

# FCC TEST REPORT No. 170201254SHA-002

Applicant : Guangdong Meijiaxin Innovative technology Co.,

Ltd

Xingye South Road, Laimei Industrial Park, Chenghai, Shantou, Guandong, China

Manufacturer : Guangdong Meijiaxin Innovative technology Co.,

Ltd

Xingye South Road, Laimei Industrial Park, Chenghai, Shantou, Guandong, China

Product Name : R/C brushless drone Bugs 3

Type/Model: B3

Additional Models : See model list

TEST RESULT : PASS

#### **SUMMARY**

The equipment complies with the requirements according to the following standard(s) or specification:

**47CFR Part 15 (2016):** Radio Frequency Devices (Subpart C)

**ANSI C63.10 (2013):** American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

Date of issue: February 19, 2017

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Prepared by: Reviewed by:

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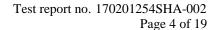
FCC Registration

Number : 441872



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### 1 GENERAL INFORMATION

### 1.1 Description of Client

Applicant : Guangdong Meijiaxin Innovative technology Co., Ltd

Xingye South Road, Laimei Industrial Park, Chenghai,

Shantou, Guandong, China

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Manufacturer : Guangdong Meijiaxin Innovative technology Co., Ltd

Xingye South Road, Laimei Industrial Park, Chenghai,

Shantou, Guandong, China

#### 1.2 Identification of the EUT

Product Name : R/C brushless drone Bugs 3

Type/model: B3

Additional Models : See model list

(Note: All the model numbers are identical in circuitry and electrical, mechanical and physical construction; the only differences are the appearance and model no. for

trading purpose.)

FCC ID : 2AHV3BUGS

#### Model List:

| Production name              | Trade name  | Model no. |
|------------------------------|-------------|-----------|
| Production name              | 1 rade name | Model no. |
| R /C brushless drone Bugs 3  | MJX R/C     | В3        |
| R /C brushless drone Bugs 2  | MJX R/C     | B2        |
| R /C brushless drone Bugs 2W | MJX R/C     | B2W       |
| R /C brushless drone Bugs 3C | MJX R/C     | В3С       |
| R /C brushless drone Bugs 3W | MJX R/C     | B3W       |
| R /C brushless drone Bugs 3P | MJX R/C     | ВЗР       |
| R /C brushless drone Bugs 2P | MJX R/C     | B2P       |



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|                                  |         | 1 450 3 01 17 |
|----------------------------------|---------|---------------|
| R /C brushless drone Bugs 4      | MJX R/C | B4            |
| R /C brushless drone Bugs 4C     | MJX R/C | B4C           |
| R /C brushless drone Bugs 4W     | MJX R/C | B4W           |
| R /C brushless drone Bugs 4PRO   | MJX R/C | B4PRO         |
| R /C brushless drone Bugs 5      | MJX R/C | B5            |
| R /C brushless drone Bugs 5W     | MJX R/C | B5W           |
| R /C brushless drone Bugs 5C     | MJX R/C | B5C           |
| R /C brushless drone Bugs 5G     | MJX R/C | B5G           |
| R /C brushless drone Bugs 5PRO   | MJX R/C | B5PRO         |
| R /C brushless drone Bugs 250C   | MJX R/C | B250C         |
| R /C brushless drone Bugs 250PRO | MJX R/C | B250PRO       |
| R /C brushless drone Bugs 6      | MJX R/C | B6            |
| R /C brushless drone Bugs 4G     | MJX R/C | B4G           |
| R /C brushless drone Bugs 5H     | MJX R/C | В5Н           |
| R /C brushless drone Bugs 6G     | MJX R/C | B6G           |
| R /C brushless drone Bugs 8      | MJX R/C | В8            |
| R /C brushless drone Bugs 250    | MJX R/C | B250          |



### 1.3 Technical Specification

Operation Frequency : 2400~2483.5MHz

Band

Type of Modulation : FHSS

EUT Modes of : GFSK

Modulation

Channel Number : 94

Description of EUT : Radio Control Aircraft

Port identification NA

Antenna Internal antenna

Rating DC 7.4V

Declared Temperature : N/A

range

Category of EUT : Class B

EUT type :  $\square$  Table top

Floor standing ved date : January 3, 2017

Sample received date : January 3, 2

Sample Identification No : N/A

Date of test : January 3, 2017 to February 17, 2017



# 2 TEST SPECIFICATIONS

## 2.1 Standards or specification

47CFR Part 15 (2016) ANSI C63.10 (2013)

## 2.2 Mode of operation during the test

While testing transmitting mode of EUT, the internal modulation and continuously transmission was applied.

### 2.3 Test software list

| Test Items         | Software | Manufacturer | Version            |  |
|--------------------|----------|--------------|--------------------|--|
| Conducted emission | EZ-EMC   | FARAO        | LZ-RF / CCS-SZ-3A2 |  |
| Radiated emission  | EZ-EMC   | FARAO        | LZ-RF / CCS-SZ-3A2 |  |

# 2.4 Test peripherals list

| Item No. | Name | Band and Model | Description |  |
|----------|------|----------------|-------------|--|
|          |      |                |             |  |



## 2.5 Instrument list

|                                    | 3m (Semi/Full-Anechoic Chamber) |          |               |                               |                  |  |  |
|------------------------------------|---------------------------------|----------|---------------|-------------------------------|------------------|--|--|
| Equipment                          | Manufacturer                    | Mode No. | Serial Number | Cal. Due date<br>(mm-dd-yyyy) | Cal.<br>Interval |  |  |
| PSA Series<br>Spectrum<br>Analyzer | Agilent                         | E4446A   | US44300399    | 02-20-2017                    | 1 Year           |  |  |
| Turn Table                         | N/A                             | N/A      | N/A           | N.C.R                         | N.C.R            |  |  |
| Controller                         | Sunol Sciences                  | SC104V   | 022310-1      | N.C.R                         | N.C.R            |  |  |
| Controller                         | CT                              | N/A      | N/A           | N.C.R                         | N.C.R            |  |  |
| Loop Antenna                       | COM-POWER                       | AL-130   | 121044        | 02-20-2017                    | 1 Year           |  |  |
| Bilog Antenna                      | SCHAFFNER                       | CBL6143  | 5063          | 02-21-2017                    | 1 Year           |  |  |
| Horn Antenna                       | SCHWARZBECK                     | BBHA9120 | D286          | 02-20-2017                    | 1 Year           |  |  |
| High Noise<br>Amplifier            | Agilent                         | 8449B    | 3008A01838    | 02-21-2017                    | 1 Year           |  |  |
| Horn Antenna                       | Schwarzbeck                     | BBHA9120 | D286          | 02-21-2017                    | 1 Year           |  |  |
| Temp. /<br>Humidity<br>Meter       | midity Anymetre                 |          | N/A           | 02-21-2017                    | 1 Year           |  |  |
| Antenna<br>Tower                   | SUNOL                           | TLT2     | N/A           | N.C.R                         | N.C.R            |  |  |
| Test S/W                           | FARAO                           |          | LZ-RF / CC    | S-SZ-3A2                      |                  |  |  |

|                              | Conducted RF test |          |               |                            |                  |  |  |  |  |
|------------------------------|-------------------|----------|---------------|----------------------------|------------------|--|--|--|--|
| Equipment                    | Manufacturer      | Mode No. | Serial Number | Cal. Due date (mm-dd-yyyy) | Cal.<br>Interval |  |  |  |  |
| EXA Spectrum<br>Analyzer     | KEYSIGHT          | N9010A   | MY51440197    | 02-22-2017                 | 1 Year           |  |  |  |  |
| USB Wideband<br>Power Sensor | KEYSIGHT          | U2021XA  | MY55430023    | 02-22-2017                 | 1 Year           |  |  |  |  |



### 2.6 Test Summary

This report applies to tested sample only. The test results have been compared directly with the limits, and the measurement uncertainty is recorded. This report shall not be reproduced in part without written approval of Intertek Testing Service Shanghai Limited.

| TEST ITEM                           | FCC REFERANCE   | RESULT |
|-------------------------------------|-----------------|--------|
| Radiated emission                   | 15.249 & 15.209 | Pass   |
| Assigned bandwidth (20dB bandwidth) | 15.215(c)       | Pass   |
| Power line conducted emission       | 15.207          | NA     |

Notes: 1: NA =Not Applicable

2: This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.



# 3 Radiated emission

**Test result:** Pass

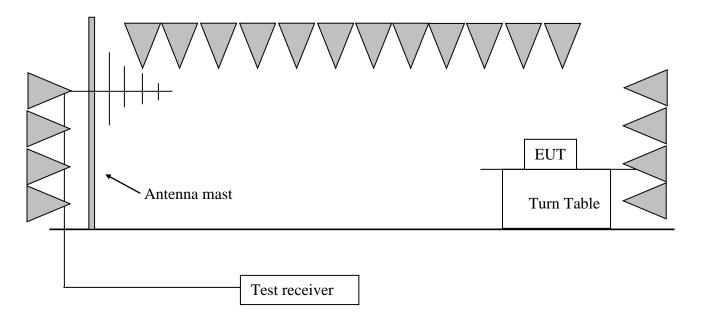
#### 3.1 Test limit

| Fundamental Frequency (MHz) | Fundamental limit (dBuV/m) | Harmonic limit (dBuV/m) |
|-----------------------------|----------------------------|-------------------------|
| 902 - 928                   | 94                         | 54                      |
| <b>∑</b> 2400 - 2483.5      | 94                         | 54                      |
| <u>5725 - 5875</u>          | 94                         | 54                      |
| <u>24000 - 24250</u>        | 108                        | 68                      |

The radiated emissions which fall outside allocated band (2400-2483.5MHz), must also comply with the radiated emission limits specified in §15.209(a) showed as below:

| Frequency (MHz) | Field Strength (dBuV/m) | Measurement Distance (m) |
|-----------------|-------------------------|--------------------------|
| 30 - 88         | 40.0                    | 3                        |
| 88 - 216        | 43.5                    | 3                        |
| 216 - 960       | 46.0                    | 3                        |
| Above 960       | 54.0                    | 3                        |

# 3.2 Test Configuration





#### 3.3 Test procedure and test setup

The measurement was applied in a semi-anechoic chamber. While testing for spurious emission higher than 1GHz, if applied, the pre-amplifier would be equipped just at the output terminal of the antenna.

Tabletop devices shall be placed on a nonconducting platform with nominal top surface dimensions 1 m by 1.5 m. For emissions testing at or below 1 GHz, the table height shall be 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m.

The turn table rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna which was mounted on an antenna mast. The antenna moved up and down between from 1meter to 4 meters to find out the maximum emission level.

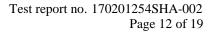
The radiated emission was measured using the Spectrum Analyzer with the resolutions bandwidth set as:

 $RBW = 300 \text{ Hz}, VBW = 1 \text{ kHz} (9 \text{ kHz} \sim 150 \text{ kHz});$ 

 $RBW = 10 \text{ kHz}, VBW = 30 \text{ kHz} (150 \text{ kHz} \sim 30 \text{MHz});$ 

RBW = 100 kHz, VBW = 300 kHz (30MHz~1GHz for PK)

RBW = 1MHz, VBW = 3MHz (>1GHz for PK);





# 3.4 Test protocol

Temperature : 21.7 °C Relative Humidity : 49 %

| СН | Antenna | Frequency (MHz) | Correct<br>Factor<br>(dB/m) | AV Factor | Corrected<br>Reading<br>(dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|----|---------|-----------------|-----------------------------|-----------|----------------------------------|----------------|-------------|----------|
|    | Н       | 384.05          | -8.36                       |           | 40.84                            | 46.00          | 5.16        | QP       |
|    | Н       | 448.07          | -8.70                       |           | 41.67                            | 46.00          | 4.33        | QP       |
|    | Н       | 462.62          | -7.48                       |           | 41.13                            | 46.00          | 4.87        | QP       |
|    | Н       | 2216.00         | -6.35                       |           | 47.68                            | 74.00          | 26.32       | peak     |
|    | Н       | 2390.00         | -2.79                       |           | 52.46                            | 74.00          | 21.54       | peak     |
|    | Н       | 2403.00         | -2.79                       |           | 85.09                            | 114.00         | 28.91       | peak     |
|    | Н       | 4806.00         | 4.35                        |           | 48.01                            | 74.00          | 25.99       | peak     |
|    | Н       | 5409.00         | 5.87                        |           | 47.33                            | 74.00          | 26.67       | peak     |
| L  | V       | 224.00          | -10.81                      |           | 31.17                            | 46.00          | 14.83       | QP       |
|    | V       | 451.95          | -8.32                       |           | 27.45                            | 46.00          | 18.55       | QP       |
|    | V       | 544.10          | -6.41                       |           | 26.84                            | 46.00          | 19.16       | QP       |
|    | V       | 2390.00         | -2.79                       |           | 53.00                            | 74.00          | 21.00       | peak     |
|    | V       | 2403.00         | -2.79                       |           | 95.82                            | 114.00         | 18.19       | peak     |
|    | V       | 2403.00         |                             | -23.60    | 72.22                            | 94.00          | 21.78       | AV       |
|    | V       | 2836.00         | -1.66                       |           | 42.64                            | 74.00          | 31.36       | peak     |
|    | V       | 4123.00         | 2.02                        |           | 44.82                            | 74.00          | 29.18       | peak     |
|    | V       | 4806.00         | 4.35                        |           | 46.01                            | 74.00          | 27.99       | peak     |
|    | Н       | 224.00          | -10.81                      |           | 37.59                            | 46.00          | 8.41        | QP       |
|    | Н       | 291.90          | -9.88                       |           | 36.05                            | 46.00          | 9.95        | QP       |
|    | Н       | 352.04          | -9.34                       |           | 40.31                            | 46.00          | 5.69        | QP       |
|    | Н       | 2426.50         | -2.73                       |           | 86.27                            | 114.00         | 27.73       | peak     |
|    | Н       | 3754.00         | 0.55                        |           | 42.19                            | 74.00          | 31.81       | peak     |
|    | Н       | 4853.00         | 4.50                        |           | 49.16                            | 74.00          | 24.84       | peak     |
|    | Н       | 5383.00         | 5.66                        |           | 47.56                            | 74.00          | 26.44       | peak     |
| M  | V       | 46.49           | -11.93                      |           | 27.06                            | 46.00          | 18.94       | QP       |
|    | V       | 128.94          | -12.54                      |           | 21.66                            | 46.00          | 24.34       | QP       |
|    | V       | 352.04          | -9.34                       |           | 24.59                            | 46.00          | 21.41       | QP       |
|    | V       | 2426.50         | -2.73                       |           | 96.02                            | 114.00         | 18.19       | peak     |
|    | V       | 2426.50         |                             | -23.60    | 72.42                            | 94.00          | 21.58       | AV       |
|    | V       | 3817.00         | 0.82                        |           | 43.54                            | 74.00          | 30.46       | peak     |
|    | V       | 4853.00         | 4.50                        |           | 47.03                            | 74.00          | 26.97       | peak     |
|    | V       | 5372.00         | 5.64                        |           | 47.98                            | 74.00          | 26.02       | peak     |
|    | Н       | 384.13          | -8.36                       |           | 40.75                            | 46.00          | 5.25        | QP       |
|    | Н       | 448.27          | -8.70                       |           | 41.38                            | 46.00          | 4.62        | QP       |
| Н  | Н       | 462.78          | -7.48                       |           | 41.17                            | 46.00          | 4.83        | QP       |
|    | Н       | 2449.50         | -2.59                       |           | 80.49                            | 114.00         | 33.52       | peak     |
|    | Н       | 2809.00         | -1.70                       |           | 42.74                            | 74.00          | 31.26       | peak     |



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| Н | 2483.50 | -2.34  |        | 52.75 | 74.00  | 21.25 | peak |
|---|---------|--------|--------|-------|--------|-------|------|
| H | 4375.00 | 2.91   |        | 45.09 | 74.00  | 28.91 | peak |
| Н | 4899.00 | 4.64   |        | 48.91 | 74.00  | 25.09 | peak |
| V | 224.15  | -10.81 |        | 31.01 | 46.00  | 14.99 | QP   |
| V | 451.38  | -8.32  |        | 27.14 | 46.00  | 18.86 | QP   |
| V | 544.16  | -6.41  |        | 26.53 | 46.00  | 19.47 | QP   |
| V | 2449.50 | -2.59  |        | 96.27 | 114.00 | 17.73 | peak |
| V | 2449.50 |        | -23.60 | 72.67 | 94.00  | 21.33 | AV   |
| V | 2818.00 | -1.69  |        | 43.32 | 74.00  | 30.68 | peak |
| V | 2483.50 | -2.34  |        | 52.38 | 74.00  | 21.62 | peak |
| V | 4899.00 | 4.67   |        | 46.07 | 74.00  | 27.93 | peak |
| V | 5446.00 | 5.77   |        | 47.11 | 74.00  | 26.89 | peak |

#### Remark:

- 1. Correct Factor = Antenna Factor + Cable Loss (-Amplifier, is employed);
- 2. Corrected Reading = Original Receiver Reading + Correct Factor;
- 3. Margin = Limit Corrected Reading;
- 4. If the PK Corrected reading is lower than AV limit, the AV test can be elided;
- 5. AV factor =  $20*\log(\text{duty cycle}) = 20*\log(1.100/16.651) = -23.60\text{dB}$ , AV value = PK value + AV factor.

### Example:

Assuming Antenna Factor = 30.20 dB/m, Cable Loss = 2.00 dB, Gain of Preamplifier = 32.00 dB, Original Receiver Reading = 10 dBuV, Then Correct Factor = 30.20 + 2.00 - 32.00 = 0.20 dB/m, Corrected Reading = 10 dBuV + 0.20 dB/m = 10.20 dBuV/m, Assuming limit = 54 dBuV/m, Corrected Reading = 10.20 dBuV/m, Then Margin = 54 - 10.20 = 43.80 dB.



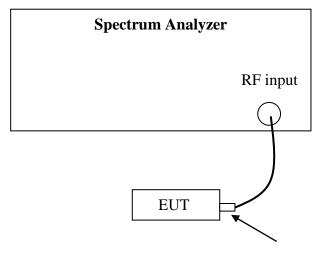
# 4 Assigned bandwidth (20dB bandwidth)

**Test result:** Pass

#### 4.1 Limit

Intentional radiators must be designed to ensure that the 20 dB bandwidth of the emission is contained within the allocated frequency band.

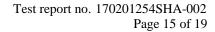
# **4.2** Test Configuration



Antenna connector

### 4.3 Test procedure and test setup

The 20dB Bandwidth per FCC § 15.215(c) is measured using the Spectrum Analyzer. Set Span = 2 to 3 times the 20 dB bandwidth, RBW = approximately 1% of the 20 dB bandwidth, VBW>RBW, Sweep = auto, Detector = peak, Trace = max hold. The test was performed at 3 channels (lowest, middle and highest channel).





# 4.4 Test protocol

 $\begin{array}{lll} \text{Temperature} & : & 21.3 \, ^{\circ}\text{C} \\ \text{Relative Humidity} & : & 46 \, \% \end{array}$ 

| Mode | Channel | 20dB Bandwidth<br>(kHz) | F <sub>L</sub> (MHz) | F <sub>H</sub> (MHz) |
|------|---------|-------------------------|----------------------|----------------------|
| GFSK | L       | 794.8                   | 2402.60              | -                    |
|      | M       | 791.2                   | -                    | -                    |
|      | Н       | 792.1                   | -                    | 2449.90              |



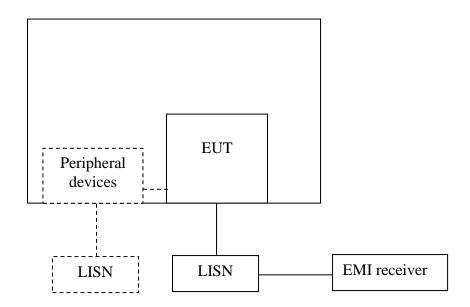
# 5 Power line conducted emission

Test result: NA

### 5.1 Limit

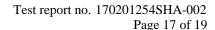
| Engagement of Englishing (MIL)                   | Conducted Limit (dBuV) |            |  |  |  |
|--|------------------------|------------|--|--|--|
| Frequency of Emission (MHz)                      | QP                     | AV         |  |  |  |
| 0.15-0.5   | 66 to 56*              | 56 to 46 * |  |  |  |
| 0.5-5  | 56                     | 46         |  |  |  |
| 5-30   | 60                     | 50         |  |  |  |
| * Decreases with the logarithm of the frequency. |                        |            |  |  |  |

# 5.2 Test configuration



☑ For table top equipment, wooden support is 0.8m height table

For floor standing equipment, wooden support is 0.1m height rack.

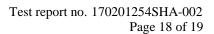




#### 5.3 Test procedure and test set up

Measured levels of ac power-line conducted emission shall be the emission voltages from the voltage probe, where permitted, or across the 50  $\Omega$  LISN port (to which the EUT is connected), where permitted, terminated into a 50  $\Omega$  measuring instrument. All emission voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord by the use of mating plugs and receptacles on the LISN, if used. Equipment shall be tested with power cords that are normally supplied or recommended by the manufacturer and that have electrical and shielding characteristics that are the same as those cords normally supplied or recommended by the manufacturer. For those measurements using a LISN, the 50  $\Omega$  measuring port is terminated by a measuring instrument having 50  $\Omega$  input impedance. All other ports are terminated in 50  $\Omega$  loads.

Tabletop devices shall be placed on a platform of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The vertical conducting plane or wall of an RF-shielded (screened) room shall be located 40 cm to the rear of the EUT. Floor-standing devices shall be placed either directly on the reference ground-plane or on insulating material as described in ANSI C63.4. All other surfaces of tabletop or floor-standing EUTs shall be at least 80 cm from any other grounded conducting surface, including the case or cases of one or more LISNs.





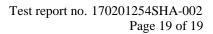
# 5.4 Test protocol

Temperature : °C Relative Humidity : %

L line

## Test Data:

| Frequency (MHz) | Quasi-peak      |   |                | Average         |                 |             |
|-----------------|-----------------|---|----------------|-----------------|-----------------|-------------|
|                 | level<br>dB(μV) | $\begin{array}{c} Limit \\ dB(\mu V) \end{array}$ | Margin<br>(dB) | level<br>dB(µV) | limit<br>dB(µV) | Margin (dB) |
|                 |                 |   |                |                 |                 |             |
|                 |                 |   |                |                 |                 |             |
|                 |                 |   |                |                 |                 |             |
|                 |                 |   |                |                 |                 |             |
|                 |                 |   |                |                 |                 |             |
|                 |                 |   |                |                 |                 |             |





N line

# Test Data:

| Frequency (MHz) | Quasi-peak      |                 | Average        |                 |   |             |
|-----------------|-----------------|-----------------|----------------|-----------------|---|-------------|
|                 | level<br>dB(μV) | Limit<br>dB(µV) | Margin<br>(dB) | level<br>dB(μV) | $\begin{array}{c} limit \\ dB(\mu V) \end{array}$ | Margin (dB) |
|                 |                 |                 |                |                 |   |             |
|                 |                 |                 |                |                 |   |             |
|                 |                 |                 |                |                 |   |             |
|                 |                 |                 |                |                 |   |             |
|                 |                 |                 |                |                 |   |             |
|                 |                 |                 |                |                 |   |             |