CMA Testing and Certification Laboratories
廠商會檢定中心

TEST REPORT

Report No. : AT0035784(5) Date : 29 May 2015

Application No. : LT024333(4)

Applicant : Asian Express Holdings Limited
4F,-4, No.669 Jingping Rd., Zhonghe City, TaiPei county 235
Taiwan R.O.C, Taiwan

Client : Asian Express Holdings Limited
Rm804 Sino Centre,582-592 Nathan Road,
Mongkok, Kowloon, Hong Kong.

Sample Description : One(1) item of submitted sample stated to be

Sample Description	Model No.
Small Laser League (3XAAA), Small Laser Force (recharge), Large Laser Force (2XAA), Large Laser Force	TK-0520 / TK-0521 / TK-0523 / TK-0526 / TK-0527 / TK-0530 / TK-0534

Sample registration No. : RT019378-001
Radio Frequency : 2402MHz – 2480 MHz Transceiver
Rating : 2 x 1.5V AAA size batteries
No. of submitted sample : Four (4) set(s)

Date Received : 23 Apr 2015, 05 May 2015
Test Period : 06 May 2015 to 15 May 2015.
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 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 : _____ Page 1 of 27
Mr. WONG Lap-pong, Andrew
Manager
Electrical Division

FCC ID: VLE0530-T

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TEST REPORT

Report No. : AT0035784(5) Date : 29 May 2015

Remark : All seven models are the same in circuitry and components; and therefore model TK-0530 was chosen to be the representative of the test sample. The difference between the tested model and the declared model(s) is/are the Model no. and Color

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Tel: (852) 2698 8198 Fax: (852) 2695 4177 E-mail: info@cmatcl.com Web Site: http://www.cmatcl.com

TEST REPORT

Report No. : AT0035784(5) Date : 29 May 2015

Table of Contents

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TEST REPORT

Report No. : AT0035784(5) Date : 29 May 2015

1 General Information

1.1 General Description

The equipment under test (EUT) is a controller for tank. The EUT is power by 2 x 1.5V AA size batteries. It operates at 2402MHz – 2480MHz. There are buttons and two joysticks. When the buttons are pressed or joysticks are moved, there are radio signals transmitting to receiver.

The brief circuit description is listed as follows:

- IC1	and its associated circuit act as MCU and RF circuit
- Y1	and its associated circuit act as oscillator
- K1, K2, K3, K4, K5, K6, K7, K8, K9, K10	and its associated circuit act as tank control

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TEST REPORT

Report No. : AT0035784(5) Date : 29 May 2015

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,
Fo Tan, Shatin,
New Territories,
Hong Kong.

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TEST REPORT

Report No. : AT0035784(5) Date : 29 May 2015

1.3 List of measuring equipment

Equipment	Manufacturer	Model No.	Serial No.	Calibration Due Date	Calibration Period
EMI Test Receiver	R&S	ESCI	100152	28 Aug 2015	1Year
Spectrum Analyzer	R&S	FSV40	100628	02 Feb 2016	1Year
Broadband Antenna	Schaffner	CBL6112B	2718	19 Feb 2016	2Years
Loop Antenna	EMCO	6502	00056620	28 Oct 2015	2Years
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-531	24 Nov 2016	2Years
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170442	24 Nov 2016	2Years
Broadband Pre-Amplifier	Schwarzbeck	BBV 9718	9718-119	18 Jun 2015	2Years
Broadband Pre-Amplifier	Schwarzbeck	BBV 9719	9719-010	17 Jun 2015	2Years
Coaxial Cable	Schaffner	RG 213/U	N/A	19 Feb 2016	1Years
Coaxial Cable	Suhner	RG 214/U	N/A	19 Feb 2016	1Years
Coaxial Cable	Suhner	Sucoflex_104	N/A	24 Nov 2016	2Years

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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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TEST REPORT

Report No. : AT0035784(5) Date : 29 May 2015

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 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 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.

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

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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TEST REPORT

Report No. : AT0035784(5) Date : 29 May 2015

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:	70	%

Measurement: Peak RBW: 1MHz VBW: 3MHz Operation Mode: Transmission
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	2401.815	V	100.7	- 4.1	96.6	114.0	- 17.4
	#4803.649	V	58.1	3.8	61.9	74.0	- 12.1
	#4803.661	H	58.9	3.8	62.7	74.0	- 11.3
	7205.480	H	45.3	11.7	57.0	74.0	- 17.0
Middle	2439.833	V	99.3	- 4.1	95.2	114.0	- 18.8
	#4879.623	V	54.6	3.8	58.4	74.0	- 15.6
	#4879.631	H	52.3	3.8	56.1	74.0	- 17.9
	#7319.511	H	45.5	11.7	57.2	74.0	- 16.8
High	2479.876	V	98.6	- 4.3	94.3	114.0	- 19.7
	#4959.718	H	53.7	4.1	57.8	74.0	- 16.2
	#4959.722	V	52.3	4.1	56.4	74.0	- 17.6
	#7439.415	H	44.3	11.7	56.0	74.0	- 18.0

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

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TEST REPORT

Report No. : AT0035784(5) Date : 29 May 2015

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:	70	%

Measurement: Average RBW: 1MHz VBW: 10Hz Operation Mode: Transmission
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	2401.959	V	66.8	- 4.1	62.7	94.0	- 31.3
	#4803.748	H	29.6	3.8	33.4	54.0	- 20.6
	#4803.768	V	29.0	3.8	32.8	54.0	- 21.2
	7205.608	H	23.8	11.7	35.5	54.0	- 18.5
Middle	2439.927	V	65.2	- 4.1	61.1	94.0	- 32.9
	#4879.739	V	27.8	3.8	31.6	54.0	- 22.4
	#4879.797	H	27.3	3.8	31.1	54.0	- 22.9
	#7319.581	H	24.2	11.7	35.9	54.0	- 18.1
High	2479.888	V	64.2	- 4.3	59.9	94.0	- 34.1
	#4959.715	V	26.7	4.1	30.8	54.0	- 23.2
	#4959.747	H	27.3	4.1	31.4	54.0	- 22.6
	#7439.577	H	24.5	11.7	36.2	54.0	- 17.8

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

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TEST REPORT

Report No. : AT0035784(5) Date : 29 May 2015

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:	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 (dBμV)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
49.184	H	5.2	12.4	17.6	40.0	- 22.4
93.331	H	6.0	12.2	18.2	43.5	- 25.3
#133.678	H	7.1	13.8	20.9	43.5	- 22.6
173.351	H	6.8	12.1	18.9	43.5	- 24.6
226.515	H	8.0	11.3	19.3	46.0	- 26.7
#270.672	H	8.0	15.1	23.1	46.0	- 22.9
311.616	H	7.9	16.5	24.4	46.0	- 21.6

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

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TEST REPORT

Report No. : AT0035784(5) Date : 29 May 2015

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:	25	° C
Relative humidity:	70	%

Detector: Quasi-peak
RBW: 120kHz
VBW: 300kHz
Testing frequency range: 9kHz to 25GHz Operation mode: Receiving

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)
54.289	H	5.6	10.0	15.6	40.0	- 24.4
88.228	H	6.4	10.8	17.2	43.5	- 26.3
#124.066	H	7.4	13.8	21.2	43.5	- 22.3
#164.428	H	7.3	12.1	19.4	43.5	- 24.1
207.966	H	6.9	11.6	18.5	43.5	- 27.5
#258.521	H	7.6	15.1	22.7	46.0	- 23.3
319.292	H	7.6	16.5	24.1	46.0	- 21.9

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

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TEST REPORT

Report No. : AT0035784(5) Date : 29 May 2015

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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TEST REPORT

Report No. : AT0035784(5) Date : 29 May 2015

4 Photograph

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

For electronic filing, the photos are saved with filename VLE0530-T TSup.pdf.

4.2 Photographs of the External and Internal Configurations of the EUT

For electronic filing, the photos are saved with filename VLE0530-T ExPho.pdf and VLE0530-T InPho. pdf.

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TEST REPORT

Report No. : AT0035784(5) Date : 29 May 2015

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.

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TEST REPORT

Report No. : AT0035784(5) Date : 29 May 2015

6 Appendices

A1	Photos of the set-up of Radiated Emissions	3	pages
A2	Photos of External Configurations	1	page
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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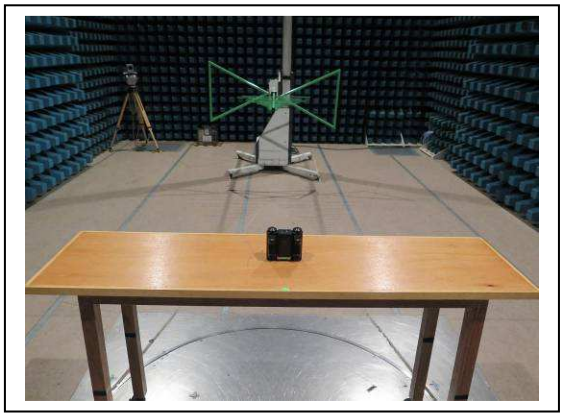
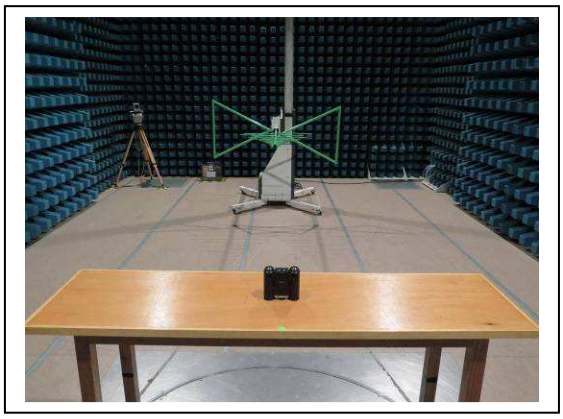
TEST REPORT

Report No. : AT0035784(5) Date : 29 May 2015

A1. Photos of the set-up of Radiated Emissions



(Front view, 30MHz – 1GHz)



(Back view, 30HMz – 1GHz)

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

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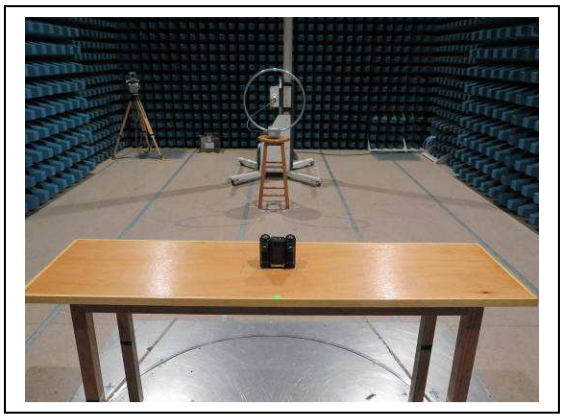
TEST REPORT

Report No. : AT0035784(5) Date : 29 May 2015

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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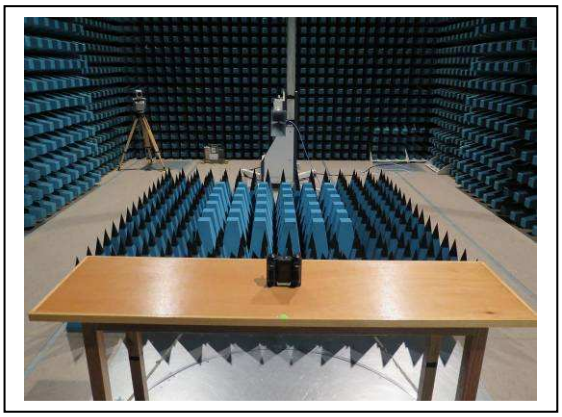
TEST REPORT

Report No. : AT0035784(5) Date : 29 May 2015

A1. Photos of the set-up of Radiated Emissions

(Front view, 1GHz – 25GHz)



(Back view, above 1GHz – 25GHz)

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

FCC ID: VLE0530-T

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Tel: (852) 2698 8198 Fax: (852) 2695 4177 E-mail: info@cmatcl.com Web Site: http://www.cmatcl.com

TEST REPORT

Report No. : AT0035784(5) Date : 29 May 2015

A2 Photos of External Configurations

(External Configuration 1)

(External Configuration 2)

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

FCC ID: VLE0530-T

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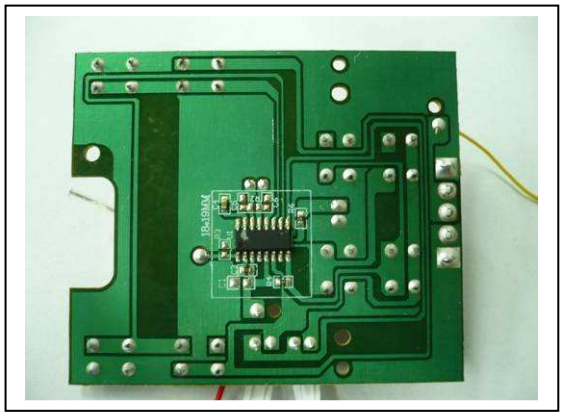
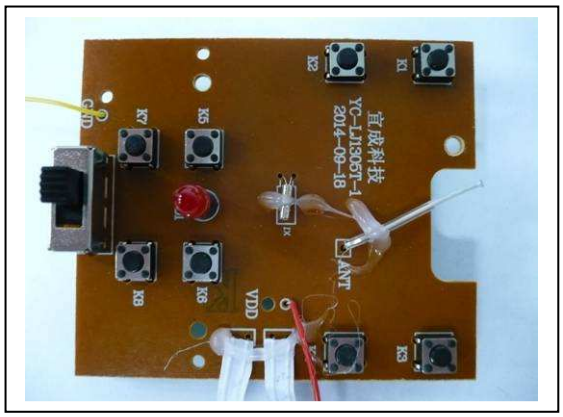
TEST REPORT

Report No. : AT0035784(5) Date : 29 May 2015

A3. Photos of Internal Configurations



Internal Configuration 1



Internal Configuration 2

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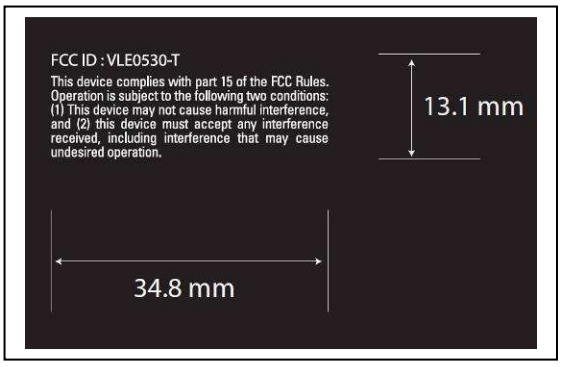
A4. ID Label / Location

ID Label 1



ID Label 2

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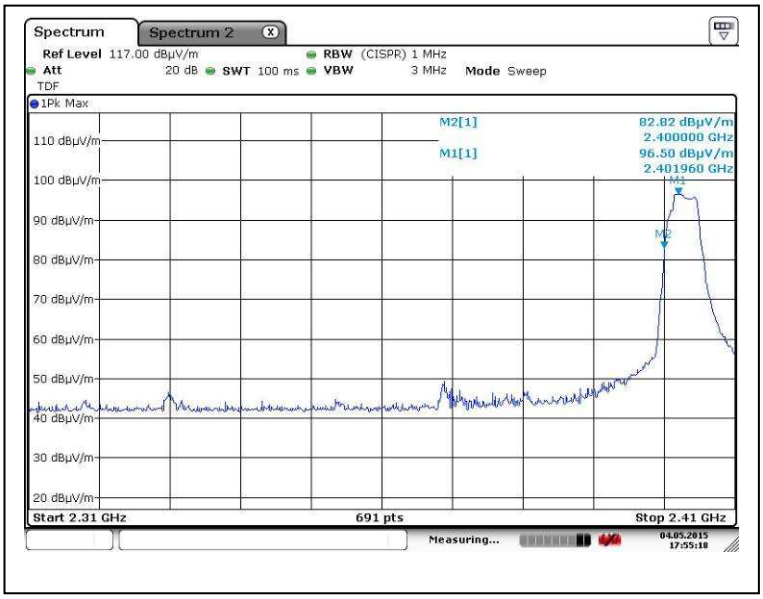
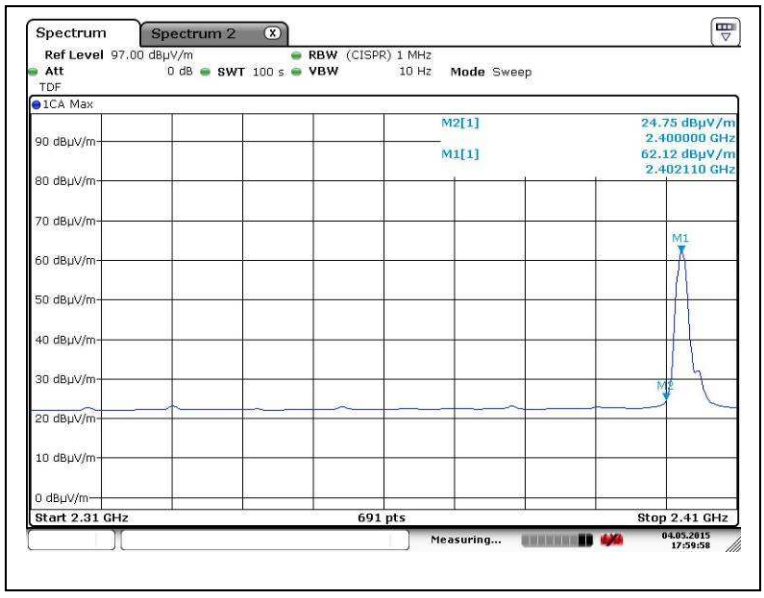
A5. Band Edge



Lower edge (Peak measurement)



Lower edge (Average measurement)

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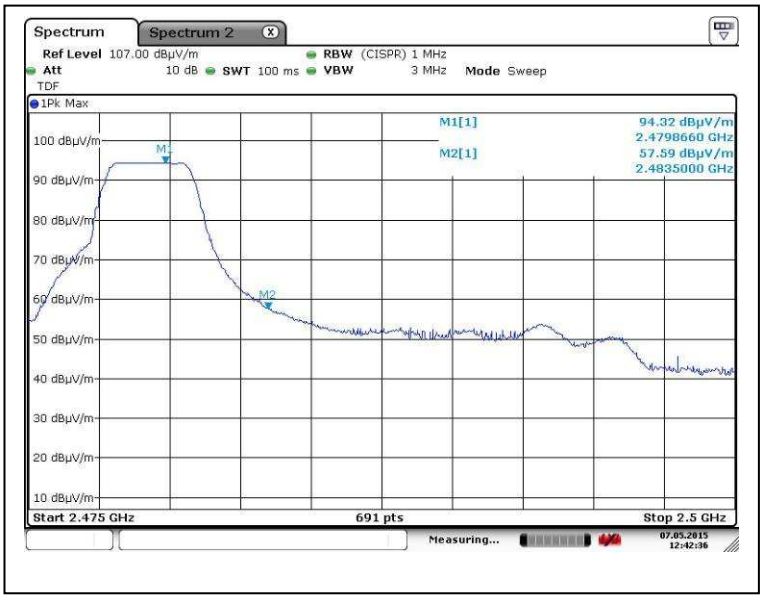
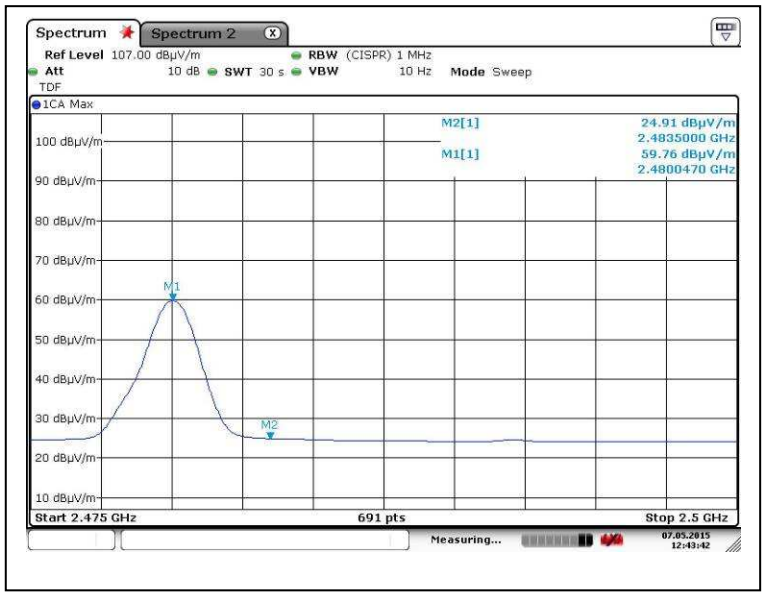
A5. Band Edge



Higher edge (Peak measurement)



Higher edge (Average measurement)

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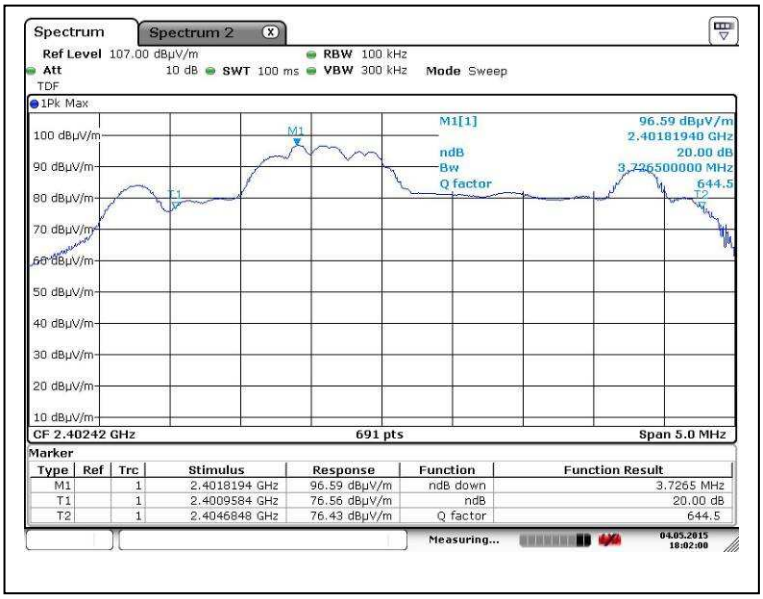
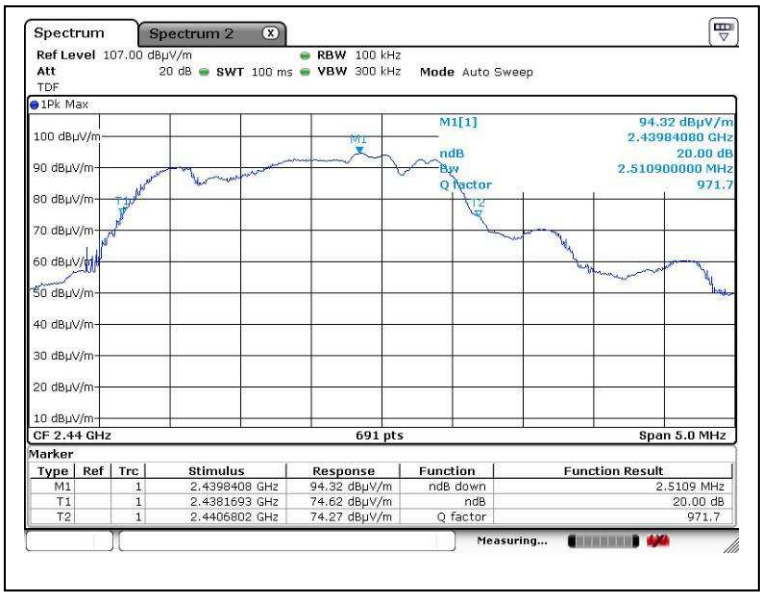
A6. 20dB Bandwidth Plot



Bandwidth 1 (2402MHz)



Bandwidth 2 (2440MHz)

Tested by: Reviewed by:

Mr. LEUNG Shu-kan, Ken Mr. WONG Lap-pong, Andrew

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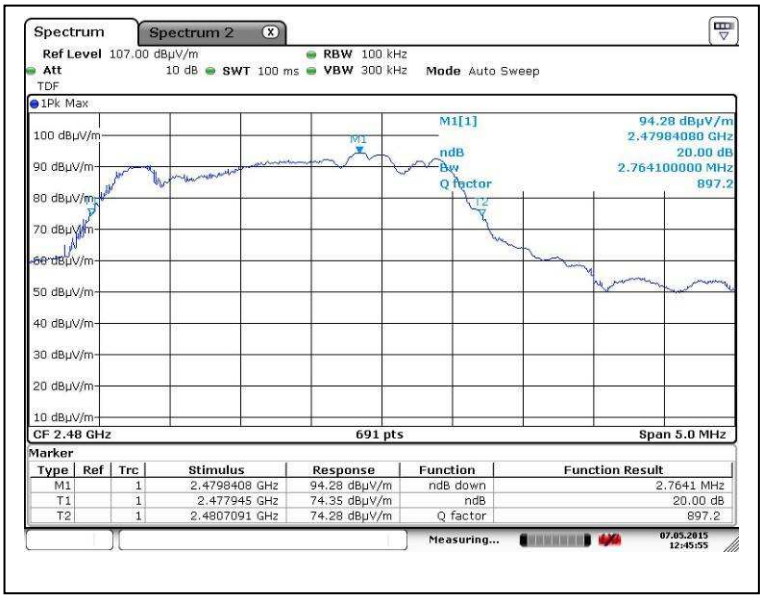
TEST REPORT

Report No. : AT0035784(5) Date : 29 May 2015

A6. 20dB Bandwidth Plot



Bandwidth 3 (2480MHz)

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

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Reviewed by: Mr. WONG Lap-pong, Andrew

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