

廠商會檢定中心

TEST REPORT

Report No.	:	AU0038627(4)	Date :	30 Jun 2016	
Application No.	:	LU021946(0)			
Applicant	:	Zego Electronic Company Limited Room 703, Kowloon Building, 555 Nathan Road, Kowloon, HK			
Sample Description	:	1 5	010 2475MHz Trans A size batteries		
Date Received	:	02 Jun 2016			
Test Period	:	10 Jun 2016 to 13 Jun 2016			
Test Requested	:	FCC Part 15 Certificate			
Test Method	:	47 CFR Part 15 (10-1-15 Edition) ANSI C63.4 – 2014, ANSI C63.10 – 2013			
Test Engineer	:	Mr. LEUNG Shu-kan, Ken			
Test Result	:	See attached sheet(s) from page 2 to 28.			
Conclusion	:	The submitted sample was found to com Subpart B and C.	ply with require	ment of FCC Part 15	

For and on behalf of CMA Industrial Development Foundation Limited

Authorized Signature : Page 1 of 28 Mr. WONG Lap-pong Andrew Manager Electrical Division FCC ID: 2ACS615TX

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1 General Information

1.1 General Description

The equipment under test (EUT) is a controller for Surveyor Drone. The EUT is power by $4 \times 1.5V$ AAA size batteries. It operates at 2405MHz – 2475MHz. There are buttons and joysticks on the EUT. When the buttons are pressed or the joysticks are moved, the EUT will transmit radio control signal to receiver.

The brief circuit description is listed as follows:

- U3	and its associated circuit act as MCU
- U1 (module)	and its associated circuit act as RF circuit
- U1	and its associated circuit act as power supply circuit
- Y1	and its associated circuit act as oscillator
- S1, S2, S3, S4, S5, S6, S7, S9,	and its associated circuit act as copter control
VR1, VR2	*

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1.2 Location of the test site

FCC Registered Test Site Number: 552221

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.10 - 2013. A Semi-Anechoic Chamber Testing Site is set up for investigation and located at:

Ground Floor, Yan Hing Centre, 9 – 13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong.

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.10 - 2013. A shielded room is located at :

Ground Floor, Yan Hing Centre, 9 – 13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong.

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1.3 List of measuring equipment

Equipment	Manufacturer	Model No.	Serial No.	Calibration Due Date	Calibration Period
EMI Test Receiver	R&S	ESCI	100152	27 Sep 2016	1Year
Spectrum Analyzer	R&S	FSV40	100628	09 Feb 2017	1Year
Broadband Antenna	Schaffner	CBL6112B	2718	15 Mar 2017	2Years
Loop Antenna	EMCO	6502	00056620	25 Jan 2018	2Years
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-531	24 Nov 2016	2Years
Broadband Pre-Amplifier	Schwarzbeck	BBV 9718	9718-119	24 Nov 2016	2Years
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170442	02 Aug 2017	2Years
Broadband Pre-Amplifier	Schwarzbeck	BBV 9719	9719-010	02 Aug 2017	2Years
Coaxial Cable	Schaffner	RG 213/U	N/A	18 May 2017	1Years
Coaxial Cable	Suhner	RG 214/U	N/A	18 May 2017	1Years
Coaxial Cable	Suhner	Sucoflex_104	N/A	13 Dec 2016	1Years

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1.4 Measurement Uncertainty

The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%.

Radiated emissions						
Frequency	Uncertainty (U _{lab})					
30MHz ~ 200MHz (Horizontal)	4.83dB					
30MHz ~ 200MHz (Vertical)	4.84dB					
200MHz ~1000MHz (Horizontal)	4.87dB					
200MHz ~1000MHz (Vertical)	5.94dB					
1GHz ~6GHz	4.41dB					
6GHz ~18GHz	4.64dB					

Conducted emissions

Frequency	Uncertainty (U _{lab})
150kHz~30MHz	2.64dB

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2 Description of the radiated emission test

2.1 Test Procedure

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.10 - 2013.

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 1m and 0.8m high above the ground. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

For below 30MHz, a loop antenna with its vertical plane is placed 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1 m above the ground.

For 30MHz to 1GHz, broadband antenna with its vertical and horizontal plane is placed 3m from the EUT and rotated about its vertical and horizontal axis for maximum response at each azimuth about the EUT. And the reference point of antenna shall be 1 m above the ground.

For above 1GHz, horn antenna with its vertical and horizontal plane is placed 3m from the EUT and rotated about its vertical and horizontal axis for maximum response at each azimuth about the EUT. Preamplifier and High Pass filter was used for measurements. The reference point of antenna shall be 1 m above the ground.

The device was rotated through three orthogonal to determine which attitude and configuration produce the highest emission during measurement for Radiated Emission measurement.

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2.2 **Test Result**

Subpart C:

Peak Detector data were measured unless otherwise stated.

"#" means emissions appear within the restricted bands shall follow the requirement of section 15.205.

The Frequencies from fundamental up to tenth harmonics were investigated, and emissions more 20dB below limited were not reported. Thus, those higher emissions were presented in next page (section 2.3).

Subpart B:

Quasi-Peak Detector data were measured unless otherwise stated.

"#" means emissions appear within the restricted bands shall follow the requirement of section 15.205.

The emissions meet the requirement of section 15.109 are based on measurements employing the CISPR quasi-peak detector below 1000MHz and average detector for frequencies above 1000MHz.

The frequencies from 30MHz to 1000MHz were investigated, and emissions more 20dB below limit were not reported. Thus, those highest emissions were presented in next page (section 2.3).

It was found that the EUT meet the FCC requirement.

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2.3 Radiated Emission Measurement Data

Radiated emission

pursuant to

the requirement of FCC Part 15 subpart C

Environmental conditions:		
Parameter	Recorded value	
Ambient temperature:	27	° C
Relative humidity:	70	%

Measurement: Peak RBW: 1MHz VBW: 3MHz Operation mode: Transmission Testing frequency range: 9kHz to 25GHz

Frequency (MHz)	Polarity (H/V)	Reading at 3m (dBµV)	Transducer Factor (dB/m)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)	
2405.284	Н	100.2	- 4.2	96.0	114.0	- 18.0	
#4808.858	Н	45.6	3.7	49.3	74.0	- 24.7	
7213.332	Н	45.5	11.5	57.0	74.0	- 17.0	
7215.794	V	42.9	11.5	54.4	74.0	- 19.6	
2432.450	Н	98.5	- 4.2	94.3	114.0	- 19.7	
#4865.555	Н	47.2	3.7	50.9	74.0	- 23.1	
#7297.337	Н	47.1	11.5	58.6	74.0	- 15.4	
#7297.437	V	42.4	11.5	53.9	74.0	- 20.1	
2474.435	Н	99.2	- 4.3	94.9	114.0	- 19.1	
#4949.610	Н	50.0	4.0	54.0	74.0	- 20.0	
#7423.152	V	41.6	11.5	53.1	74.0	- 20.9	
#7423.257	Н	44.0	11.5	55.5	74.0	- 18.5	

Remark: Other emissions more than 20dB below the limit are not reported.

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2.3 Radiated Emission Measurement Data (Con't)

Radiated emission

pursuant to

the requirement of FCC Part 15 subpart C

Environmental conditions:	_	
Parameter	Recorded value	
Ambient temperature:	27	° C
Relative humidity:	70	%

Measurement: Average RBW: 1MHz VBW: 10Hz Operation mode: Transmission Testing frequency range: 9kHz to 25GHz

Frequency (MHz)	Polarity (H/V)	Reading at 3m (dBµV)	Transducer Factor (dB/m)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
2404.605	Н	35.8	- 4.2	31.6	94.0	- 62.4
#4809.166	Н	23.3	3.7	27.0	54.0	- 247.0
7213.597	Н	22.1	11.5	33.6	54.0	- 20.4
7213.597	V	21.8	11.5	33.6	54.0	- 20.7
2432.474	Н	35.3	- 4.2	31.1	94.0	- 62.9
#4865.130	Н	23.6	3.7	27.3	54.0	- 26.7
#7297.387	V	22.1	11.5	33.6	54.0	- 20.4
#7297.427	Н	22.9	11.5	34.4	54.0	- 19.6
	-					
2474.655	Н	35.5	- 4.3	31.2	94.0	- 62.8
#4949.591	Н	24.3	4.0	28.3	54.0	- 25.7
#7423.212	Н	22.3	11.5	33.8	54.0	- 20.2
#7423.227	V	22.1	11.5	33.6	54.0	- 20.4

Remark: Other emissions more than 20dB below the limit are not reported.

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2.3 Radiated Emission Measurement Data (Con't)

Radiated emission

pursuant to

the requirement of FCC Part 15 subpart C

Environmental conditions:	_	
Parameter	Recorded value	
Ambient temperature:	27	° C
Relative humidity:	70	%

Detector: Quasi-peak RBW: 120kHz VBW: 300kHz

Testing frequency range: 9kHz to 25GHz Operation mode: Transmission

Frequency (MHz)	Polarity (H/V)	Reading at 3m	Antenna Factor and Cable Loss	Field Strength at 3m	Limit at 3m (dBµV/m)	Margin (dB)
(14112)	(11/)	(dBµV)	(dB/m)	(dBµV/m)	(uDµ v/III)	(uD)
75.277	Н	10.6	8.0	18.6	40.0	-21.4
114.504	Н	10.1	12.2	22.3	43.5	-21.2
160.828	Н	8.3	11.9	20.2	43.5	-23.3
214.658	Н	8.2	12.0	20.2	43.5	-23.3
253.337	Н	8.5	15.4	23.9	46.0	-22.1
291.885	Н	9.3	15.4	24.7	46.0	-21.3
321.902	Н	8.8	16.8	25.6	46.0	-20.4

Remark: Other emissions more than 20dB below the limit are not reported.

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2.3 Radiated Emission Measurement Data (Con't)

Radiated emission

pursuant to

the requirement of FCC Part 15 subpart B

Environmental conditions:	_	
Parameter	Recorded value	
Ambient temperature:	27	°C
Relative humidity:	70	%

Detector: Quasi-peak RBW: 120kHz VBW: 300kHz

Testing frequency range: 9kHz to 25GHz Operation mode: Receiving

Frequency	Polarity	Reading	Antenna Factor	Field Strength	Limit at 3m	Margin
(MHz)	(H/V)	at 3m (dBµV)	and Cable Loss (dB/m)	at 3m (dBµV/m)	(dBµV/m)	(dB)
71.044	Н	8.0	8.0	16.0	40.0	- 24.0
114.481	Н	10.2	12.2	22.4	43.5	- 21.1
164.850	Н	8.1	11.9	20.0	43.5	- 23.5
224.258	Н	8.9	11.8	20.7	46.0	- 25.3
264.632	Н	8.7	15.4	24.1	46.0	- 21.9
289.200	Н	9.2	15.4	24.6	46.0	- 21.4
320.475	Н	8.8	16.8	25.6	46.0	- 20.4

Remark: Other emissions more than 20dB below the limit are not reported.

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3 Description of the Line-conducted Test

3.1 Test Procedure

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.10 - 2013. The EUT was setup as described in the procedures, and both lines were measured.

3.2 Test Result

No measurement is required as the EUT is a battery-operated product.

3.3 Graph and Table of Conducted Emission Measurement Data

Not Applicable

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4 Photograph

4.1 Photographs of the Test Setup for Radiated Emission and Conducted Emission

For electronic filing, the photos are saved with filename 2ACS615TX TSup.pdf.

4.2 Photographs of the External and Internal Configurations of the EUT

For electronic filing, the photos are saved with filename 2ACS615TX ExPho.pdf and 2ACS615TX InPho.pdf.

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5 Supplementary document

The following document were submitted by applicant, and for electronic filing, the document are saved with the following filenames:

Document	Filename		
ID Label/Location	LabelSmp.jpg		
Block Diagram	BlkDia.pdf		
Schematic Diagram	Schem.pdf		
Users Manual	UserMan.pdf		
Operational Description	OpDes.pdf		

5.1 Bandwidth

The plot in Appendices A6 shows the fundamental emission is confined in the specified band. It shows the 20dB bandwidth met the 15.215 requirement for frequency band 2400 to 2483.5 MHz.

The plot in Appendices A5 shows the band edge is fulfil 15.209 requirement.

5.2 Antenna requirement

Appendices A4 shows the antenna is permanently attached and cannot be changed. Therefore it fulfils the section 15.203 requirement

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6	Арре	endices			
	A1	Photos of the set-up of Radiated Emissions	3	pages	
	A2	Photos of External Configurations	2	pages	
	A3	Photos of Internal Configurations	2	pages	
	A4	ID Label/Location	1	page	
	A5	Band Edge	2	pages	
	A6	20dB Bandwidth Plot	2	pages	

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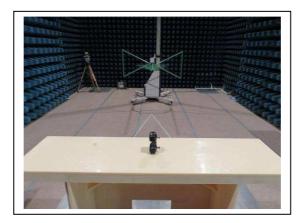
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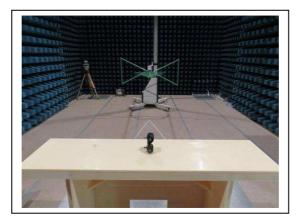
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A1. Photos of the set-up of Radiated Emissions



(Front view, 30MHz - 1GHz)



(Back view, 30MHz - 1GHz)

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Mr. LEUNG Shu-kan, Ken

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A1. Photos of the set-up of Radiated Emissions



(Front view, 9KHz - 30MHz)



(Back view, 9KHz - 30MHz)

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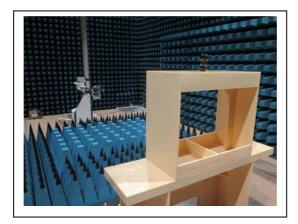
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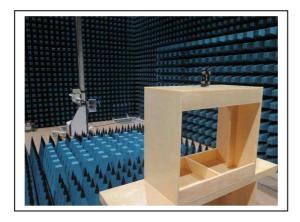
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Photos of the set-up of Radiated Emissions A1.



(front view, 1GHz - 25GHz)



(rear view, 1GHz – 25GHz)

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Photos of External Configuration A2.



External Configuration 1



External Configuration 2

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Photos of External Configuration A2.



External Configuration 3



External Configuration 4

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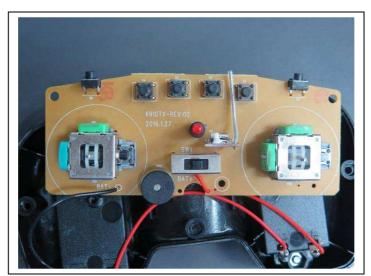
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A3. **Photos of Internal Configuration**



Internal Configuration 1



Internal Configuration 2

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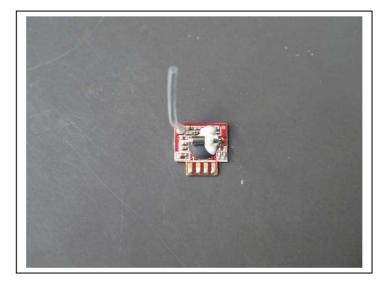
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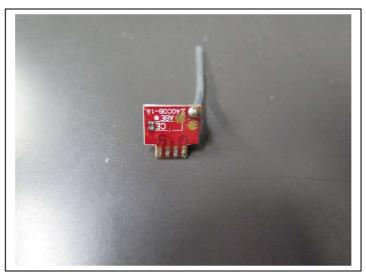
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Photos of Internal Configuration A3.



Internal Configuration 3



Internal Configuration 4

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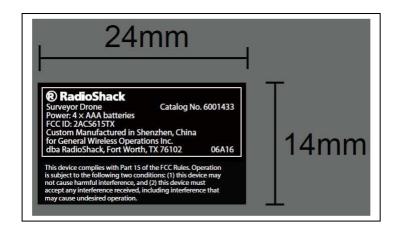
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A4. **ID** Label/Location



ID Label 1



ID Label 2

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AU0038627(4)

:

Date :

30 Jun 2016



A5. Band Edge

Lower edge (Peak measurement)

TDF 1Pk Max		CI
90 dBµV/m	M2[1] M1[1]	21.54 dBµV/r 2.4000000 GH 31.47 dBµV/r
80 dBµV/m		2,4046600 GH
70 dBµV/m		
60 dBµV/m-		
50 dBµV/m		
40 dBµV/m		ML
30 dBµV/m	 	\rightarrow
20. dBuV/m		
10 dBµV/m		
0 dBµV/m		

Lower edge (Average measurement)

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by: P.P.

Mr. WONG Lap-pong, Andrew

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廠商會檢定中心

TEST REPORT

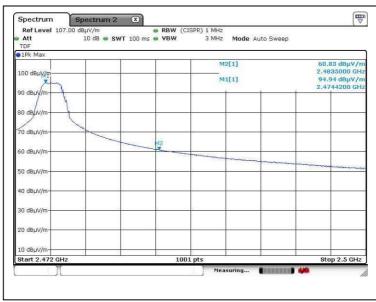
Report No.

AU0038627(4)

:

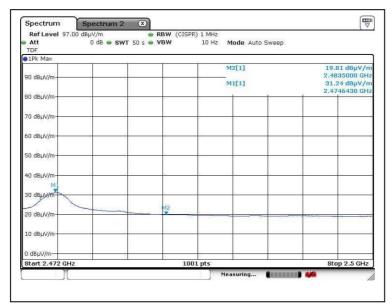
Date :

30 Jun 2016



A5. Band Edge

Upper edge (Peak measurement)



Upper edge (Average measurement)

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

FCC ID: 2ACS615TX

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廠商會檢定中心

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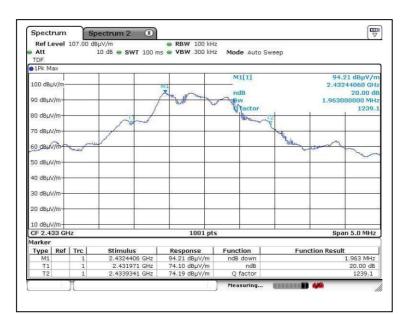
:

Date : 30 Jun 2016

Spectrum ectrum 2 Ref Level 107.0 Att Mode Auto Sweep TDF 1Pk M M1[1] 95.92 dBµV/r 100 dBp 2.40447050 GH 20.00 d 90 dBuV. DO MI 1 745 1375 80 dBuly 60 dBD 50 dBµ' 40 dBµV 30 dBµV, 20 dBuV/r CF 2.405 GHz 1001 pts Span 5.0 MHz larke Function ndB dow Type | Ref | Trc Stimulus Response Function Result 7483 MHz 20.00 dB 1375.4 ndB down ndB Q factor 75.59 75.63 dBµV, dBµV, dBµV, 2.403971

A6. 20dB Bandwidth Plot

Bandwidth 1 (2405MHz)



Bandwidth 2 (2433MHz)

Reviewed by:

Tested by:

Mr. LEUNG Shu-kan, Ken

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Report No.

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:

Date : 30 Jun 2016

Spectrum Ref Level 107 Att Mode Auto Sweep TDF 1Pk M M1[1] 94.91 dBµV/r 100 dB 2.4748 3020 GH 20.00 d 90 dBuV. 2.142 1154. 80 dBuly 70 dBi i0.i 50 dBµ' 40 dBµ' 30 dBµ\ 20 dBuV/ CF 2.475 GHz 1001 pts Span 5.0 MHz lark Function n ndB down n ndB n Q factor Type Ref Trc Stimulus Response Function Result .1429 MHz 20.00 dB 1154.9 94.91 dBµV 74.93 dBµV 74.85 dBµV 2.4737862

A6. **20dB Bandwidth Plot**

Bandwidth 3 (2475MHz)

***** End of Report *****

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

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