

廠商會檢定中心

TEST REPORT

Report No.	:	AU0027124(5)		Date :	16 May 2016		
Application No.	:	LU011136(1)					
Applicant	:	12F, No.190, Sec. 2, Z	I-Rocks Technology Co., Ltd 12F, No.190, Sec. 2, Zhongxing Rd., Xindian Dist., New Taipei City 23146, Taiwan				
Sample Description	:	One(1) item of submit of Model No.	tted sample stated to be	e <u>Wireless M</u>	ouse		
		I-Rock No.	SKU No.				
		IRM17R	2604602				
		Sample registration No					
		Radio Frequency	: 2408MHz – 247		ceiver		
		Rating	: 2 x 1.5V AAA s	ize batteries			
		No. of submitted samp	ple : Two (2) set (s)				
Date Received	:	31 Mar 2016					
Test Period	:	08 Apr 2016 to 13 Apr	08 Apr 2016 to 13 Apr 2016.				
Test Requested	:	FCC Part 15 Certificat	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 Subpart B and C.	was found to comply	with requirer	nent 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: UJ9IRM17R

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1 General Information

1.1 General Description

The equipment under test (EUT) is a Wireless mouse. The EUT is power by $2 \ge 1.5$ V AAA size batteries. It operates at 2408MHz – 2474MHz. It will connect with a dongle to control PC by wireless

The brief circuit description is listed as follows:

- U2	and its associated circuit act as MCU and RF circuit
- U1	and its associated circuit act as optical sensor
- U3	and its associated circuit act as flash menory
- X1	and its associated circuit act as oscillator
- SWL, SWM, SWR, BB, FB,	and its associated circuit act as control switch
DPI	

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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 2016	1Years
Coaxial Cable	Suhner	RG 214/U	N/A	18 May 2016	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 for below 1GHz measurement and 1.5m high above the ground for above 1GHz measurement. 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 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 not meet the FCC requirement

<u>Subpart B:</u> 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
Ambiant tomporatura:	24

Ambient temperature:	24	°C
Relative humidity:	80	%

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)
2480.519	V	84.1	- 4.2	79.9	114.0	- 34.1
#4816.969	Н	42.1	3.7	45.8	74.0	- 28.2
#4817.039	V	41.0	3.7	44.7	74.0	- 29.3
7225.499	Н	39.5	11.5	51.0	74.0	- 23.0
	•			• •		
2440.490	V	85.2	- 4.2	81.0	114.0	- 33.0
#4878.921	Н	41.0	3.7	44.7	74.0	- 29.3
#4881.039	V	42.2	3.7	45.9	74.0	- 28.1
#7321.379	V	38.8	11.5	50.3	74.0	- 23.7
	•			·		
2474.504	V	87.3	- 4.3	83.0	114.0	- 31.0
#4949.059	Н	37.8	4.0	41.8	74.0	- 32.2
#4949.179	V	39.0	4.0	43.0	74.0	- 31.0
#7423.439	Н	39.0	11.5	50.5	74.0	- 23.5

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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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:	24	° C
Relative humidity:	80	%

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)
	· · ·	(dBµV)	(dB/m)	(dBµV/m)	× • /	× ,
50.585	Н	7.7	10.6	18.3	40.0	- 21.7
86.151	Н	8.1	9.7	17.8	40.0	- 22.2
#134.152	Н	8.3	14.4	22.7	43.5	- 20.8
200.419	Н	8.5	12.0	20.5	43.5	- 23.0
238.229	Н	9.1	13.2	22.3	46.0	- 23.7
#275.513	Н	8.8	15.4	24.2	46.0	- 21.8
311.813	Н	8.4	16.8	25.2	46.0	- 20.8

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:	24	° C
Relative humidity:	80	%

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

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

Frequency (MHz)	Polarity (H/V)	Reading at 3m	Antenna Factor and Cable Loss	Field Strength at 3m	Limit at 3m (dBµV/m)	Margin (dB)
(10112)	(11/)	(dBµV)	(dB/m)	(dBµV/m)	(uDµ v/III)	(uD)
50.309	Н	7.8	10.6	18.4	40.0	- 21.6
87.128	Н	8.2	9.7	17.9	40.0	- 22.1
#137.840	Н	8.2	14.4	22.6	43.5	- 20.9
210.559	Н	8.2	12.0	20.2	43.5	- 23.3
#250.527	Н	8.4	15.4	23.8	46.0	- 22.2
287.748	Н	9.2	15.4	24.6	46.0	- 21.4
318.273	Н	8.7	16.8	25.5	46.0	- 20.5

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 UJ9IRM17R TSup.pdf.

4.2 Photographs of the External and Internal Configurations of the EUT

For electronic filing, the photos are saved with filename UJ9IRM17R ExPho.pdf and UJ9IRM17R 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 A7 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 A6 shows the band edge is fulfil 15.209 requirement.

5.2 EUT Antenna

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	EUT Antenna	1	page						
	A5	ID Label/Location	1	page						
	A6	Band Edge	2	pages						
	A7	20dB Bandwidth Plot	2	pages						

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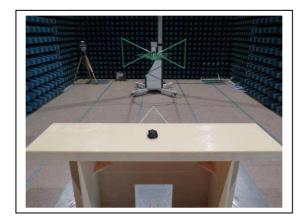


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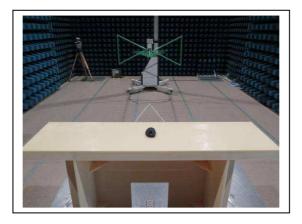
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A1. Photos of the set-up of Radiated Emissions



(Front view, 30MHz - 1GHz)



(Back view, 30MHz - 1GHz)

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Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

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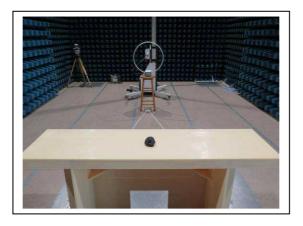
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A1. Photos of the set-up of Radiated Emissions



(Front view, 9KHz - 30MHz)



(Back view, 9KHz - 30MHz)

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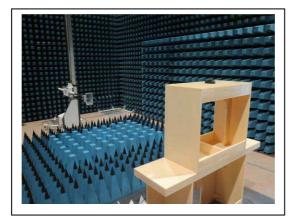
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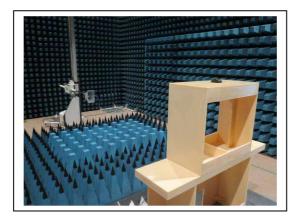
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Photos of the set-up of Radiated Emissions A1.



(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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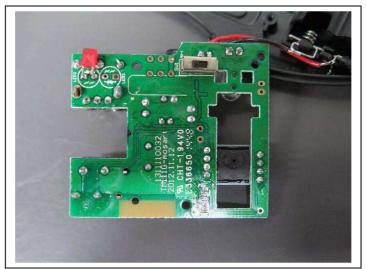
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Photos of Internal Configuration A3.



Internal Configuration 1



Internal Configuration 2

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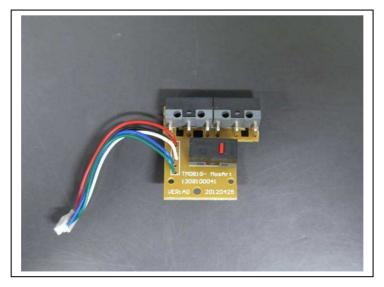
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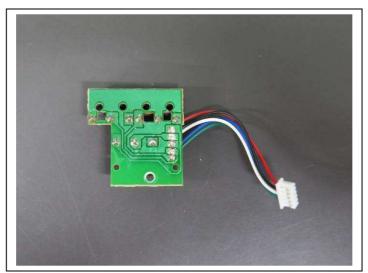
Date :

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Photos of Internal Configuration A3.



Internal Configuration 3



Internal Configuration 4

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

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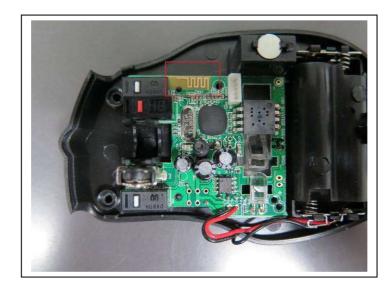


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EUT Antenna A4.



Tested by:

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Reviewed by:

Mr. WONG Lap-pong, Andrew

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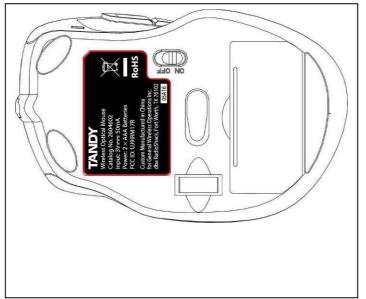
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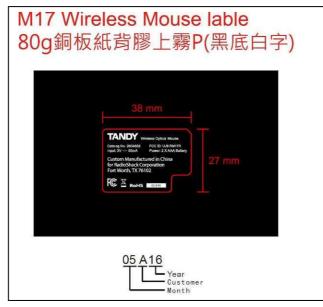
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A5. **ID** Label/Location



ID Label 1



ID Label 2

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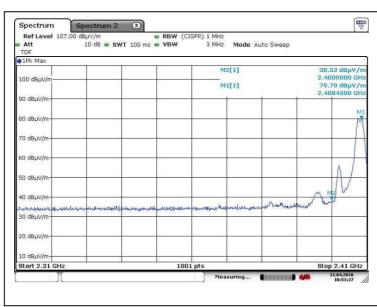
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AU0027124(5)

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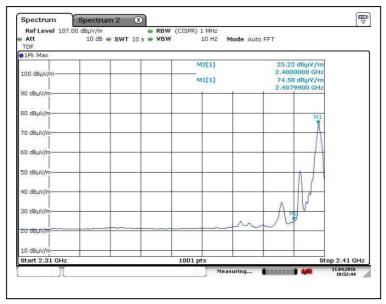
Date :

16 May 2016



A6. Band Edge

Lower edge (Peak measurement)



Lower edge (Average measurement)

Tested by:

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Reviewed by: P.C.

Mr. WONG Lap-pong, Andrew

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廠商會檢定中心

TEST REPORT

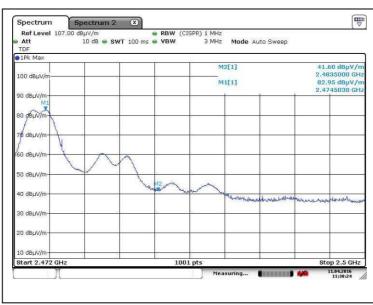
Report No.

AU0027124(5)

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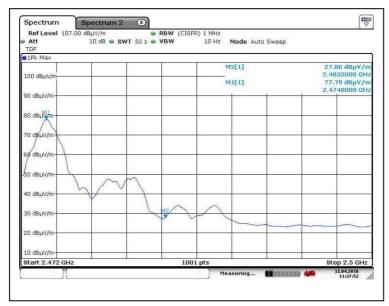
Date :

16 May 2016



A6. 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: UJ9IRM17R

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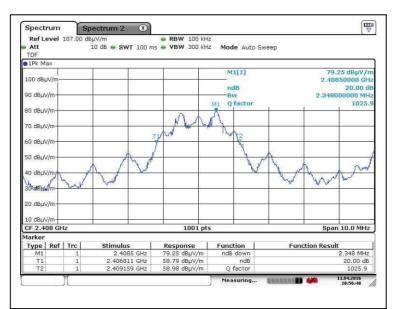
TEST REPORT

Report No.

AU0027124(5)

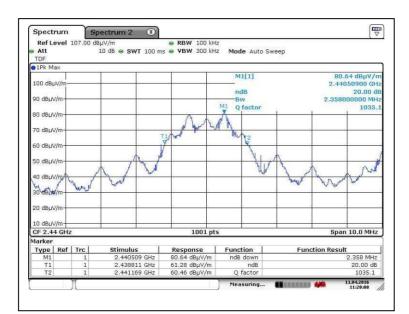
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Date : 16 May 2016



A7. 20dB Bandwidth Plot

Bandwidth 1 (2408MHz)



Bandwidth 2 (2440MHz)

Reviewed by:

Tested by:

Mr. LEUNG Shu-kan, Ken

Mr. WONG Lap-pong, Andrew

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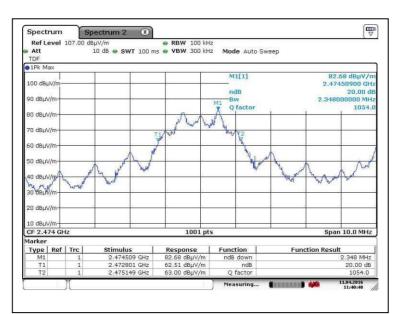
TEST REPORT

Report No.

AU0027124(5)

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Date : 16 May 2016



A7. 20dB Bandwidth Plot

Bandwidth 3 (2474MHz)

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

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Mr. LEUNG Shu-kan, Ken

Reviewed by: P.C.

Mr. WONG Lap-pong, Andrew

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