

# FCC Test Report No. 160802477SHA-001

Applicant : Pomo House International Pte. Ltd.

Level 24, CapitaGreen 138 Market Street,

Singapore 048946

Manufacturer : Hangzhou GuangFa electrical Co., LTD.

5F, Liantang river village, Sandun town, Xihu District, Hangzhou, Zhejiang Province, China

Product Name : POMO Bebe

Type/Model: BB01a

TEST RESULT : PASS

#### **SUMMARY**

Jesse X4

The equipment complies with the requirements according to the following standard(s) or specification:

**47CFR Part 15 (2014):** Radio Frequency Devices (Subpart C)

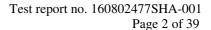
**ANSI C63.10 (2013):** American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

Date of issue: Aug 31, 2016

Prepared by: Reviewed by:

Jesse Xu (*Project Engineer*)

Daniel Zhao (Reviewer)





# **Description of Test Facility**

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## 1 GENERAL INFORMATION

## 1.1 Description of Client

Applicant : Pomo House International Pte. Ltd.

Level 24, CapitaGreen 138 Market Street, Singapore

048946

Name of contact : Pat Srivilai

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Manufacturer : Hangzhou GuangFa electrical Co., LTD.

5F, Liantang river village, Sandun town, Xihu District,

Hangzhou, Zhejiang Province, China

## 1.2 Identification of the EUT

Product Name : POMO Bebe

Type/model: BB01a

FCC ID :2AJM8-POMO1



## 1.3 Technical Specification

Operation Frequency : 2402-2480MHz

Band

Type of Modulation : GFSK

Channel Number: 40 (0-39)

Description of EUT : The EUT is designed for young parents which supports

BT function, and it has only one model, we tested it and

listed the BLE result in this report.

Antenna : PCB antenna

Rating : Input:5V DC 1A or Battery 3.7V 90mA

Declared Temperature :  $-20^{\circ}$ C ~  $100^{\circ}$ C

range

Category of EUT : Class B

EUT type : X Table top

Floor standing

Software applied : SSCOM3.2

Sample received date : Aug 18, 2016

Date of test : Aug 20, 2016 ~Aug 31, 2016



# 2 TEST SPECIFICATIONS

## 2.1 Standards or specification

47CFR Part 15 (2014) ANSI C63.10 (2013)

## 2.2 Mode of operation during the test

While testing transmitting mode of EUT, the internal modulation and continuously transmission was applied.

## 2.3 Test software list

Test Items	Software	Manufacturer	Version
Conducted emission	ESxS-K1	R&S	V2.1.0
Radiated emission	ES-K1	R&S	V1.71

## 2.4 Test peripherals list

Item No.	Name	Band and Model	Description
PC	HP ProBook 6450b	НР	-



## 2.5 Instrument list

Equipment	Туре	Manu.	Internal no.	Cal. Date	Due date
Test Receiver	ESCS 30	R&S	EC 2107	2015-10-21	2016-10-20
Test Receiver	ESIB 26	R&S	EC 3045	2015-10-20	2016-10-19
Test Receiver	ESCI 7	R&S	EC4501	2015-12-29	2016-12-28
Spectrum Analyzer	N9010	Agilent	EC4890	2015-10-21	2016-10-20
Spectrum Analyzer	E4446	Agilent	1	2015-10-21	2016-10-20
Power meter	ML 2495A	Anritsu	EC 4895	2015-10-21	2016-10-20
A.M.N.	ESH2-Z5	R&S	EC 3119	2016-1-9	2017-1-8
Bilog Antenna	CBL 6112D	TESEQ	EC 4206	2016-5-15	2017-5-14
Horn antenna	HF 906	R&S	EC 3049	2016-5-12	2017-5-11
Pre-amplifier	Pre-amp 18	R&S	EC 3222	2016-4-11	2017-4-10
Pre-amplifier	Tpa0118-40	R&S	EC 4792-2	2016-4-11	2017-4-10
Log-period antenna	AT 1080	AR	EC 3044-7	2016-5-21	2017-5-20
Biconical antenna	3109PX	ETS	EC3564	2016-8-25	2017-8-24
Semi-anechoic chamber	-	Albatross project	EC 3048	2016-5-20	2017-5-19
Shielded room	-	Zhongyu	EC 2838	2016-1-12	2017-1-11
Shielded room	-	Zhongyu	EC 2839	2016-1-12	2017-1-11
High Pass Filter	WHKX 1.0/15G- 10SS	Wainwright	EC4297-1	2016-2-1	2017-1-31
High Pass Filter	WHKX 2.8/18G- 12SS	Wainwright	EC4297-2	2016-2-1	2017-1-31
High Pass Filter	WHKX 7.0/1.8G-8SS	Wainwright	EC4297-3	2016-2-1	2017-1-31
Band Reject Filter	WRCGV 2400/2483- 2390/2493- 35/10SS	Wainwright	EC4297-4	2016-2-1	2017-1-31
MXG Analog Signal Generator	N5181A	KEYSIGHT	EC5338-2	2015-11-7	2016-11-6
MXG Vector Signal Generator	N51812B	KEYSIGHT	EC5175	2015-12-30	2016-12-29
Power sensor	U2021XA	KEYSIGHT	EC5338-1	2015-10-2	2016-10-1
PXA Signal Analyzer	N9030A	KEYSIGHT	EC5338	2015-11-18	2016-11-17



## 2.6 Test Summary

This report applies to tested sample only. The test results have been compared directly with the limits, and the measurement uncertainty is recorded. This report shall not be reproduced in part without written approval of Intertek Testing Service Shanghai Limited.

TEST ITEM	FCC REFERANCE	IC REFERANCE	RESULT
Minimum 6dB Bandwidth & Occupied bandwidth	15.247(a)(2)	-	Pass
Maximum peak output power	15.247(b)	-	Pass
Power spectrum density	15.247(e)	-	Pass
Radiated emission	15.205 & 15.209	-	Pass
Emission outside the frequency band	15.247(d)	-	Pass
Power line conducted emission	15.207	-	NA
Occupied bandwidth	-	-	NA

Notes: 1: NA =Not Applicable



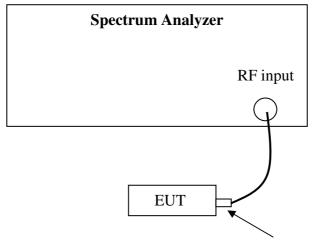
#### 3 Minimum 6dB Bandwidth

Test result: Pass

#### 3.1 Limit

For systems using digital modulation techniques that may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz bands, the minimum 6 dB bandwidth shall be at least 500 kHz.

#### 3.2 Test Configuration



Antenna connector

#### 3.3 Test Procedure and test setup

The minimum 6dB bandwidth per FCC §15.247(a)(2) is measured using the Spectrum Analyzer according to DTS test procedure of "KDB558074 D01 DTS Meas Guidance v03r03" for compliance to FCC 47CFR 15.247 requirements(clause 8.2).

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth  $(VBW) \ge 3 \times RBW$ .
- c) Detector = Peak.
- d) Trace mode =  $\max$  hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



## 3.4 Test Protocol

Temperature: 24 °C Relative Humidity: 52 %

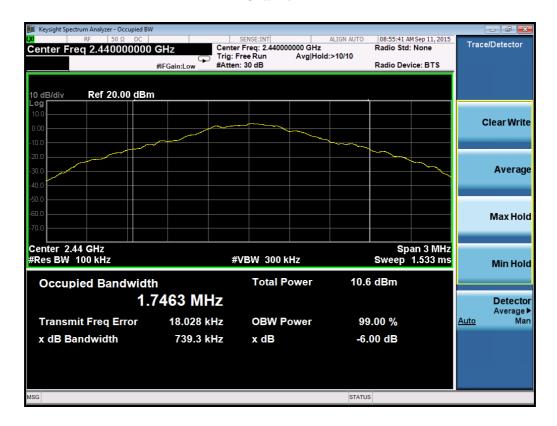
Mode	Frequency	Minir	num 6dB Band (MHz)	lwidth	Limits	
	(MHz)	Port0	Port 1	Port 2	(MHz)	
	2402	797.1	-	1	> 0.5	
-	2440	739.3	-	1	> 0.5	
	2480	768.9	-	-	> 0.5	

## Channel L





#### Channel M



#### Channel H





# 4 Maximum Conducted Output power

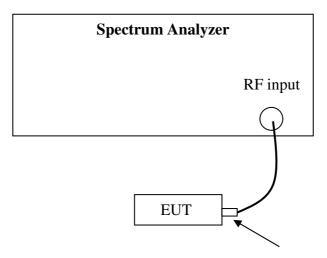
Test result: Pass

#### 4.1 Test limit

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt
For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts
For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt (EIRP: 4 watt).

If the transmitting antenna of directional gain greater than 6dBi is used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi. If there have a beam forming type, the limit should be the minimum of 30dBm and 30+ (6 –antenna gain-beam forming gain).

## **4.2** Test Configuration



Antenna connector



## 4.3 Test procedure and test setup

The EUT was tested according to DTS test procedure of "KDB558074 D01 DTS Meas Guidance v03r03" for compliance to FCC 47CFR 15.247 requirements (clause 9.1.2).

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth andshall utilize a fast-responding diode detector.



## 4.4 Test protocol

Temperature: 24 °C Relative Humidity: 52 %

	Frequency	R	eading (dE	Bm)	Total	Limit
Mode	(MHz)	Port0	Port 1	Port 2	Power (dBm)	(dBm)
	2402	3.192	-	-	3.192	30
-	2440	3.548	-	-	3.548	30
	2480	2.899	-	-	2.899	30

#### Note:

Reading port x (mW) =  $10 ^ (reading port x (dBm)/10 x = 0, 1, 2.$ 

Total Power (mW) = reading port 0 (mW) + reading port 1 (mW) + reading port 2 (mW)

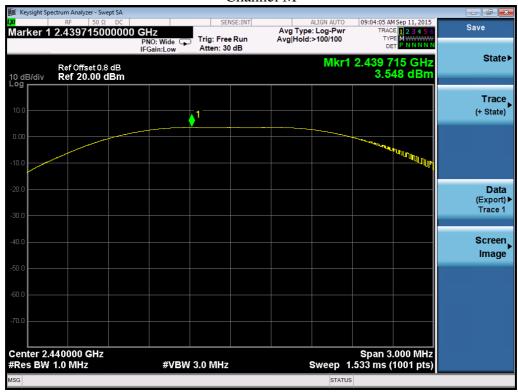
Total power (dBm) = 10 \* log (Total power (mW))

#### Channel L





#### Channel M



#### Channel H





# 5 Power spectrum density

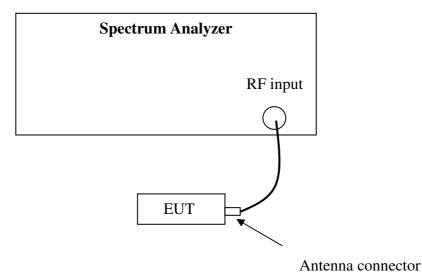
**Test result:** Pass

#### 5.1 Test limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

If the transmitting antenna of directional gain greater than 6dBi is used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi. If there have a beam forming type, the limit should be the minimum of 8dBm/MHz and 8+ (6 –antenna gain-beam forming gain).

## **5.2** Test Configuration





## 5.3 Test procedure and test setup

The power output per FCC §15.247(e) was tested according to DTS test procedure of "KDB558074 D01 DTS Meas Guidance v03r02" (clause 10.2) for compliance to FCC 47CFR 15.247 requirements.

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the *DTS bandwidth*.
- c) Set the RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
- d) Set the VBW  $\geq 3 \times RBW$ .
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode =  $\max$  hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



#### 5.4 Test Protocol

Temperature: 24 °C Relative Humidity: 52 %

	Fraguanay	]	PSD (dBm)	)	Total	Limit
Mode	Frequency (MHz)	Port 0	Port 1	Port 2	PSD (dBm)	(dBm)
	2402	-8.573	-	-	-8.573	8
-	2440	-7.259	-	-	-7.259	8
	2480	-8.681	-	-	-8.681	8

#### Note 1:

PSD port x (mW) =  $10 ^ (PSD port x (dBm)/10; x = 0, 1, 2.$ Total PSD (mW) = PSD port 0 (mW) + PSD port 1 (mW) + PSD port 2 (mW) Total PSD (dBm) = 10 \* log (Total PSD (mW))





#### Channel M



#### Channel H





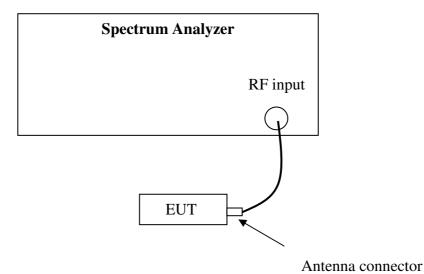
## 6 Emission outside the frequency band

**Test result:** Pass

#### 6.1 Test limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

## **6.2** Test Configuration



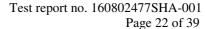
#### 6.3 Test procedure and test setup

The EUT was tested according to DTS test procedure of "KDB558074 D01 DTS Meas Guidance v03r03" (clause 11.0) for compliance to FCC 47CFR 15.247 requirements.

#### Reference level measurement

Establish a reference level by using the following procedure:

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set the span to  $\geq 1.5$  times the *DTS bandwidth*.
- c) Set the RBW = 100 kHz.
- d) Set the VBW  $\geq$  3 x RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.





i) Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

#### **Emission level measurement**

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW  $\geq$  3 x RBW.
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode =  $\max$  hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in 11.1 a) or 11.1 b). Report the three highest emissions relative to the limit.

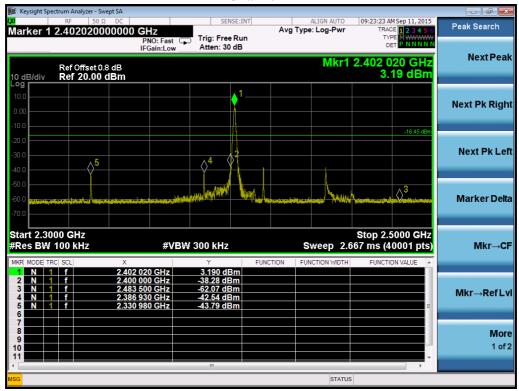


## **6.4** Test Protocol

Temperature: 24 °C Relative Humidity: 52 %

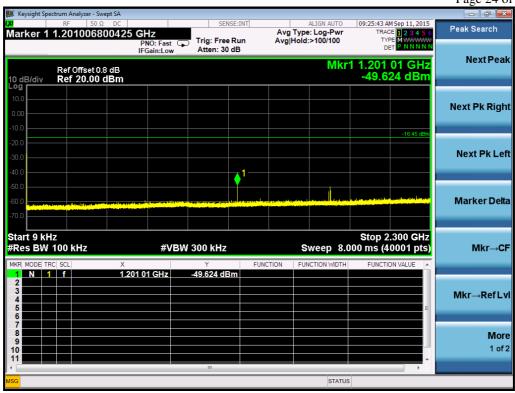
Mode	Frequency (MHz)	Results	Limits (dB)
	2402	Pass	≥20
-	2440	Pass	≥20
	2480	Pass	≥20

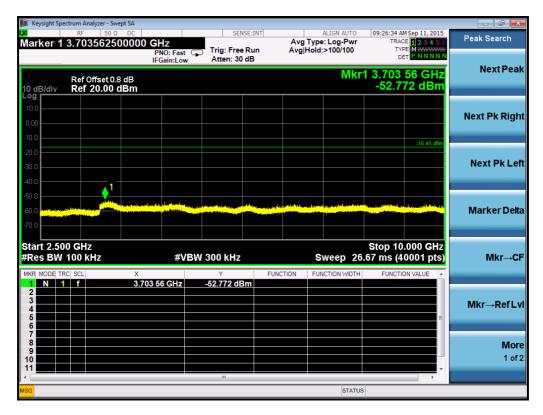
## Channel L



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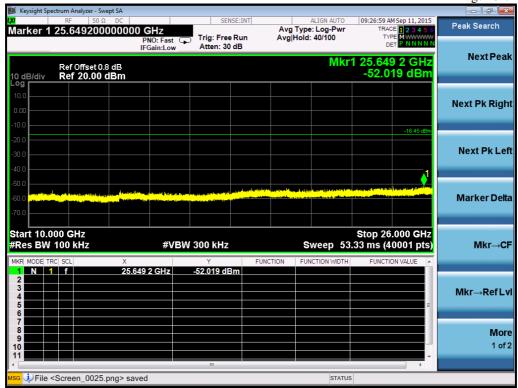






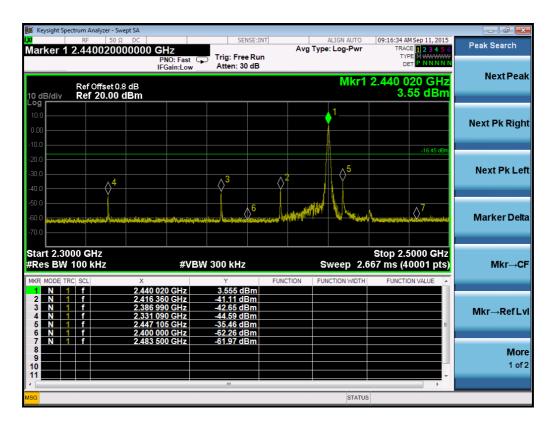
## Test report no. 160802477SHA-001

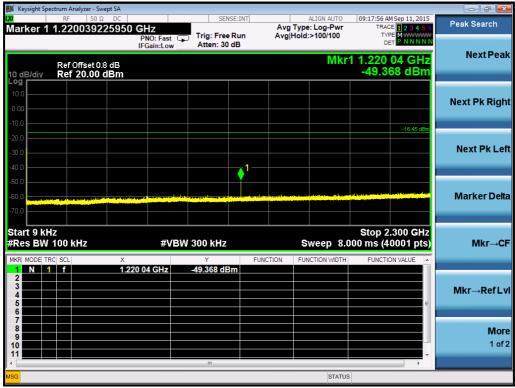
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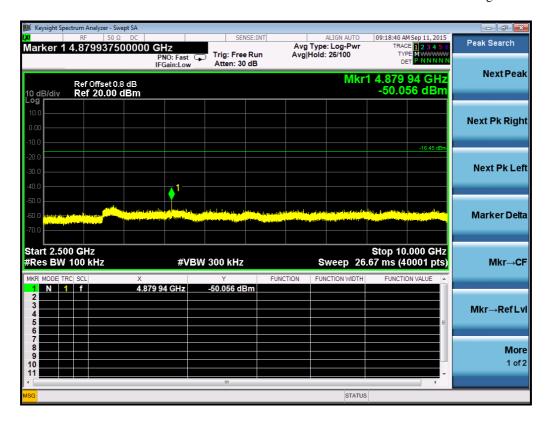


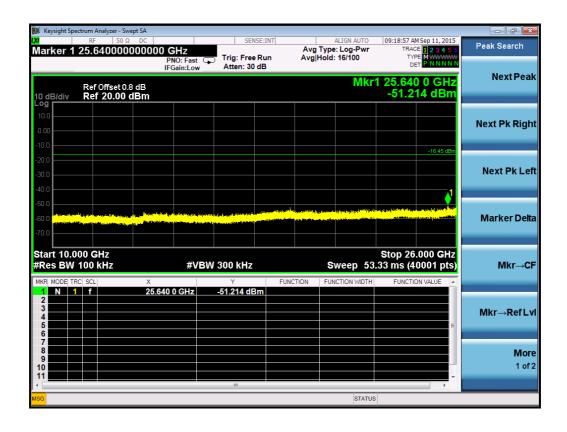
#### Channel M





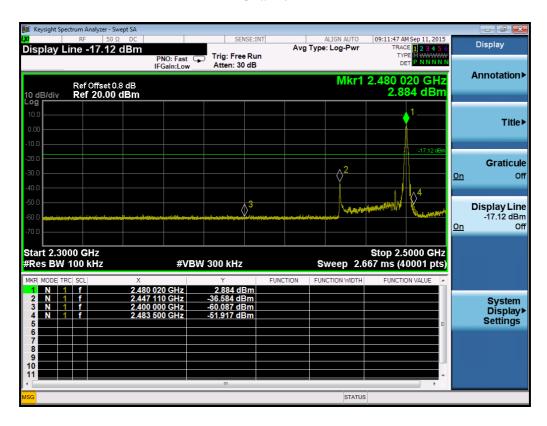


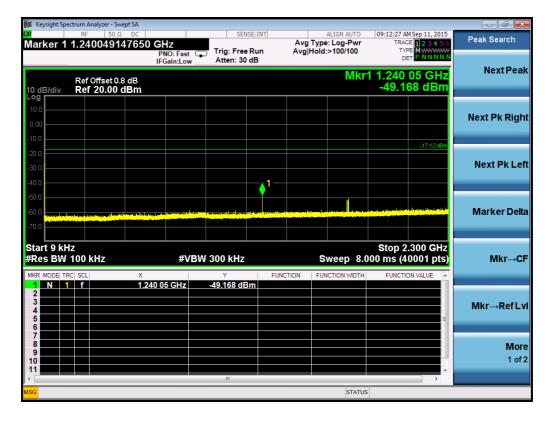




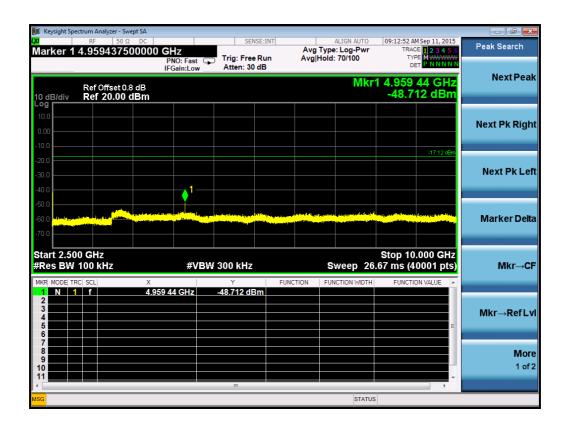


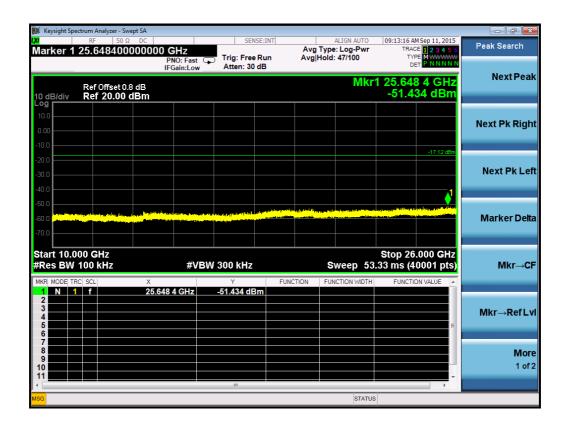
#### Channel H













# 7 Radiated Emissions in restricted frequency bands

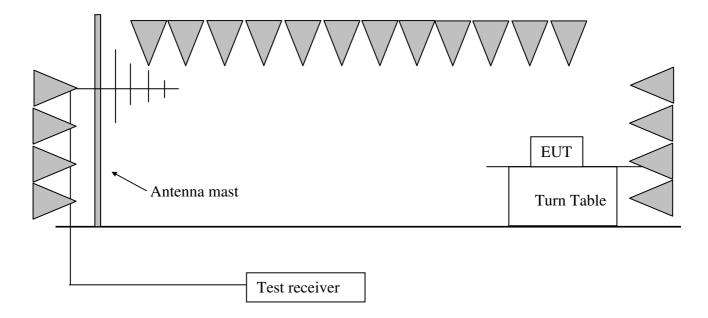
**Test result:** Pass

## 7.1 Test limit

The radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) showed as below:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

# 7.2 Test Configuration





#### 7.3 Test procedure and test setup

The measurement was applied in a semi-anechoic chamber. While testing for spurious emission higher than 1GHz, if applied, the pre-amplifier would be equipped just at the output terminal of the antenna.

Tabletop devices shall be placed on a nonconducting platform with nominal top surface dimensions 1 m by 1.5 m. For emissions testing at or below 1 GHz, the table height shall be 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m.

The turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna which was mounted on an antenna mast. The antenna moved up and down between from 1meter to 4 meters to find out the maximum emission level.

The EUT was tested according to DTS test procedure of KDB558074 D01 DTS "Meas Guidance v03r03" for compliance to FCC 47CFR 15.247 requirements.

The radiated emission was measured using the Spectrum Analyzer with the resolutions bandwidth set as:

```
RBW = 300 Hz, VBW = 1 kHz (9 kHz~150 kHz);

RBW = 10 kHz, VBW = 30 kHz (150 kHz~30MHz);

RBW = 100 kHz, VBW = 300 kHz (30MHz~1GHz for PK)

RBW = 1MHz, VBW = 3MHz (>1GHz for PK);

RBW = 1MHz, VBW = 10Hz (>1GHz for AV);
```

#### Remark:

- 1. Factor= Antenna Factor + Cable Loss (-Amplifier, is employed)
- 2. Measured level= Original Receiver Reading + Factor
- 3. Margin = Limit Measured level
- 4. If the PK measured level is lower than AV limit, the AV test can be elided.

#### Example:

```
Assuming Antenna Factor = 30.20 dB/m, Cable Loss = 2.00 dB, Gain of Preamplifier = 32.00 dB, Original Receiver Reading = 10 dBuV. Then Factor = 30.20 + 2.00 - 32.00 = 0.20 dB/m; Measured level = 10 dBuV + 0.20 dB/m = 10.20 dBuV/m Assuming limit = 54 dBuV/m, Measured level = 10.20 dBuV/m, then Margin = 54 - 10.20 = 43.80 dBuV/m.
```

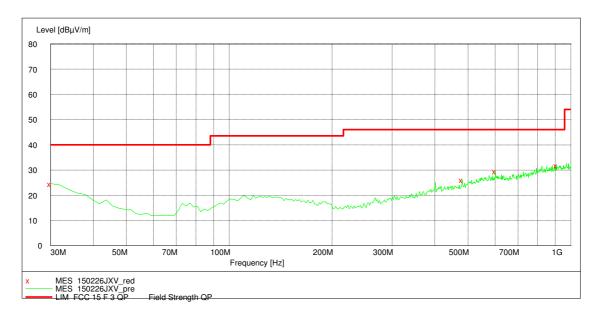


## 7.4 Test Protocol

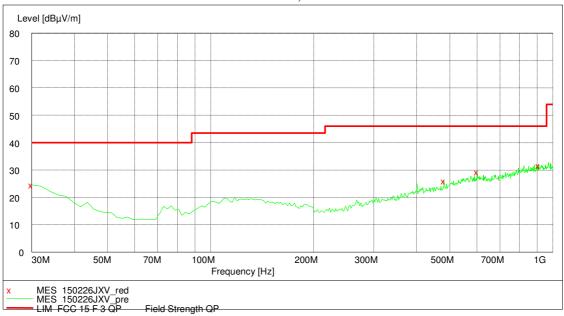
Temperature: 24 °C Relative Humidity: 52 %

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

30MHz~1GHz, Horizontal



30MHz~1GHz, Vertical





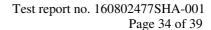
## Test data at 30MHz~1GHz:

Polarization	Frequency	Measured level	Limits	Margin	Detector
Folarization	(MHz)	$(dB\mu V/m)$	(dBµV/m)	(dB)	Detector
	30.0	25.0	40.0	15.0	PK
	133.0	25.7	43.5	17.8	PK
Н	401.3	30.6	46.0	15.4	PK
11	669.5	30.0	46.0	16.0	PK
	893.1	35.4	46.0	10.6	PK
	30.0	25.3	40.0	14.7	PK
V	43.6	20.8	40.0	19.2	PK
	133.0	26.3	43.5	17.2	PK
	222.4	29.2	46.0	16.8	PK
	311.9	26.7	46.0	19.3	PK
	490.7	32.3	46.0	13.7	PK
	580.1	35.9	46.0	10.1	PK
	937.8	34.0	46.0	12.0	PK

Note: The worst test result (30MHz to 1GHz) of channel L (2402MHz) chosen to list in the report as representative.

## **Test result above 1GHz:**

СН	Antenna	Frequency (MHz)	Correct Factor (dB/m)	Corrected Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	Н	2402.00	30.70	88.30	Fundamental	/	PK
L	Н	2390.00	30.30	36.50	54.00	17.50	PK
L	Н	4804.00	-1.50	51.30	74.00	22.70	PK
	Н	7206.00	3.50	52.10	74.00	21.90	PK
	Н	2440.00	30.70	88.20	Fundamental	/	PK
M	Н	4880.00	-1.10	50.60	74.00	23.40	PK
	Н	7320.00	3.60	51.20	74.00	22.80	PK
	Н	2480.00	30.70	87.20	Fundamental	/	PK
Н	Н	2483.50	30.80	52.20	74.00	21.80	PK
П	Н	4960.00	-0.80	48.60	74.00	25.40	PK
	Н	7336.00	3.80	56.80	74.00	21.30	PK
		7336.00	3.80	35.00	54.00	19.00	AV





Remark: 1. For fundamental emission, no amplifier is employed.

- 2. Correct Factor = Antenna Factor + Cable Loss (-Amplifier, is employed)
- 3. Corrected Reading = Original Receiver Reading + Correct Factor
- 4. Margin = limit Corrected Reading
- 5. If the PK reading is lower than AV limit, the AV test can be elided.
- 6. The emission was conducted from 30MHz to 25GHz.

Example: Assuming Antenna Factor = 30.20 dB/m, Cable Loss = 2.00 dB, Gain of Preamplifier = 32.00 dB, Original Receiver Reading = 10 dBuV. Then Correct Factor = 30.20 + 2.00 - 32.00 = 0.20 dB/m; Corrected Reading = 10 dBuV + 0.20 dB/m = 10.20 dBuV/m Assuming limit = 54 dBuV/m, Corrected Reading = 10.20 dBuV/m, then Margin = 54 - 10.20 = 43.80 dBuV/m



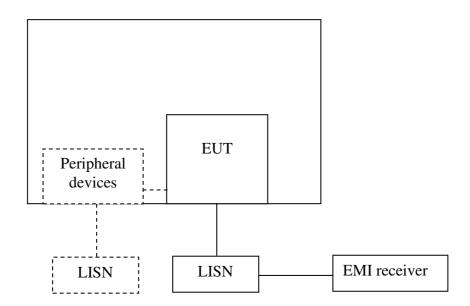
# 8 Power line conducted emission

Test result: NA

## 8.1 Limit

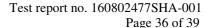
Frequency of Emission (MHz)	Conducted Limit (dBuV)			
	QP	AV		
0.15-0.5	66 to 56*	56 to 46 *		
0.5-5	56	46		
5-30	60	50		
* Decreases with the logarithm of the frequency.				

# 8.2 Test configuration



For table top equipment, wooden support is 0.8m height table

☐ For floor standing equipment, wooden support is 0.1m height rack.





#### 8.3 Test procedure and test set up

Measured levels of ac power-line conducted emission shall be the emission voltages from the voltage probe, where permitted, or across the 50  $\Omega$  LISN port (to which the EUT is connected), where permitted, terminated into a 50  $\Omega$  measuring instrument. All emission voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord by the use of mating plugs and receptacles on the LISN, if used. Equipment shall be tested with power cords that are normally supplied or recommended by the manufacturer and that have electrical and shielding characteristics that are the same as those cords normally supplied or recommended by the manufacturer. For those measurements using a LISN, the 50  $\Omega$  measuring port is terminated by a measuring instrument having 50  $\Omega$  input impedance. All other ports are terminated in 50  $\Omega$  loads.

Tabletop devices shall be placed on a platform of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The vertical conducting plane or wall of an RF-shielded (screened) room shall be located 40 cm to the rear of the EUT. Floor-standing devices shall be placed either directly on the reference ground-plane or on insulating material as described in ANSI C63.4. All other surfaces of tabletop or floor-standing EUTs shall be at least 80 cm from any other grounded conducting surface, including the case or cases of one or more LISNs.

The bandwidth of the test receiver is set at 9 kHz.



## 8.4 Test protocol

Temperature: °C Relative Humidity: %

## Test Data:

Emagyanay	Quasi-peak			Average		
Frequency (MHz)	level dB(µV)	Limit dB(µV)	Margin (dB)	level dB(µV)	$\begin{array}{c} limit \\ dB(\mu V) \end{array}$	Margin (dB)
*	*	*	*	*	*	*
*	*	*	*	*	*	*
*	*	*	*	*	*	*
*	*	*	*	*	*	*
*	*	*	*	*	*	*
*	*	*	*	*	*	*

Note: \* means the emission level 10dB lower than the relevant limit.



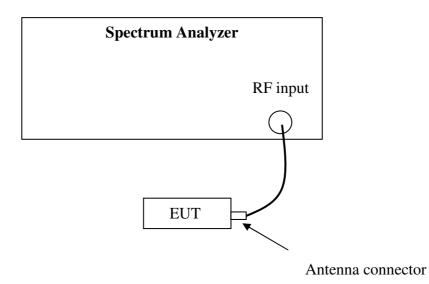
# 9 Occupied Bandwidth

**Test Status: NA** 

## 9.1 Test limit

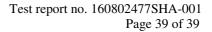
None

# 9.2 Test Configuration



## 9.3 Test procedure and test setup

The occupied bandwidth per RSS-Gen Issue 4 Clause 6.6 was measured using the Spectrum Analyzer.





# 9.4 Test protocol

Temperature : °C Relative Humidity : %

Mode	Frequency	99% Bandwidth (MHz)			
	(MHz)	Port0	Port 1	Port 2	
-	1	-	-	-	
	-	-	-	1	
	-	-	-	-	