CERTIFICATE OF CONFORMITY

Product	:	Power Supply
Test Model	:	YSEF2000CM
Series Model	:	YSEB2000AM, YSEF2000AM, YSEF2000EM, YSEF1800CM, YSEB1800AM, YSEF1800AM, YSEF1800EM, YSEF1600CM, YSEB1600AM, YSEF1600AM, YSEF1600EM
Applicant	:	3Y POWER TECHNOLOGY (TAIWAN) INC.
Report No.	:	FD190722D07 R1

We, **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, declare that the equipment above has been tested in our facility and found compliance with the requirement limits of applicable standards. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate under the standards herein specified.

47 CFR FCC Part 15, Subpart B, Class A

ICES-003:2016 Issue 6, updated Apr. 2019 Class A

ANSI C63.4:2014

Jim Hsiang / Associate Technical Manager

Nov. 20, 2019

No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

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Cancels and replaces the Certificate No.: FD190722D07C dated Oct. 9, 2019

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard:	**ICES-003: 2020 Issue 7, Class A** **ICES-Gen: 2018 Issue 1 +A1:2021** **ANSI C63.4-2014 amended as per ANSI C63.4a-2017**
Report No.:	CIBDAO-WTW-P20080396A
Product:	Power Supply
Model No.:	YSEF2000CM
Series Model:	YSEF2000AM, YSEF2000EM, YSEF1800CM, YSEF1800AM, YSEF1800EM, YSEF1600CM, YSEF1600AM, YSEF1600EM
Received Date:	Jul. 22, 2019
Test Date:	Sep. 19 to Oct. 4, 2019
Issued Date:	Dec. 8, 2023
Applicant:	3Y Power Technology (Taiwan) Inc.
Address:	2nd FL 576, 578 Minsheng N RD SEC 1 Gueishan District Taoyuan 333 Taiwan
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
Test Location:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Approved by: Jim Hsiang , **Date:** Dec. 8, 2023

Jim Hsiang / Associate Technical Manager

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Prepared by : Annie Chang / Senior Specialist

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/ and 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. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. 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 your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

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Release Control Record

Issue No.	Description	Date Issued
CIBDAO-WTW-P20080396A	Original release.	Dec. 8, 2023

1 Certificate

Product:	Power Supply
Test Model:	YSEF2000CM
Series Model:	YSEF2000AM, YSEF2000EM, YSEF1800CM, YSEF1800AM, YSEF1800EM, YSEF1600CM, YSEF1600AM, YSEF1600EM
Sample Status:	Engineering sample
Applicant:	3Y Power Technology (Taiwan) Inc.
Test Date:	Sep. 19 to Oct. 4, 2019
Standard:	ICES-003: 2020 Issue 7, Class A ICES-Gen: 2018 Issue 1 +A1:2021 ANSI C63.4-2014 amended as per ANSI C63.4a-2017

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

2 Summary of Test Results

The test items that the EUT need to perform in accordance with its interfaces, evaluated functions, are as follows:

Standard	Test Item	Result	Remark
ICES-003	Conducted Emissions from Power Ports	Pass	Minimum passing Class A margin is -6.12 dB at 13.64190 MHz
ICES-003	Radiated Emissions up to 1 GHz	Pass	Minimum passing Class A margin is -9.55 dB at 141.28 MHz

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 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:

Measurement	Specification	Expanded Uncertainty (k=2) (±)	Maximum allowable uncertainty (±)
Conducted Emissions from Power Ports	9 kHz ~ 30 MHz	2.79 dB	3.4 dB (U_{cispr})
Radiated Emissions up to 1 GHz	30 MHz ~ 1 GHz	4.02 dB	6.3 dB (U_{cispr})

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

3 General Information

3.1 Description of EUT

Product	Power Supply
Test Model	YSEF2000CM
Series Model	YSEF2000AM, YSEF2000EM, YSEF1800CM, YSEF1800AM, YSEF1800EM, YSEF1600CM, YSEF1600AM, YSEF1600EM
Model Difference	Refer to note as below
Sample Status	Engineering sample
Operating Software	N/A
Power Supply Rating	Refer to note as below
Accessory Device	N/A
Data Cable Supplied	N/A

Note:

1. This report is a supplementary report of the original one (BV CPS report No.: FD190722D07 R1). The difference compared with original report is listing as below; therefore only the limit of Radiated test below 1GHz updated to ICES-003:2020 Issue 7. The other test data was copied from original test report. And all data are verified to meet the requirements.
   - ✧ Upgrade ICES-003 standard version from issue 6 to issue 7
   - ✧ Delete Model: YSEB2000AM, YSEB1800AM, YSEB1600AM

2. The EUT is a Power Supply (AC 3 Pin) and it has several models, which are identical to each other except for as follows:

Model	I/P Rating	O/P Rating	Total DC output power
YSEF2000CM	100-120Vac, 50-60Hz, 13A	+12.2V/81A,+12Vsb/2A	1000W Max.
	200-240Vac, 50-60Hz, 12.5A	+12.2V/162A,+12Vsb/2A	2000W Max.
YSEF2000AM, YSEF2000EM	100-120Vac, 50-60Hz, 13A	+12.2V/81A,+12Vsb/2A	1000W Max.
	200-240Vac, 50-60Hz, 10A	+12.2V/146A,+12Vsb/2A	1800W Max.
	220-240Vac, 50-60Hz, 10A	+12.2V/162A,+12Vsb/2A	2000W Max
YSEF1800CM	100-120Vac, 50-60Hz, 13A	+12.2V/81A,+12Vsb/2A	1000W Max.
	200-240Vac, 50-60Hz, 10A	+12.2V/146A,+12Vsb/2A	1800W Max.
YSEF1800AM, YSEF1800EM	100-120Vac, 50-60Hz, 13A	+12.2V/81A,+12Vsb/2A	1000W Max.
	200-240Vac, 50-60Hz, 10A	+12.2V/146A,+12Vsb/2A	1800W Max.
YSEF1600CM, YSEF1600AM, YSEF1600EM	100-120Vac, 50-60Hz, 13A	+12.2V/81A,+12Vsb/2A	1000W Max.
	200-240Vac, 50-60Hz, 10A	+12.2V/130A,+12Vsb/2A	1600W Max.

3.2 Primary Clock Frequencies of Internal Source

The highest frequency generated or used within the EUT or on which the EUT operates or tunes is 100 kHz, provided by 3Y Power Technology (Taiwan) Inc., for detailed internal source, please refer to the manufacturer's specifications.

3.3 Features of EUT

The tests reported herein were performed according to the method specified by 3Y Power Technology (Taiwan) Inc., for detailed feature description, please refer to the manufacturer's specifications or user's manual.
Please refer to appendix of the report if the applicant has provided additional descriptions of the EUT.

3.4 Operating Modes of EUT and Determination of Worst Case Operating Mode

EUT has been pre-tested under following test modes, and test **mode 1** was the worst case for final test.

Mode	Model	Test Condition
1	YSEF2000CM	Full Load
2	YSEF2000AM	
3	YSEF2000EM	
4	YSEF1800CM	
5	YSEF1800AM	
6	YSEF1800EM	
7	YSEF1600CM	
8	YSEF1600AM	
9	YSEF1600EM	

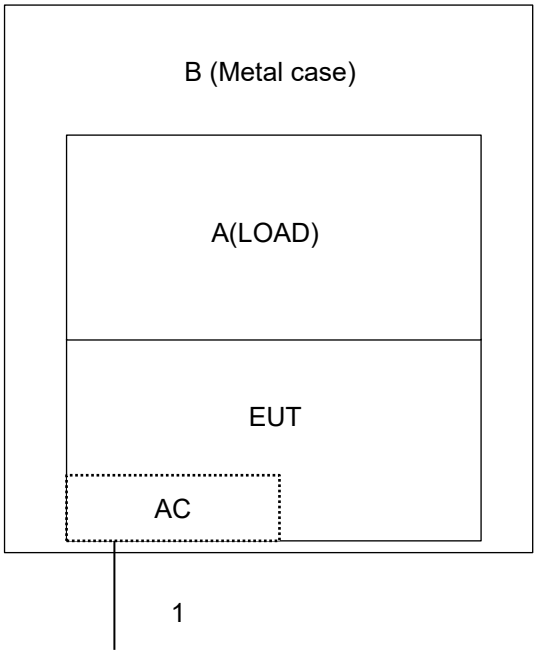
Test modes are presented in the report as below.

Test Condition	
Mode	Conducted Emissions from Power Ports
A	YSEF2000CM + full load + Input Power(120 Vac, 60 Hz)
Mode	Radiated Emissions up to 1 GHz
A	YSEF2000CM + full load + Input Power(120 Vac, 60 Hz)

3.5 Test Program Used and Operation Descriptions

Connected a resistor load with EUT and installed both of them into a metal case and then set the EUT under full resistor load for the test.

3.6 Connection Diagram of EUT and Peripheral Devices



3.7 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	LOAD	N/A	N/A	N/A	N/A	Supplied by applicant
B	Metal case	N/A	N/A	N/A	N/A	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	AC power cable	1	1.8	No	0	Provided by Lab

4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 Conducted Emissions from Power Ports

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
ROHDE & SCHWARZ TEST RECEIVER	ESCS 30	100290	Dec. 18, 2018	Dec. 17, 2019
ROHDE & SCHWARZ Artificial Mains Network (for EUT)	ENV216	101197	Jun. 5, 2019	Jun. 4, 2020
LISN With Adapter (for EUT)	101197	NA	Jun. 5, 2019	Jun. 4, 2020
ROHDE & SCHWARZ Artificial Mains Network (for peripherals)	ESH3-Z5	100218	Nov. 30, 2018	Nov. 29, 2019
SCHWARZBECK Artificial Mains Network (For EUT)	NNLK8129	8129229	May 14, 2019	May 13, 2020
SCHWARZBECK Artificial Mains Network (For EUT)	NNLK 8121	8121-808	Mar. 15, 2019	Mar. 14, 2020
Software	Cond_V7.3.7.4	NA	NA	NA
RF cable (JYEBAO) With 10dB PAD	5D-FB	Cable-C10.01	Feb. 13, 2019	Feb. 12, 2020
LYNICS Terminator (For ROHDE & SCHWARZ LISN)	0900510	E1-011484	May 13, 2019	May 12, 2020
ROHDE & SCHWARZ Artificial Mains Network (For TV EUT)	ENV216	101196	Apr. 16, 2019	Apr. 15, 2020
LISN With Adapter (for TV EUT)	101196	NA	Apr. 16, 2019	Apr. 15, 2020

Notes:

1. The test was performed in Shielded Room No. 10.
2. The VCCI Site Registration No. C-11852.
3. Tested Date: Oct. 4, 2019

4.2 Radiated Emissions up to 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
ROHDE & SCHWARZ TEST RECEIVER	ESCS 30	100027	May 13, 2019	May 12, 2020
Schwarzbeck Bilog Antenna	VULB9168	9168-303	Nov. 22, 2018	Nov. 21, 2019
Agilent Preamplifier	8447D	2944A08119	Feb. 20, 2019	Feb. 19, 2020
ADT. Turn Table	TT100	0205	NA	NA
ADT. Tower	AT100	0205	NA	NA
Software	Radiated_V7.6.15.9.5	NA	NA	NA
ADT RF Switches BOX	EMH-011	1001	Oct. 25, 2018	Oct. 24, 2019
Pacific RF cable With 5dB PAD	8D	CABLE-ST2-01	Oct. 25, 2018	Oct. 24, 2019

Notes:

1. The test was performed in Open Site No. 2.
2. The VCCI Site Registration No. R-237.
3. Tested Date: Sep. 19, 2019

5 Limits of Test Items

5.1 Conducted Emissions from Power Ports

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

5.2 Radiated Emissions up to 1 GHz

Frequency range (MHz)	Class A (3 m) Quasi-peak dBµV/m	Class A (10 m) Quasi-peak dBµV/m	Class B (3 m) Quasi-peak dBµV/m	Class B (10 m) Quasi-peak dBµV/m
30-88	50.0	40.0	40.0	30.0
88-216	54.0	43.5	43.5	33.1
216-230	56.9	46.4	46.0	35.6
230-960	57.0	47.0	47.0	37.0
960-1000	60.0	49.5	54.0	43.5

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

6 Test Arrangements

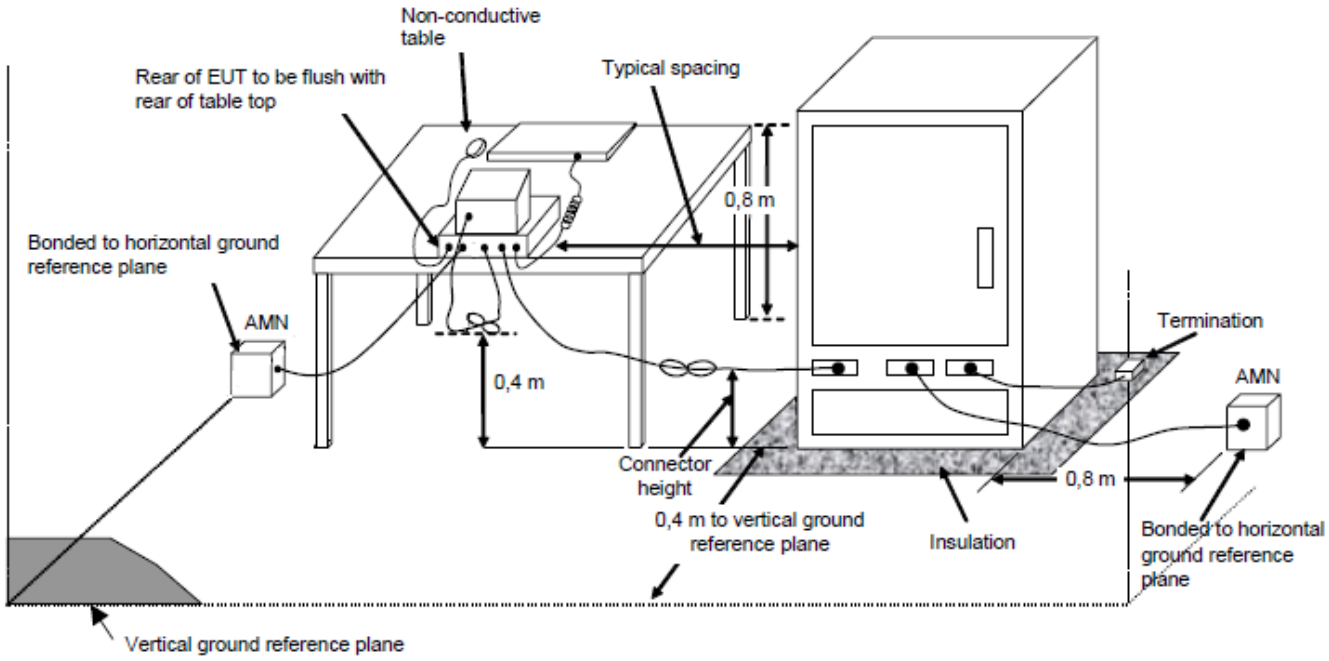
6.1 Conducted Emissions from Power Ports

a. For the table-top EUT is placed on a 0.8 meter insulation table; for the floor standing EUT shall be insulated (by insulation of 12 mm) from the horizontal reference ground plane. The EUT is 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 are connected to the power mains through another LISN. They provide 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.

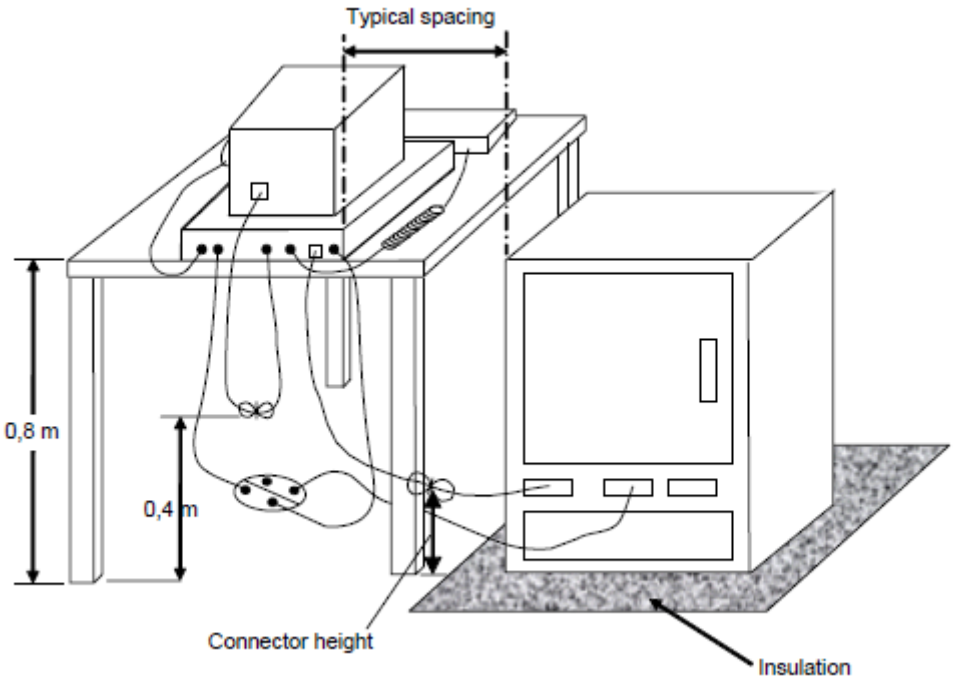


For the actual test configuration, please refer to the related Item – Photographs of the Test Configuration.

6.2 Radiated Emissions up to 1 GHz

a. For the table-top EUT is placed on a 0.8 meter to the top of rotating table; for the floor standing EUT shall be insulated (by insulation of 12 mm) from the horizontal reference ground plane. The rotating table is rotated 360 degrees to determine the position of the highest radiation. If the equipment requires a dedicated ground connection, this shall be provided and bonded to the RGP.
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 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 quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is up to 1 GHz.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for quasi-peak detection (QP) at frequency up to 1GHz.



For the actual test configuration, please refer to the related Item – Photographs of the Test Configuration.

7 Test Results of Test Item

7.1 Conducted Emissions from Power Ports

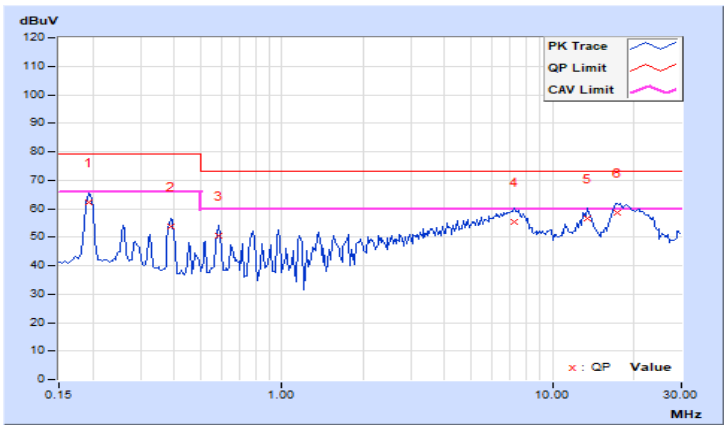
Mode A

Frequency Range	150kHz ~ 30MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	**Environmental Conditions**	25℃, 66%RH
Tested by	John Liao		

Phase Of Power : Line (L)										
No	**Frequency (MHz)**	**Correction Factor (dB)**	**Reading Value (dBuV)**		**Emission Level (dBuV)**		**Limit (dBuV)**		**Margin (dB)**	
			Q.P.	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**
1	0.19297	9.65	52.72	49.79	62.37	59.44	79.00	66.00	-16.63	-6.56
2	0.38828	9.67	44.08	38.45	53.75	48.12	79.00	66.00	-25.25	-17.88
3	0.58359	9.69	40.98	34.61	50.67	44.30	73.00	60.00	-22.33	-15.70
4	7.22656	9.87	45.58	33.73	55.45	43.60	73.00	60.00	-17.55	-16.40
5	13.51163	9.96	46.52	43.91	56.48	53.87	73.00	60.00	-16.52	-6.13
6	17.28125	9.99	48.55	40.01	58.54	50.00	73.00	60.00	-14.46	-10.00

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

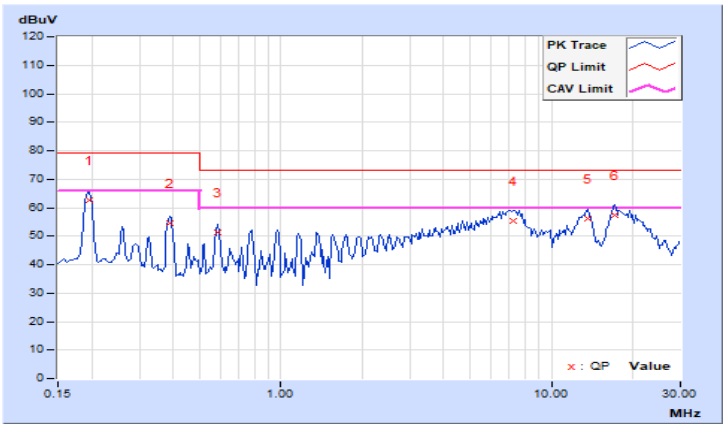


Frequency Range	150kHz ~ 30MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	**Environmental Conditions**	25℃, 66%RH
Tested by	John Liao		

Phase Of Power : Neutral (N)										
No	**Frequency (MHz)**	**Correction Factor (dB)**	**Reading Value (dBuV)**		**Emission Level (dBuV)**		**Limit (dBuV)**		**Margin (dB)**	
			Q.P.	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**
1	0.19687	9.67	52.86	49.63	62.53	59.30	79.00	66.00	-16.47	-6.70
2	0.38828	9.70	44.70	39.12	54.40	48.82	79.00	66.00	-24.60	-17.18
3	0.58359	9.72	41.67	34.47	51.39	44.19	73.00	60.00	-21.61	-15.81
4	7.26563	9.91	45.32	35.66	55.23	45.57	73.00	60.00	-17.77	-14.43
5	**13.64190**	**10.02**	**46.28**	**43.86**	**56.30**	**53.88**	**73.00**	**60.00**	**-16.70**	**-6.12**
6	17.08594	10.05	47.32	39.63	57.37	49.68	73.00	60.00	-15.63	-10.32

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



7.2 Radiated Emissions up to 1 GHz

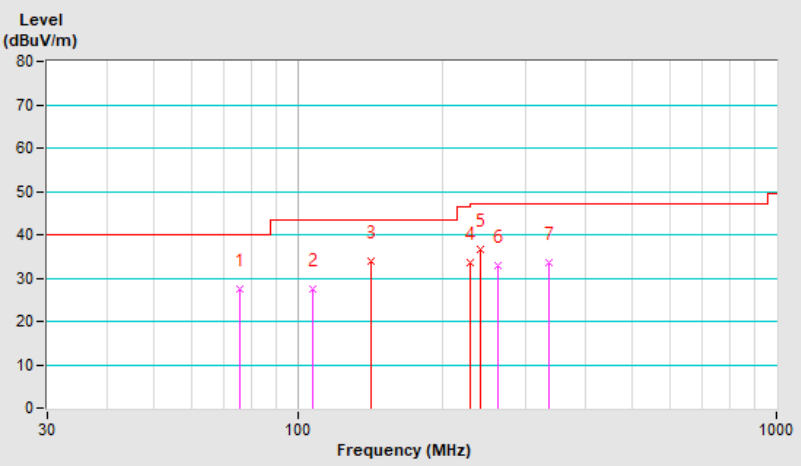
Mode A

Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP), 120 kHz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	30°C, 54% RH
Tested By	Vincent Lin		

Antenna Polarity & Test Distance : Horizontal at 10 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	75.67	27.36 QP	40.00	-12.64	4.00 H	208	41.58	-14.22
2	107.37	27.32 QP	43.50	-16.18	4.00 H	348	40.66	-13.34
3	142.20	33.90 QP	43.50	-9.60	4.00 H	50	44.30	-10.40
4	229.43	33.70 QP	46.40	-12.70	4.00 H	212	45.61	-11.91
5	241.59	36.61 QP	47.00	-10.39	4.00 H	246	47.57	-10.96
6	262.03	32.90 QP	47.00	-14.10	4.00 H	237	43.19	-10.29
7	335.76	33.46 QP	47.00	-13.54	4.00 H	203	41.64	-8.18

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) – Pre-Amplifier Factor (dB)
3. Margin value = Emission level – Limit value
4. The other emission levels were very low against the limit.

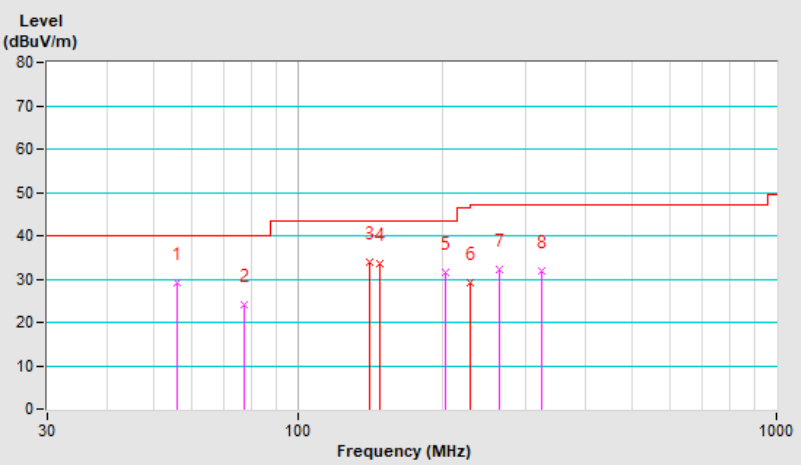


Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP), 120 kHz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	30°C, 54% RH
Tested By	Vincent Lin		

Antenna Polarity & Test Distance : Vertical at 10 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	55.95	29.25 QP	40.00	-10.75	1.00 V	180	39.93	-10.68
2	77.42	23.98 QP	40.00	-16.02	1.00 V	254	38.62	-14.64
3	**141.28**	**33.95 QP**	**43.50**	**-9.55**	**1.00 V**	**146**	**44.44**	**-10.49**
4	148.13	33.47 QP	43.50	-10.03	1.00 V	332	43.73	-10.26
5	203.16	31.37 QP	43.50	-12.13	1.00 V	298	44.02	-12.65
6	229.70	29.10 QP	46.40	-17.30	1.00 V	180	40.99	-11.89
7	263.69	32.21 QP	47.00	-14.79	1.00 V	41	42.42	-10.21
8	322.33	31.98 QP	47.00	-15.02	1.00 V	125	40.33	-8.35

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) – Pre-Amplifier Factor (dB)
3. Margin value = Emission level – Limit value
4. The other emission levels were very low against the limit.



8 Pictures of Test Arrangements

8.1 Conducted Emissions from Power Ports

Mode A

8.2 Radiated Emissions up to 1 GHz

Mode A

9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

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The address and road map of all our labs can be found in our web site also.

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