



# **TEST REPORT**

Applicant	Asian Express Holdings Limited
Address	RM1702, Sino Centre, 582-592 Nathan Road, Mongkok, Kowloon, Hong Kong

Manufacturer or Supplier	Asian Express Holdings Limited
Address	RM1702, Sino Centre, 582-592 Nathan Road, Mongkok, Kowloon, Hong Kong
Product:	Tunnel/X09
Brand Name	PROPEL
Model	PL-1760
Additional Model & Model Difference	PL-1761, PL-1762, PL-1763, PL-1764; etc., See items 3.1
Date of tests:	Jun. 07, 2018 ~ Jun. 29, 2018

the tests have been carried out according to the requirements of the following standard:

#### CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Breeze Jiang Project Engineer / EMC Department	Approved by Glyn He Supervisor / EMC Department
green	A
	Date: Jul. 18, 2018

This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at <a href="http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/and">http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/and</a> is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

Tel: +86 769 8593 5656 Fax: +86 769 8593 1080



# **TABLE OF CONTENTS**

RI	ELEA	SE	CONTROL RECORD	3
1	S	UMN	IARY OF TEST RESULTS	4
2	M	EAS	UREMENT UNCERTAINTY	4
3	G	ENE	RAL INFORMATION	5
	3.1	GEN	NERAL DESCRIPTION OF EUT	5
	3.2	DES	SCRIPTION OF TEST MODES	6
	3.3	GEI	NERAL DESCRIPTION OF APPLIED STANDARDS	7
	3.4	DES	SCRIPTION OF SUPPORT UNITS	7
4.	TI	EST	TYPES AND RESULTS	8
	4.1	RAI	DIATED EMISSION MEASUREMENT	8
	4.	1.1	LIMITS OF RADIATED EMISSION MEASUREMENT	8
	4.	1.2	TEST INSTRUMENTS	9
	4.	1.3	TEST PROCEDURES	10
	4.	1.4	DEVIATION FROM TEST STANDARD	10
	4.	1.5	TEST SETUP	11
	4.	1.6	EUT OPERATING CONDITIONS	12
	4.	1.7	TEST RESULTS	13
	4.2	20d	B BANDWIDTH MEASUREMENT	17
	4.	2.1	LIMITS OF 20dB BANDWIDTH MEASUREMENT	17
	4.	2.2	TEST INSTRUMENTS	17
	4.	2.3	TEST PROCEDURE	18
	4.	2.4	DEVIATION FROM TEST STANDARD	18
	4.	2.5	TEST SETUP	18
	4.	2.6	EUT OPERATING CONDITIONS	18
	4.	2.7	TEST RESULTS	19
5.	P	нот	OGRAPHS OF THE TEST CONFIGURATION	20
6.	AP	PEN	IDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE	
	EU	IT B	Y THE LAB	21

Dongguan Branch

Tel: +86 769 8593 5656 Fax: +86 769 8593 1080



# **RELEASE CONTROL RECORD**

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF180607N061-1	Original release	Jul. 18, 2018

Tel: +86 769 8593 5656 Fax: +86 769 8593 1080



## 1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.249)							
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK				
§15.203	Antenna Requirement	PASS	No antenna connector is used				
§15.207 (a)	Conducted Emission	N/A	Powered from battery				
§15.205	Restricted Band of Operation	PASS	Compliant				
§15.209 §15.249(a)	Radiated Emission	PASS	Compliant				
§15.215(c)	20dB Bandwidth Test	PASS	Compliant				

## 2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
	9KHz ~ 30MHz	2.90dB
Radiated emissions	30MHz ~ 1GMHz	3.83dB
Nadiated emissions	1GHz ~ 18GHz	4.93dB
	18GHz ~ 40GHz	4.80dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Tel: +86 769 8593 5656 Fax: +86 769 8593 1080 Email: <u>customerservice.dg@cn.bureauveritas.com</u>



## 3 GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Tunnel/X09	
MODEL NO.	PL-1760	
ADDITIONAL MODELS	PL-1761, PL-1762, PL-1763, PL-1764, PL-1765, PL-1766, PL-1767, PL-1768, PL-1769, KH-2163,	
	KH-2164, VL-3610	
FCC ID	VLEPL-1760R	
NOMINAL VOLTAGE	DC 3.7V from Li-ion Battery	
MODULATION TECHNOLOGY	GFSK	
OPERATING FREQUENCY	2472MHz	
ANTENNA TYPE	Wire Antenna, with 0dBi gain	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	USB Line: Unshielded, Detachable 0.5m	

#### NOTE:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. For the test results, the EUT had been tested with all conditions, but only the worst case was shown in test report.
- 3. Please refer to the EUT photo document (Reference No.: 180607N061-1) for detailed product photo.
- 4. Additional models (see about table) are identical with the test model PL-1760 except the model number for marketing purpose
- 5. When the EUT charging that wireless function cann't working, the charging mode was tested in the FCC Part 15B(sDOC) report.(report no.: FS180607N061)

Tel: +86 769 8593 5656 Fax: +86 769 8593 1080 Email: <u>customerservice.dg@cn.bureauveritas.com</u>



## 3.2 DESCRIPTION OF TEST MODES

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and packet type. The worst case was found when the EUT was positioned on X axis for radiated emission. The EUT was tested under the following mode.

EUT CONFIGURE		APPLICA	ABLE TO		DESCRIPTION	
MODE	RE<1G	RE≥1G	PLC	BW	DESCRIPTION	
A	<b>√</b>	<b>√</b>	-	<b>√</b>	DC 3.7V from Fully Battery	

Where

RE<1G: Radiated Emission below 1GHz PLC: Power Line Conducted Emission

RE≥1G: Radiated Emission above 1GHz

BW: 20db bandwidth

NOTE: No need to concern of Conducted Emission due to the EUT is powered by battery.

Following channel(s) was (were) selected for the test as listed below.

TESTED FREQUENCY
2472 MHz

#### **Channel List**

Channel	Frequency
Chamilei	(MHz)
1	2472

Note: The more detailed channel, please refer to the product specifications

## **TEST CONDITION:**

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY	
RE	25deg. C, 55%RH	DC 3.7V from Fully Battery	Arnold	
BW	25deg. C, 54%RH	DC 3.7V from Fully Battery	Sen He	
PLC	-	-	-	

Tel: +86 769 8593 5656 Fax: +86 769 8593 1080



## 3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C, Section 15.249 ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

## 3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together without any other necessary accessories or support units

Tel: +86 769 8593 5656 Fax: +86 769 8593 1080



## **TEST TYPES AND RESULTS**

#### RADIATED EMISSION MEASUREMENT 4.1

#### 4.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

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

According to §15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency	Field strength of fundamental (milli-volts/meter)	Field strength of harmonics (micro-volts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply.

#### NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

Tel: +86 769 8593 5656 Fax: +86 769 8593 1080

Guangdong 523942, China



## 4.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU40	100449	Mar. 21,18	Mar. 20,19
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV7	102331	Nov. 04,17	Nov. 03,18
Active Loop Antenna (9KHz -30MHz)	SCHWARZBECK	FMZB 1519B	1519B-045	May 31,18	May 30,19
Amplifier (9KHz -1GHz)	Burgeon	BPA-530	100210	Apr. 18,18	Apr. 18,19
Bilog Antenna (20MHz -2GHz)	Teseq	CBL 6111D	30643	Jul. 28, 17	Jul. 27, 18
Horn Antenna (1GHz -18GHz)	ETS -Lindgren	3117	00062558	Jun. 02,18	Jun. 01,19
Horn Antenna (18GHz -40GHz)	SCHWARZBECK	BBHA 9170	BBHA9170242	May 05,18	May 04,19
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	NSEMC003	Feb. 10,18	Feb. 09,19
Test Software	ADT	ADT_Radiated _V7.6.15.9.2	N/A	N/A	N/A
Broadband Preamplifier (1GHz~18GHz)	SCHWARZBECK	BBV9718	305	Apr. 18,18	Apr. 18,19
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Nov. 08,17	Nov. 07,18
Test Software	ADT	ADT_Radiated _V7.6.15.9.2	N/A	N/A	N/A

#### NOTE:

- 1. The test was performed in 966 Chamber.
- 2. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
- 3. The horn antenna is used only for the measurement of emission frequency above1GHz if tested.
- 4. The FCC Site Registration No. is 749762.

Tel: +86 769 8593 5656 Fax: +86 769 8593 1080 Fmail: customerservice da@cn



#### 4.1.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 1.5 meters (above 1GHz) and 0.8 meters (below 1GHz) above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. For below 30MHz, a loop antenna with its vertical plane is place 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 1m above the ground.
- g. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

#### NOTE:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz for Average detection (AV) at frequency above 1GHz.
- 4. All modes of operation were investigated and the worst-case emissions are reported.
- 5. The testing of the EUT was performed on all 3 orthogonal axes; the worst-case test configuration was reported on the file test setup photo.

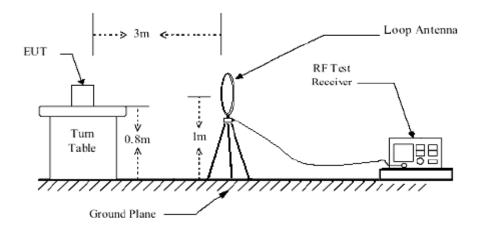
#### 4.1.4 DEVIATION FROM TEST STANDARD

No deviation.

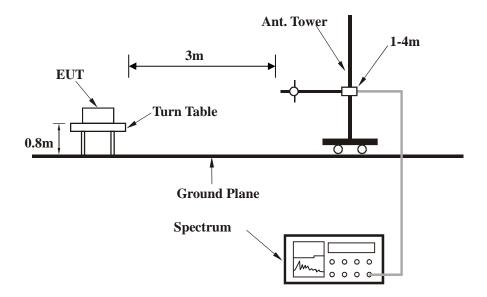


## 4.1.5 TEST SETUP

## **Below 30MHz test setup**

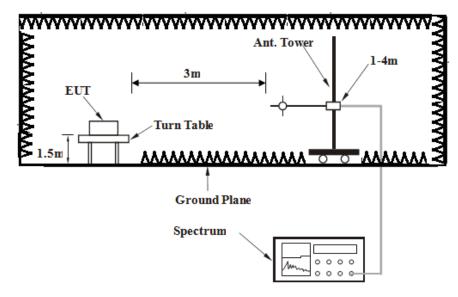


## **Below 1GHz test setup**





## **Above 1GHz test setup**



Note: For the actual test configuration, please refer to the attached file (Test Setup Photo).

## 4.1.6 EUT OPERATING CONDITIONS

- Turned on the power of all equipment. a)
- EUT was operated according to the type used was description in b) manufacturer's specifications or the User's Manual.

Tel: +86 769 8593 5656 Fax: +86 769 8593 1080 Email: <a href="mailto:customerservice.dg@cn.bureauveritas.com">customerservice.dg@cn.bureauveritas.com</a>



## 4.1.7 TEST RESULTS

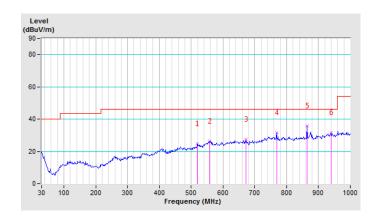
#### **BELOW 1GHz WORST-CASE DATA**

CHANNEL	TX:2472MHz	DETECTOR	Ougsi Poek (OD)	
FREQUENCY RANGE	9KHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)	

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
1	519.66	24.78 QP	46.00	-21.22	2.00 H	261	30.67	-5.89	
2	556.97	26.32 QP	46.00	-19.68	2.00 H	24	30.13	-3.81	
3	672.00	27.48 QP	46.00	-18.52	2.00 H	345	30.54	-3.06	
4	768.38	31.74 QP	46.00	-14.26	2.00 H	59	33.67	-1.93	
5	864.76	35.85 QP	46.00	-10.15	2.00 H	116	36.37	-0.52	
6	939.38	31.68 QP	46.00	-14.32	2.00 H	128	30.62	1.06	

## **REMARKS:**

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were less than 20dB margin against the limit.
- 4. Margin value = Emission level Limit value.



Tel: +86 769 8593 5656 Fax: +86 769 8593 1080 Email: customerservice dg@cn

Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch

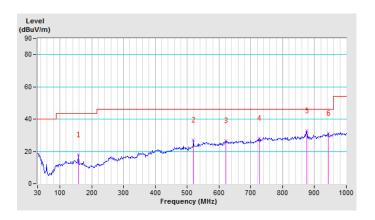


CHANNEL	TX:2472MHz	DETECTOR	Ougai Pagis (OD)
FREQUENCY RANGE	9KHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
1	157.47	18.05 QP	43.50	-25.45	1.00 V	230	34.71	-16.66	
2	519.66	26.90 QP	46.00	-19.10	1.00 V	169	32.79	-5.89	
3	622.26	26.53 QP	46.00	-19.47	1.00 V	33	29.75	-3.22	
4	726.41	28.19 QP	46.00	-17.81	1.00 V	241	30.24	-2.05	
5	875.64	32.63 QP	46.00	-13.37	1.00 V	269	33.07	-0.44	
6	944.04	31.22 QP	46.00	-14.78	1.00 V	55	30.51	0.71	

## **REMARKS:**

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were less than 20dB margin against the limit.
- 4. Margin value = Emission level Limit value.



Page 14 of 21

Tel: +86 769 8593 5656 Fax: +86 769 8593 1080



## **ABOVE 1GHz WORST-CASE DATA:**

CHANNEL	TX:2472MHz	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2472.00	96.55 PK	114.00	-17.45	2.41 H	154	93.43	3.12
2	*2472.00	81.80 AV	94.00	-12.20	2.41 H	154	78.68	3.12
3	2483.50	62.33 PK	74.00	-11.67	2.01 H	154	59.17	3.16
4	2483.50	47.58 AV	54.00	-6.42	2.01 H	154	44.42	3.16
5	4944.00	65.54 PK	74.00	-8.46	1.00 H	142	59.12	6.42
6	4944.00	50.79 AV	54.00	-3.21	1.00 H	142	44.37	6.42
7	7416.00	51.07 PK	74.00	-22.93	1.52 H	224	41.87	9.20
8	7416.00	36.21 AV	54.00	-17.79	1.52 H	224	27.01	9.20
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2472.00	93.64 PK	114.00	-20.36	2.27 V	265	90.52	3.12
2	*2472.00	78.89 AV	94.00	-15.11	2.27 V	265	75.77	3.12
3	2483.50	59.39 PK	74.00	-14.61	2.27 V	265	56.23	3.16
4	2483.50	44.64 AV	54.00	-9.36	2.27 V	265	41.48	3.16
5	4944.00	59.26 PK	74.00	-14.74	2.45 V	226	52.84	6.42
6	4944.00	44.51 AV	54.00	-9.49	2.45 V	226	38.09	6.42
7	7416.00	50.58 PK	74.00	-23.42	1.00 V	256	41.38	9.20
8	7416.00	35.83 AV	54.00	-18.17	1.00 V	256	26.63	9.20

#### **REMARKS:**

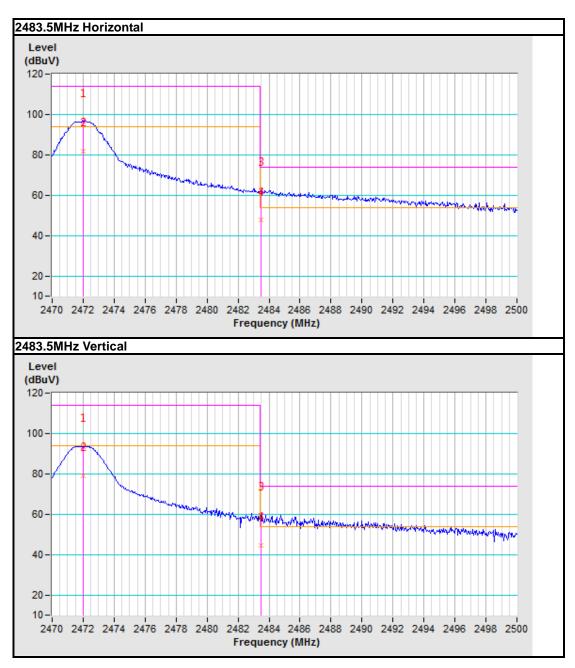
- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were less than 20dB margin against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " \* ": Fundamental frequency.

Tel: +86 769 8593 5656 Fax: +86 769 8593 1080

Guangdong 523942, China



#### **Band edge Plot**



Tel: +86 769 8593 5656 Fax: +86 769 8593 1080



#### 4.2 20dB BANDWIDTH MEASUREMENT

#### 4.2.1 LIMITS OF 20dB BANDWIDTH MEASUREMENT

According to FCC 15.215(c), must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

#### 4.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Sensor	Keysight	U2021XA	MY55060016	May 19,18	May 18,19
Power Sensor	Keysight	U2021XA	MY55060018	May 19,18	May 18,19
Power Meter	Anritsu	ML2495A	1139001	Apr. 13,18	Apr. 13,19
Power Sensor	Anritsu	MA2411B	1531155	Apr. 13,18	Apr. 13,19
Digital Multimeter	FLUKE	15B	A1220010DG	Oct. 21, 17	Oct.20, 18
Humid & Temp Programmable Tester	Haida	HD-2257	110807201	Sep.05,17	Sep. 04,18
Oscilloscope	Agilent	DSO9254A	MY51260160	Nov. 08,17	Nov. 07,18
Signal Analyzer	Rohde & Schwarz	FSV7	102331	Nov. 04,17	Nov. 03,18
Signal Generator	Agilent	N5183A	MY50140980	Jan. 02,18	Jan. 01,19
Agile Signal Generator	Agilent	8645A	Agilent	Sep.01, 17	Aug.31, 18
Spectrum Analyzer	Keysight	N9020A	MY55400499	Mar. 21,18	Mar. 20,19
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200288	Jan. 02,18	Jan. 01,19
Attenuator	MINI	BW-S10W2+	S130129FGE2	N/A	N/A
DC Source	Keysight	E3642A	MY56146098	N/A	N/A

#### NOTE:

- 1. The test was performed in RF Oven room.
- 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

Tel: +86 769 8593 5656 Fax: +86 769 8593 1080



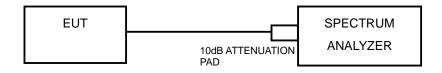
#### 4.2.3 TEST PROCEDURE

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
- d. Repeat above procedures until all frequencies measured were complete.

#### 4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

#### 4.2.5 TEST SETUP



#### 4.2.6 EUT OPERATING CONDITIONS

- a) Turned on the power of all equipment.
- b) EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.

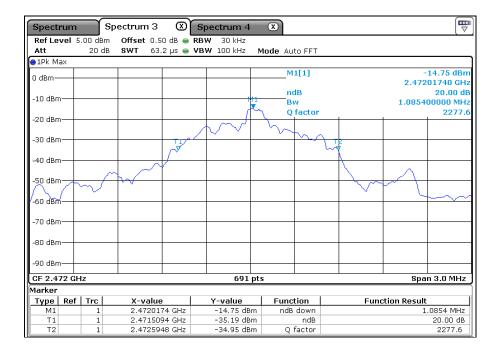
Tel: +86 769 8593 5656 Fax: +86 769 8593 1080



## 4.2.7 TEST RESULTS

CHANNEL FREQUENCY	20dB BANDWIDTH
(MHz)	(MHz)
2472	1.0854

#### **Test Data:**



Tel: +86 769 8593 5656 Fax: +86 769 8593 1080



# 5. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

Tel: +86 769 8593 5656 Fax: +86 769 8593 1080



# 6. APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

---END---

Tel: +86 769 8593 5656 Fax: +86 769 8593 1080