



CMA Testing and Certification Laboratories

廠商會檢定中心 **TEST REPORT**

Report No. : AS0021026(0) Date : 17 Apr 2014

Application No. : LS010836(7)

Applicant : Hubsan (HK) Industrial Co., Ltd.
4/F Hong Fa Hi-Tech Industrial Park, Tangtou Village, Baoan District,
Shiyan Town, Shenzhen, China

Client : Shenzhen Hubsan Technology Co., Ltd
Rm409 Municipal Building, Hongli West Road, FuTian District,
Shenzhen, China.

Sample Description : Three(3) item of submitted sample stated to be X4 Mini Quadcopter
of Model No. H107, H107C
Sample registration No. : RS011794-003, RS015095-002
Radio Frequency : 2410MHz – 2465 MHz Transceiver
Rating : 3.7V Rechargeable battery
No. of submitted sample : Three (3) set (s)

Date Received : 08 Apr 2014, 17 Apr 2014

Test Period : 08 Apr 2014 to 17 Apr 2014.

Test Requested : FCC Part 15 Certificate

Test Method : 47 CFR Part 15 (10-1-12 Edition)
ANSI C63.4 – 2009

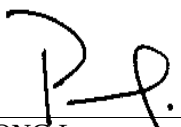
Test Engineer : Mr. LEUNG Shu-kan, Ken

Test Result : See attached sheet(s) from page 2 to 30.

Conclusion : The submitted sample was found to comply with requirement of FCC Part 15
Subpart C.

For and on behalf of
CMA Industrial Development Foundation Limited

Authorized Signature : _____


Mr. WONG Lap-pong, Andrew
Assistant Manager
Electrical Division

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FCC ID: A6060001058RX



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1 General Information

1.1 General Description

The equipment under test (EUT) is a transmitter for quadrocopter. The EUT is power by 3.7V rechargeable battery. It operates at 2410MHz – 2465 MHz. When the EUT receives the radio control signal from transmitter, the EUT will take the corresponding action.

The brief circuit description is listed as follows:

- U1, U2, U5 and its associated circuit act as MCU
- U3 and its associated circuit act as power
- U4, Y1 and its associated circuit act as RF module
- M1, Q1, M2, Q2, M3, Q3, M4, Q4 and its associated circuit act as motor



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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 C63.4 – 2009. 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 C63.4 – 2009. A shielded room is located at :

Ground Floor, Yan Hing Centre,
9 – 13 Wong Chuk Yeung Street,
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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	08 Jul 2014	1 Year
Spectrum Analyzer	R&S	FSV40	100964	17 Dec 2014	1 Year
Broadband Antenna	Schaffner	CBL6112B	2718	06 Jan 2015	1 Year
Loop Antenna	EMCO	6502	00056620	27 Oct 2015	1 Year
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-531	09 Oct 2014	1 Year
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170442	18 Jun 2015	2 Years
Broadband Pre-Amplifier	Schwarzbeck	BBV 9718	9718-119	09 Oct 2014	1 Year
Broadband Pre-Amplifier	Schwarzbeck	BBV 9719	9719-010	18 Jun 2015	2 Years
Coaxial Cable	Schaffner	RG 213/U	N/A	26 May 2014	1 Year
Coaxial Cable	Suhner	RG 214/U	N/A	26 May 2014	1 Year
Coaxial Cable	Suhner	Sucoflex_102	N/A	09 Oct 2014	1 Year
Coaxial Cable	Tyco Electronics	RG58CU	N/A	11 Nov 2014	1 Year
LISN	R&S	ESH3-Z5	100038	10 Dec 2014	1 Year



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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)	4.63dB
30MHz ~ 200MHz (Vertical)	4.65dB
200MHz ~1000MHz (Horizontal)	4.45dB
200MHz ~1000MHz (Vertical)	4.41dB

Conducted emissions

Frequency	Uncertainty (U_{lab})
150kHz~30MHz	2.47dB



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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 C63.4 – 2009.

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

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 that tenth harmonics 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:	22	° C
Relative humidity:	65	%

Detector: Quasi-peak

RBW: 120kHz

VBW: 300kHz

Testing frequency range: 9kHz to 25GHz

Frequency (MHz)	Polarity (H/V)	Reading at 3m (dBμV)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
203.014	H	14.7	12.0	26.7	43.5	- 16.8
551.039	V	15.7	22.2	37.9	46.0	- 8.1
580.041	V	16.1	22.2	38.3	46.0	- 7.7
609.043	V	19.0	22.8	41.8	46.0	- 4.2
725.053	H	12.7	23.5	36.2	46.0	- 9.8
783.057	H	13.6	23.5	37.1	46.0	- 8.9
841.061	H	12.2	24.9	36.9	46.0	- 9.1

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



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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:	22	° C
Relative humidity:	65	%

Detector: Peak RBW: 1MHz VBW: 3MHz

Testing frequency range: 9kHz to 25GHz

Channel	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)
Low	2409.800	H	45.4	31.6	77.0	114.0	- 37.0
	#4819.544	H	43.9	2.0	45.9	74.0	- 28.1
	#4819.652	V	43.4	2.0	45.4	74.0	- 28.6
	7229.377	V	38.3	10.2	48.5	74.0	- 25.5
Middle	2435.163	H	46.8	31.6	78.4	114.0	- 35.6
	#4869.580	V	44.4	2.0	46.4	74.0	- 27.6
	#4869.623	H	44.7	2.0	46.7	74.0	- 27.3
	#7304.260	H	36.7	10.2	46.9	74.0	- 27.1
High	2464.790	V	47.7	31.6	79.3	114.0	- 34.7
	#4929.645	V	44.5	2.0	46.5	74.0	- 27.5
	#4929.940	H	44.6	2.0	46.6	74.0	- 27.4
	#7394.447	V	37.8	10.2	48.0	74.0	- 26.0

Remark: Peak measurement values are lower than average limit, therefore average measurement is not necessary.

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 C63.4 – 2009. The EUT was setup as described in the procedures, and both lines were measured.

3.2 Test Result

The EUT is connected to adaptor for battery charging.

It was found that the EUT met the FCC requirement.

3.3 Graph and Table of Conducted Emission Measurement Data

For electronic filling, the document is saved with filename TestRpt2.pdf.



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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 TSup1.jpg to TSup9.jpg.

4.2 Photographs of the External and Internal Configurations of the EUT

For electronic filing, the photos are saved with filename ExPho1.jpg to ExPho5.jpg and InPho1.jpg to InPho4.jpg.



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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 saved in TestRpt3.pdf 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.

5.2 Duty cycle

Not Applicable

5.3 Transmission time

Not Applicable

5.4 Power Spectral Density

Not Applicable

5.5 Average on time

Not Applicable



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6 Appendices

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A2	Photos of the set-up of Conducted Emissions	2	pages
A3	Photos of External Configurations	3	pages
A4	Photos of Internal Configurations	2	pages
A5	ID Label/Location	1	page
A6	Conducted Emission Measurement Data	3	pages
A7	Band Edge	2	pages



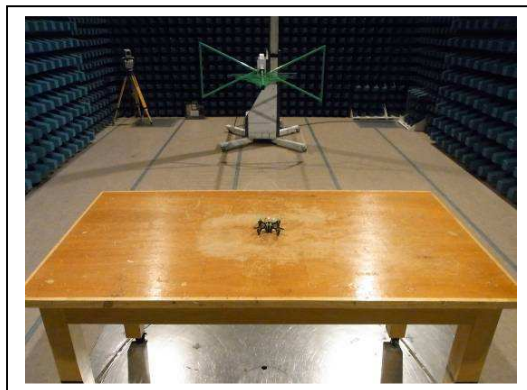
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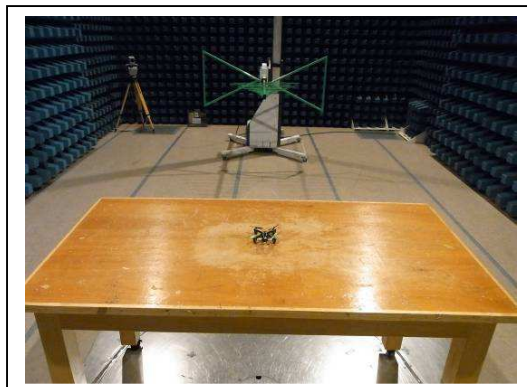
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Date : 17 Apr 2014

A1. Photos of the set-up of Radiated Emissions



(Front view, 30MHz – 1GHz)



(Back view, 30MHz – 1GHz)

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew



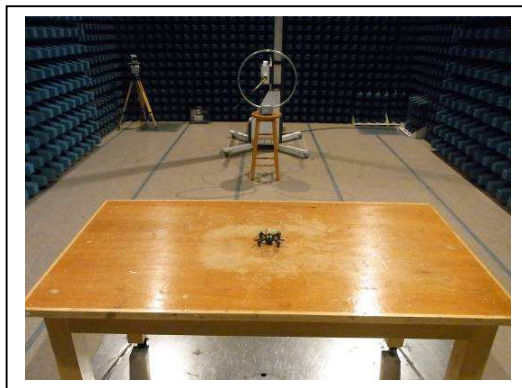
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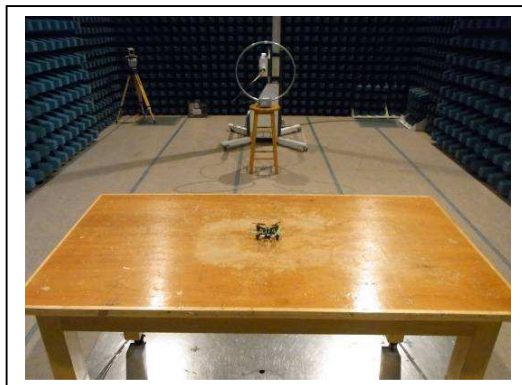
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Date : 17 Apr 2014

A1. Photos of the set-up of Radiated Emissions



(Front view, 9KHz – 30MHz)



(Back view, 9KHz – 30MHz)

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew



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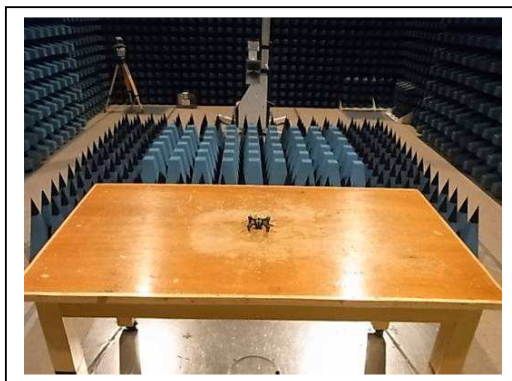
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Date : 17 Apr 2014

A1. Photos of the set-up of Radiated Emissions



(front view, 1GHz – 25GHz)



(rear view, 1GHz – 25GHz)

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew



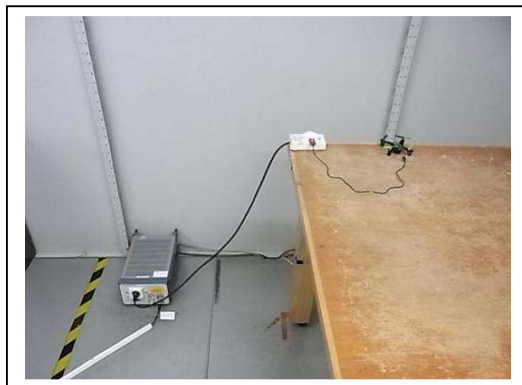
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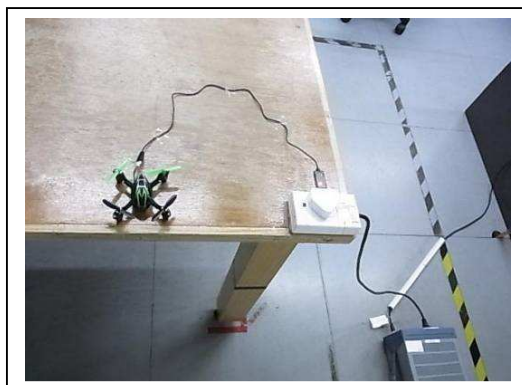
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Date : 17 Apr 2014

A2. Photos of the set-up of Conducted Emissions



(Front view)



(Rear view)

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Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

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A2. Photos of the set-up of Conducted Emissions



(Side view)

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A3. Photos of External Configurations



External Configuration 1 (without camera)



External Configuration 2 (without camera)

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Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew



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A3. Photos of External Configurations



External Configuration 3 (with camera)



External Configuration 4 (with camera)

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A3. Photos of External Configurations



External Configuration 5 (Charging cable)

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Reviewed by:

Mr. WONG Lap-pong, Andrew



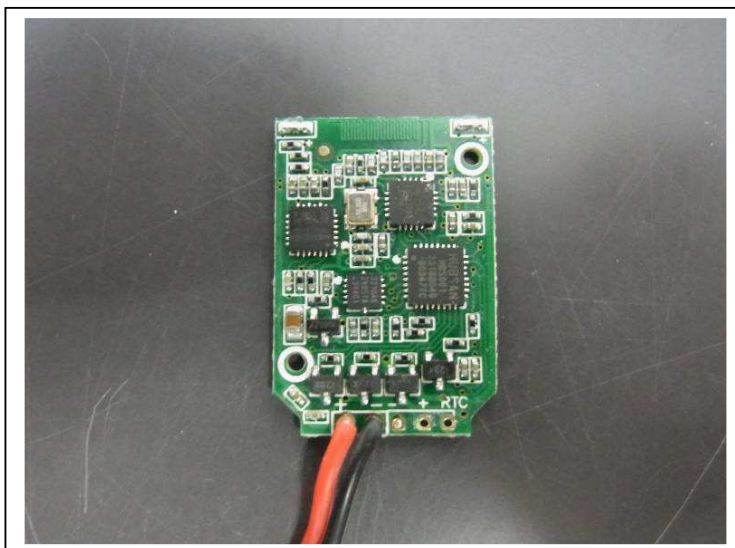
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A4. Photos of Internal Configurations



Internal Configuration 1 (Helicopter)



Internal Configuration 2 (Helicopter)

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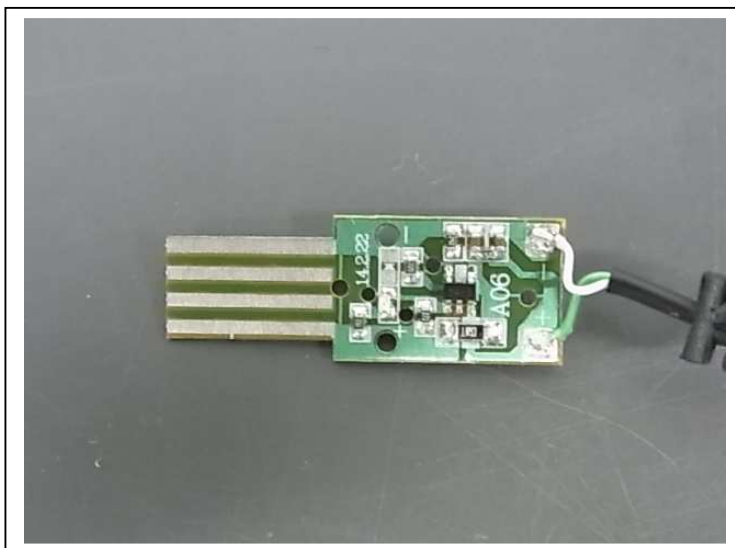
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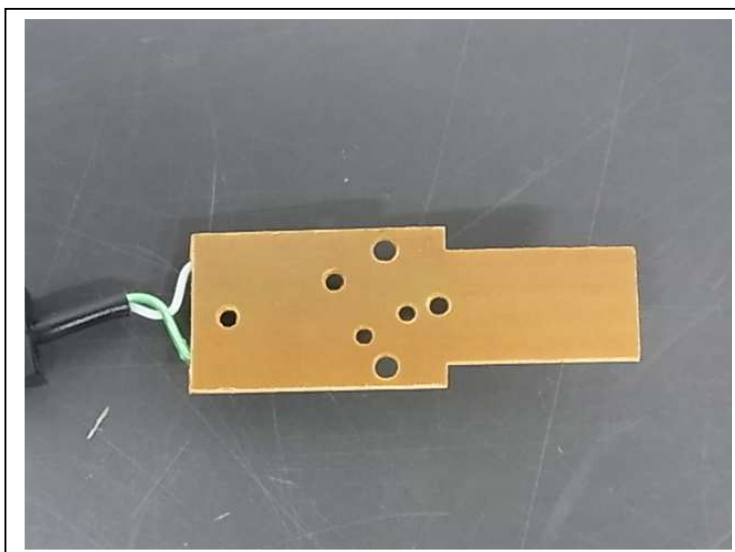
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A4. Photos of Internal Configurations



Internal Configuration 3 (Charging cable)



Internal Configuration 4 (Charging cable)

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A5. ID Label / Location



ID Label 2

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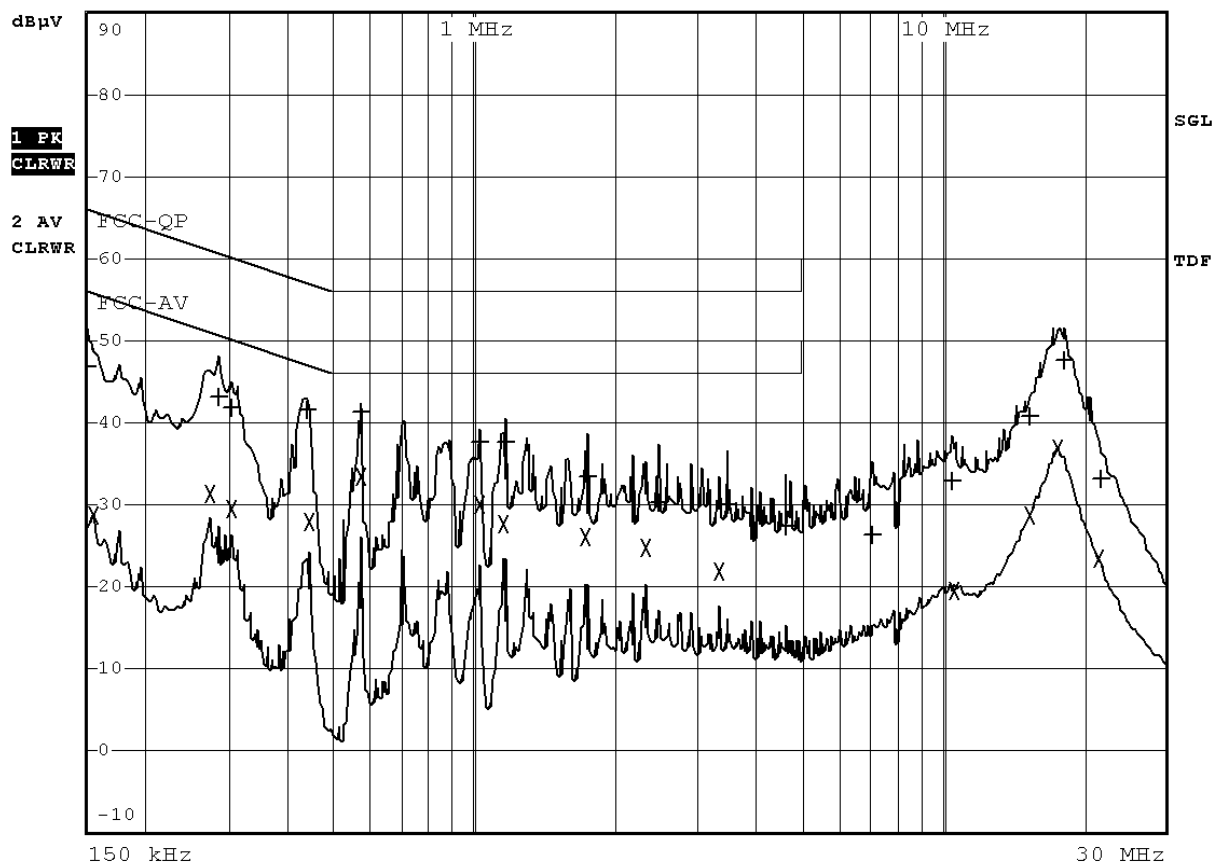
A6 Conducted Emission Measurement Date



RBW 9 kHz

MT 1 s

Att 10 dB AUTO PREAMP OFF



Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

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A6 Conducted Emission Measurement Date

EDIT PEAK LIST (Final Measurement Results)				
Trace1:	FCC-QP			
Trace2:	FCC-AV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBμV		DELTA LIMIT dB
1 Quasi Peak	150 kHz	46.76	L1 gnd	-19.23
2 Average	155 kHz	28.63	N gnd	-27.09
2 Average	275 kHz	31.24	N gnd	-19.72
1 Quasi Peak	285 kHz	43.05	N gnd	-17.61
1 Quasi Peak	305 kHz	41.93	N gnd	-18.17
2 Average	305 kHz	29.57	N gnd	-20.53
1 Quasi Peak	440 kHz	41.53	N gnd	-15.52
2 Average	445 kHz	28.00	N gnd	-18.96
1 Quasi Peak	580 kHz	41.32	N gnd	-14.67
2 Average	580 kHz	33.42	N gnd	-12.58
1 Quasi Peak	1.02 MHz	37.60	N gnd	-18.39
2 Average	1.02 MHz	29.94	N gnd	-16.05
2 Average	1.15 MHz	27.68	N gnd	-18.31
1 Quasi Peak	1.16 MHz	37.52	L1 gnd	-18.47
2 Average	1.73 MHz	26.15	N gnd	-19.84
1 Quasi Peak	1.74 MHz	33.55	L1 gnd	-22.44
2 Average	2.32 MHz	24.70	N gnd	-21.29
1 Quasi Peak	2.47 MHz	30.28	N gnd	-25.71
2 Average	3.34 MHz	21.87	N gnd	-24.12
1 Quasi Peak	3.48 MHz	30.02	N gnd	-25.97

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

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CMA Testing and Certification Laboratories

廠商會檢定中心 **TEST REPORT**

Report No. : AS0021026(0)

Date : 17 Apr 2014

A6 Conducted Emission Measurement Date

EDIT PEAK LIST (Final Measurement Results)				
Trace1:	FCC-QP			
Trace2:	FCC-AV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBμV		DELTA LIMIT dB
1 Quasi Peak	4.64 MHz	27.53	N gnd	-28.46
1 Quasi Peak	7.06 MHz	26.42	N gnd	-33.57
1 Quasi Peak	10.45 MHz	32.96	N gnd	-27.03
2 Average	10.6 MHz	19.50	L1 gnd	-30.49
2 Average	15.39 MHz	28.67	N gnd	-21.32
1 Quasi Peak	15.43 MHz	40.79	N gnd	-19.20
2 Average	17.63 MHz	36.72	N gnd	-13.27
1 Quasi Peak	18.13 MHz	47.48	N gnd	-12.51
2 Average	21.64 MHz	23.49	N gnd	-26.50
1 Quasi Peak	21.77 MHz	33.15	N gnd	-26.84

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

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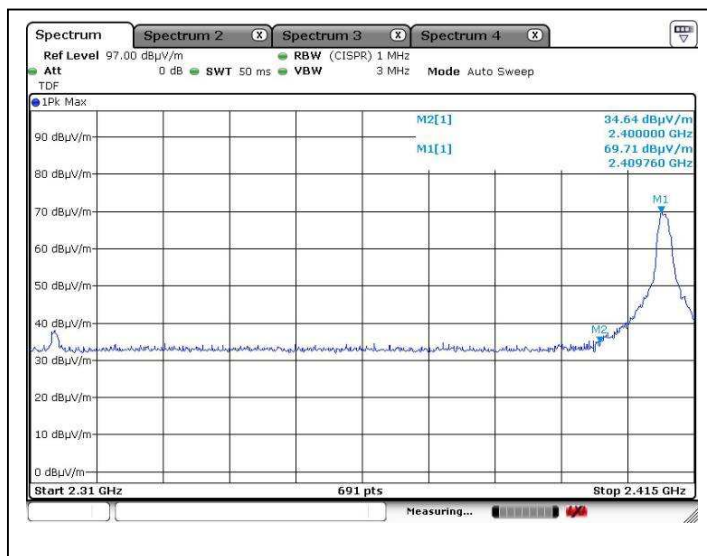
CMA Testing and Certification Laboratories

廠商會檢定中心 TEST REPORT

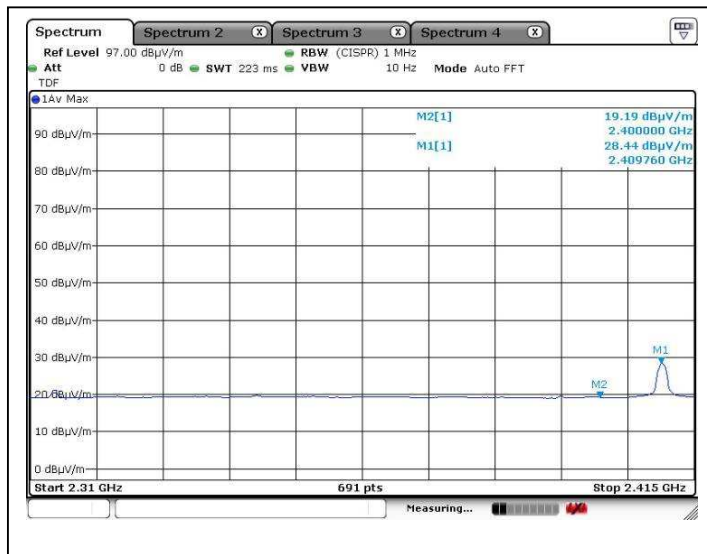
Report No. : AS0021026(0)

Date : 17 Apr 2014

A7. Band Edge



Lower edge (Peak measurement)



Lower edge (Average measurement)

Tested by:

Ken

Mr. LEUNG Shu-kan, Ken

Reviewed by:

PR

Mr. WONG Lap-pong, Andrew



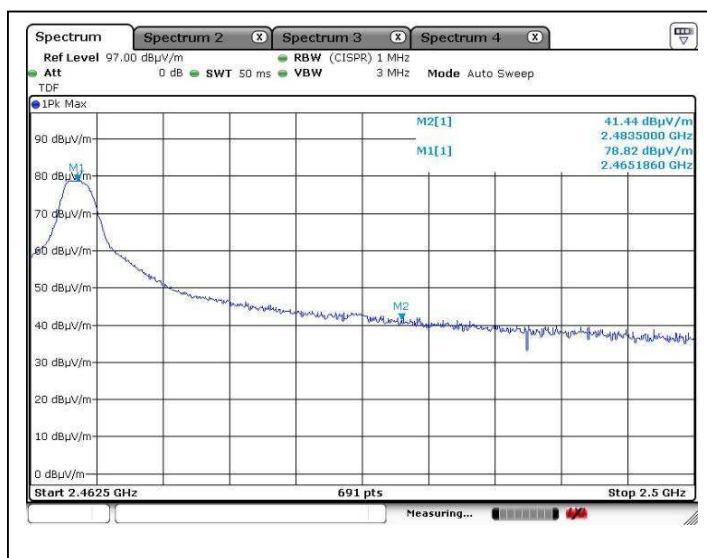
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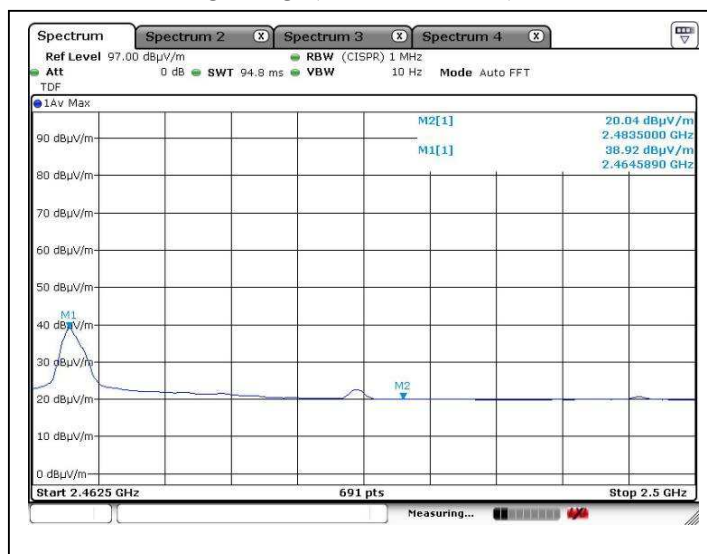
Report No. : AS0021026(0)

Date : 17 Apr 2014

A7. Band Edge



Higher edge (Peak measurement)



Higher edge (Average measurement)

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

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew