

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: ICES-003: 2020 Issue 7, Class A

ICES-Gen: 2024 Issue 2

ANSI C63.4-2014 amended as per ANSI C63.4a-2017

Report No.: CIBDBO-WTW-P25060235

Product: Arm-based Edge AI Computing

Brand: Vecow

Model No.: EAC-4000

Series Model: EAC-4XXXXXXXXXXXXXXXXX ("X" can be 0-9, A-Z, - or blank for marketing purpose)

Received Date: 2025/6/10

Test Date: 2025/7/3 ~ 2025/7/4

Issued Date: 2025/8/5

Applicant: Vecow Co., Ltd.

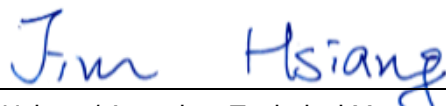
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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

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

Approved by:


Jim Hsiang / Associate Technical Manager

Date:

2025/8/5

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Prepared by : Jessica Cheng/ Senior Specialist

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Table of Contents

Release Control Record	3
1 Certificate.....	4
2 Summary of Test Results	5
2.1 Measurement Uncertainty	5
2.2 Supplementary Information	5
3 General Information	6
3.1 Description of EUT	6
3.2 Primary Clock Frequencies of Internal Source.....	6
3.3 Features of EUT	6
3.4 Operating Modes of EUT and Determination of Worst Case Operating Mode	7
3.5 Test Program Used and Operation Descriptions	8
3.6 Connection Diagram of EUT and Peripheral Devices	8
3.7 Configuration of Peripheral Devices and Cable Connections	9
4 Test Instruments	10
4.1 Conducted Emissions from Power Ports.....	10
4.2 Radiated Emissions up to 1 GHz	11
4.3 Radiated Emissions above 1 GHz.....	12
5 Limits of Test Items.....	13
5.1 Conducted Emissions from Power Ports.....	13
5.2 Radiated Emissions up to 1 GHz	13
5.3 Radiated Emissions above 1 GHz.....	13
6 Test Arrangements.....	14
6.1 Conducted Emissions from Power Ports.....	14
6.2 Radiated Emissions up to 1 GHz	15
6.3 Radiated Emissions above 1 GHz.....	16
7 Test Results of Test Item	17
7.1 Conducted Emissions from Power Ports.....	17
7.2 Radiated Emissions up to 1 GHz	21
7.3 Radiated Emissions above 1 GHz.....	23
8 Pictures of Test Arrangements	25
8.1 Conducted Emissions from Power Ports.....	25
8.2 Radiated Emissions up to 1 GHz	27
8.3 Radiated Emissions above 1 GHz.....	28
9 Information of the Testing Laboratories	29

Release Control Record

Issue No.	Description	Date Issued
CIBDBO-WTW-P25060235	Original release.	2025/8/5

1 Certificate

Product: Arm-based Edge AI Computing

Brand: Vecow

Test Model: EAC-4000

Series Model: EAC-4XXXXXXXXXXXXXXXXX ("X" can be 0-9, A-Z, - or blank for marketing purpose)

Sample Status: Engineering sample

Applicant: Vecow Co., Ltd.

Test Date: 2025/7/3 ~ 2025/7/4

Standard: ICES-003: 2020 Issue 7, Class A

ICES-Gen: 2024 Issue 2

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 -21.93 dB at 0.16125 MHz
ICES-003	Radiated Emissions up to 1 GHz	Pass	Minimum passing Class A margin is -8.86 dB at 148.51 MHz
ICES-003	Radiated Emissions above 1 GHz	Pass	Minimum passing Class A margin is -19.84 dB at 6960.70 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	2.90 dB	3.4 dB (U_{CISPR})
Radiated Emissions up to 1 GHz	30 MHz ~ 1 GHz	3m : 5.54 dB 10m : 4.16 dB	6.3 dB (U_{CISPR})
Radiated Emissions above 1 GHz	1 GHz ~ 6 GHz	4.64 dB	5.2 dB (U_{CISPR})
	6 GHz ~ 18 GHz	4.46 dB	5.5 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	Arm-based Edge AI Computing
Brand	Vecow
Test Model	EAC-4000
Series Model	EAC-4XXXXXXXXXXXXXXXXX ("X" can be 0-9, A-Z, - or blank for marketing purpose)
Sample Status	Engineering sample
Power Supply Rating	Refer to note as below

Note:

1. The EUT uses following accessories.

Item	Brand	Model	Specification
AC Adapter	FSP	FSP060-DHAN3	AC Input : AC 100-240V, 50-60Hz, 1.8A (3Pin) DC Output : DC 12V, 5.0A, 60.0W (1.15m, with a core)

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 1.42 GHz, provided by Vecow Co., Ltd., 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 Vecow Co., Ltd., 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.

The EUT configured with the following key components:

Component	Specification
CPU	NVIDIA Jetson Orin™ NX/Nano, up to 100 TOPS AI performance (Orin Nano Super Mode Supported)
RAM	Up to 16GB LPDDR5
SSD	128GB NVMe

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

The EUT has been pre-tested under following test modes.

Test Condition	
Mode	Radiated Emissions up to 1 GHz
1	Full system,HDMI 3840*2160,60Hz,Lan 1G link + upright
2	Full system,HDMI 3840*2160,60Hz,Lan 1G link + lie flat
Note: The worst case is mode 2 shown in bold.	

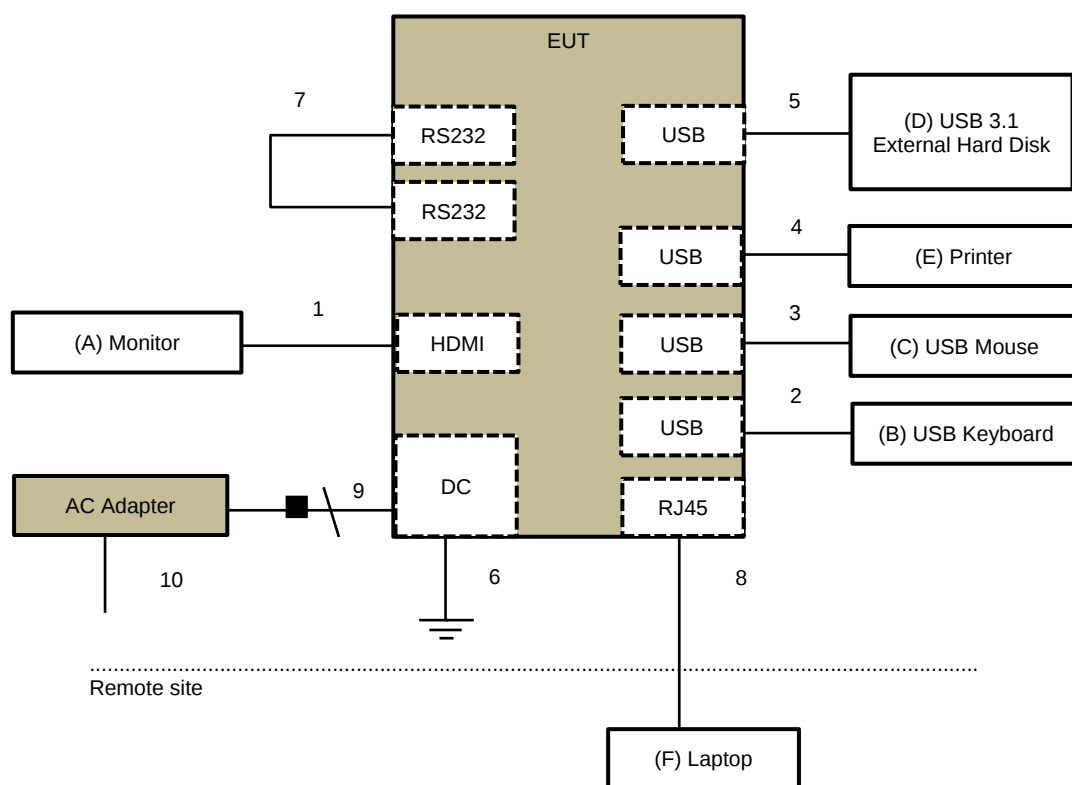
Test modes are presented in the report as below.

Test Condition	
Mode	Conducted Emissions from Power Ports
A	Full system,HDMI 3840*2160,60Hz,Lan 1G link + lie flat + Input Power(120 Vac, 60 Hz)
B	Full system,HDMI 3840*2160,60Hz,Lan 1G link + lie flat + Input Power(240 Vac, 60 Hz)
Mode	Radiated Emissions up to 1 GHz
A	Full system,HDMI 3840*2160,60Hz,Lan 1G link + lie flat + Input Power(120 Vac, 60 Hz)
Mode	Radiated Emissions above 1 GHz
A	Full system,HDMI 3840*2160,60Hz,Lan 1G link + lie flat + Input Power(120 Vac, 60 Hz)

3.5 Test Program Used and Operation Descriptions

- Turned on the power of all equipment.
- EUT ran a test program (BurnIntest) to enable all functions.
- EUT read and wrote messages to/ from internal and external storage devices.
- EUT sent (H) message to monitor, and then displayed message on its screen.
- Laptop sent and received messages to/ from EUT via Lan cable.
- EUT sent messages to printer and printer printed them out.

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	Monitor	ASUS	PA279CV	M7LMTF235958	DoC	Provided by Lab
B	USB Keyboard	Dell	KB216t	CN-0W33XP- LO300-7CL-191E	N/A	Provided by Lab
C	USB Mouse	DELL	MOCZUL	CN-049TWY- PRC00-77B-008E	N/A	Provided by Lab
D	USB 3.1 External Hard Disk	Transcend	SSD220S	SK21D1636D00W5	DoC	Provided by Lab
E	Printer	HP	HP Officejet Pro 251dW	N/A	B94SDGOB1191	Provided by Lab
F	Laptop	LENOVO	T480	PF1EZSA2	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	HDMI	1	2	Y	0	Provided by Lab
2	USB	1	1.8	Y	0	Provided by Lab
3	USB	1	1.8	Y	0	Provided by Lab
4	USB	1	1.8	Y	0	Provided by Lab
5	USB	1	1	Y	0	Provided by Lab
6	GND (PE)	1	1.5	N	0	Provided by Lab
7	RS232	1	0.1	N	0	Supplied by applicant
8	Cat. 5e	1	10	N	0	Provided by Lab
9	Power	1	0.2	N	0	Supplied by applicant
10	Power	1	1.8	N	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
50 ohm terminal resistance LYNICS	0900510	E1-01-305	2025/2/20	2026/2/19
		E1-011484	2024/8/12	2025/8/11
Diode Pulse Limiter Schwarzbeck	VTSD 9561 F-N	01622	2025/5/2	2026/5/1
EMI Test Receiver R&S	EPL 1000	101064	2025/4/17	2026/4/16
Fixed Attenuator STI	STI02-2200-10	NO.1	2024/9/12	2025/9/11
Highpass filter EMCI	150HPF-ME	114005	2025/5/2	2026/5/1
		114006	2025/5/2	2026/5/1
	150HPF-MF	113009	2025/5/2	2026/5/1
LISN R&S	ENV216	100024	2024/9/6	2025/9/5
		101196	2025/5/19	2026/5/18
		101197	2024/7/11	2025/7/10
LISN Schwarzbeck	NNLK 8121	8121-00759	2024/8/20	2025/8/19
		8121-808	2025/4/23	2026/4/22
	NNLK 8129	00624	2024/10/9	2025/10/8
		8129229	2024/10/14	2025/10/13
RF Coaxial Cable PEWC	5D-FB	Cable-CO10-01	2025/2/5	2026/2/4
Software BVADT	Cond_V7.4.1.0	N/A	N/A	N/A

Notes:

1. The test was performed in Linkou Conduction 10.
2. The VCCI Site Registration No. C-11852.
3. Tested Date: 2025/7/3

4.2 Radiated Emissions up to 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
ADT. Tower	AT100	0205	N/A	N/A
ADT. Turn Table	TT100	0205	N/A	N/A
Bi_Log Antenna schaffner	CBL 6111D	22270	2024/10/8	2025/10/7
Coupling / Decoupling Network Schwarzbeck	CDNE-M2	00097	2025/5/28	2026/5/27
	CDNE-M3	00091	2025/3/20	2026/3/19
EMI Test Receiver R&S	ESCS 30	100292	2024/9/18	2025/9/17
Fixed Attenuator Mini-Circuits	UNAT-5+	PAD-ST2-01	2024/10/19	2025/10/18
Preamplifier HP	8447D	2727A05786	2025/2/14	2026/2/13
RF Coaxial Cable Pacific	8D-FB	Cable-ST2-01	2024/11/6	2025/11/5
Software BVADT	Radiated_V8.8.09	N/A	N/A	N/A

Notes:

1. The test was performed in Linkou Open Site2 , The test site validated date: 2024/7/13 (NSA)
2. The VCCI Site Registration No. R-10237.
3. Tested Date: 2025/7/4

4.3 Radiated Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fix tool for Boresight antenna tower BV	BAF-01	9	N/A	N/A
Fixed Attenuator Mini-Circuits	BW-K3-2W44+	PAD-CH7-03	2024/7/5 2025/7/4	2025/7/4 2026/7/3
	BW-N4W5+	PAD-CH10-02	2024/7/5 2025/7/4	2025/7/4 2026/7/3
Horn Antenna EMCO	3115	6714	2024/11/10	2025/11/9
Horn Antenna ETS-Lindgren	3117-PA	00215857	2024/11/10	2025/11/9
Horn Antenna Schwarzbeck	BBHA 9170	BBHA9170190	2024/11/10	2025/11/9
MXA Signal Analyzer Keysight	N9020B	MY60110438	2024/12/5	2025/12/4
		MY60112260	2025/5/26	2026/5/25
Notch Filter Micro-Tronics	BRC50703-01	010	2025/5/22	2026/5/21
	BRM17690	005	2025/5/22	2026/5/21
Preamplifier EMCI	EMC0126545	980076	2025/2/14	2026/2/13
	EMC184045B	980235	2025/2/14	2026/2/13
Preamplifier HP	8449B	3008A01292	2025/2/14	2026/2/13
RF Coaxial Cable EMEC	EM102-KMKM-100	02	2024/7/5 2025/7/4	2025/7/4 2026/7/3
	EM102-KMKM-350	01	2024/7/5 2025/7/4	2025/7/4 2026/7/3
Software BVADT	Radiated_V8.8.09	N/A	N/A	N/A
Turn Table & Tower Max Full	MF7802	MF780208216	N/A	N/A

Notes:

1. The test was performed in Linkou 966 Chamber 3 (CH 10).
2. The VCCI Site Registration No. G-10427.
3. Tested Date: 2025/7/3 ~ 2025/7/4

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.

5.3 Radiated Emissions above 1 GHz

Required highest measurement frequency

Highest internal frequency (F_X)	Highest measurement frequency (F_M) (GHz)
$F_X \leq 108 \text{ MHz}$	1
$108 \text{ MHz} < F_X \leq 500 \text{ MHz}$	2
$500 \text{ MHz} < F_X \leq 1 \text{ GHz}$	5
$F_X > 1 \text{ GHz}$	$5 \times F_X$ up to a maximum of 40 GHz

F_X is the highest fundamental frequency generated and/or used in the ITE or digital apparatus under test.

Radiated Emissions Limits at 3 meters (dBμV/m)		
Frequency range (GHz)	Class A	Class B
$1 - F_M$	Avg: 60 Peak: 80	Avg: 54 Peak: 74

Notes: 1. These limit levels apply for a measurement distance of 3 m. If using a different measurement distance, the measured levels shall be extrapolated to the 3 m limit distance using a factor of 20 dB per decade of distance. The measurement distance shall place the measurement antenna in the far field of the ITE or digital apparatus under test.

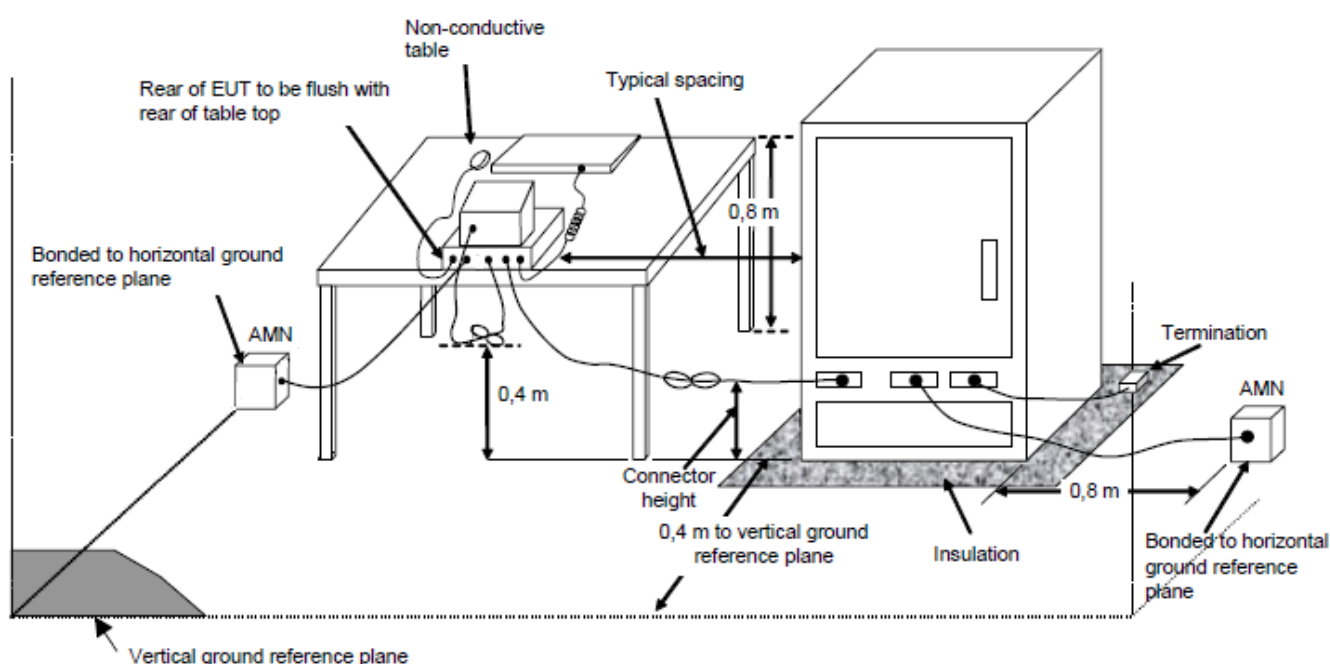
At and above 1 GHz, if the ITE or digital apparatus is an outdoor unit of home satellite receiving systems, it shall comply with the limits in Table A.7 in clause A.2 of CAN/CSA-CISPR 32:17 (in Annex A therein). For these types of ITE or digital apparatus, the highest measurement frequency shall be 18 GHz.

6 Test Arrangements

6.1 Conducted Emissions from Power Ports

- 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.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- 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.

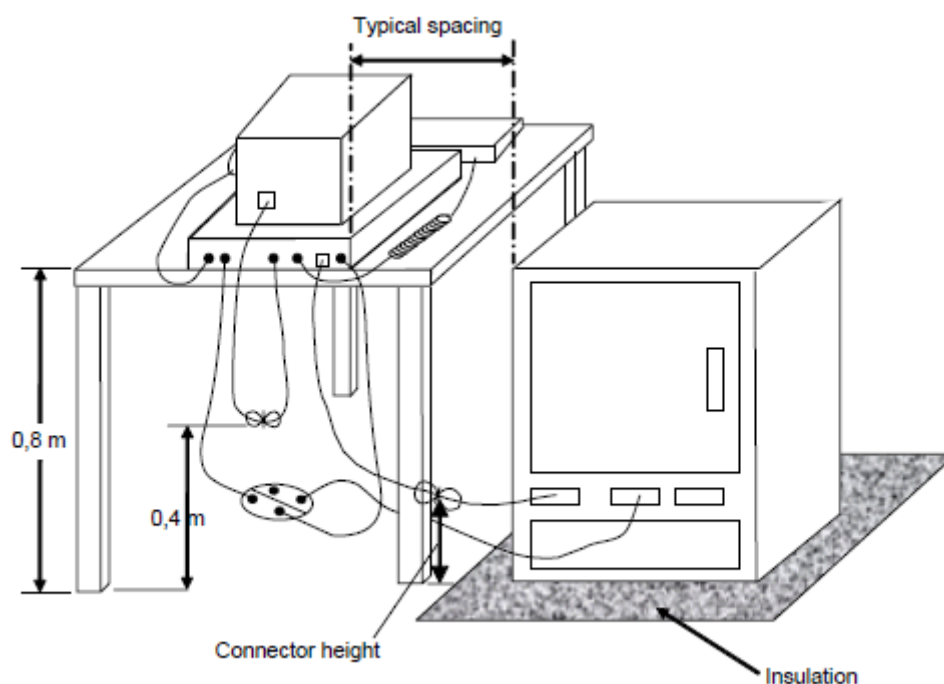


For the actual test configuration, please refer to the related Item – Photographs of the Test Configuration.

6.2 Radiated Emissions up to 1 GHz

- 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.
- The EUT was set 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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.
- 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.

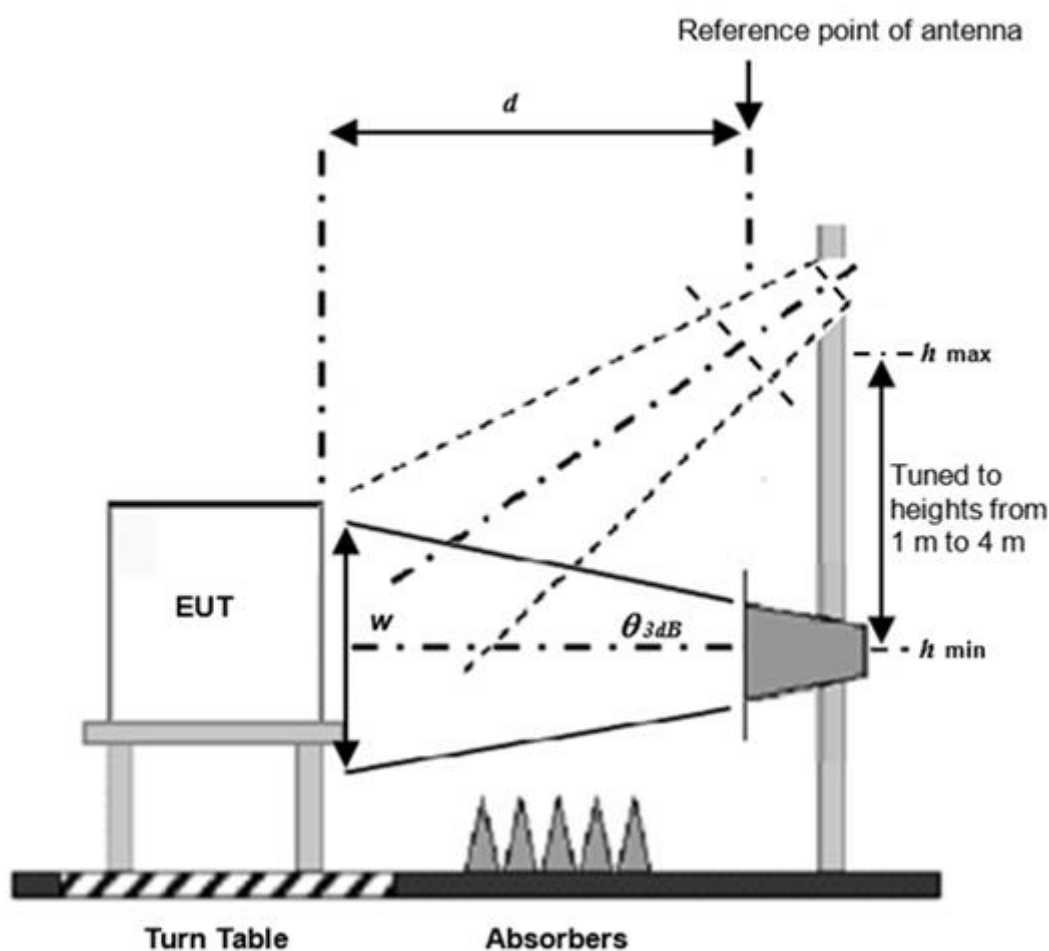


For the actual test configuration, please refer to the related Item – Photographs of the Test Configuration.

6.3 Radiated Emissions above 1 GHz

- 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.
- The EUT was set $d = 3$ meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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 spectrum analyzer system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.

Note: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection (PK) at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz for Average detection (AV) at frequency above 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

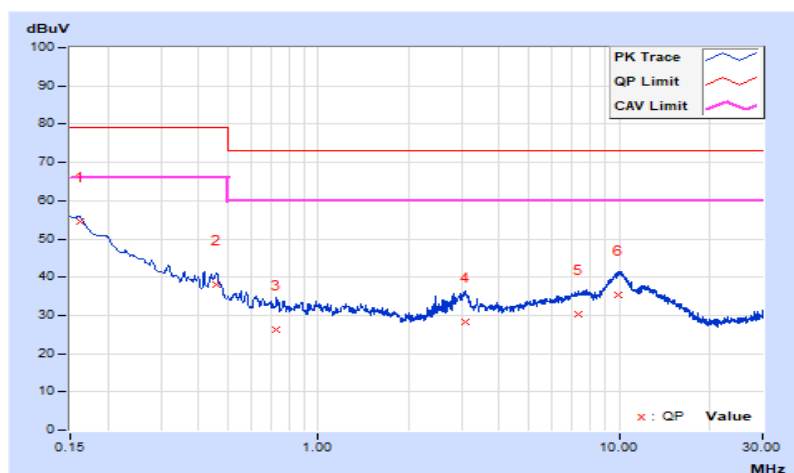
Mode A

Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 66% RH, 997.4 mbar
Tested by	Desmond Chen		

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	0.16125	9.63	45.03	34.44	54.66	44.07	79.00	66.00	-24.34	-21.93
2	0.46028	9.62	28.30	21.74	37.92	31.36	79.00	66.00	-41.08	-34.64
3	0.72950	9.62	16.50	8.48	26.12	18.10	73.00	60.00	-46.88	-41.90
4	3.10325	9.67	18.61	9.86	28.28	19.53	73.00	60.00	-44.72	-40.47
5	7.30850	9.78	20.47	13.70	30.25	23.48	73.00	60.00	-42.75	-36.52
6	9.99050	9.84	25.44	19.14	35.28	28.98	73.00	60.00	-37.72	-31.02

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

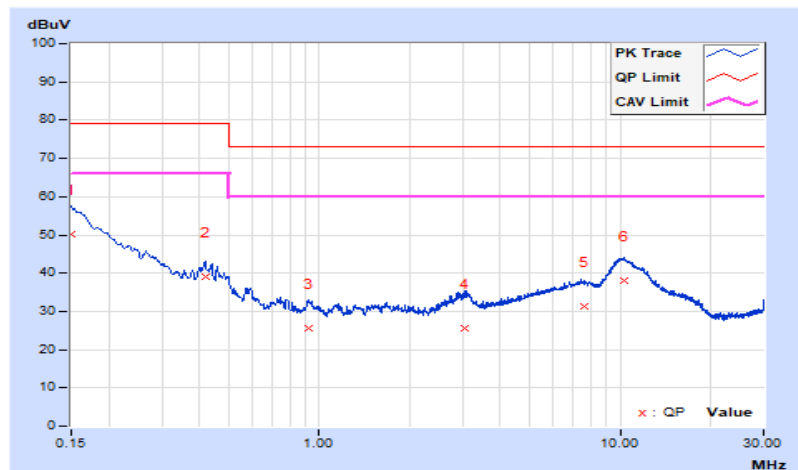


Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 66% RH, 997.4 mbar
Tested by	Desmond Chen		

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	0.15000	9.62	40.45	33.67	50.07	43.29	79.00	66.00	-28.93	-22.71
2	0.41744	9.59	29.33	23.19	38.92	32.78	79.00	66.00	-40.08	-33.22
3	0.91850	9.62	16.04	7.80	25.66	17.42	73.00	60.00	-47.34	-42.58
4	3.05150	9.66	16.01	7.65	25.67	17.31	73.00	60.00	-47.33	-42.69
5	7.56275	9.77	21.52	14.73	31.29	24.50	73.00	60.00	-41.71	-35.50
6	10.26725	9.84	28.06	21.78	37.90	31.62	73.00	60.00	-35.10	-28.38

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



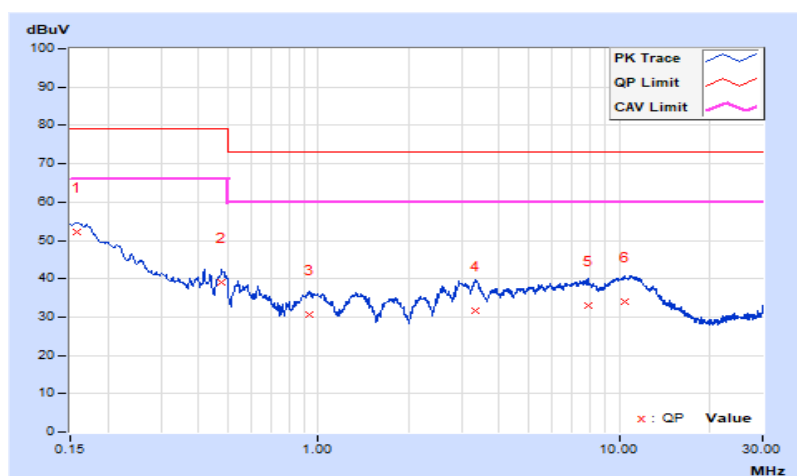
Mode B

Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	240 Vac, 60 Hz	Environmental Conditions	25 °C, 66% RH, 997.4 mbar
Tested by	Desmond Chen		

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	0.15715	9.63	42.63	33.16	52.26	42.79	79.00	66.00	-26.74	-23.21
2	0.47850	9.62	29.32	23.21	38.94	32.83	79.00	66.00	-40.06	-33.17
3	0.93875	9.62	20.86	10.92	30.48	20.54	73.00	60.00	-42.52	-39.46
4	3.31475	9.68	21.87	12.18	31.55	21.86	73.00	60.00	-41.45	-38.14
5	7.90925	9.79	23.11	16.05	32.90	25.84	73.00	60.00	-40.10	-34.16
6	10.39100	9.85	24.03	16.78	33.88	26.63	73.00	60.00	-39.12	-33.37

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

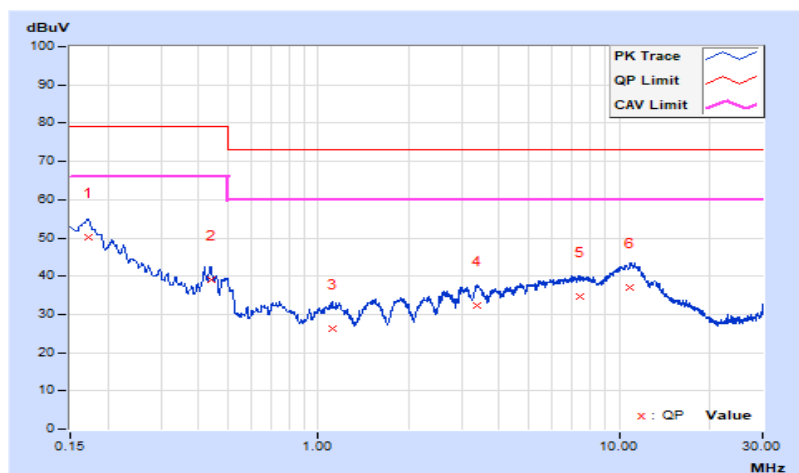


Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	240 Vac, 60 Hz	Environmental Conditions	25 °C, 66% RH, 997.3 mbar
Tested by	Desmond Chen		

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	0.17146	9.61	40.67	32.83	50.28	42.44	79.00	66.00	-28.72	-23.56
2	0.44025	9.59	29.44	22.81	39.03	32.40	79.00	66.00	-39.97	-33.60
3	1.11179	9.63	16.74	8.31	26.37	17.94	73.00	60.00	-46.63	-42.06
4	3.36425	9.66	22.80	13.36	32.46	23.02	73.00	60.00	-40.54	-36.98
5	7.46097	9.77	24.83	17.96	34.60	27.73	73.00	60.00	-38.40	-32.27
6	10.87475	9.86	27.26	19.93	37.12	29.79	73.00	60.00	-35.88	-30.21

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

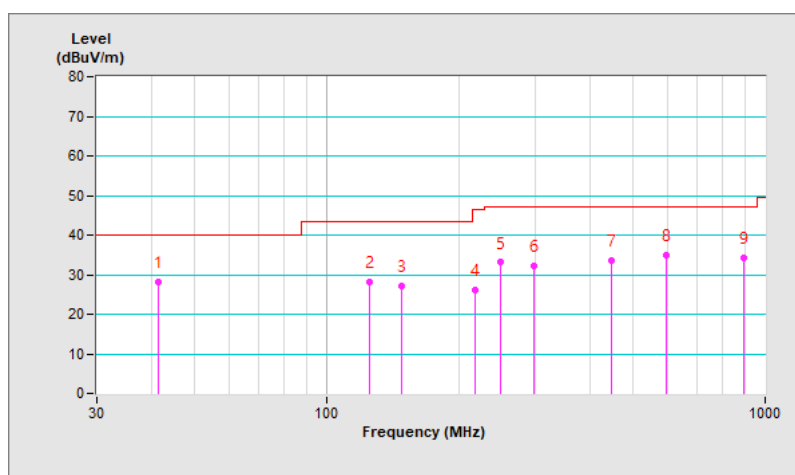
Mode A

Frequency Range	30 MHz ~ 1 GHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP), 120 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	33 °C, 50% RH, 1000 mbar
Tested By	Paul Chen		

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	41.33	28.16 QP	40.00	-11.84	4.00 H	235	37.90	-9.74
2	125.03	28.09 QP	43.50	-15.41	4.00 H	44	37.19	-9.10
3	148.49	27.28 QP	43.50	-16.22	4.00 H	336	36.89	-9.61
4	218.42	26.15 QP	46.40	-20.25	4.00 H	310	36.78	-10.63
5	250.01	33.09 QP	47.00	-13.91	4.00 H	48	40.23	-7.14
6	297.01	32.25 QP	47.00	-14.75	3.58 H	222	38.35	-6.10
7	445.50	33.64 QP	47.00	-13.36	2.17 H	149	36.71	-3.07
8	594.01	34.88 QP	47.00	-12.12	1.74 H	196	34.32	0.56
9	891.01	34.21 QP	47.00	-12.79	1.00 H	119	29.26	4.95

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.

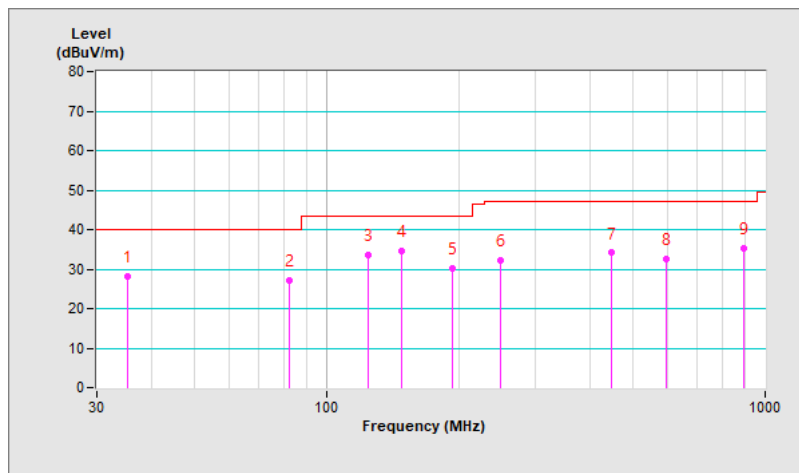


Frequency Range	30 MHz ~ 1 GHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP), 120 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	33 °C, 50% RH, 1000 mbar
Tested By	Paul Chen		

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	35.16	28.24 QP	40.00	-11.76	1.37 V	229	40.66	-12.42
2	82.23	27.12 QP	40.00	-12.88	2.17 V	330	40.85	-13.73
3	124.99	33.58 QP	43.50	-9.92	1.00 V	146	42.69	-9.11
4	148.51	34.64 QP	43.50	-8.86	1.00 V	258	44.26	-9.62
5	194.21	30.09 QP	43.50	-13.41	1.00 V	111	41.65	-11.56
6	250.01	32.28 QP	47.00	-14.72	1.00 V	169	39.42	-7.14
7	445.51	34.15 QP	47.00	-12.85	1.00 V	182	37.22	-3.07
8	594.01	32.71 QP	47.00	-14.29	3.22 V	298	32.15	0.56
9	891.01	35.22 QP	47.00	-11.78	2.11 V	163	30.27	4.95

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.



7.3 Radiated Emissions above 1 GHz

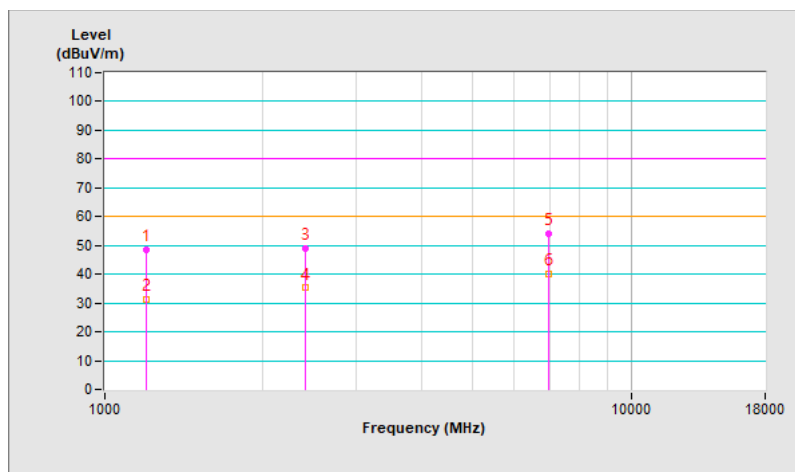
Mode A

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Resolution Bandwidth	Peak (PK) / Average (AV), 1 MHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24 °C, 65% RH, 997.1 mbar
Tested By	Kenny Chang		

Antenna Polarity & Test Distance : Horizontal at 3 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	1197.01	48.61 PK	80.00	-31.39	2.13 H	156	52.65	-4.04
2	1197.01	31.27 AV	60.00	-28.73	2.13 H	156	35.31	-4.04
3	2401.85	48.85 PK	80.00	-31.15	2.58 H	204	48.86	-0.01
4	2401.85	35.27 AV	60.00	-24.73	2.58 H	204	35.28	-0.01
5	6960.70	54.28 PK	80.00	-25.72	2.98 H	155	44.14	10.14
6	6960.70	40.16 AV	60.00	-19.84	2.98 H	155	30.02	10.14

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.

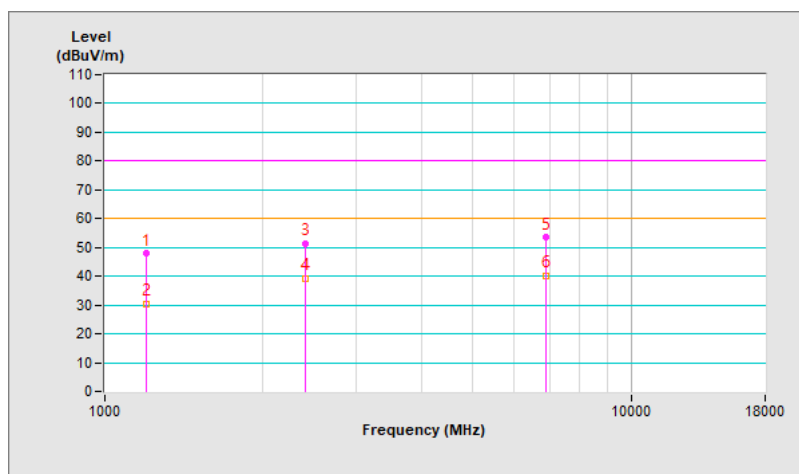


Frequency Range	1 GHz ~ 18 GHz	Detector Function & Resolution Bandwidth	Peak (PK) / Average (AV), 1 MHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24 °C, 65% RH, 997 mbar
Tested By	Kenny Chang		

Antenna Polarity & Test Distance : Vertical at 3 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	1196.55	47.79 PK	80.00	-32.21	3.04 V	355	51.84	-4.05
2	1196.55	30.47 AV	60.00	-29.53	3.04 V	355	34.52	-4.05
3	2399.34	51.42 PK	80.00	-28.58	1.21 V	218	51.43	-0.01
4	2399.34	39.08 AV	60.00	-20.92	1.21 V	218	39.09	-0.01
5	6894.30	53.41 PK	80.00	-26.59	2.18 V	167	43.41	10.00
6	6894.30	40.12 AV	60.00	-19.88	2.18 V	167	30.12	10.00

Remarks:

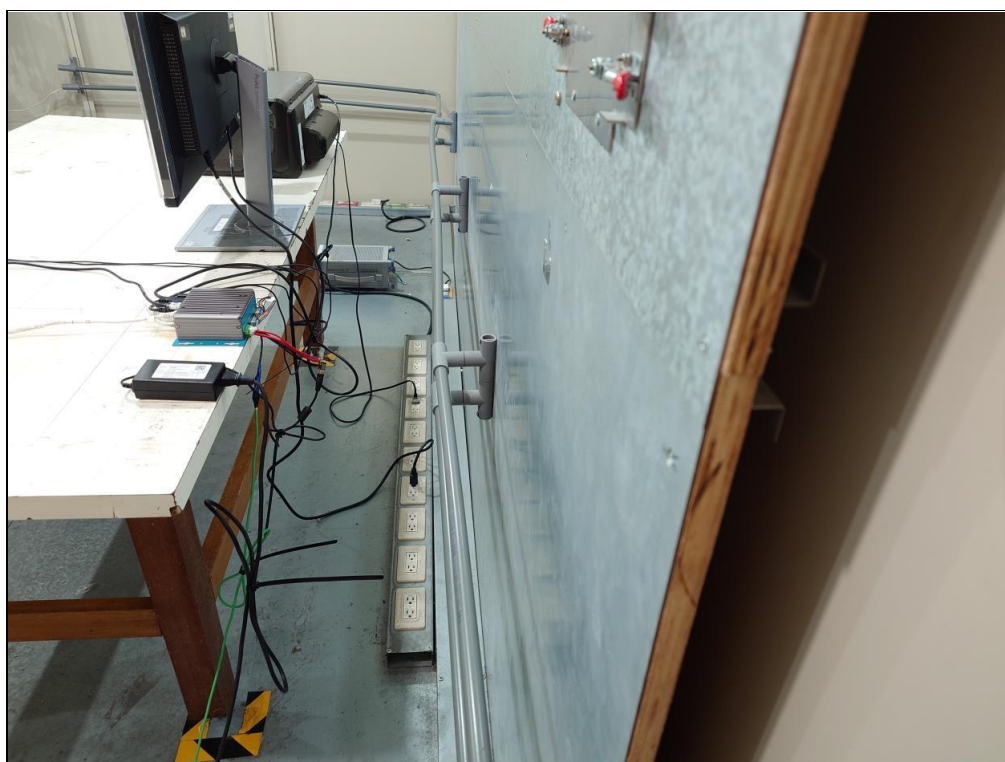
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB)
3. Margin value = Emission level – Limit value
4. The other emission levels were very low against the limit.



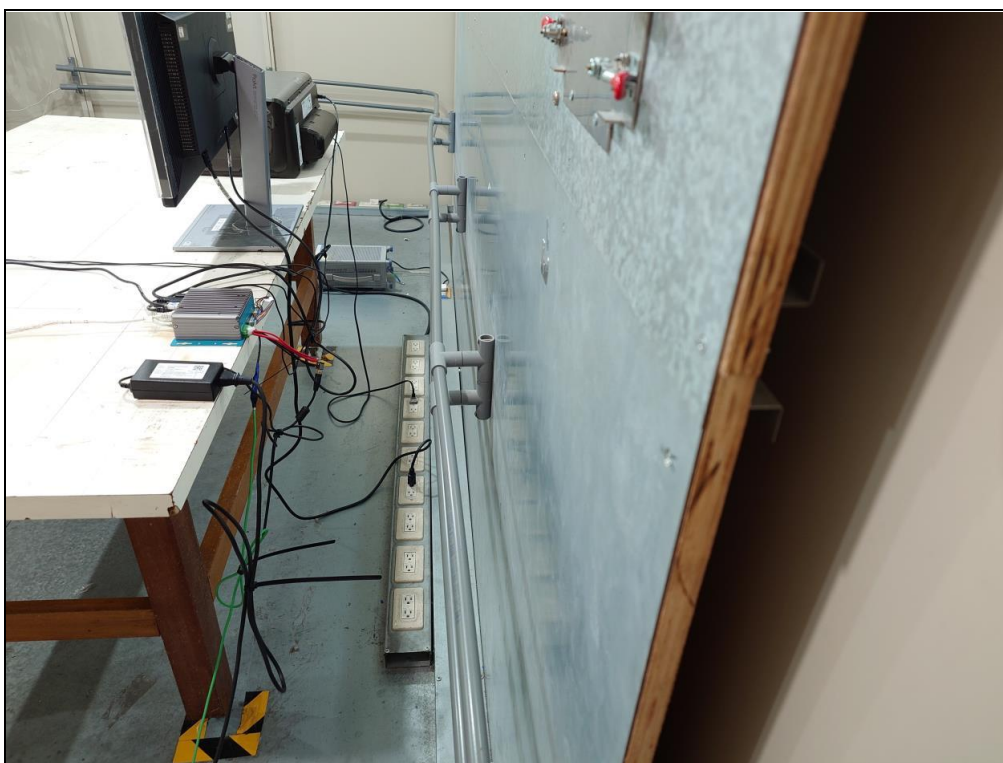
8 Pictures of Test Arrangements

8.1 Conducted Emissions from Power Ports

Mode A



Mode B



8.2 Radiated Emissions up to 1 GHz

Mode A



8.3 Radiated Emissions above 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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Email: service.adt@bureauveritas.com

Web Site: <http://ee.bureauveritas.com.tw>

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

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