

## FCC Test Report

**Report No.:** FD200316D03

**Test Model:** MTD-6021

**Series Model:** MTD-6XXX-XXX (X can be 0-9, A-Z or blank for marketing purpose)

**Received Date:** Mar. 16, 2020

**Test Date:** Apr. 1, 2020

**Issued Date:** May 14, 2020

**Applicant:** VECOW CO.,LTD.

**Address:** 3F,No.10,Jiankang Rd.,Zhonghe Dist., New Taipei City, 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

**FCC Registration /  
Designation Number:** 418586 / TW1078



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### Release Control Record

Issue No.	Description	Date Issued
FD200316D03	Original release.	May 14, 2020

## 1 Certificate of Conformity

**Product:** MTD-6000 Series Multi-touch Display  
**Brand:** Vecow  
**Test Model:** MTD-6021  
**Series Model:** MTD-6XXX-XXX (X can be 0-9, A-Z or blank for marketing purpose)  
**Sample Status:** Engineering sample  
**Applicant:** VECOW CO.,LTD.  
**Test Date:** Apr. 1, 2020  
**Standards:** 47 CFR FCC Part 15, Subpart B, Class A  
ICES-003: 2016 Issue 6, updated Apr. 2019 Class A  
ANSI C63.4:2014

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.

**Prepared by :** Sandra Lin , **Date:** May 14, 2020  
Sandra Lin / Specialist

**Approved by :** Jim Hsiang , **Date:** May 14, 2020  
Jim Hsiang / Associate Technical Manager

## 2 Summary of Test Results

47 CFR FCC Part 15, Subpart B / ICES-003: 2016 Issue 6, updated Apr. 2019 Class A

ANSI C63.4:2014

FCC Clause	ICES-003 Clause	Test Item	Result/Remarks	Verdict
15.107	6.1	Conducted Emissions at mains ports	Minimum passing Class A margin is -14.57 dB at 28.98438 MHz	Pass
15.109	6.2.1	Radiated Emissions up to 1 GHz	Minimum passing Class A margin is -1.16 dB at 497.09 MHz	Pass
	6.2.2	Radiated Emissions above 1 GHz	Not applicable because the EUT's highest frequency is below 108MHz	N/A

Note:

1. There is no deviation to the applied test methods and requirements covered by the scope of this report.
2. 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:

Measurement	Frequency	Expanded Uncertainty (k=2) ( $\pm$ )
Conducted Emissions at mains ports	150kHz ~ 30MHz	3.00 dB
Radiated Emissions up to 1 GHz	30MHz ~ 1GHz	4.25 dB

### 2.2 Modification Record

There were no modifications required for compliance.

### 3 General Information

#### 3.1 Description of EUT

Product	MTD-6000 Series Multi-touch Display
Brand	Vecow
Test Model	MTD-6021
Series Model	MTD-6XXX-XXX (X can be 0-9, A-Z or blank for marketing purpose)
Model Difference	Marketing Purpose
Sample Status	Engineering sample
Operating Software	N/A
Power Supply Rating	12Vdc from adapter
Accessory Device	Adapter
Data Cable Supplied	N/A

Note:

- The EUT is a MTD-6000 Series Multi-touch Display with following interfaces.
  - ♦ HDMI (resolution up to 1920x1080, 60Hz)
  - ♦ DVI (resolution up to 1920x1080, 60Hz)
  - ♦ D-SUB (resolution up to 1920x1080, 60Hz)
  - ♦ Audio port
  - ♦ DC input

- The EUT uses following adapter.

<b>Brand</b>	WEIHAI POWER
<b>Model</b>	HAS050123
<b>Input Power</b>	100-240Vac, 50-60Hz, 1.6A
<b>Output Power</b>	12V, 4.16A, 50W
<b>Power Line</b>	Non-shielded AC cable (3pin, 1.8m) Non-shielded DC cable (1.5m) with one ferrite core

#### 3.2 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.

#### 3.3 Operating Modes of EUT and Determination of Worst Case Operating Mode

- EUT has been pre-tested under following test modes, and **Mode A** was the worst case.

Mode	Test Model	Test Condition
A	MTD-6021	HDMI (1920x1080, 60Hz)
B		DVI (1920x1080, 60Hz)
C		D-SUB (1920x1080, 60Hz)
D		HDMI (1280x1024, 60Hz)
E		HDMI (640x480, 60Hz)

- According to the pre-test result, the EUT were tested under the following modes:

Mode	Test Model	Test Condition	Input Power
<b>Conducted emission test &amp; Radiated emission test</b>			
1	MTD-6021	HDMI (1920x1080, 60Hz)	120Vac/ 60Hz

### 3.4 Test Program Used and Operation Descriptions

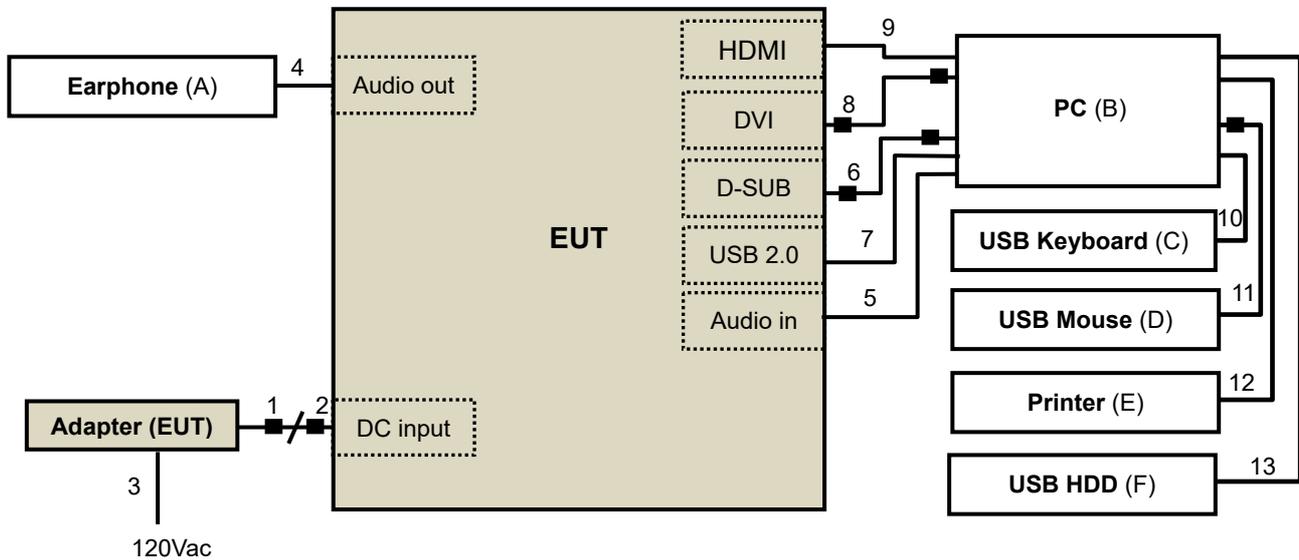
- a. Turn on the power of all equipment.
- b. PC read a test program to enable all functions.
- c. PC read and wrote messages from/to HDD and ext. HDD.
- d. PC sent "H" messages to EUT and then it displayed "H" messages on its screen.
- e. PC sent 1kHz audio signal to earphone via EUT.
- f. PC sent messages to printer and the printer printed them out.
- g. Steps c-f were repeated.

### 3.5 Primary Clock Frequencies of Internal Source

The highest frequency generated or used within the EUT or on which the EUT operates or tunes is 85MHz, provided by VECOW CO.,LTD., for detailed internal source, please refer to the manufacturer's specifications.

## 4 Configuration and Connections with EUT

### 4.1 Connection Diagram of EUT and Peripheral Devices



### 4.2 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Earphone	PHILIPS	SBC HL145	N/A	N/A	Provided by Lab
B.	PC	HP	Elite Desk 800G4	4CE8451BL4	FCC DoC Approved	Provided by Lab
C.	USB Keyboard	Dell	KB216t	CN-0W33XP-LO300-7CL-1907	N/A	Provided by Lab
D.	USB Mouse	Microsoft	1113	9170528318308	FCC DoC Approved	Provided by Lab
E.	Printer	HP	HP Officejet Pro 251dw	CN55FCV013	FCC DoC Approved	Provided by Lab
F.	USB Hard Disk	BUFFALO	HD-LBU2	55519210504050	FCC DoC Approved	Provided by Lab

Note: All power cords of the above support units are non-shielded (1.8m).

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	DC power cable	1	1.5	N	1	Supplied by client
2.	DC power cable	1	0.1	N	1	Provided by Lab
3.	AC power cable	1	1.8	N	0	Provided by Lab
4.	Audio cable	1	1.2	N	0	Provided by Lab
5.	Audio cable	1	1.8	N	0	Provided by Lab
6.	D-SUB cable	1	1.8	Y	2	Provided by Lab
7.	USB cable	1	1.8	Y	0	Supplied by client
8.	DVI cable	1	1.8	Y	2	Provided by Lab
9.	HDMI cable	1	2.0	Y	0	Provided by Lab
10.	USB cable	1	1.8	Y	0	Provided by Lab
11.	USB cable	1	1.8	Y	1	Provided by Lab
12.	USB cable	1	1.8	Y	0	Provided by Lab
13.	USB cable	1	1.5	Y	0	Provided by Lab

Note: The core(s) is(are) originally attached to the cable(s).

## 5 Conducted Emissions at Mains Ports

### 5.1 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.  
 2. The limit decreases linearly with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

### 5.2 Test Instruments

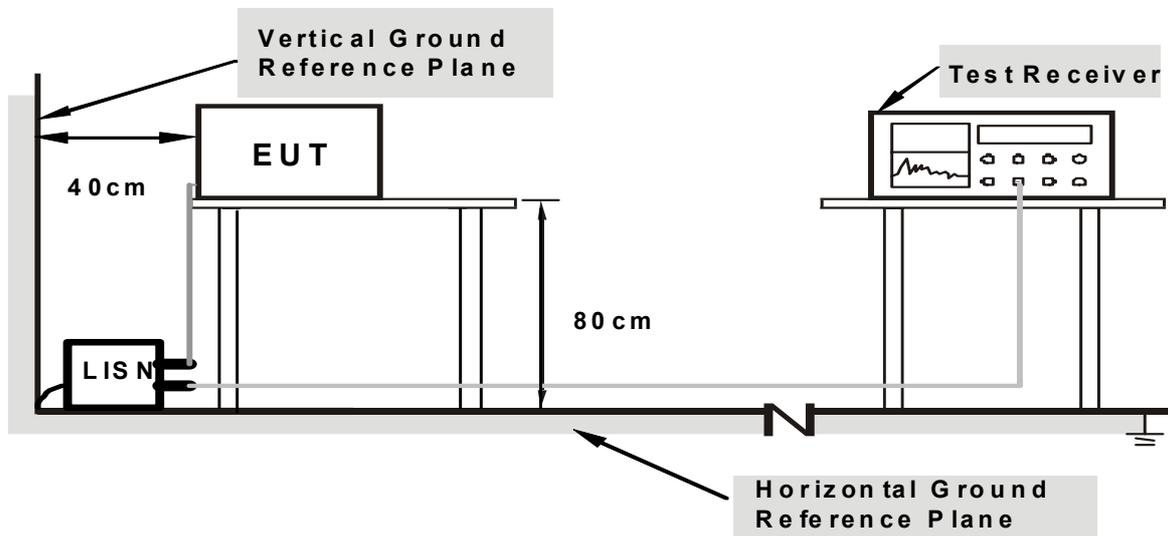
Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
ROHDE & SCHWARZ TEST RECEIVER	ESCS 30	838251/021	Oct. 30, 2019	Oct. 29, 2020
ROHDE & SCHWARZ Artificial Mains Network (For EUT)	ENV216	101195	May 9, 2019	May 8, 2020
LISN With Adapter (for EUT)	101195	N/A	May 9, 2019	May 8, 2020
EMCO L.I.S.N. (For peripherals)	3825/2	9504-2359	Jul. 31, 2019	Jul. 30, 2020
SCHWARZBECK Artificial Mains Network (For EUT)	NNLK8129	8129229	May 14, 2019	May 13, 2020
SCHWARZBECK Artificial Mains Network (for EUT)	NSLK 8128	8128-244	Nov. 11, 2019	Nov. 10, 2020
Software	Cond_V7.3.7.4	NA	NA	NA
RF cable (JYEBAO) With 10dB PAD	5D-FB	Cable-C03-01	Sep. 17, 2019	Sep. 16, 2020
LYNICS Terminator (For EMCO LISN)	0900510	E1-01-300	Jan. 20, 2020	Jan. 19, 2021
LYNICS Terminator (For EMCO LISN)	0900510	E1-01-301	Jan. 20, 2020	Jan. 19, 2021
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

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.  
 2. The test was performed in Shielded Room No. 3.  
 3. The VCCI Site Registration No. C-10274.  
 4. Tested Date: Apr. 1, 2020

### 5.3 Test Arrangement

- 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.
- 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.



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

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

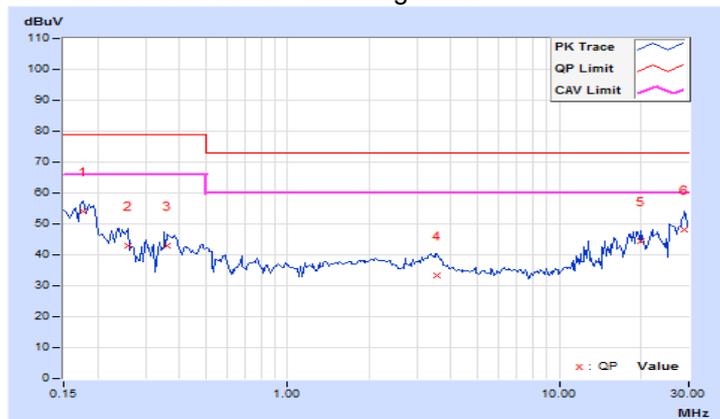
### 5.4 Test Results

<b>Frequency Range</b>	150kHz ~ 30MHz	<b>Detector Function &amp; Resolution Bandwidth</b>	Quasi-Peak (QP) / Average (AV), 9kHz
<b>Input Power</b>	120Vac, 60Hz	<b>Environmental Conditions</b>	23°C, 75%RH
<b>Tested by</b>	Vhenson Huang		
<b>Test Mode</b>	Mode 1		

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	0.17734	9.61	44.47	30.32	54.08	39.93	79.00	66.00	-24.92	-26.07
2	0.25938	9.62	33.41	21.88	43.03	31.50	79.00	66.00	-35.97	-34.50
3	0.35948	9.63	33.16	21.43	42.79	31.06	79.00	66.00	-36.21	-34.94
4	3.55859	9.75	23.68	11.07	33.43	20.82	73.00	60.00	-39.57	-39.18
5	19.93778	9.88	34.71	28.71	44.59	38.59	73.00	60.00	-28.41	-21.41
6	28.99219	9.88	38.43	33.30	48.31	43.18	73.00	60.00	-24.69	-16.82

**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

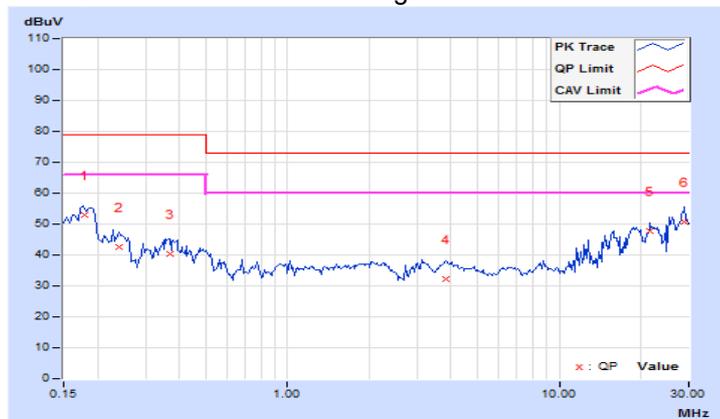


<b>Frequency Range</b>	150kHz ~ 30MHz	<b>Detector Function &amp; Resolution Bandwidth</b>	Quasi-Peak (QP) / Average (AV), 9kHz
<b>Input Power</b>	120Vac, 60Hz	<b>Environmental Conditions</b>	23°C, 75%RH
<b>Tested by</b>	Vhenson Huang		
<b>Test Mode</b>	Mode 1		

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	0.17866	9.60	43.26	29.49	52.86	39.09	79.00	66.00	-26.14	-26.91
2	0.23984	9.60	33.06	23.06	42.66	32.66	79.00	66.00	-36.34	-33.34
3	0.36875	9.61	30.63	19.71	40.24	29.32	79.00	66.00	-38.76	-36.68
4	3.82422	9.74	22.53	11.21	32.27	20.95	73.00	60.00	-40.73	-39.05
5	21.68368	9.93	37.78	34.25	47.71	44.18	73.00	60.00	-25.29	-15.82
<b>6</b>	<b>28.98438</b>	<b>9.97</b>	<b>40.76</b>	<b>35.46</b>	<b>50.73</b>	<b>45.43</b>	<b>73.00</b>	<b>60.00</b>	<b>-22.27</b>	<b>-14.57</b>

**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



## 6 Radiated Emissions up to 1 GHz

### 6.1 Limits

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

Radiated Emissions Limits at 10 meters (dB $\mu$ V/m)				
Frequencies (MHz)	FCC 15B / ICES-003, Class A	FCC 15B / ICES-003, Class B	CISPR 22, Class A	CISPR 22, Class B
30-88	39	29.5	40	30
88-216	43.5	33.1		
216-230	46.4	35.6		
230-960				
960-1000	49.5	43.5	47	37

Radiated Emissions Limits at 3 meters (dB $\mu$ V/m)				
Frequencies (MHz)	FCC 15B / ICES-003, Class A	FCC 15B / ICES-003, Class B	CISPR 22, Class A	CISPR 22, Class B
30-88	49.5	40	50.5	40.5
88-216	54	43.5		
216-230	56.9	46		
230-960				
960-1000	60	54	57.5	47.5

- Notes:
1. The lower limit shall apply at the transition frequencies.
  2. Emission level (dB $\mu$ V/m) = 20 log Emission level (uV/m).
  3. QP detector shall be applied if not specified.

### 6.2 Test Instruments

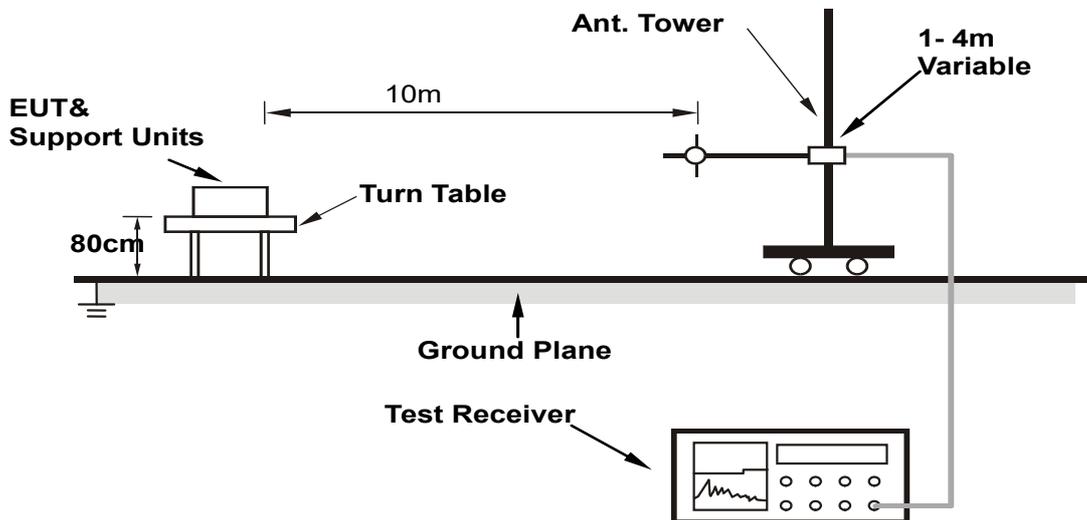
Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
ROHDE & SCHWARZ TEST RECEIVER	ESCS 30	100027	May 13, 2019	May 12, 2020
Schwarzbeck Bilog Antenna	VULB9168	9168-303	Nov. 11, 2019	Nov. 10, 2020
Agilent Preamplifier	8447D	2944A08119	Feb. 19, 2020	Feb. 18, 2021
ADT. Turn Table	TT100	0205	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. 24, 2019	Oct. 23, 2020
Pacific RF cable With 5dB PAD	8D	CABLE-ST2-01	Oct. 24, 2019	Oct. 23, 2020

- Note:
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
  2. The test was performed in Open Site No. 2.
  3. The VCCI Site Registration No. R-10237.
  4. Tested Date: Apr. 1, 2020

### 6.3 Test Arrangement

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited test facility. The table was rotated 360 degrees to determine the position of the highest radiation.
- 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.

### 6.4 Test Results

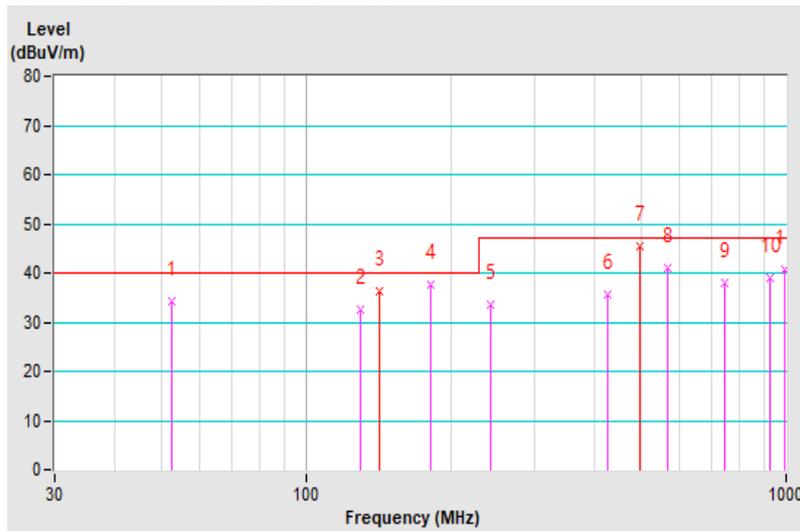
<b>Frequency Range</b>	30MHz ~ 1GHz	<b>Detector Function &amp; Resolution Bandwidth</b>	Quasi-Peak (QP), 120kHz
<b>Input Power</b>	120Vac, 60Hz	<b>Environmental Conditions</b>	21°C, 74%RH
<b>Tested by</b>	Paul Chen		
<b>Test Mode</b>	Mode 1		

**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	52.62	34.20 QP	40.00	-5.80	4.00 H	30	44.03	-9.83
2	129.57	32.65 QP	40.00	-7.35	4.00 H	254	43.21	-10.56
3	142.02	36.20 QP	40.00	-3.80	4.00 H	298	45.74	-9.54
4	182.32	37.75 QP	40.00	-2.25	4.00 H	134	48.72	-10.97
5	243.12	33.50 QP	47.00	-13.50	3.86 H	259	43.41	-9.91
6	426.25	35.57 QP	47.00	-11.43	1.99 H	213	40.35	-4.78
7	497.08	45.44 QP	47.00	-1.56	2.07 H	124	48.88	-3.44
8	568.11	41.00 QP	47.00	-6.00	1.84 H	98	42.98	-1.98
9	742.51	37.94 QP	47.00	-9.06	1.00 H	127	36.13	1.81
10	923.17	38.99 QP	47.00	-8.01	1.00 H	323	33.52	5.47
11	994.17	40.55 QP	47.00	-6.45	1.00 H	248	34.32	6.23

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. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value

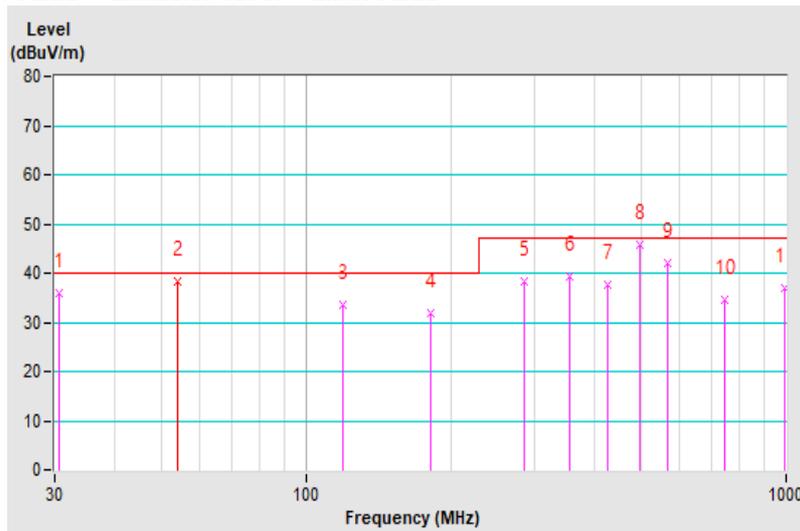


<b>Frequency Range</b>	30MHz ~ 1GHz	<b>Detector Function &amp; Resolution Bandwidth</b>	Quasi-Peak (QP), 120kHz
<b>Input Power</b>	120Vac, 60Hz	<b>Environmental Conditions</b>	21°C, 74%RH
<b>Tested by</b>	Paul Chen		
<b>Test Mode</b>	Mode 1		

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	30.73	36.09 QP	40.00	-3.91	1.00 V	31	47.71	-11.62
2	54.25	38.42 QP	40.00	-1.58	1.00 V	344	48.41	-9.99
3	119.83	33.56 QP	40.00	-6.44	1.00 V	162	45.19	-11.63
4	182.32	31.96 QP	40.00	-8.04	1.00 V	229	42.93	-10.97
5	284.19	38.37 QP	47.00	-8.63	1.00 V	25	46.44	-8.07
6	355.12	39.22 QP	47.00	-7.78	1.00 V	316	45.60	-6.38
7	426.25	37.62 QP	47.00	-9.38	1.00 V	142	42.40	-4.78
<b>8</b>	<b>497.09</b>	<b>45.84 QP</b>	<b>47.00</b>	<b>-1.16</b>	<b>3.43 V</b>	<b>190</b>	<b>49.28</b>	<b>-3.44</b>
9	568.25	42.04 QP	47.00	-4.96	3.06 V	188	44.02	-1.98
10	742.49	34.51 QP	47.00	-12.49	2.30 V	212	32.70	1.81
11	994.19	37.05 QP	47.00	-9.95	2.27 V	321	30.82	6.23

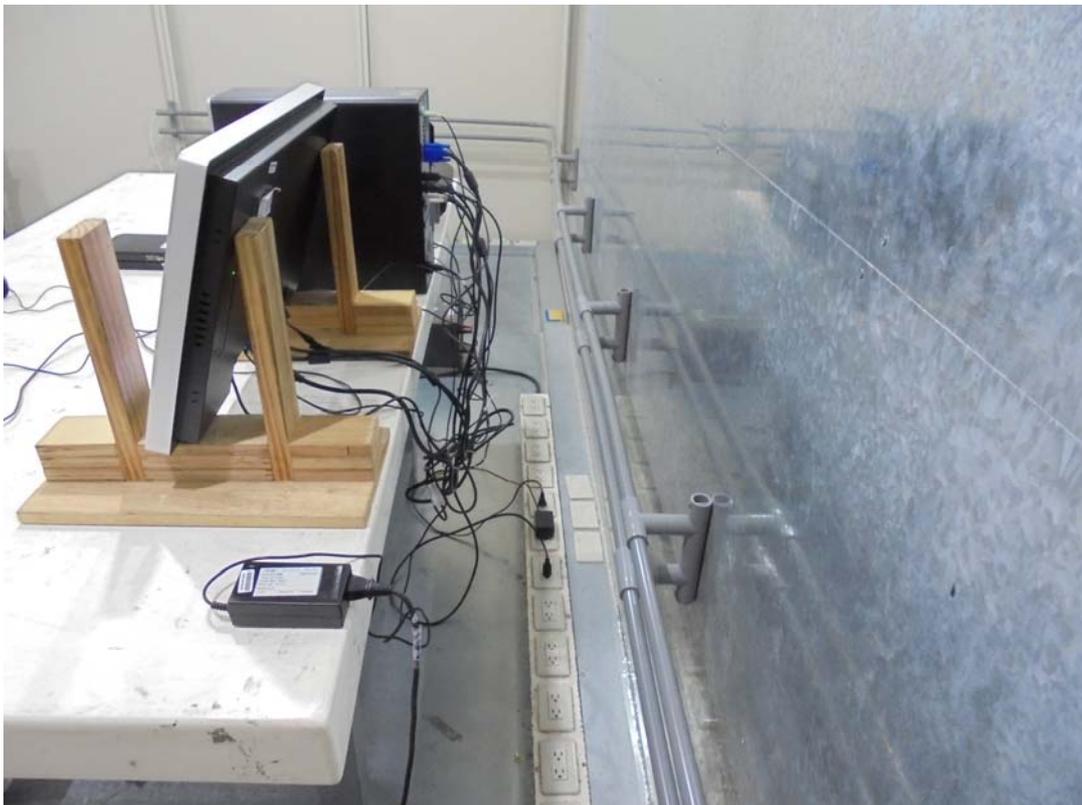
Remarks:

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. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value



## 7 Pictures of Test Arrangements

### 7.1 Conducted Emissions at Mains Ports



## 7.2 Radiated Emissions up to 1 GHz



## Appendix – 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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