

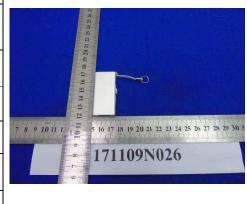




# **TEST REPORT**

Applicant	Flashbay Electronics
Address	Blgd b & C Xi Feng Cheng IND Zone,No.2 FuYuan Road He Ping, Village, FuYong Town, ShenZhen

Manufacturer or Supplier	Flashbay Electronics
Address	Blgd b & C Xi Feng Cheng IND Zone, No.2 FuYuan Road He Ping, Village, FuYong Town, ShenZhen
Product	USB Flash Drive
Brand Name	N/A
Model	Slide(SE)
Additional Model & Model Difference	N/A
Date of tests	Nov. 09, 2017 ~ Nov. 30, 2017



The submitted sample of the above equipment has been tested for according to the requirements of the following standards:

#### 

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

Tested by Sophia Xie Project Engineer / EMC Department	Approved by Madison Luo Supervisor / EMC Department
	Data: Data 01, 2017
	Date: Dec. 01, 2017

This report is 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. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, 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 your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification.

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# **Table of Contents**

RELE	ASE CONTROL RECORD	
1	SUMMARY OF TEST RESULTS	4
1.1	MEASUREMENT UNCERTAINTY	4
2	GENERAL INFORMATION	
2.1	GENERAL DESCRIPTION OF EUT	5
2.2	DESCRIPTION OF TEST MODES	
2.3	TEST PROGRAM USED AND OPERATION DESCRIPTIONS	6
2.4	GENERAL DESCRIPTION OF APPLIED STANDARDS	6
2.5	DESCRIPTION OF SUPPORT UNITS	
3	CONDUCTED EMISSION FROM THE AC MAINS POWER PORT	7
3.1	LIMITS	
3.2	TEST INSTRUMENT	7
3.3	TEST ARRANGEMENT	7
3.4	TEST SETUP	
3.5	SUPPLEMENTARY INFORMATION	
3.6	TEST RESULTS	
4	RADIATED EMISSION MEASUREMENT	
4.1	LIMITS	11
4.2	OF RADIATED EMISSION MEASUREMENT	11
4.3	TEST INSTRUMENTS	
4.4	TEST PROCEDURE	
4.5	TEST SETUP	16
4.6	SUPPLEMENTARY INFORMATION	16
4.7	TEST RESULTS	
5	PHOTOGRAPHS OF THE TEST CONFIGURATION	19
6	APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING	
	CHANGES TO THE EUT BY THE LAB	21

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# **RELEASE CONTROL RECORD**

Issue No.	Description	Date Issued
C171109N026	Original release	Dec. 01, 2017

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# 1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

Emission			
Standard	Test Item	Result	Remarks
AS/NZS CISPR 32: 2015	Conducted test	PASS	Minimum passing margin is -18.13dB at 0.16093 MHz
	Radiated emission 30-1000 MHz	PASS	Minimum passing Class B margin is -1.00 dB at 879.881 MHz

#### 1.1 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:

The listed uncertainties are the worst case uncertainty for the entire range of measurement. Please note that the uncertainty values are provided for informational purposes only and are not used in determining the PASS/FAIL results.

MEASUREMENT	FREQUENCY	UNCERTAINTY
Mains Terminal Disturbance Voltage Test	0.15MHz ~ 30MHz	+ /-2.70 dB
Radiated Disturbance Test	30MHz ~ 1000MHz	+ /-4.03 dB

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#### 2 GENERAL INFORMATION

#### 2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	USB Flash Drive
TEST MODEL	Slide(SE)
ADDITIONAL MODELS	N/A
POWER SUPPLY	Power by Host Unit
DATA CABLE SUPPLIED	N/A
HIGHEST OPERATION	1000
FREQUENCY	1MHz

# NOTE:

- 1. For the test results, the EUT had been tested with all conditions. But only the worst case was showed in test report.
- 2. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 3. Please refer to the EUT photo document (Reference No.: 171109N026) for detailed product photo.

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#### 2.2 DESCRIPTION OF TEST MODES

#### **CONDUCTED EMISSION TEST:**

Description of Test Mode	Test Voltage
Type C port Data Transmission	Power by PC

#### **RADIATED EMISSION TEST:**

Description of Test Mode	Test Voltage
Type C port Data Transmission	Bower by BC
USB port Data Transmission	Power by PC
Mini USB port Data Transmission	Power by Mobile

#### 2.3 TEST PROGRAM USED AND OPERATION DESCRIPTIONS

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

#### 2.4 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to the specifications of the manufacturers, the EUT must comply with the requirements of the following standards:

**AS/NZS CISPR 32:2015** 

All applicable tests have been performed and recorded as per the above standards.

# 2.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an dependent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Notebook	DELL	Inspriron 14 N4030	3J9WVP1	N/A
2	Printer	Lenovo	LJ2200L	LP02857415 48001408	N/A
3	Printer	HP	hp LaserJet 1300	CNSJF75989	N/A
4	Mouse	Microsoft	MOC5UO	H0K00K92	N/A
5	Notebook	DELL	Inspiron 13-7378	FD5JZD2	N/A
6	Mobile	SAMSUNG	GT-S7572	R21D85CCB7N	N/A

NO.	DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	AC Line: Unshielded, Detachable 1.5m, DC Line: Unshielded, Detachable 1.5m
2	AC Line: Unshielded, Detachable 1.5m, USB Line: Unshielded, Detachable 1.5m.
3	AC Line: Unshielded, Detachable 1.5m, USB Line: Unshielded, Detachable 1.8m.
4	USB Line: Unshielded, Un-detachable 1.8m.
5	AC Line: Unshielded, Detachable 0.8m, DC Line: Unshielded, Detachable 1.8m

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#### 3 CONDUCTED EMISSION FROM THE AC MAINS POWER PORT

#### 3.1 LIMITS

Frequency (MHz)	Class A	(dBuV)	Class B (dBuV)		
	Quasi-peak	Average	Quasi-peak	Average	
0.15 - 0.5	79	66	66 - 56	56 - 46	
0.50 - 5.0	73	60	56	46	
5.0 - 30.0	73	60	60	50	

Notes: 1. The lower limit shall apply at the transition frequencies.

#### 3.2 TEST INSTRUMENT

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101494	Apr. 05,17	Apr. 04,18
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	Mar. 06,17	Mar. 05,18
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	Apr. 05,17	Apr. 04,18
Voltage probe	SCHWARZBECK	TK 9421	TK 9421-176	Jan. 04,17	Jan. 03,18
Test software	ADT	ADT_Cond _V7.3.7	N/A	N/A	N/A

**NOTE:** 1. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

2. The test was performed at Shielded Room 553.

#### 3.3 TEST ARRANGEMENT

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The test results of conducted emissions at mains ports are recorded of six worst margins for quasi-peak (mandatory) [and average (if necessary)] values against the limits at frequencies of interest unless the margin is 20 dB or greater.

Note: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

Page 7 of 21

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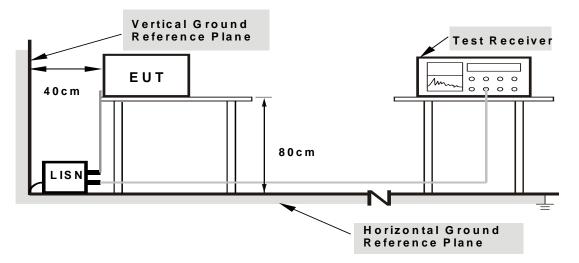
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<sup>2.</sup> The limit decreases linearly with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.



# 3.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.

#### 3.5 SUPPLEMENTARY INFORMATION

N/A

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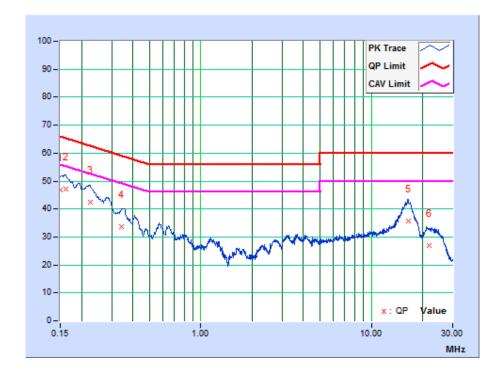


#### 3.6 TEST RESULTS

TEST MODE	Data Transmission	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	Power by PC	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25deg.C, 57% RH	TESTED BY	Dragon

No.	Freq. [MHz]	Corr. Factor	Readin [dB			Limit [dB (uV)]		Margin (dB)		
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.22	36.66	22.10	46.88	32.32	66.00	56.00	-19.12	-23.68
2	0.16093	10.22	37.07	22.33	47.29	32.55	65.42	55.42	-18.13	-22.87
3	0.22425	10.22	32.04	18.78	42.26	29.00	62.66	52.66	-20.40	-23.66
4	0.34426	10.22	23.56	13.03	33.78	23.25	59.10	49.10	-25.32	-25.85
5	16.42875	10.25	25.57	17.95	35.82	28.20	60.00	50.00	-24.18	-21.80
6	21.73200	10.27	16.63	11.57	26.90	21.84	60.00	50.00	-33.10	-28.16

**REMARKS:** The emission levels of other frequencies were very low against the limit.



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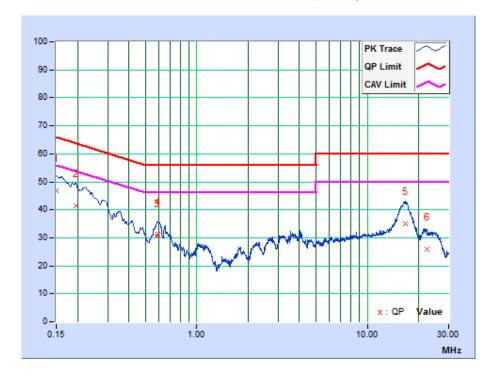
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TEST MODE	Data Transmission	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	Power by PC	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	25deg.C, 57% RH	TESTED BY	Dragon

No. Freq. Fa		Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.15000	10.01	36.84	21.69	46.85	31.70	66.00	56.00	-19.15	-24.30
2	0.19500	10.01	31.34	16.90	41.35	26.91	63.82	53.82	-22.47	-26.91
3	0.58528	10.02	20.64	15.22	30.66	25.24	56.00	46.00	-25.34	-20.76
4	0.59150	10.02	21.37	15.48	31.39	25.50	56.00	46.00	-24.61	-20.50
5	16.62225	10.13	24.94	18.06	35.07	28.19	60.00	50.00	-24.93	-21.81
6	22.25850	10.15	15.65	10.60	25.80	20.75	60.00	50.00	-34.20	-29.25

**REMARKS:** The emission levels of other frequencies were very low against the limit.



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# 4 RADIATED EMISSION MEASUREMENT

#### 4.1 LIMITS

# **4.2 OF RADIATED EMISSION MEASUREMENT**

#### FOR FREQUENCY BELOW 1000 MHz

FREQUENCY	Class A (at 10m)	Class B (at 10m)		
(MHz)	Quasi-Peak dBuV/m	Quasi-Peak dBuV/m		
30 – 230	40	30		
230 – 1000	47	37		

FREQUENCY	Class A (at 3m)	Class B (at 3m)		
(MHz)	Quasi-Peak dBuV/m	Quasi-Peak dBuV/m		
30 – 230	50	40		
230 – 1000	57	47		

# For FM receivers

Distance (m)	Source	Frequency Range	Limits dB (uV/m)		
(111)		(MHz)	Quasi-pe	ak	
	Local oscillator	≤1000	Fundamental	50	
		30 to 300	Harmonics	42	
10		300 to 1000	Harmonics	46	
	Other	30 to 230		30	
		230 to 1000		37	
	Local oscillator	≤1000	Fundamental	60	
		30 to 300	Harmonics	52	
3		300 to 1000	Harmonics	56	
	Other	30 to 230		40	
		230 to 1000		47	

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Page 11 of 21



# FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 108	1000
108 – 500	2000
500 – 1000	5000
	Up to 5 times of the highest
Above 1000	frequency or 6 GHz, whichever is
	less

# FOR FREQUENCY ABOVE 1000 MHz

EDECHENCY (CH-)	Class A (dBu	ıV/m) (at 3m)	Class B (dBuV/m) (at 3m)		
FREQUENCY (GHz)	PEAK AVERAGE		PEAK	AVERAGE	
1 to 3	76	56	70	50	
3 to 6	80	60	74	54	

**NOTE:** 1. The lower limit shall apply at the transition frequencies.

- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3. All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

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# 4.3 TEST INSTRUMENTS

#### FREQUENCY RANGE BELOW 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU26	100005	Jun. 05,17	Jun. 04,18
EMI Test Receiver	Rohde&Schwarz	ESCI	101418	Feb. 27,17	Feb. 26,18
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-555	Nov. 13, 17	Nov. 12, 18
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-554	Dec. 17, 16	Dec. 16, 17
Preamplifier	EMCI	EMC1135	980378	Mar. 20,17	Mar. 19,18
Preamplifier	EMCI	EMC1135	980423	Mar. 20,17	Mar. 19,18
10m Semi-anechoic Chamber	CHANGLING	21.4m*12.1m* 8.8m		Mar. 06,17	Mar. 05,18
Test Software	ADT	ADT_Radiated _V8.7.07	N/A	N/A	N/A

NOTES: 1. The test was performed in 10m Chamber.

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.

#### FREQUENCY RANGE ABOVE 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Horn Antenna	ETS-Lindgren	3117	00085519	Dec. 30, 15	Dec. 29, 17
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170242	Mar. 15,17	Mar. 14,18
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV40	101003	Apr. 05,17	Apr. 04,18
Broadband Preamplifier	SCHWARZBECK	BBV9718	266	Mar. 21,17	Mar. 20,18
Pre-Amplifier (100MHz-26.5GHz)	EMCI	EMC 012645	980077	May 19,17	May 18,18
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Nov. 04,17	Nov. 03,18
Test Software	ADT	ADT_Radiated _V8.7.07	N/A	N/A	N/A

NOTES: 1. The test was performed in 10m Chamber.

2. The calibration interval of the above test instruments is 12 or 24 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

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#### **4.4 TEST PROCEDURE**

#### <Frequency Range below 1GHz>

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from 1 meter to 4 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 quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.

#### NOTE:

- 1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
- 3. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier);
- 4. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) Amplifier Gain(dB) (if the raw value contains the amplifier).
- 5. Margin value = Emission level Limit value.

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### <Frequency Range above 1GHz>

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter chamber room. 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 height of antenna can be varied from one meter-to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test receiver/spectrum was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.

#### NOTE:

- 1. The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak detection at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz for Average detection (AV) at frequency above 1GHz.
- 2. For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the receiver antenna.
- 3. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
- 4. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier);
- 5. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) Amplifier Gain(dB) (if the raw value contains the amplifier).
- 6. Margin value = Emission level Limit value.

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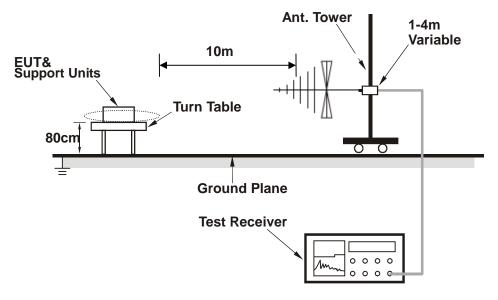
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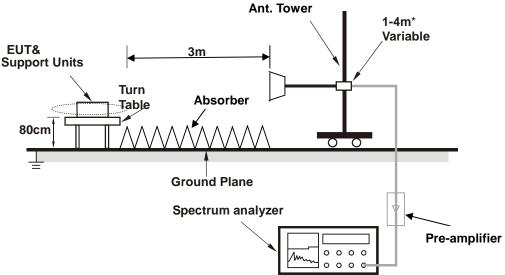


#### 4.5 TEST SETUP

### <Frequency Range below 1GHz>



#### <Frequency Range above 1GHz>



\*: depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3

# 4.6 SUPPLEMENTARY INFORMATION

The more stringent measurement method of paragraph 8.3.2 in ANSI C63.4:2014 was applied for the test.

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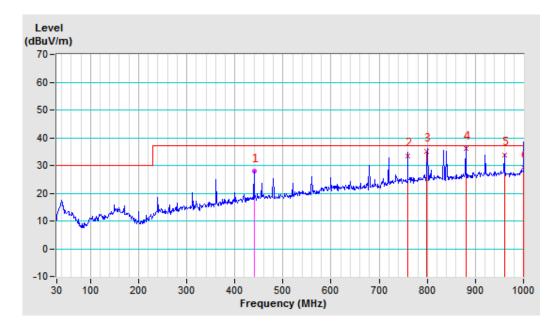
# 4.7 TEST RESULTS

TEST MODE	Data Transmission					
FREQUENCY RANGE	30-1000MHz	DETECTOR FUNCTION & BANDWIDTH	Quasi-Peak, 120kHz			
ENVIRONMENTAL CONDITIONS	21deg. C, 59% RH	TESTED BY: Luke				

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 10 M									
	Freq.	Correction	Raw	Emission	Limit (dBuV/m)	Margin (dB)	Antenna	Table	
No.	(MHz)	Factor	Value	Level			Height	Angle	
(IV	(1011 12)	(dB/m)	(dBuV)	(dBuV/m)			(cm)	(Degree)	
1	439.946	-10.90	38.73	27.83	37.00	-9.17	200	106	
2	760.045	-4.14	37.54	33.40	37.00	-3.60	200	331	
3	799.314	-3.75	38.95	35.20	37.00	-1.80	400	331	
4	879.881	-2.67	38.67	36.00	37.00	-1.00	400	142	
5	960.114	-1.60	35.30	33.70	37.00	-3.30	400	16	
6	1000.000	-1.36	30.56	29.20	37.00	-7.80	400	29	

**REMARKS:** 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

- 2. Negative sign (-) in the margin column signify levels below the limit.
- 3. Frequency range scanned: 30MHz to 1000MHz.
- 4. Only emissions significantly above equipment noise floor are reported.



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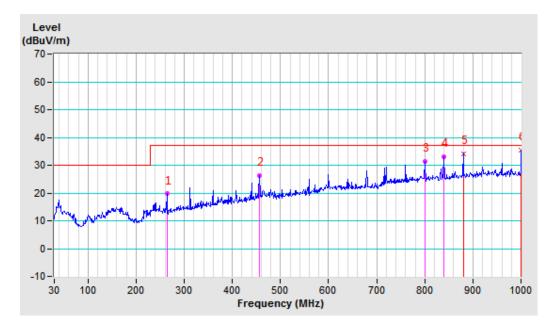


TES	ST MODE	Ē [	Data Transmission						
FREQUENCY RANGE			30-1000MHz		DETECTOR FUNCTION BANDWID	1 &	Quasi-Peak, 120kHz		
ENVIRONMENTAL CONDITIONS			21deg. C, 59	% RH	TESTED BY: Luke				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 10 M									
No.	Freq. (MHz)	Correction	n Raw Value	Emission Level	Limit (dBuV/m)	Margin (dB)	Antenna Height	Table Angle	

	ANTENNA POLAKITT & TEST DISTANCE. VERTICAL AT 10 W								
Freq.	Correction	Raw	Emission	Limit	Margin	Antenna	Table		
No.	(MHz)	Factor	Value	Level	(dBuV/m)	(dB)	Height	Angle	
	(IVITZ)	(dB/m)	(dBuV)	(dBuV/m)			(cm)	(Degree)	
1	264.013	-16.10	35.78	19.68	37.00	-17.32	100	130	
2	455.951	-10.46	36.80	26.34	37.00	-10.66	300	1	
3	799.938	-3.74	35.08	31.34	37.00	-5.66	300	13	
4	840.071	-3.21	36.18	32.97	37.00	-4.03	100	360	
5	879.963	-2.67	36.77	34.10	37.00	-2.90	300	36	
6	1000.000	-1.36	36.76	35.40	37.00	-1.60	300	116	

**REMARKS:** 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

- 2. Negative sign (-) in the margin column signify levels below the limit.
- 3. Frequency range scanned: 30MHz to 1000MHz.
- 4. Only emissions significantly above equipment noise floor are reported.



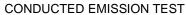
Tel: +86 769 8593 5656 Fax: +86 769 8593 1080

Email: customerservice.dg@cn.bureauveritas.com

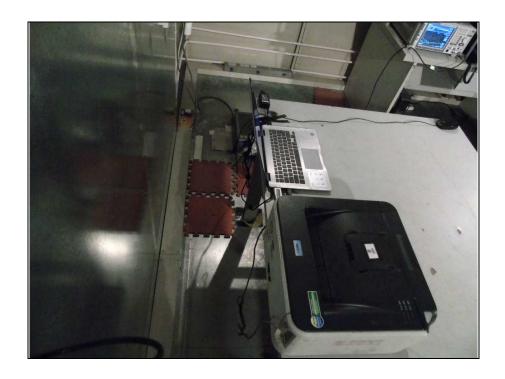
Page 18 of 21



# 5 PHOTOGRAPHS OF THE TEST CONFIGURATION

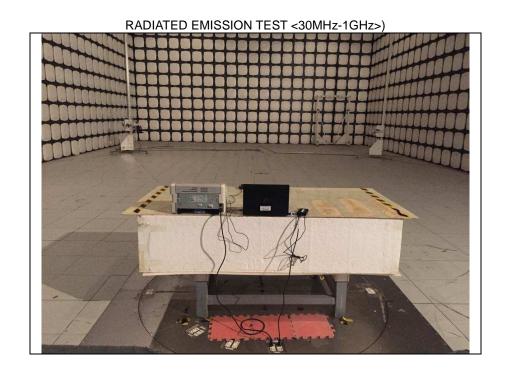


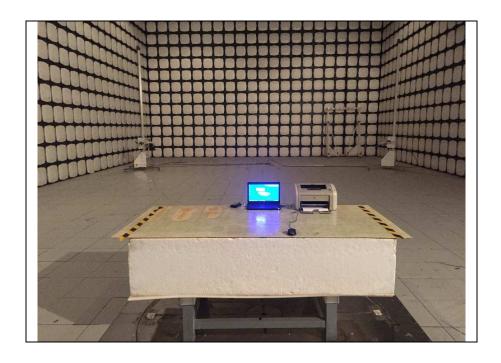




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# 6 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

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

**END** 

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