

Report No.: ATE20171327

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APPLICATION CERTIFICATION FCC Part 15C On Behalf of

SHENZHEN QI SHENGLONG INDUSTRIALIST CO., LTD.

VIDEO GAME Model No.: C-12, C-37

FCC ID: Y56QSLC12C37

Prepared for : SHENZHEN QI SHENGLONG INDUSTRIALIST CO.,

LTD.

Address : 5F., Blk 6A, Jing Nan Industry, Bai Ge long, Buji,

Shenzhen, China 518112

Prepared by : Accurate Technology Co., Ltd.

Address : F1, Bldg. A&D, Changyuan New Material Port, Keyuan

Rd., Science & Industry Park, Nanshan District, Shenzhen

518057, P.R. China

Tel: (0755) 26503290 Fax: (0755) 26503396

Report Number : ATE20171327

Date of Test : July 17-July 20, 2017

Date of Report : July 21, 2017

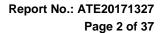




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8.1.

8.2.



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Test Report Certification

SHENZHEN QI SHENGLONG INDUSTRIALIST CO., LTD. **Applicant**

Address 5F., Blk 6A, Jing Nan Industry, Bai Ge long, Buji, Shenzhen, China

518112

DONGGUAN FEIHAO INDUSTRIALIST CO., LTD Manufacturer

Address No.8, Fengyi Road, Dakan Village, Huangjiang, DongGuan, China

Product VIDEO GAME

Model No. : C-12, C-37

> (Note: Above models are identical in schematic, structure and critical components, except for The configuration of accessories is different. So we prepare C-12 for test only)

Trade Mark N/A

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.249 ANSI C63.10: 2013

The EUT was tested according to FCC 47CFR 15.249 for compliance to FCC 47CFR 15.249 requirements

The device described above is tested by Accurate Technology Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.249 limits. The measurement results are contained in this test report and Accurate Technology Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Accurate Technology Co., Ltd.

| Date of Test : | July 17-July 20, 2017 |
|--------------------------------|-----------------------|
| Date of Report: | July 21, 2017 |
| Prepared by : | (SYATET TO IN er) |
| Approved & Authorized Signer : | (Sum) |
| | (Sean Liu, Manager) |



1. GENERAL INFORMATION

1.1. Description of Device (EUT)

The submitted sample is a VIDEO GAME.

The sample is powered by DC 3V (Powered by battery).

| | | Wireless Module(2.4G) |
|--------------------|---|---|
| Frequency Range | : | 2404MHz-2478MHz |
| Channel frequency | : | 2404MHz, 2405MHz, 2406MHz, 2408MHz, 2410MHz, 2414MHz, 2421MHz, 2425MHz, 2435MHz, 2441MHz, 2452MHz, 2456MHz, 2458MHz, 2460MHz, 2466MHz, 2470MHz, 2474MHz, 2477MHz, 2478MHz |
| Number of Channels | : | 20 |
| Modulation Type | : | GFSK |
| Type of Antenna | : | PCB Antenna |
| Max antenna gain | : | 0 dBi |
| Power Supply | : | DC 3V(Powered by battery) |

1.2. Special Accessory and Auxiliary Equipment

N/A



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1.3.Description of Test Facility

EMC Lab : Recognition of accreditation by Federal Communications

Commission (FCC)

The Designation Number is CN1189 The Registration Number is 708358

Listed by Innovation, Science and Economic Development

Canada (ISEDC)

The Registration Number is 5077A-2

Accredited by China National Accreditation Service for

Conformity Assessment (CNAS)

The Registration Number is CNAS L3193

Accredited by American Association for Laboratory

Accreditation (A2LA)

The Certificate Number is 4297.01

Name of Firm : Accurate Technology Co., Ltd.

Site Location : F1, Bldg. A&D, Changyuan New Material Port, Keyuan

Rd., Science & Industry Park, Nanshan District, Shenzhen

518057, P.R. China

1.4. Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty = 3.08dB, k=2

(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.42dB, k=2

(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.06dB, k=2

(Above 1GHz)



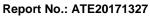
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2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

| Kind of equipment | Manufacturer | Туре | S/N | Calibrated dates | Calibrated until | |
|---------------------------------|---------------------------|---|------------|------------------|------------------|--|
| EMI Test Receiver Rohde&Schwarz | | ESCS30 | 100307 | Jan. 07, 2017 | Jan. 06, 2018 | |
| EMI Test Receiver | Rohde&Schwarz | ESPI3 | 101526/003 | Jan. 07, 2017 | Jan. 06, 2018 | |
| Spectrum Analyzer | Agilent | E7405A | MY45115511 | Jan. 07, 2017 | Jan. 06, 2018 | |
| Pre-Amplifier | Rohde&Schwarz | CBLU118354 0-01 | 3791 | Jan. 07, 2017 | Jan. 06, 2018 | |
| Loop Antenna | Schwarzbeck | FMZB1516 | 1516131 | Jan. 13, 2017 | Jan. 12, 2018 | |
| Bilog Antenna | Schwarzbeck | VULB9163 | 9163-323 | Jan. 13, 2017 | Jan. 12, 2018 | |
| Horn Antenna | Schwarzbeck | BBHA9120D | 9120D-655 | Jan. 13, 2017 | Jan. 12, 2018 | |
| Horn Antenna | Schwarzbeck | BBHA9170 | 9170-359 | Jan. 13, 2017 | Jan. 12, 2018 | |
| LISN | Rohde&Schwarz | ESH3-Z5 | 100305 | Jan. 07, 2017 | Jan. 06, 2018 | |
| LISN | Schwarzbeck | NSLK8126 | 8126431 | Jan. 07, 2017 | Jan. 06, 2018 | |
| Highpass Filter | Wainwright Instruments | WHKX3.6/18 G-10SS | N/A | Jan. 07, 2017 | Jan. 06, 2018 | |
| Band Reject Filter | Wainwright Instruments | WRCG2400/2 485-2375/2510 -60/11SS | N/A | Jan. 07, 2017 | Jan. 06, 2018 | |





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3. OPERATION OF EUT DURING TESTING

3.1. Operating Mode

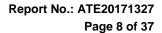
The mode is used: **Transmitting mode**

Low Channel: 2404MHz Middle Channel: 2441MHz High Channel: 2478MHz

3.2. Configuration and peripherals

EUT

Figure 1 Setup: Transmitting mode





4. TEST PROCEDURES AND RESULTS

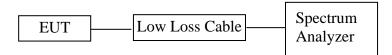
| FCC Rules | Description of Test | Result |
|--|---------------------------------------|-----------|
| Section 15.215(c) | 20dB Bandwidth | Compliant |
| Section 15.249(d) | Band Edge Compliance Test | Compliant |
| Section 15.205(a), Section 15.209(a), Section 15.249, Section 15.35 | Radiated Spurious Emission Test | Compliant |
| Section 15.207 | AC Power Line Conducted Emission Test | N/A |
| Section 15.203 | Antenna Requirement | Compliant |

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5. 20DB BANDWIDTH MEASUREMENT

5.1.Block Diagram of Test Setup



5.2. The Requirement For Section 15.215(c)

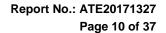
The bandwidth of a frequency hopping channel is the 20 dB emission bandwidth, measured with the hopping stopped. The system RF bandwidth is equal to the channel bandwidth multiplied by the number of channels in the hopset. The hopset shall be such that the near-term distribution of frequencies appears random, with sequential hops randomly distributed in both direction and magnitude of change in the hopset while the long-term distribution appears evenly distributed.

5.3. Operating Condition of EUT

- 5.3.1. Setup the EUT and simulator as shown as Section 5.1.
- 5.3.2. Turn on the power of all equipment.
- 5.3.3.Let the EUT work in TX modes measure it. The transmit frequency are 2404-2478 MHz. We select 2404MHz, 2441MHz, and 2478MHz TX frequency to transmit

5.4.Test Procedure

- 5.4.1. Place the EUT on the table and set it in transmitting mode.
- 5.4.2.Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 5.4.3.Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz, Detector function=peak, Trace=max hold, Sweep=auto.
- 5.4.4.Set the measured low, middle and high frequency and test 20dB bandwidth with spectrum analyzer.



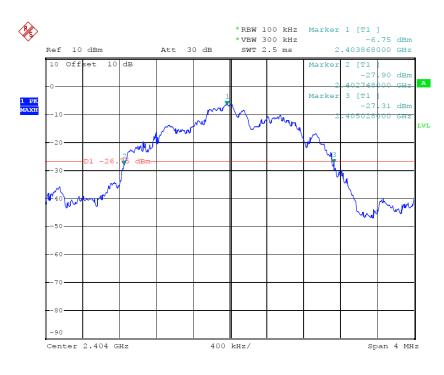


5.5.Test Result

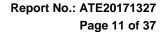
| Channel | Frequency (MHz) | 20 dB Bandwidth (MHz) | | | |
|---------|-----------------|--------------------------|--|--|--|
| 1 | 2404 | 2.28 | | | |
| 10 | 2441 | 2.25 | | | |
| 20 | 2478 | 2.22 | | | |

The spectrum analyzer plots are attached as below.

Low channel

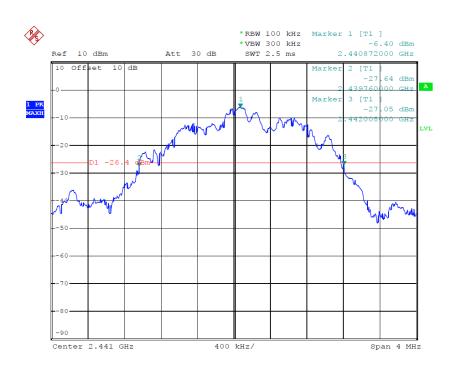


Comment A: Date: 20.JUL.2017 12:03:41



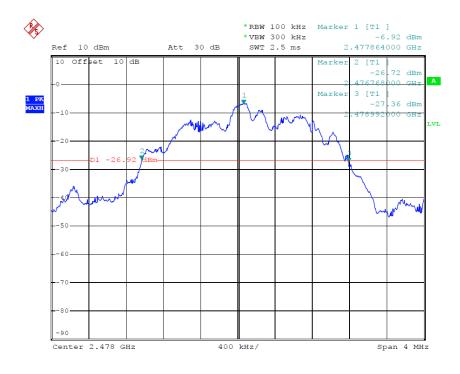


Middle channel

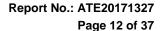


Comment A:
Date: 20.JUL.2017 12:05:22

High channel



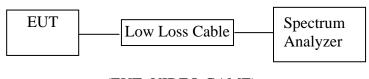
Comment A: Date: 20.JUL.2017 12:07:20





6. BAND EDGE COMPLIANCE TEST

6.1.Block Diagram of Test Setup



(EUT: VIDEO GAME)

6.2. The Requirement For Section 15.249

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is 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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph A8.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

6.3.EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.



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6.4. Operating Condition of EUT

- 6.4.1. Setup the EUT and simulator as shown as Section 6.1.
- 6.4.2. Turn on the power of all equipment.
- 6.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2404-2478 MHz. We select 2404MHz, 2478MHz TX frequency to transmit.

6.5.Test Procedure

Conducted Band Edge:

- 6.5.1. The transmitter output was connected to the spectrum analyzer via a low loss cable.
- 6.5.2.Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz.

Radiate Band Edge:

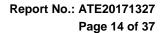
- 6.5.3. The EUT is placed on a turntable, which is 1.5m above the ground plane and worked at highest radiated power.
- 6.5.4. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
- 6.5.5. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 6.5.6. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

6.5.7. The band edges was measured and recorded.

6.6.Test Result

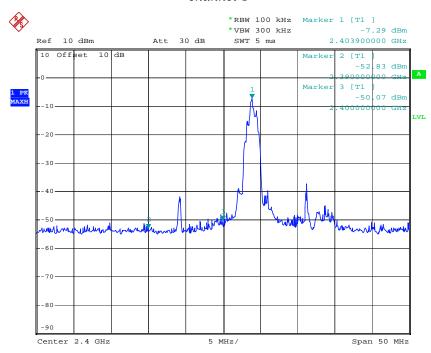
Pass

| Channel | Frequency | Delta peak to band emission | Limit(dBc) |
|---------|-----------|-----------------------------|------------|
| 1 | 2404 MHz | 42.78 | 20 |
| 20 | 2478 MHz | 45.58 | 20 |



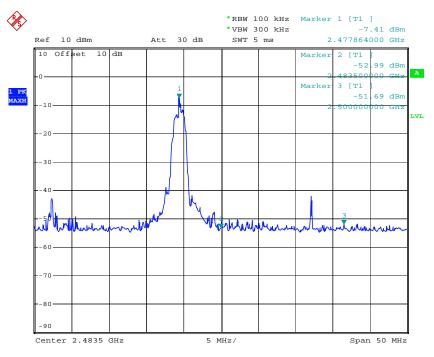


channel 1



Comment A: Date: 20.JUL.2017 11:32:37

channel 8



Comment A: Date: 20.JUL.2017 11:30:13



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Radiated Band Edge Result

Date of Test:July 17.2017Temperature:25°CEUT:VIDEO GAMEHumidity:50%Model No.:C-12Power Supply:DC 3VTest Mode:TX (2404MHz) GFSKTest Engineer:Frank

| Frequency | Reading(dBµV/m) | | Factor(dB) | Result(dBµV/m) | | Limit(dBµV/m) | | Margi | Polarization | |
|-----------|-----------------|-------|------------|----------------|-------|---------------|-------|-------|--------------|------------|
| (MHz) | AV | PEAK | Corr. | AV | PEAK | AV | PEAK | AV | PEAK | |
| 2390.000 | 33.79 | 42.75 | -1.71 | 32.08 | 41.04 | 54.00 | 74.00 | 21.92 | 32.96 | Vertical |
| 2400.000 | 34.25 | 43.06 | -1.71 | 32.63 | 41.44 | 54.00 | 74.00 | 21.37 | 32.56 | Vertical |
| 2390.000 | 34.80 | 44.14 | -1.62 | 33.09 | 42.43 | 54.00 | 74.00 | 20.91 | 31.57 | Horizontal |
| 2400.000 | 35.64 | 44.28 | -1.62 | 34.02 | 42.66 | 54.00 | 74.00 | 19.98 | 31.34 | Horizontal |

Date of Test:July 17.2017Temperature:25°CEUT:VIDEO GAMEHumidity:50%Model No.:C-12Power Supply:DC 3VTest Mode:TX (2477MHz) GFSKTest Engineer:Frank

| Frequency | Reading(dBµV/m) | | Factor(dB) | Result(dBµV/m) | | Limit(dBµV/m) | | Margin(dB) | | Polarization |
|-----------|-----------------|-------|------------|----------------|-------|---------------|-------|------------|-------|--------------|
| (MHz) | AV | PEAK | Corr. | AV | PEAK | AV | PEAK | AV | PEAK | |
| 2483.500 | 34.13 | 43.49 | -1.40 | 32.73 | 42.09 | 54.00 | 74.00 | 21.27 | 31.91 | Vertical |
| 2500.000 | 34.56 | 43.44 | -1.40 | 33.16 | 42.04 | 54.00 | 74.00 | 20.84 | 31.96 | Vertical |
| 2483.500 | 34.26 | 43.26 | -1.40 | 32.86 | 41.86 | 54.00 | 74.00 | 19.05 | 35.75 | Horizontal |
| 2500.000 | 34.57 | 43.77 | -1.40 | 33.17 | 42.37 | 54.00 | 74.00 | 17.10 | 33.80 | Horizontal |

Note:

- 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
- 2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

 Result = Reading + Corrected Factor
- 3. Display the measurement of peak values.



ATC[®]

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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: Frank2017 #197 Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: VIDEO GAME Mode: TX2404MHz

Model: C-12

Manufacturer: DONGGUAN FEIHAO INDUSTRIALIST CO.,LTD

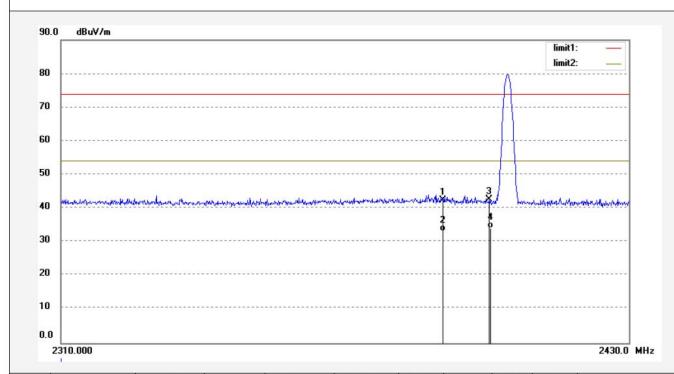
Note: Report NO.:ATE20171327

Power Source: DC 3V Date: 17/07/17/ Time: 11/32/13

Horizontal

Polarization:

Engineer Signature: Distance: 3m



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|----------------|--------------------|-------------------|----------------|----------|-------------|------------------|--------|
| 1 | 2390.000 | 44.14 | -1.71 | 42.43 | 74.00 | -31.57 | peak | | | |
| 2 | 2390.000 | 34.80 | -1.71 | 33.09 | 54.00 | -20.91 | AVG | | | |
| 3 | 2400.000 | 44.28 | -1.62 | 42.66 | 74.00 | -31.34 | peak | | | |
| 4 | 2400.000 | 35.64 | -1.62 | 34.02 | 54.00 | -19.98 | AVG | | | |





F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

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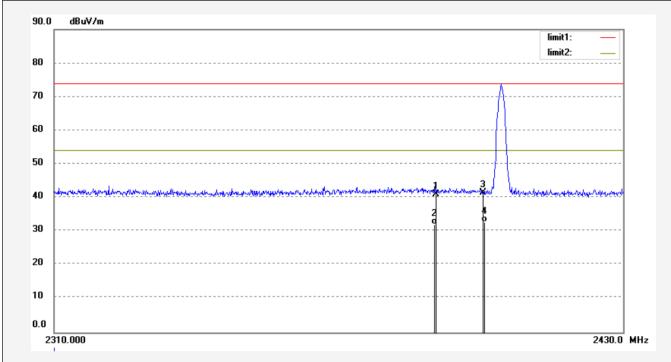
Job No.: Frank2017 #198 Polarization: Vertical Standard: FCC PK Power Source: DC 3V

Test item: Radiation Test Date: 17/07/17/
Temp.(C)/Hum.(%) 23 C / 48 % Time: 11/34/10
EUT: VIDEO GAME Engineer Signature:
Mode: TX2404MHz Distance: 3m

Model: C-12

Manufacturer: DONGGUAN FEIHAO INDUSTRIALIST CO.,LTD

Note: Report NO.:ATE20171327



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
| 1 | 2390.000 | 42.75 | -1.71 | 41.04 | 74.00 | -32.96 | peak | | | |
| 2 | 2390.000 | 33.79 | -1.71 | 32.08 | 54.00 | -21.92 | AVG | | | |
| 3 | 2400.000 | 43.06 | -1.62 | 41.44 | 74.00 | -32.56 | peak | | | |
| 4 | 2400.000 | 34.25 | -1.62 | 32.63 | 54.00 | -21.37 | AVG | | | |





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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: Frank2017 #200 Standard: FCC PK Test item: Radiation Test

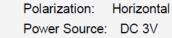
Temp.(C)/Hum.(%) 23 C / 48 %

EUT: VIDEO GAME Mode: TX2478MHz

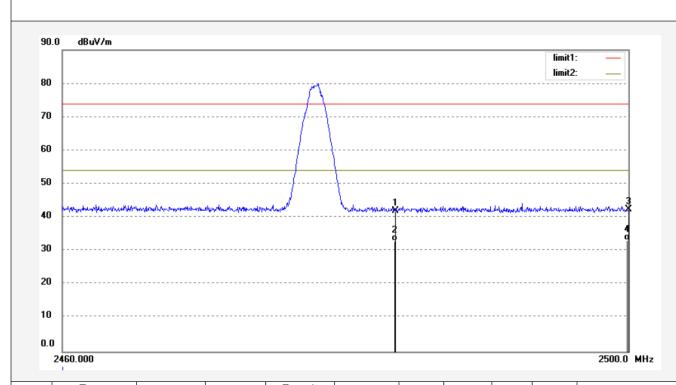
Model: C-12

Manufacturer: DONGGUAN FEIHAO INDUSTRIALIST CO.,LTD

Note: Report NO.:ATE20171327



Date: 17/07/17/
Time: 11/39/56
Engineer Signature:
Distance: 3m



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|----------------|-----------------|-------------------|----------------|----------|-------------|------------------|--------|
| 1 | 2483.500 | 43.26 | -1.40 | 41.86 | 74.00 | -32.14 | peak | | | |
| 2 | 2483.500 | 34.26 | -1.40 | 32.86 | 54.00 | -21.14 | AVG | | | |
| 3 | 2500.000 | 43.77 | -1.40 | 42.37 | 74.00 | -31.63 | peak | | | |
| 4 | 2500.000 | 34.57 | -1.40 | 33.17 | 54.00 | -20.83 | AVG | | | |





F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

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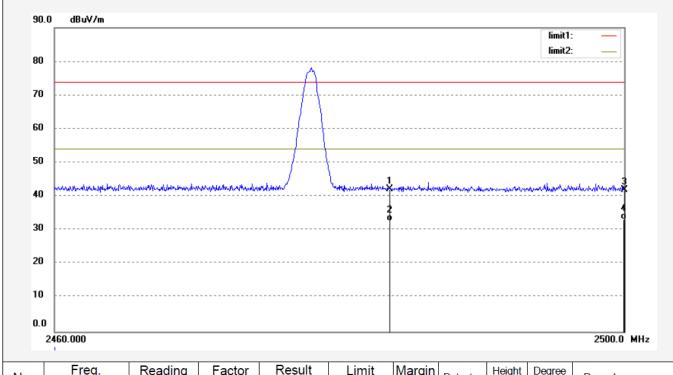
Job No.: Frank2017 #199 Polarization: Vertical Standard: FCC PK Power Source: DC 3V

Test item: Radiation Test Date: 17/07/17/
Temp.(C)/Hum.(%) 23 C / 48 % Time: 11/36/37
EUT: VIDEO GAME Engineer Signature:
Mode: TX2478MHz Distance: 3m

Model: C-12

Manufacturer: DONGGUAN FEIHAO INDUSTRIALIST CO.,LTD

Note: Report NO.:ATE20171327



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
| 1 | 2483.500 | 43.49 | -1.40 | 42.09 | 74.00 | -31.91 | peak | | | |
| 2 | 2483.500 | 34.13 | -1.40 | 32.73 | 54.00 | -21.27 | AVG | | | |
| 3 | 2500.000 | 43.44 | -1.40 | 42.04 | 74.00 | -31.96 | peak | | | |
| 4 | 2500.000 | 34.56 | -1.40 | 33.16 | 54.00 | -20.84 | AVG | | | |

Note:

- 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
- 2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

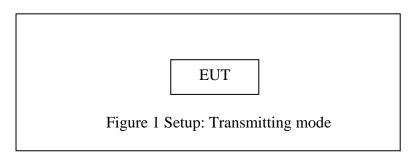
3. Display the measurement of peak values.



7. RADIATED SPURIOUS EMISSION TEST

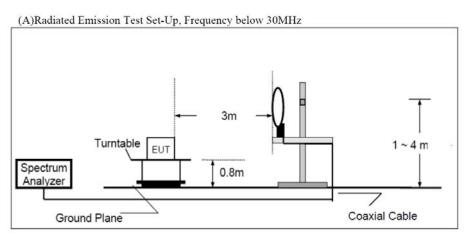
7.1.Block Diagram of Test Setup

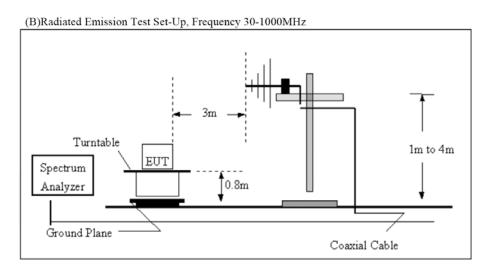
7.1.1.Block diagram of connection between the EUT and peripherals



(EUT: VIDEO GAME)

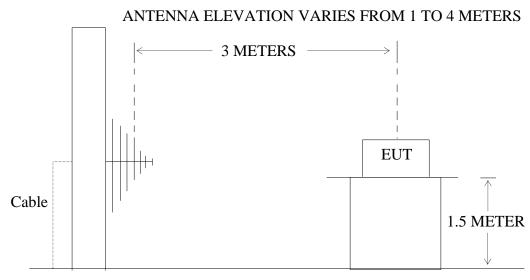
7.1.2.Semi-Anechoic Chamber Test Setup Diagram







7.1.3. Radiated Emission Test Set-Up, Frequency above 1GHz



GROUND PLANE

7.2. The Limit For Section 15.249

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is 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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph A8.4(4), the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).



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7.3.Restricted bands of operation

7.3.1.FCC Part 15.205 Restricted bands of operation

(a) Except as shown in paragraph (d) of this section, Only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|--------------------------|---------------------|---------------|---------------|
| 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 |
| ¹ 0.495-0.505 | 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 | 2690-2900 | 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 | $\binom{2}{}$ |
| 13.36-13.41 | | | |

¹Until February 1, 1999, this restricted band shall be 0.490-0.510

(b) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

7.4. Configuration of EUT on Measurement

The equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

²Above 38.6



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7.5. Operating Condition of EUT

- 7.5.1. Setup the EUT and simulator as shown as Section 7.1.
- 7.5.2. Turn on the power of all equipment.
- 7.5.3.Let the EUT work in TX modes measure it. The transmit frequency are 2404-2478 MHz. We select 2404MHz, 2441MHz, and 2478MHz TX frequency to transmit.

7.6.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground(Below 1GHz). The EUT and its simulators are placed on a turntable, which is 1.5 meter high above ground(Above 1GHz). The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bi-log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the EUT location must be manipulated according to ANSI C63.10:2013 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The bandwidth of test receiver is set at 9 kHz in below 30MHz, and set at 120 kHz in 30-1000MHz, and 1MHz in above 1000MHz.

The frequency range from 9 kHz to 25GHz is checked.

The final measurement in band 9-90 kHz, 110-490 kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

The field strength is calculated by adding the antenna factor, and cable loss, and subtracting the amplifier gain from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain



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7.7. The Field Strength of Radiation Emission Measurement Results **PASS.**

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

- 2. *: Denotes restricted band of operation.
- 3. The EUT is tested radiation emission at Low, Middle, High channel in three axes. The worst emissions are reported in all channels.
- 4. The test frequency is from 30MHz to 25GHz, The 18-25GHz emissions are not reported, because the levels are too low against the limit.



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Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: Frank2017 #201

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

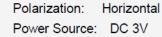
Temp.(C)/Hum.(%) 23 C / 48 %

EUT: VIDEO GAME Mode: TX2404MHz

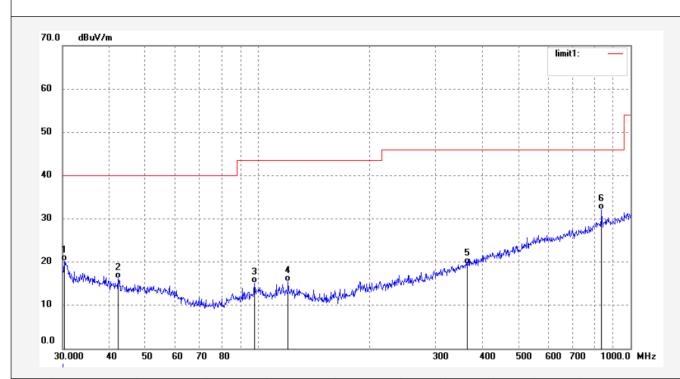
Model: C-12

Manufacturer: DONGGUAN FEIHAO INDUSTRIALIST CO.,LTD

Note: Report NO.:ATE20171327



Date: 17/07/17/
Time: 11/43/19
Engineer Signature:
Distance: 3m



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|----------------|--------------------|-------------------|----------------|----------|-------------|------------------|--------|
| 1 | 30.3172 | 30.22 | -9.96 | 20.26 | 40.00 | -19.74 | QP | | | |
| 2 | 42.3021 | 28.19 | -12.04 | 16.15 | 40.00 | -23.85 | QP | | | |
| 3 | 98.1419 | 28.81 | -13.68 | 15.13 | 43.50 | -28.37 | QP | | | |
| 4 | 120.6991 | 28.61 | -13.13 | 15.48 | 43.50 | -28.02 | QP | | | |
| 5 | 361.7139 | 26.72 | -7.26 | 19.46 | 46.00 | -26.54 | QP | | | |
| 6 | 836.2441 | 30.59 | 1.45 | 32.04 | 46.00 | -13.96 | QP | | | |





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Report No.: ATE20171327

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Job No.: Frank2017 #202 Polarization: Vertical Standard: FCC Class B 3M Radiated Power Source: DC 3V

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: VIDEO GAME Mode: TX2404MHz

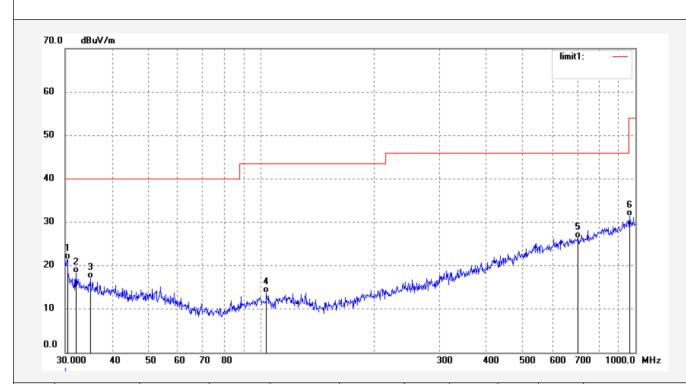
Model: C-12

Manufacturer: DONGGUAN FEIHAO INDUSTRIALIST CO.,LTD

Note: Report NO.:ATE20171327

Power Source: DC 3V Date: 17/07/17/

Time: 11/43/52 Engineer Signature: Distance: 3m



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
| 1 | 30.4237 | 30.41 | -9.04 | 21.37 | 40.00 | -18.63 | QP | | | |
| 2 | 32.0667 | 27.77 | -9.54 | 18.23 | 40.00 | -21.77 | QP | | | |
| 3 | 35.0048 | 27.54 | -10.41 | 17.13 | 40.00 | -22.87 | QP | | | |
| 4 | 103.4419 | 27.38 | -13.62 | 13.76 | 43.50 | -29.74 | QP | | | |
| 5 | 701.7609 | 27.44 | -1.03 | 26.41 | 46.00 | -19.59 | QP | | | |
| 6 | 965.5421 | 28.05 | 3.35 | 31.40 | 54.00 | -22.60 | QP | | | |





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Report No.: ATE20171327

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Job No.: Frank2017 #204 Polarization: Horizontal Standard: FCC Class B 3M Radiated Power Source: DC 3V

Standard: FCC Class B 3M Radiated Power Source: DC 3
Test item: Radiation Test Date: 17/07/17/

Temp.(C)/Hum.(%) 23 C / 48 % Time: 11/44/47

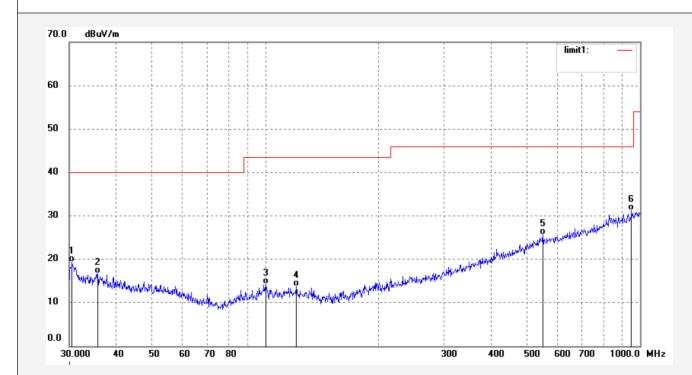
EUT: VIDEO GAME Engineer Signature:

Mode: TX2441MHz Distance: 3m

Model: C-12

Manufacturer: DONGGUAN FEIHAO INDUSTRIALIST CO.,LTD

Note: Report NO.:ATE20171327



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
| 1 | 30.5305 | 29.32 | -9.97 | 19.35 | 40.00 | -20.65 | QP | | | |
| 2 | 35.7490 | 27.29 | -10.58 | 16.71 | 40.00 | -23.29 | QP | | | |
| 3 | 100.2286 | 27.30 | -13.09 | 14.21 | 43.50 | -29.29 | QP | | | |
| 4 | 121.1230 | 26.92 | -13.19 | 13.73 | 43.50 | -29.77 | QP | | | |
| 5 | 550.9479 | 28.69 | -3.05 | 25.64 | 46.00 | -20.36 | QP | | | |
| 6 | 948.7609 | 28.17 | 3.08 | 31.25 | 46.00 | -14.75 | QP | | | |





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Report No.: ATE20171327

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Job No.: Frank2017 #203 Polarization: Vertical Standard: FCC Class B 3M Radiated Power Source: DC 3V

 Test item:
 Radiation Test
 Date: 17/07/17/

 Temp.(C)/Hum.(%) 23 C / 48 %
 Time: 11/44/07

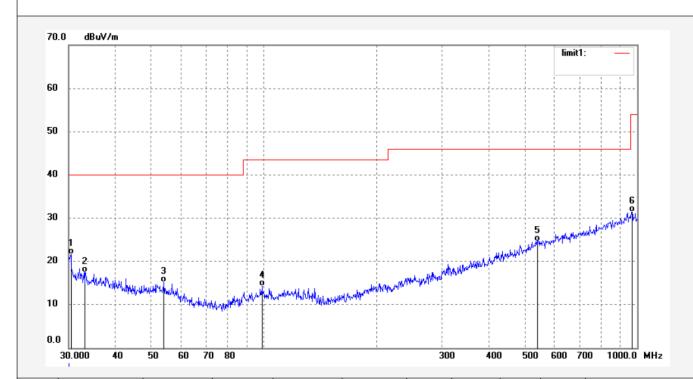
 EUT:
 VIDEO GAME
 Engineer Signature:

 Mode:
 TX2441MHz
 Distance: 3m

Model: C-12

Manufacturer: DONGGUAN FEIHAO INDUSTRIALIST CO.,LTD

Note: Report NO.:ATE20171327



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|----------------|-----------------|-------------------|----------------|----------|-------------|------------------|--------|
| 1 | 30.4237 | 30.69 | -9.04 | 21.65 | 40.00 | -18.35 | QP | | | |
| 2 | 33.2111 | 27.37 | -9.89 | 17.48 | 40.00 | -22.52 | QP | | | |
| 3 | 53.8817 | 28.08 | -12.87 | 15.21 | 40.00 | -24.79 | QP | | | |
| 4 | 98.8324 | 27.74 | -13.44 | 14.30 | 43.50 | -29.20 | QP | | | |
| 5 | 535.7073 | 28.00 | -3.40 | 24.60 | 46.00 | -21.40 | QP | | | |
| 6 | 968.9338 | 28.03 | 3.40 | 31.43 | 54.00 | -22.57 | QP | | | |





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Job No.: Frank2017 #205

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: VIDEO GAME Mode: TX2478MHz

Model: C-12

Manufacturer: DONGGUAN FEIHAO INDUSTRIALIST CO.,LTD

Note: Report NO.:ATE20171327

Polarization: Horizontal Power Source: DC 3V

Date: 17/07/17/
Time: 11/45/13
Engineer Signature:
Distance: 3m

| | | | | | | | | | | | 1 1 1 | | | limit | 1: | _ | 7 |
|-----|---------|-----------|------|--------|--------|---------|-----------|--|--|----------|--------------------------------------|------------------|---------------|--------|-----------------|----------|--------|
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| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|----------------|-----------------|-------------------|----------------|----------|----------------|------------------|--------|
| 1 | 30.5305 | 29.32 | -9.97 | 19.35 | 40.00 | -20.65 | QP | | | |
| 2 | 36.2541 | 28.14 | -10.70 | 17.44 | 40.00 | -22.56 | QP | | | |
| 3 | 100.2286 | 27.30 | -13.09 | 14.21 | 43.50 | -29.29 | QP | | | |
| 4 | 270.3747 | 27.52 | -9.92 | 17.60 | 46.00 | -28.40 | QP | | | |
| 5 | 682.3484 | 29.32 | -1.33 | 27.99 | 46.00 | -18.01 | QP | | | |
| 6 | 948.7609 | 28.17 | 3.08 | 31.25 | 46.00 | -14.75 | QP | | | |





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Job No.: Frank2017 #206

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: VIDEO GAME Mode: TX2478MHz

Model: C-12

Manufacturer: DONGGUAN FEIHAO INDUSTRIALIST CO.,LTD

Note: Report NO.:ATE20171327



Date: 17/07/17/ Time: 11/44/07 Engineer Signature:

Distance: 3m

| 60 | | | | | | | | | | |
|----|---|-----------------|---|--|--------------------------------------|--------------|--|---------------|----------------|--------------|
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| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
| 1 | 30.4237 | 30.69 | -9.04 | 21.65 | 40.00 | -18.35 | QP | | | |
| 2 | 32.0667 | 27.77 | -9.54 | 18.23 | 40.00 | -21.77 | QP | | | |
| 3 | 53.8817 | 28.08 | -12.87 | 15.21 | 40.00 | -24.79 | QP | | | |
| 4 | 98.8324 | 27.74 | -13.44 | 14.30 | 43.50 | -29.20 | QP | | | |
| 5 | 543.2740 | 28.37 | -3.27 | 25.10 | 46.00 | -20.90 | QP | | | |
| 6 | 968.9338 | 28.03 | 3.40 | 31.43 | 54.00 | -22.57 | QP | | | |





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Job No.: Frank2017 #210

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

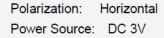
Temp.(C)/Hum.(%) 23 C / 48 %

EUT: VIDEO GAME Mode: TX2404MHz

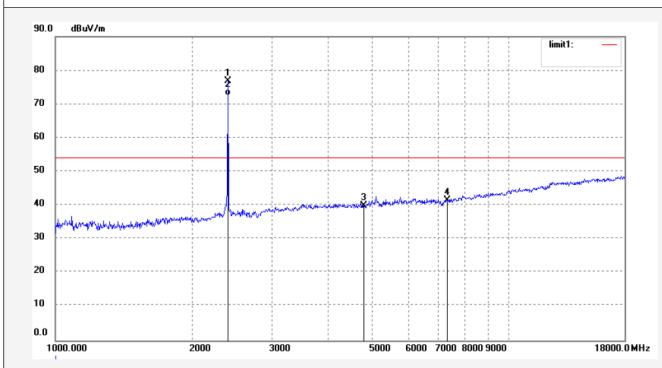
Model: C-12

Manufacturer: DONGGUAN FEIHAO INDUSTRIALIST CO.,LTD

Note: Report NO.:ATE20171327



Date: 17/07/17/
Time: 16/15/20
Engineer Signature:
Distance: 3m



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|----------------|-----------------|-------------------|----------------|----------|-------------|------------------|--------|
| 1 | 2404.753 | 78.51 | -1.62 | 76.89 | 114.00 | -37.11 | peak | | | |
| 2 | 2404.753 | 74.15 | -1.62 | 72.53 | 94.00 | -21.47 | AVG | | | |
| 3 | 4790.245 | 35.19 | 4.80 | 39.99 | 74.00 | -34.01 | peak | | | |
| 4 | 7326.267 | 32.80 | 8.81 | 41.61 | 74.00 | -32.39 | peak | | | |





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Report No.: ATE20171327

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Job No.: Frank2017 #211 Polarization: Vertical Standard: FCC Class B 3M Radiated Power Source: DC 3V

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: VIDEO GAME

Mode: TX2404MHz

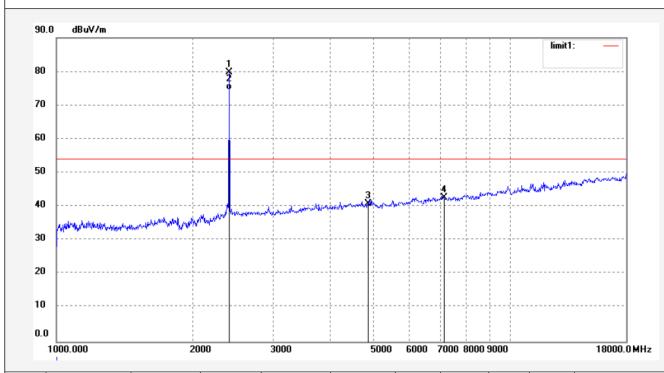
Model: C-12

Manufacturer: DONGGUAN FEIHAO INDUSTRIALIST CO.,LTD

Note: Report NO.:ATE20171327

Date: 17/07/17/
Time: 16/15/32
Engineer Signature:

Distance: 3m



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|----------------|--------------------|-------------------|----------------|----------|-------------|------------------|--------|
| 1 | 2404.753 | 81.30 | -1.62 | 79.68 | 114.00 | -34.32 | peak | | | |
| 2 | 2404.753 | 76.15 | -1.62 | 74.53 | 94.00 | -19.47 | AVG | | | |
| 3 | 4859.975 | 35.32 | 5.42 | 40.74 | 74.00 | -33.26 | peak | | | |
| 4 | 7138.144 | 33.94 | 8.72 | 42.66 | 74.00 | -31.34 | peak | | | |





Model:

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Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Report No.: ATE20171327

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Job No.: Frank2017 #213 Polarization: Horizontal Standard: FCC Class B 3M Radiated Power Source: DC 3V

Test item: Radiation Test Date: 17/07/17/
Temp.(C)/Hum.(%) 23 C / 48 % Time: 16/16/46

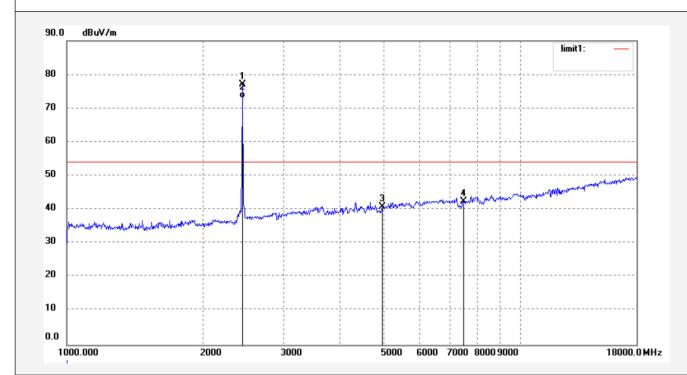
EUT: VIDEO GAME Engineer Signature:

Mode: TX2441MHz Distance: 3m

Manufacturer: DONGGUAN FEIHAO INDUSTRIALIST CO.,LTD

Note: Report NO.:ATE20171327

C-12



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|----------------|--------------------|-------------------|----------------|----------|-------------|------------------|--------|
| 1 | 2441.751 | 78.58 | -1.44 | 77.14 | 114.00 | -36.86 | peak | | | |
| 2 | 2441.751 | 74.45 | -1.44 | 73.01 | 94.00 | -20.99 | AVG | | | |
| 3 | 4959.307 | 34.84 | 6.08 | 40.92 | 74.00 | -33.08 | peak | | | |
| 4 | 7476.006 | 32.78 | 9.54 | 42.32 | 74.00 | -31.68 | peak | | | |





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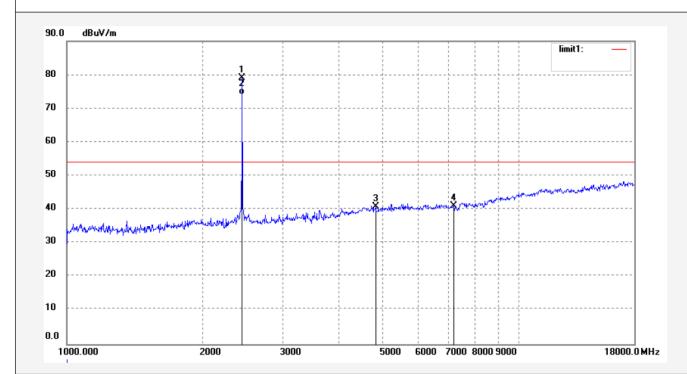
Job No.: Frank2017 #212 Polarization: Vertical Standard: FCC Class B 3M Radiated Power Source: DC 3V

Standard: FCC Class B 3M Radiated Power Source: DC 3'
Test item: Radiation Test Date: 17/07/17/

Temp.(C)/Hum.(%) 23 C / 48 % Time: 16/16/12
EUT: VIDEO GAME Engineer Signature:
Mode: TX2441MHz Distance: 3m
Model: C-12

Manufacturer: DONGGUAN FEIHAO INDUSTRIALIST CO.,LTD

Note: Report NO.:ATE20171327



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
| 1 | 2441.751 | 80.63 | -1.44 | 79.19 | 114.00 | -34.81 | peak | | | |
| 2 | 2441.751 | 75.56 | -1.44 | 74.12 | 94.00 | -19.88 | AVG | | | |
| 3 | 4818.016 | 35.78 | 5.03 | 40.81 | 74.00 | -33.19 | peak | | | |
| 4 | 7179.527 | 32.55 | 8.51 | 41.06 | 74.00 | -32.94 | peak | | | |





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Report No.: ATE20171327

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Job No.: Frank2017 #207 Polarization: Horizontal Standard: FCC Class B 3M Radiated Power Source: DC 3V

Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %

EUT: VIDEO GAME Mode: TX2478MHz

Model: C-12

Manufacturer: DONGGUAN FEIHAO INDUSTRIALIST CO.,LTD

Note: Report NO.:ATE20171327



Time: 11/48/16
Engineer Signature:
Distance: 3m

| | | | | | | | | | | | limit1: | 7 |
|-----|--|--|--------------|------|---|--------|-------------------------------|--------|--------------|-------------------|--|---|
| 80 | | <u>-</u> | 1 | | | | | | | | | 4 |
| 70 | | | | | | | | | | | | |
| 60 | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | |
| 40 | | | | | 3 Mariana Ma Mariana Mariana Mariana Mariana Mariana Mariana Mariana Ma Ma Mariana Ma Mariana Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma | Maryan | and property and the state of | 4 | and the same | Market and Market | Miller I was for my of the ground hander | |
| 30 | Marine April a de Santa de Caracter de Car | de professor de professor de la professor de l | and hamalong | h | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 0.0 | 000.000 | | | 3000 | | | 000 7 | 7000 8 | | | 1800 | |

| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
| 1 | 2477.310 | 80.22 | -1.41 | 78.81 | 114.00 | -35.19 | peak | | | |
| 2 | 2477.310 | 75.13 | -1.41 | 73.72 | 94.00 | -20.28 | AVG | | | |
| 3 | 4959.307 | 34.99 | 6.08 | 41.07 | 74.00 | -32.93 | peak | | | |
| 4 | 7411.461 | 31.69 | 9.12 | 40.81 | 74.00 | -33.19 | peak | | | |





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Report No.: ATE20171327

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Job No.: Frank2017 #208 Polarization: Vertical Standard: FCC Class B 3M Radiated Power Source: DC 3V

Standard: FCC Class B 3M Radiated Power Source: DC 3\
Test item: Radiation Test Date: 17/07/17/

 Temp.(C)/Hum.(%) 23 C / 48 %
 Time: 11/52/21

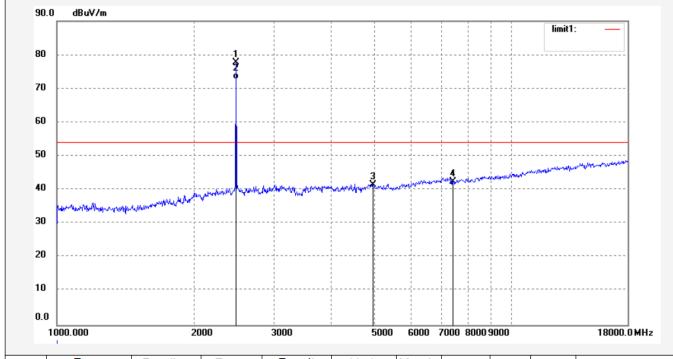
 EUT: VIDEO GAME
 Engineer Signature:

 Mode: TX2478MHz
 Distance: 3m

Model: C-12

Manufacturer: DONGGUAN FEIHAO INDUSTRIALIST CO.,LTD

Note: Report NO.:ATE20171327



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
| 1 | 2477.310 | 79.12 | -1.41 | 77.71 | 114.00 | -36.29 | peak | | | |
| 2 | 2477.310 | 74.15 | -1.41 | 72.74 | 94.00 | -21.26 | AVG | | | |
| 3 | 4960.000 | 35.37 | 6.10 | 41.47 | 74.00 | -32.53 | peak | | | |
| 4 | 7441.000 | 33.01 | 9.30 | 42.31 | 74.00 | -31.69 | peak | | | |



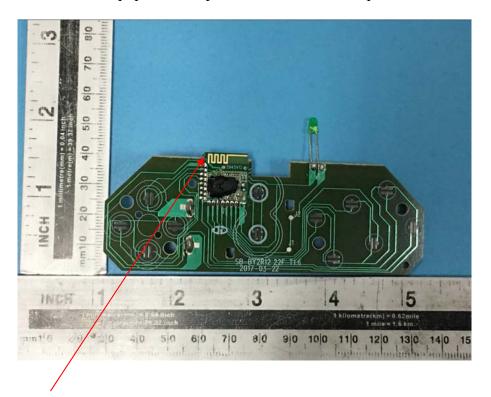
8. ANTENNA REQUIREMENT

8.1. The Requirement

According to 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.

8.2. Antenna Construction

Device is equipped with unique antenna, which isn't displaced by other antenna. Therefore, the equipment complies with the antenna requirement of Section 15.203.



Antenna

----- THE END OF TEST REPORT -----