values) | | | | | | | |
| 299.540 | 25.30 | 3.13 | 0.00 | 38.10 | 66.53 | 74.64 | 8.11 |
| Spurious Frequency | | | | | | | |
| 599.080 | 20.54 | 4.79 | 0.00 | 23.32 | 48.65 | 54.64 | 5.99 |
| 898.620 | 24.99 | 6.23 | 0.00 | 13.93 | 45.15 | 54.64 | 9.49 |
| 1198.147 | 25.17 | 4.42 | 32.41 | 47.36 | 44.54 | 54.64 | 10.10 |
| 1497.688 | 25.88 | 4.80 | 32.26 | 41.44 | 39.86 | 54.64 | 14.78 |
| 1797.228 | 26.46 | 5.58 | 32.13 | 40.26 | 40.17 | 54.64 | 14.47 |
| 2096.768 | 26.97 | 6.20 | 32.08 | 38.77 | 39.86 | 54.64 | 14.78 |
| 2396.308 | 27.47 | 6.68 | 32.17 | 38.36 | 40.34 | 54.64 | 14.30 |
| 2695.847 | 27.90 | 7.10 | 32.25 | 36.26 | 39.01 | 54.64 | 15.63 |
| 2995.387 | 28.30 | 7.48 | 32.33 | 36.66 | 40.11 | 54.64 | 14.53 |

Remark：
1. For Fundamental Frequency, the readings are Quasi-Peak values below 1000MHz; For Spurious Frequency, the readings are Quasi-Peak values below 1000MHz; the readings are peak values above 1GHz.
2. Emission Level = Antenna Factor + Cable Loss + Meter Reading – Pre-Amp Factor.
3. Measurement was up to 10th harmonic (~3GHz), but the emissions level were too low against the official limit and not report.

Date of Test： Aug. 10, 2001 Temperature： 26℃

EUT： Fan/Light Remote Control (Transmitter), M/N: BCF-00I9X2 Humidity： 64%

Test Mode： EUT on Lie, Fan Mode/Hi Speed

| Emission Frequency MHz | Antenna Factor dB/m | Cable Loss dB | (Pre-Amp) Factor dB | Meter Reading Horizontal dBμV | Emission Level Horizontal dBμV/m | Limits dBμV/m | Margin dB |
|---|---|---|---|---|---|---|---|
| Fundamental Frequency (Quasi-Peak Values) | | | | | | | |
| 299.559 | 26.09 | 3.13 | 0.00 | 34.33 | 63.55 | 74.64 | 11.09 |
| Spurious Frequency | | | | | | | |
| 599.118 | 20.48 | 4.79 | 0.00 | 19.18 | 44.45 | 54.64 | 10.19 |
| 898.620 | 23.62 | 6.23 | 0.00 | 10.30 | 40.15 | 54.64 | 14.49 |
| 1198.236 | 25.17 | 4.42 | 32.41 | 48.41 | 45.59 | 54.64 | 9.05 |
| 1497.795 | 25.88 | 4.80 | 32.26 | 41.51 | 39.93 | 54.64 | 14.71 |
| 1797.353 | 26.46 | 5.58 | 32.13 | 43.19 | 43.10 | 54.64 | 11.54 |
| 2096.912 | 26.98 | 6.21 | 32.09 | 41.98 | 43.08 | 54.64 | 11.56 |
| 2396.471 | 27.47 | 6.68 | 32.17 | 40.21 | 42.19 | 54.64 | 12.45 |
| 2696.030 | 27.90 | 7.10 | 32.25 | 39.24 | 41.99 | 54.64 | 12.65 |
| 2995.589 | 28.30 | 7.48 | 32.33 | 39.92 | 43.37 | 54.64 | 11.27 |

| Emission Frequency MHz | Antenna Factor dB/m | Cable Loss dB | (Pre-Amp) Factor dB | Meter Reading Vertical dBμV | Emission Level Vertical dBμV/m | Limits dBμV/m | Margin dB |
|---|---|---|---|---|---|---|---|
| Fundamental Frequency (Quasi-Peak Values) | | | | | | | |
| 299.559 | 25.30 | 3.13 | 0.00 | 33.69 | 62.12 | 74.64 | 12.52 |
| Spurious Frequency | | | | | | | |
| 599.118 | 20.54 | 4.79 | 0.00 | 20.82 | 46.15 | 54.64 | 8.49 |
| 898.620 | 24.99 | 6.23 | 0.00 | 9.40 | 40.62 | 54.64 | 14.02 |
| 1198.236 | 25.17 | 4.42 | 32.41 | 50.36 | 47.54 | 54.64 | 7.10 |
| 1497.795 | 25.88 | 4.80 | 32.26 | 43.47 | 41.89 | 54.64 | 12.75 |
| 1797.353 | 26.46 | 5.58 | 32.13 | 44.28 | 44.19 | 54.64 | 10.45 |
| 2096.912 | 26.98 | 6.21 | 32.09 | 40.12 | 41.22 | 54.64 | 13.42 |
| 2396.471 | 27.47 | 6.68 | 32.17 | 39.99 | 41.97 | 54.64 | 12.67 |
| 2696.030 | 27.90 | 7.10 | 32.25 | 41.26 | 44.01 | 54.64 | 10.63 |
| 2995.589 | 28.30 | 7.48 | 32.33 | 40.40 | 43.85 | 54.64 | 10.79 |

Remark：
1. For Fundamental Frequency, the readings are Quasi-Peak values below 1000MHz; For Spurious Frequency, the readings are Quasi-Peak values below 1000MHz; the readings are peak values above 1GHz.
2. Emission Level = Antenna Factor + Cable Loss + Meter Reading – Pre-Amp Factor.
3. Measurement was up to 10th harmonic (~3GHz), but the emissions level were too low against the official limit and not report.

Date of Test： Aug. 10, 2001 Temperature： 26℃

EUT： Fan/Light Remote Control (Transmitter), M/N: BCF-00I9X2 Humidity： 64%

Test Mode： EUT on Lie, Fan Mode/Medium Speed

| Emission Frequency MHz | Antenna Factor dB/m | Cable Loss dB | (Pre-Amp) Factor dB | Meter Reading Horizontal dBμV | Emission Level Horizontal dBμV/m | Limits dBμV/m | Margin dB |
|---|---|---|---|---|---|---|---|
| Fundamental Frequency (Quasi-Peak Values) | | | | | | | |
| 299.605 | 26.09 | 3.13 | 0.00 | 37.35 | 66.57 | 74.64 | 8.07 |
| Spurious Frequency | | | | | | | |
| 599.211 | 20.48 | 4.79 | 0.00 | 21.88 | 47.15 | 54.64 | 7.49 |
| 898.816 | 23.62 | 6.23 | 0.00 | 13.77 | 43.62 | 54.64 | 11.02 |
| 1198.422 | 25.17 | 4.42 | 32.41 | 48.29 | 45.47 | 54.64 | 9.17 |
| 1498.027 | 25.88 | 4.80 | 32.26 | 45.61 | 44.03 | 54.64 | 10.61 |
| 1797.632 | 26.46 | 5.58 | 32.13 | 44.15 | 44.06 | 54.64 | 10.58 |
| 2097.238 | 26.98 | 6.21 | 32.09 | 41.90 | 43.00 | 54.64 | 11.64 |
| 2396.843 | 27.47 | 6.68 | 32.17 | 42.25 | 44.23 | 54.64 | 10.41 |
| 2696.448 | 27.90 | 7.10 | 32.25 | 40.21 | 42.96 | 54.64 | 11.68 |
| 2996.054 | 28.30 | 7.48 | 32.33 | 38.64 | 42.09 | 54.64 | 12.55 |

| Emission Frequency MHz | Antenna Factor dB/m | Cable Loss dB | (Pre-Amp) Factor dB | Meter Reading Vertical dBμV | Emission Level Vertical dBμV/m | Limits dBμV/m | Margin dB |
|---|---|---|---|---|---|---|---|
| Fundamental Frequency (Quasi-Peak Values) | | | | | | | |
| 299.605 | 25.30 | 3.13 | 0.00 | 34.19 | 62.62 | 74.64 | 12.02 |
| Spurious Frequency | | | | | | | |
| 599.211 | 20.54 | 4.79 | 0.00 | 20.19 | 45.52 | 54.64 | 9.12 |
| 898.816 | 24.99 | 6.23 | 0.00 | 11.30 | 42.52 | 54.64 | 12.12 |
| 1198.422 | 25.17 | 4.42 | 32.41 | 50.13 | 47.31 | 54.64 | 7.33 |
| 1498.027 | 25.88 | 4.80 | 32.26 | 47.56 | 45.98 | 54.64 | 8.66 |
| 1797.632 | 26.46 | 5.58 | 32.13 | 44.38 | 44.29 | 54.64 | 10.35 |
| 2097.238 | 26.98 | 6.21 | 32.09 | 43.11 | 44.21 | 54.64 | 10.43 |
| 2396.843 | 27.47 | 6.68 | 32.17 | 40.10 | 42.08 | 54.64 | 12.56 |
| 2696.448 | 27.90 | 7.10 | 32.25 | 39.40 | 42.15 | 54.64 | 12.49 |
| 2296.054 | 28.30 | 7.48 | 32.33 | 37.64 | 41.09 | 54.64 | 13.55 |

Remark：
1. For Fundamental Frequency, the readings are Quasi-Peak values below 1000MHz; For Spurious Frequency, the readings are Quasi-Peak values below 1000MHz; the readings are peak values above 1GHz.
2. Emission Level = Antenna Factor + Cable Loss + Meter Reading – Pre-Amp Factor.
3. Measurement was up to 10th harmonic (~3GHz), but the emissions level were too low against the official limit and not report.

Date of Test： Aug. 10, 2001 Temperature： 26℃

EUT： Fan/Light Remote Control (Transmitter), M/N: BCF-00I9X2 Humidity： 64%

Test Mode： EUT on Lie, Fan Mode/Low Speed

| Emission Frequency MHz | Antenna Factor dB/m | Cable Loss dB | (Pre-Amp) Factor dB | Meter Reading Horizontal dBμV | Emission Level Horizontal dBμV/m | Limits dBμV/m | Margin dB |
|---|---|---|---|---|---|---|---|
| Fundamental Frequency (Quasi-Peak Values) | | | | | | | |
| 299.633 | 26.09 | 3.13 | 0.00 | 36.93 | 66.15 | 74.64 | 8.49 |
| Spurious Frequency | | | | | | | |
| 599.265 | 20.48 | 4.79 | 0.00 | 20.97 | 46.24 | 54.64 | 8.40 |
| 898.898 | 23.62 | 6.23 | 0.00 | 15.27 | 45.12 | 54.64 | 9.52 |
| 1198.530 | 25.17 | 4.42 | 32.41 | 48.52 | 45.70 | 54.64 | 8.94 |
| 1498.163 | 25.88 | 4.80 | 32.26 | 43.68 | 42.10 | 54.64 | 12.54 |
| 1797.796 | 26.46 | 5.58 | 32.13 | 45.17 | 45.08 | 54.64 | 9.56 |
| 2097.428 | 26.98 | 6.21 | 32.09 | 40.08 | 41.18 | 54.64 | 13.46 |
| 2397.061 | 27.47 | 6.68 | 32.17 | 43.08 | 45.06 | 54.64 | 9.58 |
| 2696.693 | 27.90 | 7.10 | 32.25 | 44.00 | 46.75 | 54.64 | 7.89 |
| 2996.326 | 28.30 | 7.48 | 32.33 | 39.07 | 42.52 | 54.64 | 12.12 |

| Emission Frequency MHz | Antenna Factor dB/m | Cable Loss dB | (Pre-Amp) Factor dB | Meter Reading Vertical dBμV | Emission Level Vertical dBμV/m | Limits dBμV/m | Margin dB |
|---|---|---|---|---|---|---|---|
| Fundamental Frequency (Quasi-Peak Values) | | | | | | | |
| 299.633 | 25.30 | 3.13 | 0.00 | 38.78 | 67.21 | 74.64 | 7.43 |
| Spurious Frequency | | | | | | | |
| 599.265 | 20.54 | 4.79 | 0.00 | 23.32 | 48.65 | 54.64 | 5.99 |
| 898.898 | 24.99 | 6.23 | 0.00 | 14.23 | 45.45 | 54.64 | 9.19 |
| 1198.530 | 25.17 | 4.42 | 32.41 | 50.13 | 47.31 | 54.64 | 7.33 |
| 1498.163 | 25.88 | 4.80 | 32.26 | 47.15 | 45.57 | 54.64 | 9.07 |
| 1797.797 | 26.46 | 5.58 | 32.13 | 46.95 | 46.86 | 54.64 | 7.78 |
| 2097.428 | 26.98 | 6.21 | 32.09 | 41.57 | 42.67 | 54.64 | 11.97 |
| 2397.061 | 27.47 | 6.68 | 32.17 | 42.89 | 44.87 | 54.64 | 9.77 |
| 2696.693 | 27.90 | 7.10 | 32.25 | 43.70 | 46.45 | 54.64 | 8.19 |
| 2996.326 | 28.30 | 7.48 | 32.33 | 40.66 | 44.11 | 54.64 | 10.53 |

Remark：
1. For Fundamental Frequency, the readings are Quasi-Peak values below 1000MHz; For Spurious Frequency, the readings are Quasi-Peak values below 1000MHz; the readings are peak values above 1GHz.
2. Emission Level = Antenna Factor + Cable Loss + Meter Reading – Pre-Amp Factor.
3. Measurement was up to 10th harmonic (~3GHz), but the emissions level were too low against the official limit and not report.

Date of Test： Aug. 10, 2001 Temperature： 26℃

EUT： Fan/Light Remote Control (Transmitter), M/N: BCF-00I9X2 Humidity： 64%

Test Mode： EUT on Lie, Light Mode

| Emission Frequency MHz | Antenna Factor dB/m | Cable Loss dB | (Pre-Amp) Factor dB | Meter Reading Horizontal dBμV | Emission Level Horizontal dBμV/m | Limits dBμV/m | Margin dB |
|---|---|---|---|---|---|---|---|
| Fundamental Frequency (Quasi-Peak Values) | | | | | | | |
| 299.540 | 26.09 | 3.13 | 0.00 | 33.94 | 63.16 | 74.64 | 11.48 |
| Spurious Frequency | | | | | | | |
| 599.080 | 20.48 | 4.79 | 0.00 | 23.48 | 48.75 | 54.64 | 5.89 |
| 898.620 | 23.62 | 6.23 | 0.00 | 15.50 | 45.35 | 54.64 | 9.29 |
| 1198.147 | 25.17 | 4.42 | 32.41 | 45.26 | 42.44 | 54.64 | 12.20 |
| 1497.688 | 25.88 | 4.80 | 32.26 | 40.85 | 39.27 | 54.64 | 15.37 |
| 1797.228 | 26.46 | 5.58 | 32.13 | 40.17 | 40.08 | 54.64 | 14.56 |
| 2096.768 | 26.97 | 6.20 | 32.08 | 39.87 | 40.96 | 54.64 | 13.68 |
| 2396.308 | 27.47 | 6.68 | 32.17 | 37.07 | 39.05 | 54.64 | 15.59 |
| 2696.847 | 27.90 | 7.10 | 32.25 | 35.89 | 38.64 | 54.64 | 16.00 |
| 2995.387 | 28.30 | 7.48 | 32.33 | 36.60 | 40.05 | 54.64 | 14.59 |

| Emission Frequency MHz | Antenna Factor dB/m | Cable Loss dB | (Pre-Amp) Factor dB | Meter Reading Vertical dBμV | Emission Level Vertical dBμV/m | Limits dBμV/m | Margin dB |
|---|---|---|---|---|---|---|---|
| Fundamental Frequency (Quasi-Peak Values) | | | | | | | |
| 299.540 | 25.30 | 3.13 | 0.00 | 36.80 | 65.23 | 74.64 | 9.41 |
| Spurious Frequency | | | | | | | |
| 599.080 | 20.54 | 4.79 | 0.00 | 22.19 | 47.52 | 54.64 | 7.12 |
| 898.620 | 24.99 | 6.23 | 0.00 | 14.93 | 46.15 | 54.64 | 8.49 |
| 1198.147 | 25.17 | 4.42 | 32.41 | 44.37 | 41.55 | 54.64 | 13.09 |
| 1497.688 | 25.88 | 4.80 | 32.26 | 42.43 | 40.85 | 54.64 | 13.79 |
| 1797.228 | 26.46 | 5.58 | 32.13 | 38.24 | 38.15 | 54.64 | 16.49 |
| 2096.768 | 26.97 | 6.20 | 32.08 | 39.77 | 40.86 | 54.64 | 13.78 |
| 2396.308 | 27.47 | 6.68 | 32.17 | 39.37 | 41.35 | 54.64 | 13.29 |
| 2695.847 | 27.90 | 7.10 | 32.25 | 38.81 | 41.56 | 54.64 | 13.08 |
| 2995.387 | 28.30 | 7.48 | 32.33 | 36.11 | 39.56 | 54.64 | 15.08 |

Remark：
1. For Fundamental Frequency, the readings are Quasi-Peak values below 1000MHz; For Spurious Frequency, the readings are Quasi-Peak values below 1000MHz; the readings are peak values above 1GHz.
2. Emission Level = Antenna Factor + Cable Loss + Meter Reading – Pre-Amp Factor.
3. Measurement was up to 10th harmonic (~3GHz), but the emissions level were too low against the official limit and not report.

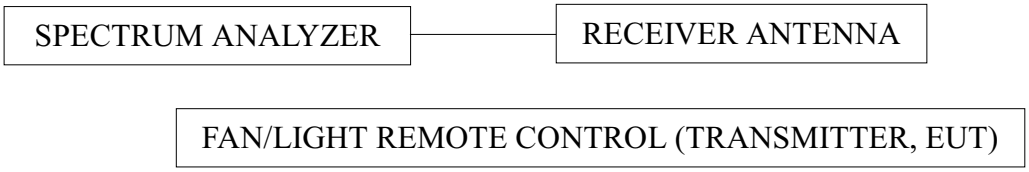
# 4. EMISSION BANDWIDTH TEST

## 4.1. Test Equipment

The following test equipment were used during the Emission Bandwidth Test：

| Item | Type | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|---|---|---|---|---|---|---|
| 1. | Spectrum Analyzer | HP | 8590L | 3710A01838 | Aug.06, 01’ | 1 Year |

## 4.2. Block Diagram of Test Setup




## 4.3. Specification Limits (§15.231-(c))

The bandwidth of emission shall be no wider than 0.25% of the center frequency for device operating above 70MHz and below 900MHz. Bandwidth is determined at the points 20dB down from the modulated carrier.

## 4.4. EUT’s Configuration during Compliance Measurement

The configuration of EUT were same as section 3.4.

## 4.5. Emission Bandwidth Measurement Results

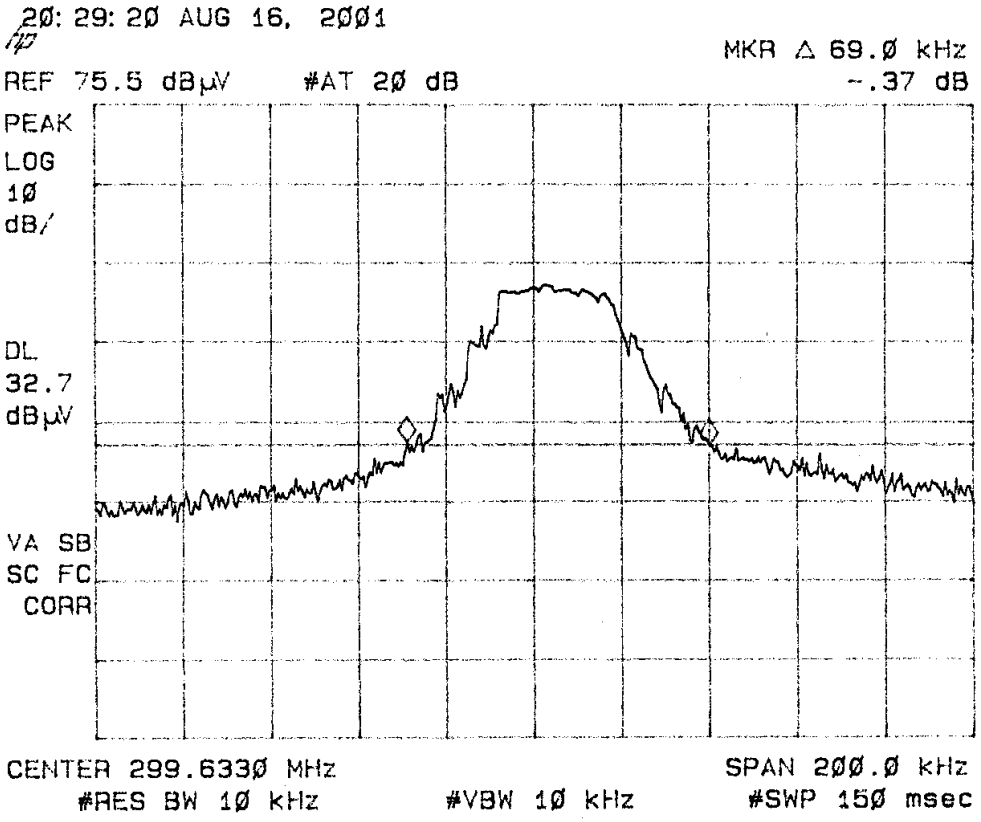
Fundamental Frequency: 299.6MHz

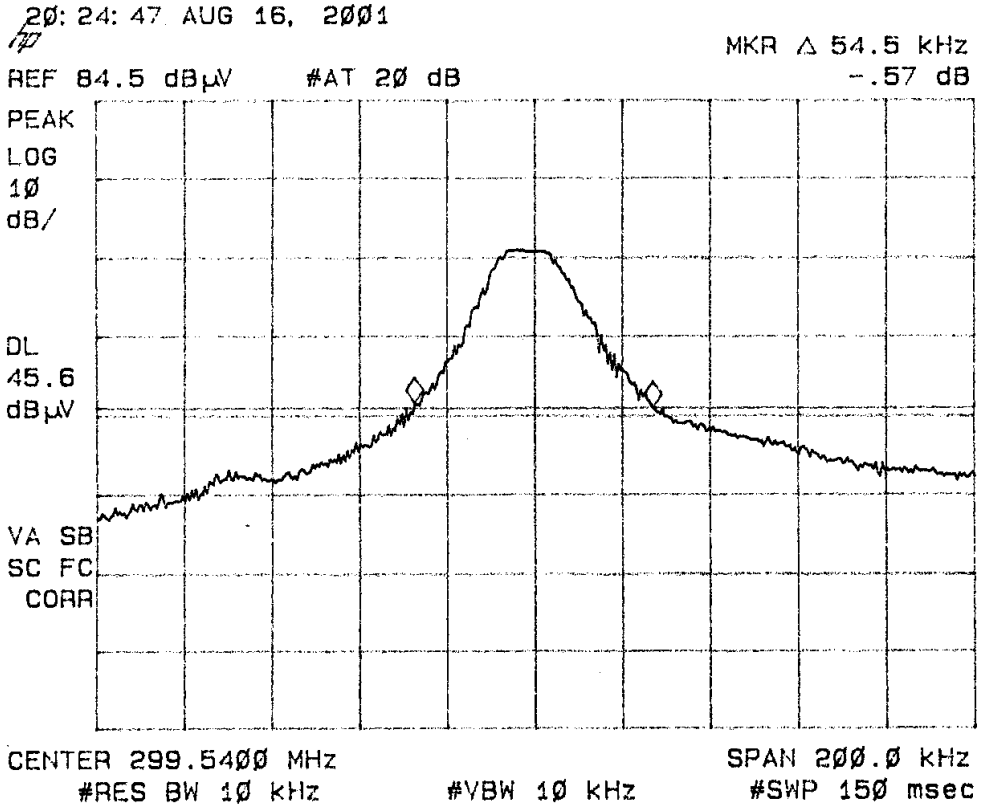
Date of Test: Aug. 16, 2001

| No. | Test Model | Mode | Center Frequency | **Bandwidth** | **Tolerance (%)** |
|---|---|---|---|---|---|
| 1. | BCF-00I9X2 | Fan | 299.6330MHz | **69.0kHz** | **0.023%** |
| 2. | | Light | 299.5400MHz | **54.5kHz** | **0.018%** |

The bandwidth test graphs are attached in next page.

**(1) BCF-00I9X2/Fan Mode (2) BCF-00I9X2/Light Mode**



# 5. DEVIATION TO TEST SPECIFICATIONS

【NONE】