



CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AS0045935(4) Date : 04 Aug 2014

Application No. : LS024683(1)

Applicant : C-MAX Asia Limited
Room 117, 1/F, Liven House,
61-63 King Yip Street, Kwun Tong, Hong Kong

Sample Description : One(1) item of submitted sample stated to be Bluetooth Module of Model No. CMM-9301-V4.4
Sample registration No. : RS027792-001
Radio Frequency : 2402MHz – 2480 MHz Transceiver
Rating : 1 x 3V button cell
No. of submitted sample : Three (3) piece (s)

Date Received : 07 Jul 2014

Test Period : 07 Jul 2014 to 22 Jul 2014.

Test Requested : FCC Part 15 Certificate (15.249)

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 27.

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

For and on behalf of
CMA Industrial Development Foundation Limited

Authorized Signature : _____


Mr. WONG Lap-pong, Andrew
Manager
Electrical Division

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FCC ID: 2ABBXCM9301V442014



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1 General Information

1.1 General Description

The equipment under test (EUT) is a transceiver module for 2.4GHz wireless device. It is highly optimized for Bluetooth 4.0 Single Mode (Bluetooth Low Energy) link application requiring ultra low power consumption. It offers a plug and play solution for any BLE application up to the link layer, without any additional hardware nor RF layout.

The EUT is power by 3V dc. The EUT contain shielding, internal grounding and built in with a folded-dipole PCB antenna. The EUT can mount on other device through surface mount or plug in through 9-pin 1.27 mm connector.

The brief circuit description is listed as follows:

- X1 and its associated circuit act as oscillator
- Q1 and its associated circuit act as on / off switch
- L1, C9, C10 and its associated circuit act as antenna matching
- U1 and its associated circuit act as controller



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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	ESCS30	100001	21 Nov 2014	1Year
Spectrum Analyzer	R&S	FSV40	100964	17 Dec 2014	1Year
Broadband Antenna	Schaffner	CBL6112B	2718	06 Jan 2015	1Year
Loop Antenna	EMCO	6502	00056620	28 Oct 2015	1Year
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-531	09 Oct 2014	1Year
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170442	17 Jun 2015	2Years
Broadband Pre-Amplifier	Schwarzbeck	BBV 9718	9718-119	09 Oct 2014	1Year
Broadband Pre-Amplifier	Schwarzbeck	BBV 9719	9719-010	17 Jun 2015	2Years
Coaxial Cable	Schaffner	RG 213/U	N/A	06 Jan 2015	1Year
Coaxial Cable	Suhner	RG 214/U	N/A	06 Jan 2015	1Year
Coaxial Cable	Suhner	Sucoflex_102	N/A	09 Oct 2014	1Year



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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

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 meet the FCC requirement.

Subpart B

The emissions meeting 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 20 dB below limited were not reported. Thus, those higher emissions were presented on 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:	25	° C
Relative humidity:	60	%

Detector: Peak RBW: 1MHz VBW: 3MHz

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)
2401.779	V	96.9	- 6.3	90.6	114.0	- 23.4
#4803.571	H	54.7	2.4	57.1	74.0	- 16.9
7203.265	H	49.0	10.8	59.8	74.0	- 14.2
7203.263	v	46.3	10.8	57.1	74.0	- 16.9

2441.783	V	97.8	- 6.3	91.5	114.0	- 22.5
#4883.616	V	54.0	2.4	56.4	74.0	- 17.6
7323.477	V	49.5	10.8	60.3	74.0	- 13.7
7323.478	H	47.3	10.8	58.1	74.0	- 15.9

2479.804	V	97.4	- 6.3	91.1	114.0	- 22.9
#4959.638	H	53.2	2.4	55.6	74.0	- 18.4
#4959.645	V	45.5	2.4	56.3	74.0	- 17.7
#7437.670	V	45.0	10.8	55.8	74.0	- 18.2

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:	25	° C
Relative humidity:	60	%

Detector: Average RBW: 1MHz VBW: 10Hz

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)
2401.888	V	40.3	- 6.3	34.0	94.0	- 60.0
#4803.832	H	28.6	2.4	31.0	54.0	- 23.0
7205.476	V	22.9	10.8	33.7	54.0	- 20.3
7205.479	H	23.5	10.8	34.3	54.0	- 19.7
2441.898	V	40.9	- 6.3	34.6	94.0	- 59.4
#4883.836	V	28.4	2.4	30.8	54.0	- 23.2
7325.474	V	23.8	10.8	34.6	54.0	- 19.4
7325.504	H	23.4	10.8	34.2	54.0	- 19.8
2479.877	V	40.9	- 6.3	34.6	94.0	- 59.4
#4959.840	H	28.1	2.4	30.5	54.0	- 23.5
#4959.840	V	19.9	2.4	30.7	54.0	- 23.3
#7439.486	V	22.6	10.8	33.4	54.0	- 20.6

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:	25	° C
Relative humidity:	60	%

For below 1GHz

Detector: Quasi-peak, RBW: 120KHz, VBW: 300KHz

For above 1GHz

Detector: Peak, RBW: 1MHz, VBW: 3MHz

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)
231.615	H	10.8	13.2	24.0	46.0	- 22.0
285.715	H	9.5	15.4	24.9	46.0	- 21.1
313.653	H	8.6	16.8	25.4	46.0	- 20.6
372.219	H	11.2	16.8	28.0	46.0	- 18.0
4799.945	H	39.9	2.0	41.9	74.0	- 32.1
4799.971	V	40.8	2.0	42.8	74.0	- 31.2
4876.003	V	40.7	2.0	42.7	74.0	- 31.3
4876.003	H	40.6	2.0	42.6	74.0	- 31.4
4955.900	H	40.8	2.0	42.8	74.0	- 31.2
4955.914	V	40.8	2.0	42.8	74.0	- 31.2

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 C63.4 – 2009. 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 TSup1.jpg to TSup8.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 ExPho4.jpg and InPho1.jpg to InPho2.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 TestRpt2.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.

The plot saved in TestRpt3.pdf shows the band edge is fulfil 15.209 requirement.

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

A1	Photos of the set-up of Radiated Emissions	4	pages
A2	Photos of External Configurations	2	pages
A3	Photos of Internal Configurations	1	page
A4	ID Label/Location	1	page
A5	Band Edge	2	pages
A6	20dB Bandwidth Plot	2	pages



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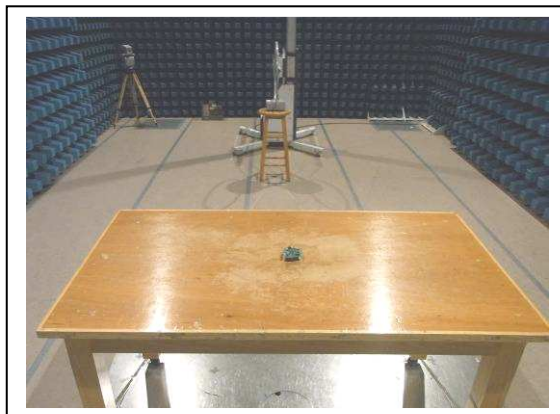
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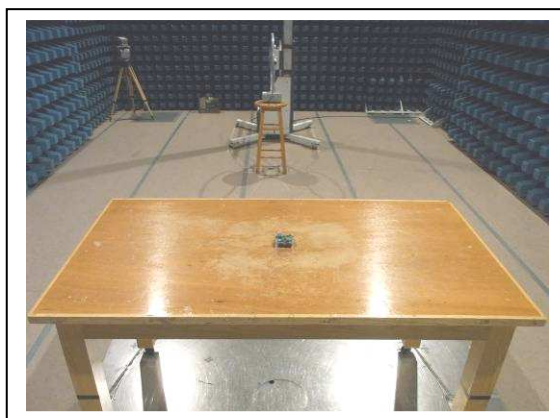
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A1. Photos of the set-up of Radiated Emissions



(Front view, 9KHz – 30MHz)



(Back view, 9KHz – 30MHz)

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Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

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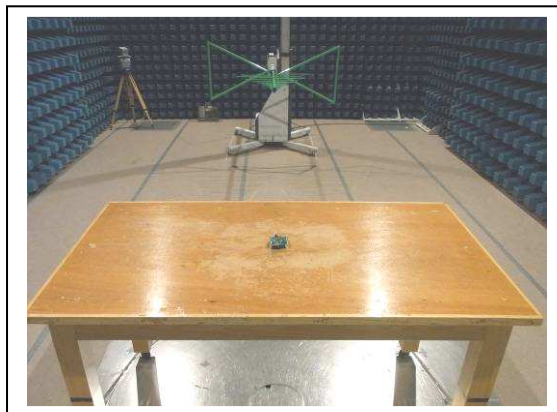
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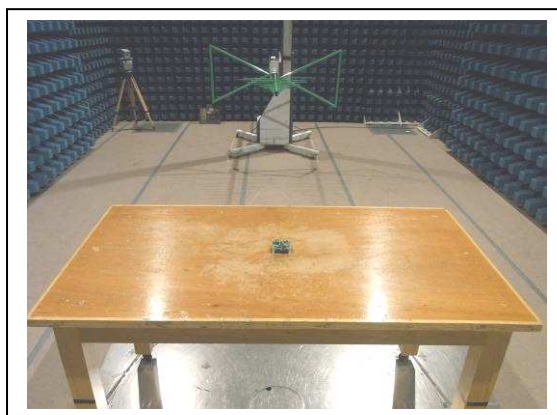
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A1. Photos of the set-up of Radiated Emissions



(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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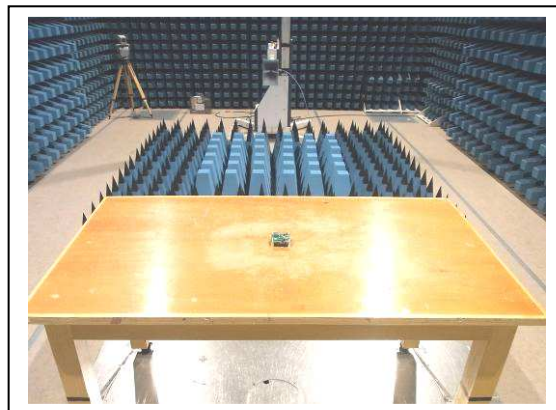
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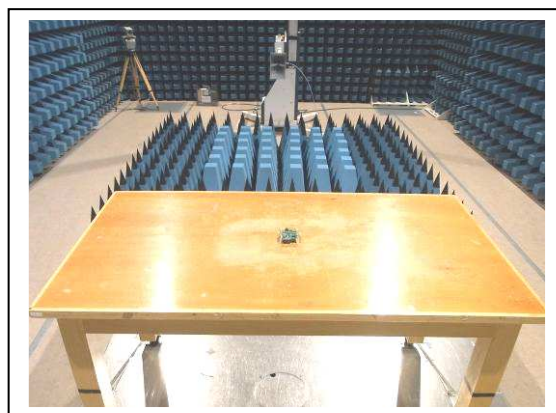
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A1. Photos of the set-up of Radiated Emissions



(Front view, above 1GHz)



(Back view, above 1GHz)

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Reviewed by:

Mr. WONG Lap-pong, Andrew



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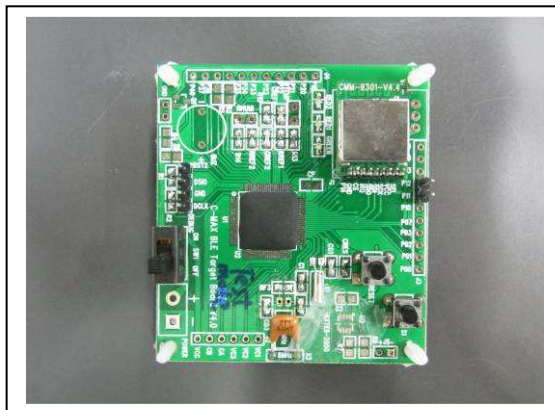
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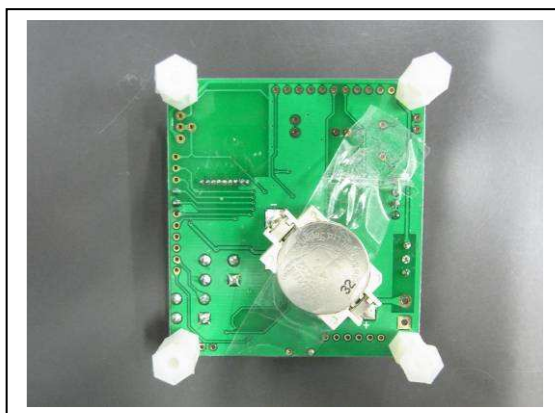
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A1. Photos of the set-up of Radiated Emissions



(Top view, EUT with evaluation board)



(Back view, EUT with evaluation board)

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A2 Photos of External Configurations



External Configuration 1 (Module with pin header)



External Configuration 2 (Module with pin header)

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A2 Photos of External Configurations



External Configuration 3 (Module without pin header)



External Configuration 4 (Module without pin header)

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A3. Photos of Internal Configurations



Internal Configuration 1 (with pin header)



Internal Configuration 2 (without pin header)

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A4. ID Label / Location



ID Label 1 (with pin header)



ID Label 2 (without pin header)

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Mr. LEUNG Shu-kan, Ken

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Mr. WONG Lap-pong, Andrew



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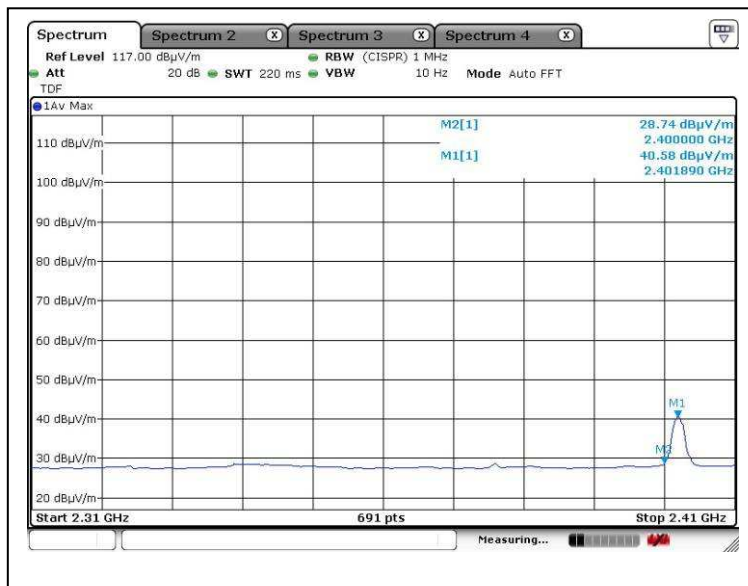
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A5. Band Edge



Lower edge (Peak measurement)



Lower edge (Average measurement)

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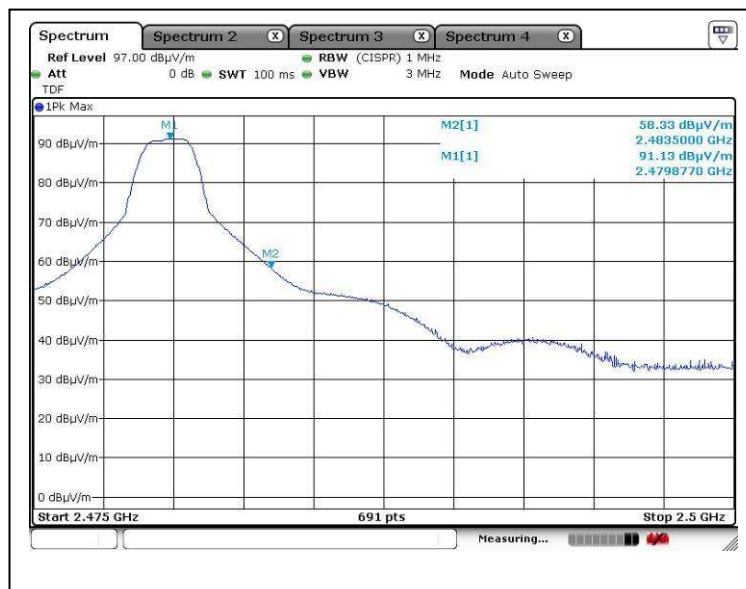
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TEST REPORT

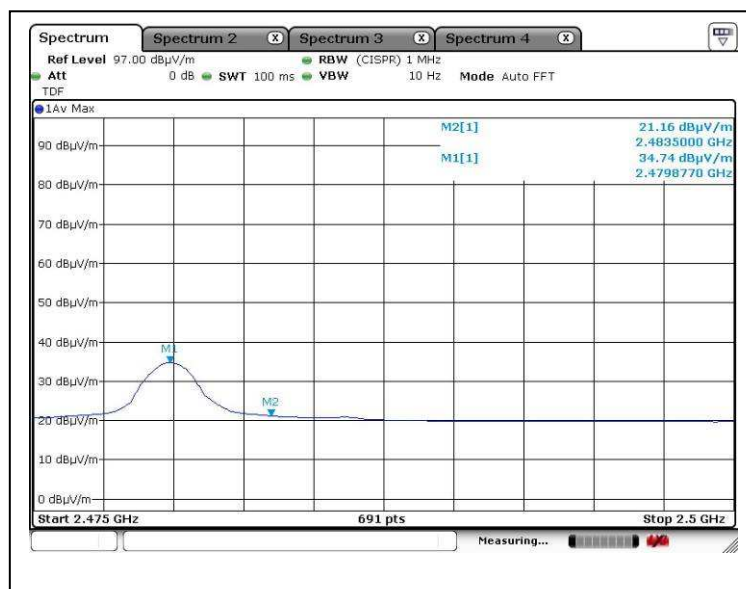
Report No. : AS0045935(4)

Date : 04 Aug 2014

A5. Band Edge



Higher edge (Peak measurement)



Higher edge (Average measurement)

Tested by:

Ken

Mr. LEUNG Shu-kan, Ken

Reviewed by:

PR

Mr. WONG Lap-pong, Andrew

FCC ID: 2AABXCM9301V442014

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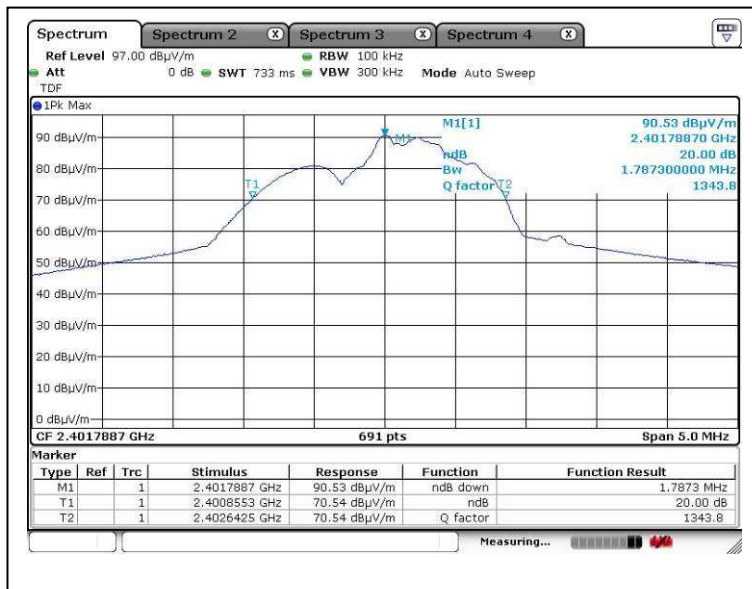
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TEST REPORT

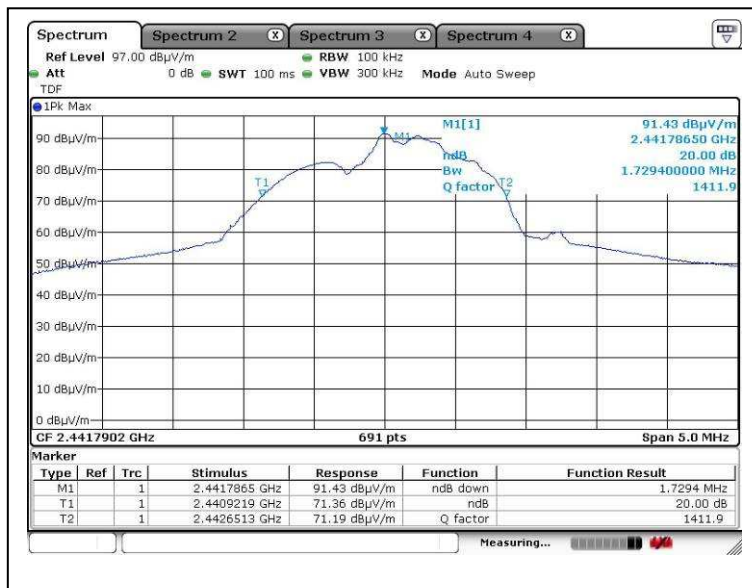
Report No. : AS0045935(4)

Date : 04 Aug 2014

A6. 20dB Bandwidth Plot



Bandwidth 1 (2402MHz)



Bandwidth 2 (2442MHz)

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

FCC ID: 2AABXCM9301V442014

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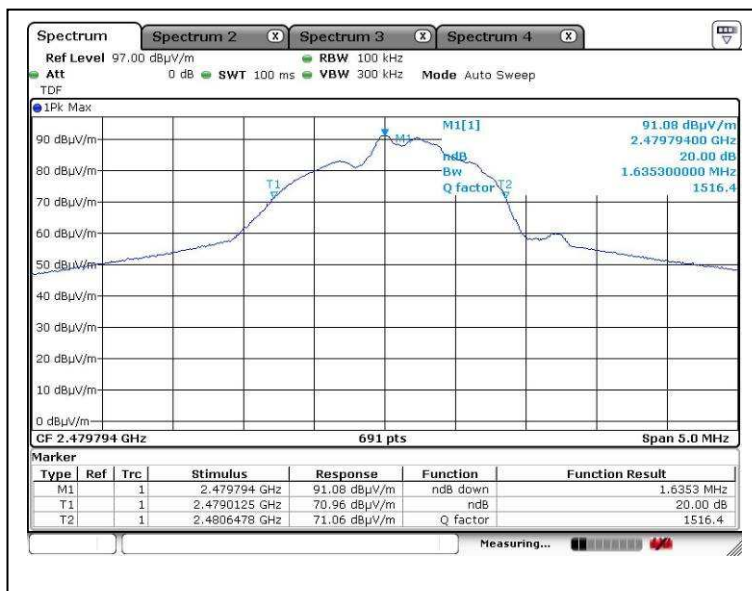
廠商會檢定中心

TEST REPORT

Report No. : AS0045935(4)

Date : 04 Aug 2014

A6. 20dB Bandwidth Plot



Bandwidth 3 (2480MHz)

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

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

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