

# VERIFICATION OF COMPLIANCE

- **Equipment** : 360° All Around Webcam
- Model No.** : JVCU360 , JVCU360S , JVCU361S , JVCU362S
- Applicant** : KAIJET TECHNOLOGY INTERNATIONAL CORPORATION  
8F., No.109, Zhongcheng Rd., Tucheng Dist.,  
New Taipei City 236, Taiwan, R.O.C.

**I HEREBY****DECLARE THAT :**

The equipment is in accordance with the procedures are given in **ANSI C63.4-2014** and the energy emitted by this equipment was **Passed by CISPR PUB. 22, FCC Part 15 Subpart B, Canada Standard ICES-003 Issue 6**. Radiated and conducted emissions are compliance in **Class B** limits.

The test was carried out on **Jul. 24, 2020** at **SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**.

A handwritten signature in blue ink, appearing to read 'William Li', written over a horizontal line.

**William Li**



# FCC EMI TEST REPORT

**Filing Type** : Supplier's Declaration of Conformity  
**Equipment** : 360° All Around Webcam  
**Brand Name** : j5create  
**Model Name** : JVCU360 , JVCU360S , JVCU361S , JVCU362S  
**Applicant** : KAIJET TECHNOLOGY INTERNATIONAL CORPORATION  
8F., No.109, Zhongcheng Rd., Tucheng Dist., New Taipei City  
236, Taiwan, R.O.C.  
**Manufacturer** : Magic Control Technology Corporation  
10F., No.123, Zhongcheng Rd., Tucheng Dist., New Taipei City  
236, Taiwan R.O.C.  
**Standard** : 47 CFR FCC Rules and Regulations Part 15 Subpart B, Class  
B Digital Device  
ICES-003 Issue 6, Class B

The product was received on Jul. 17, 2020, and testing was started from Jul. 20, 2020 and completed on Jul. 24, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.4-2014 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: William Li

SDoC by:

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**  
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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**Photographs of EUT v01**



### History of this test report

Report No.	Version	Description	Issued Date
FD071608-01	01	Initial issue of report	Sep. 04, 2020



### Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
4	15.107	Conducted Emissions of Powerline	PASS	Under limit 4.40 dB at 0.20 MHz
5.1	15.109	Radiated Emissions below 1GHz	PASS	Under limit 4.23 dB at 215.200 MHz
5.2	15.109	Radiated Emissions above 1GHz	PASS	Under limit 32.27 dB at 1.942 GHz

Note 1: From Sporton Project No.:FD071608.

<b>Declaration of Conformity:</b>
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
<b>Comments and Explanations:</b>
None

Reviewed by: Andrew Yang

Report Producer: Michelle Tsai



# 1. General Description of Equipment under Test

## 1.1. Basic Description of Equipment under Test

Equipment : 360° All Around Webcam  
Model No. : JVCU360 , JVCU360S , JVCU361S , JVCU362S  
Power Supply Type : From Host system  
The maximum operating frequency : 480MHz

## 1.2. Feature of Equipment under Test

For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

## 1.3. Modification of EUT

Please refer to the applicant solution information and photographs of EUT.

## 1.4. Table for Multiple Listing

Model Name	Description
JVCU360	The difference of models is in sales marketing.
JVCU360S	
JVCU361S	
JVCU362S	

Note: The information from manufacturer.



## 2. Test Configuration of Equipment under Test

### 2.1. Details of EUT Test Modes

From the above models, Model: JVCU360S was selected as representative model for the test and its data was recorded in this report. The equipment under test were performed the following test modes:

Test Items	Description of test modes
Conducted Emission	Mode 1. TYPE A,SYSTEM ON Mode 2. TYPE C,SYSTEM ON cause "mode 1" generated the worst test result; it was reported as final data.
Radiated Emissions <below 1GHz>	Mode 1. TYPE A,SYSTEM ON Mode 2. TYPE C,SYSTEM ON cause "mode 1" generated the worst test result; it was reported as final data.
Radiated Emissions <above 1GHz>	Mode 1. TYPE A,SYSTEM ON

### 2.2. Description of Test System

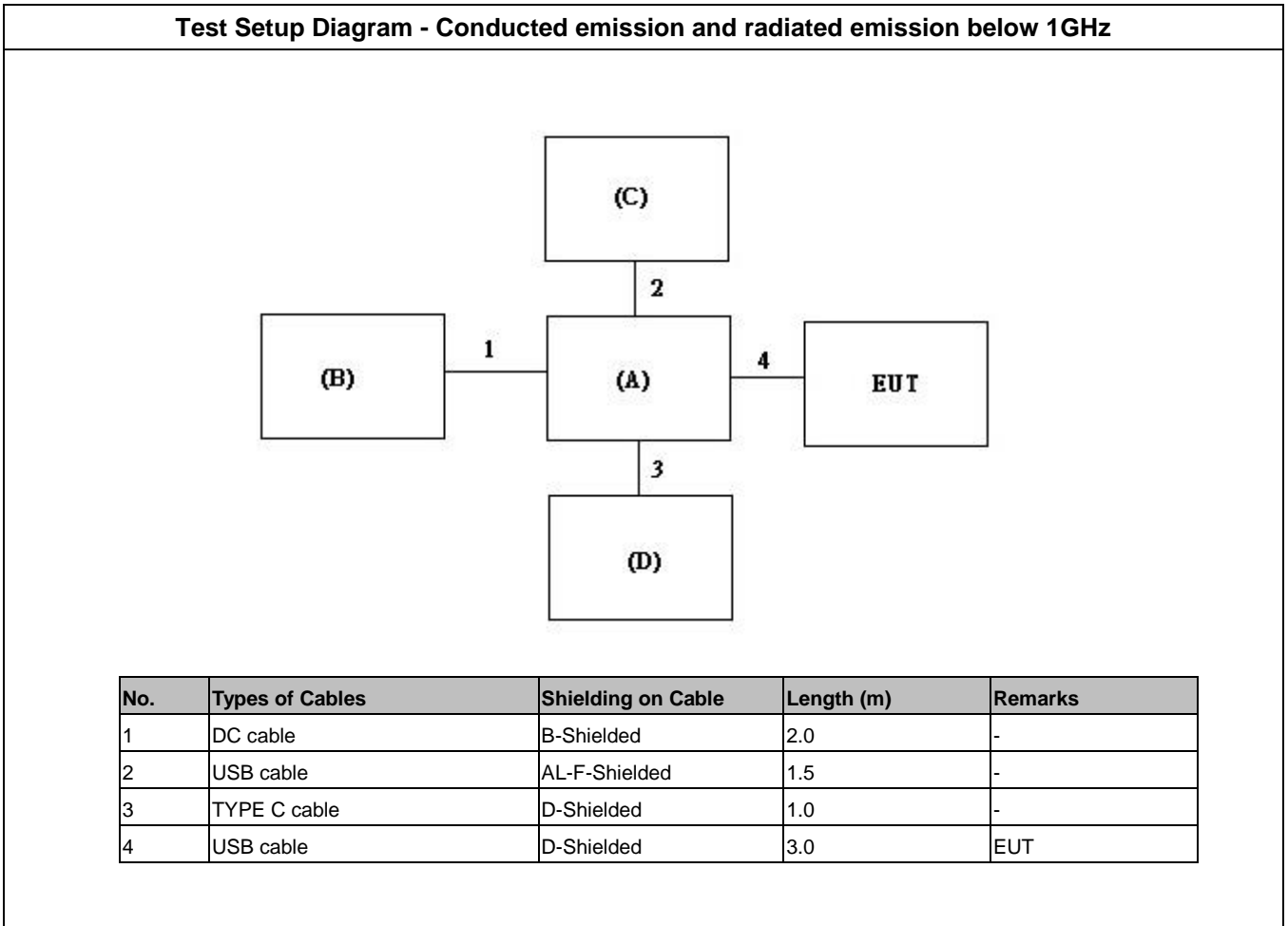
#### Conducted emission and radiated emission below 1GHz

No.	Peripheral	Manufacturer	Model Number	FCC ID	Remarks
For Local					
A	Notebook	DELL	P54G	DoC	-
B	Notebook Adapter	DELL	LA45NM131	DoC	-
C	Mouse	ASUS	MOBTUO	DoC	-
D	Portable External HDD	AKITION	SK2-U31AS-AKT	DoC	-

#### Radiated emission above 1GHz

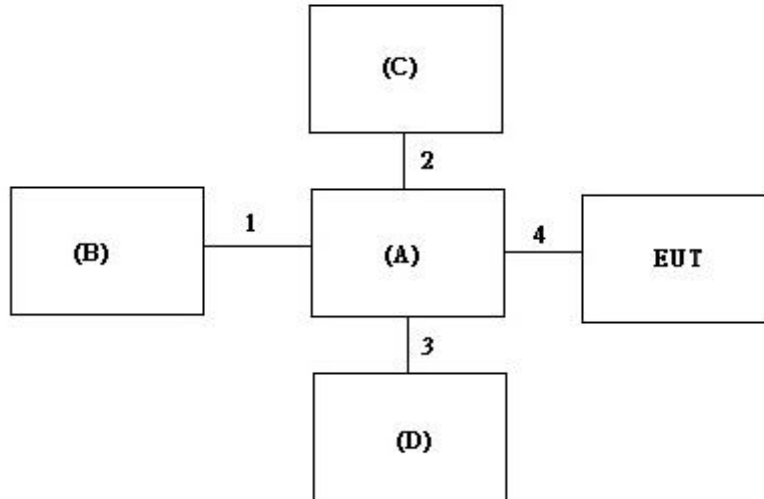
No.	Peripheral	Manufacturer	Model Number	FCC ID	Remarks
For Local					
A	Notebook	DELL	P54G	DoC	-
B	Notebook Adapter	DELL	LA45NM131	DoC	-
C	Mouse	Microsoft	1113	DoC	-
D	Portable External HDD	AKITION	SK2-U31AS-AKT	DoC	-

**2.3. Connection Diagram of Test System**





**Test Setup Diagram - Radiated emission above 1GHz**



No.	Types of Cables	Shielding on Cable	Length (m)	Remarks
1	DC cable	B-Shielded	2.0	-
2	USB cable	AL-F-Shielded	1.8	-
3	Type C cable	D-Shielded	0.4	-
4	USB cable	D-Shielded	3.0	EUT



## **2.4. Test Manner**

An executive program, "EMIprogram.exe" under WIN 10 was used as the test software. The program was executed as follows:

- Turn on the power of all equipment.
- The Notebook executed "BurnInTest" to sends "H" pattern to the monitor, and the monitor displays "H" patterns on the screen.
- The Notebook executed "BurnInTest" to read and write data from HDD.
- The Notebook executed "camera" to preview the image by EUT.
- The Notebook executed "voice recorder" to record the audio signal via mic by EUT.



### 3. General Information of Test

#### 3.1. Test Facilities

<b>Test Site : SPORTON INTERNATIONAL INC.</b>	
<input checked="" type="checkbox"/> HUA YA	ADD: No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: 886-3-327-3456 FAX: 886-3-318-0055 FCC Designation Number: TW1093
<input checked="" type="checkbox"/> DONG HU	ADD: No. 3, Ln. 238, Kangle St., Neihu Dist., Taipei City, Taiwan (R.O.C.) TEL: 886-2-2631-5551 FAX: 886-2-2631-9740 FCC Designation Number: TW1094
<input type="checkbox"/> LIN KOU	ADD: No. 30-2, Dingfu Vil., Linkou Dist., New Taipei City, Taiwan (R.O.C.) TEL: 886-2-2601-1640 FAX: 886-2-2601-1695 FCC Designation Number: TW1095

Test Items	Test Site No.	Test Engineer	Test Environment		Test Date	Remark
			temp °C	hum %		
Conducted Emissions of Powerline	CO01-NH	Willy Lee	26.1~26.3	51.6~51.8	20/Jul/2020	-
Radiated Emissions below 1GHz	OS03-NH	Louis Lin	30.1~30.3	54.2~54.3	20/Jul/2020	-
Radiated Emissions above 1GHz	03CH04-HY	Yen-Liang Ou	26.5~27.5	57~58	24/Jul/2020	-

#### 3.2. Test Standards

Test items	Test Standards and Test Procedures
Radiated and Conducted Emissions	ANSI C63.4:2014 with FCC Method 47 CFR Part 15, Subpart B, Class B Digital Device, CISPR PUB. 22 and Canada Standard ICES-003 Issue 6, Class B

#### 3.3. Test Voltage/Frequencies

Power Supply Type	Voltage/Frequencies
AC Power Supply	120V / 60Hz

#### 3.4. Test Distance and Frequency Range Investigated

Test Items	Frequency Range	Remark
Powerline Conducted Emissions	150 kHz to 30 MHz	-
Radiated Emissions (below 1GHz)	30 MHz to 1,000 MHz	Measurement distance is 10 m.
Radiated Emissions (above 1GHz)	1,000 MHz to 2,000 MHz	Measurement distance is 3 m.



### **3.5. Operating Condition**

- Full system.

### **3.6. Labelling requirements**

#### **3.6.1.FCC Labelling requirements**

The devices shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

#### **3.6.2.ICES Labelling requirements**

The manufacturer, importer or supplier shall meet the labelling requirements set out in this section and in Notice 2014-DRS1003 for electronic labelling for every unit:

- (i) prior to marketing in Canada, for ITE manufactured in Canada and
- (ii) prior to importation into Canada, for imported ITE.

Each unit of an ITE model shall bear a label (see below) that represents the manufacturer's or the importer's SDoC with Innovation, Science and Economic Development Canada's ICES-003. This label shall be permanently affixed to the ITE or displayed electronically and its text must be clearly legible. If the dimensions of the device are too small or if it is not practical to place the label on the ITE and electronic labelling has not been implemented, the label shall be, upon agreement with Innovation, Science and Economic Development Canada, placed in a prominent location in the user manual supplied with the ITE. The user manual may be in an electronic format and must be readily available.

#### **Innovation, Science and Economic Development Canada ICES-003 Compliance Label:**

*CAN ICES-3 (\*)/NMB-3(\*)*

\* Insert either "A" or "B" but not both to identify the applicable Class of ITE.



### **3.7. User Information**

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



### 4. Conducted Emissions Measurement

Conducted Emissions were measured according to the methods defined in ANSI C63.4-2014 Section 7. The EUT is which satisfies the Class B disturbance limits.

#### 4.1. Limit

Limits for conducted disturbance at the mains ports of class B			
Frequency range MHz	Coupling device	Detector type / bandwidth	Class B limits dB(µV)
0,15 – 0,5	AMN	Quasi-peak / 9 kHz	66 - 56
0,5 – 5			56
5 – 30			60
0,15 – 0,5	AMN	Average / 9 kHz	56 - 46
0,5 – 5			46
5 – 30			50

Note 1: The lower limit shall apply at the transition frequencies.  
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

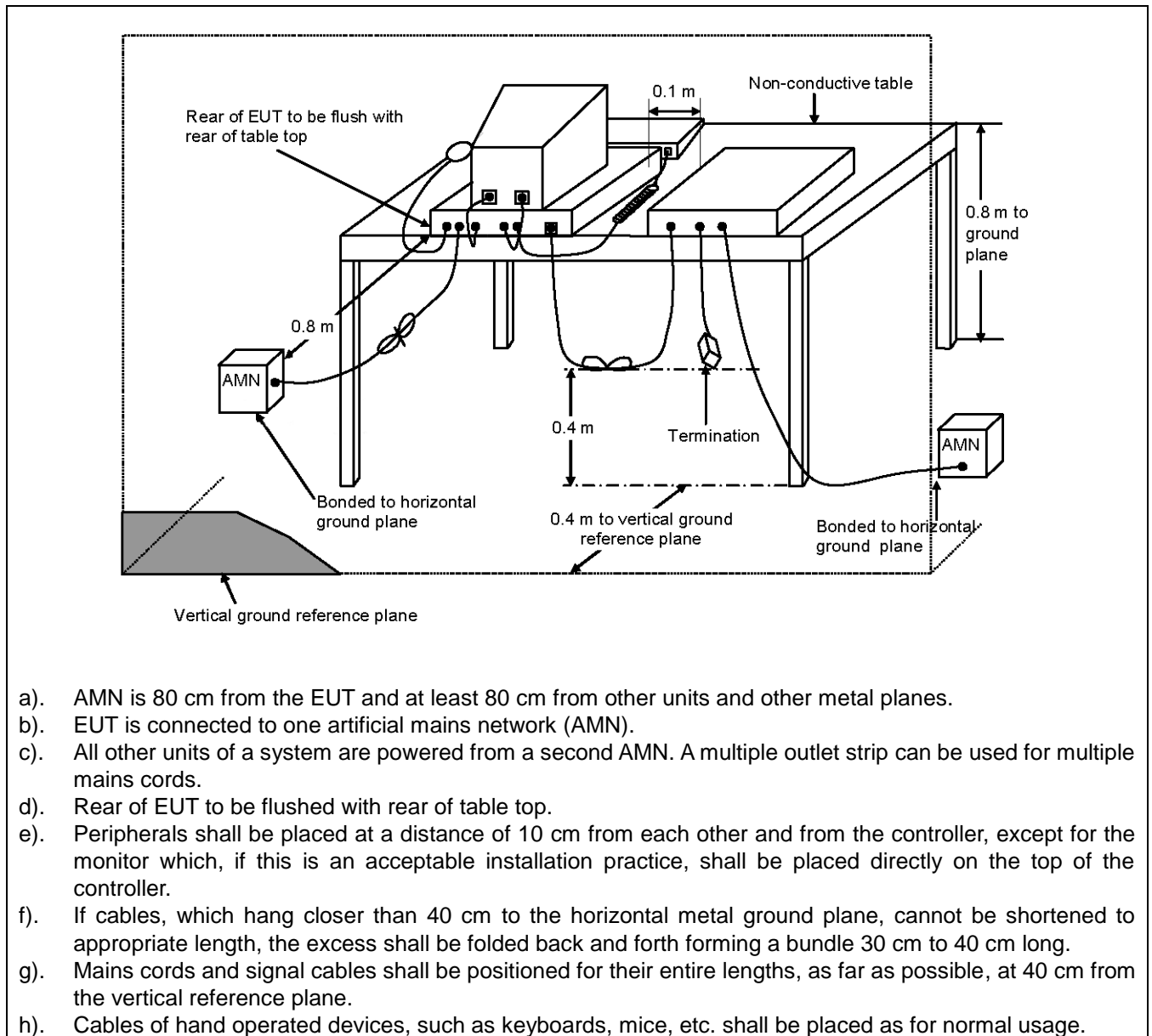
#### 4.2. Test Procedures

- a). The EUT was warmed up for 15 minutes before testing started.
- b). The EUT was placed on a desk 0.8 meter height from the metal ground plane and 0.4 meter from the conducting wall of the shielding room and it was kept at least 0.8 meter from any other grounded conducting surface.
- c). Connect EUT to the power mains through a line impedance stabilization network (LISN).
- d). All the support units are connect to the other LISN.
- e). The LISN provides 50 ohm, coupling impedance for the measuring instrument.
- f). The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- g). Both sides of AC line were checked for maximum conducted interference.
- h). The frequency range from 150 kHz to 30 MHz was searched.
- i). Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- j). All emissions not reported here are more than 10 dB below the prescribed limit.

#### 4.3. Measurement Results Calculation

The measurand Level is calculated using:  
Corrected Reading (dBµV) = LISN Factor + Cable Loss + Read Level  
For example at 0.3 MHz if the LISN Factor is 10.48 dB, the cable loss is 0.10 dB, the measured voltage is 36.39 dBµV, the signal strength would be calculated:  
Corrected Reading (dBµV) = 10.48 dB + 0.10 dB + 36.39 dBµV = 46.97 dBµV

#### 4.4. Typical Test Setup Layout

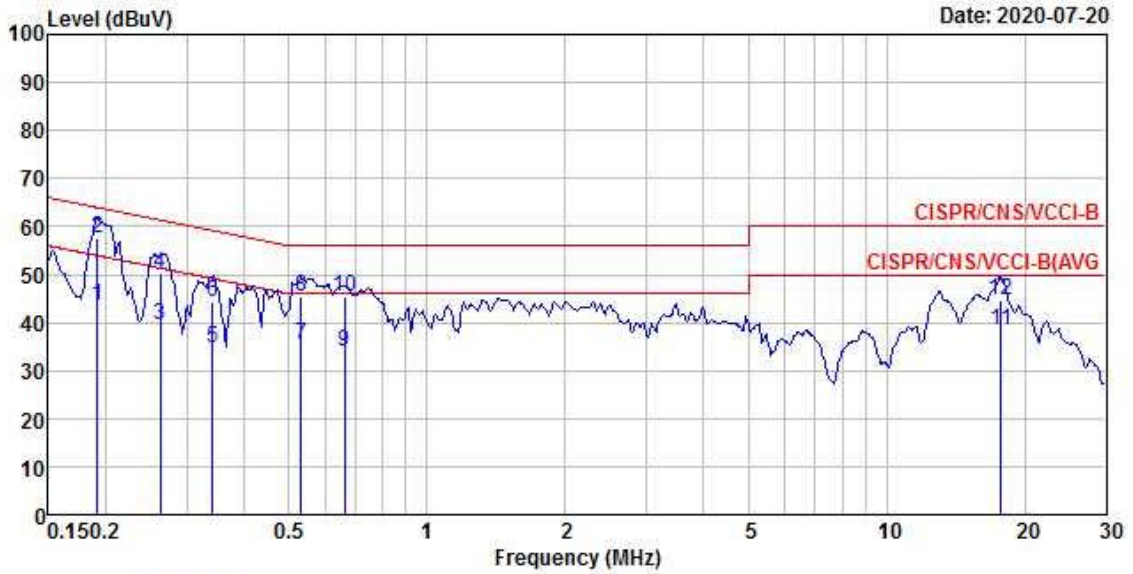




4.5. Test Result

Test Mode	Mode 1		
Test Frequency	0.15 MHz ~ 30 MHz	Test Voltage	AC 120V / 60Hz
<p>■ The test was passed at the minimum margin that marked by the frame in the following data</p>			

Line

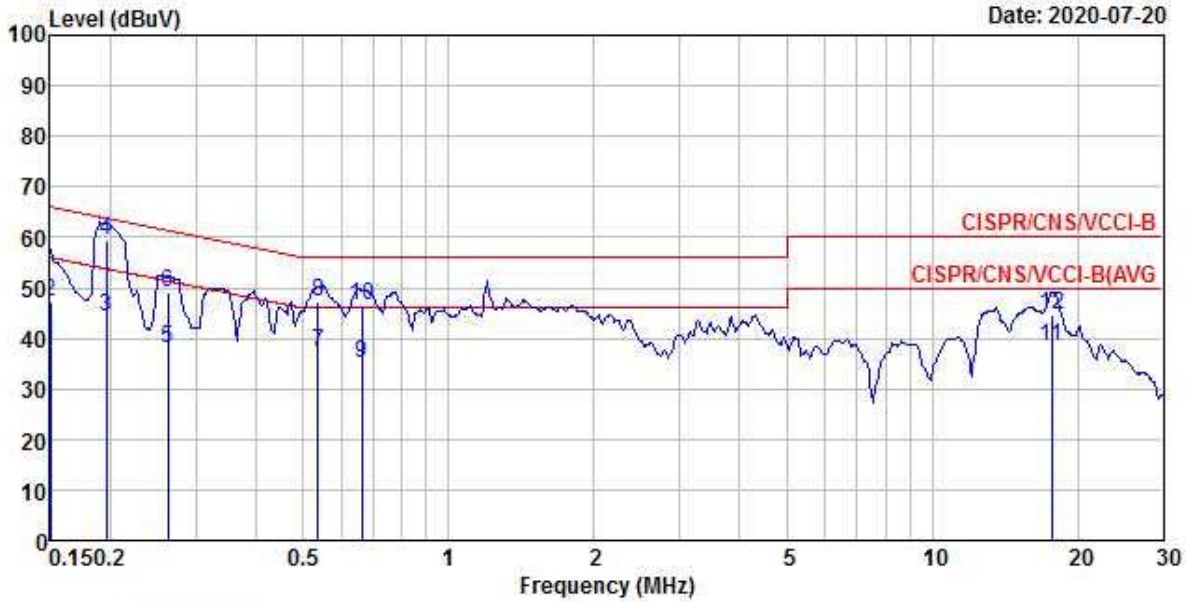


	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.19	43.50	-10.46	53.96	33.09	10.30	0.11	Average
2 @	0.19	57.38	-6.58	63.96	46.97	10.30	0.11	QP
3	0.26	39.45	-11.89	51.34	29.04	10.30	0.11	Average
4	0.26	50.35	-10.99	61.34	39.94	10.30	0.11	QP
5	0.34	34.82	-14.36	49.18	24.42	10.30	0.10	Average
6	0.34	44.35	-14.83	59.18	33.95	10.30	0.10	QP
7	0.53	35.36	-10.64	46.00	24.96	10.30	0.10	Average
8	0.53	45.34	-10.66	56.00	34.94	10.30	0.10	QP
9	0.66	34.12	-11.88	46.00	23.71	10.31	0.10	Average
10	0.66	45.47	-10.53	56.00	35.06	10.31	0.10	QP
11	17.74	38.36	-11.64	50.00	27.29	10.61	0.46	Average
12	17.74	44.56	-15.44	60.00	33.49	10.61	0.46	QP





Neutral



	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.15	39.07	-16.93	56.00	28.67	10.29	0.11	Average
2	0.15	47.17	-18.83	66.00	36.77	10.29	0.11	QP
3	0.20	44.10	-9.68	53.78	33.69	10.30	0.11	Average
4 @	0.20	59.38	-4.40	63.78	48.97	10.30	0.11	QP
5	0.26	38.09	-13.25	51.34	27.68	10.30	0.11	Average
6	0.26	49.26	-12.08	61.34	38.85	10.30	0.11	QP
7	0.54	37.31	-8.69	46.00	26.90	10.31	0.10	Average
8	0.54	47.12	-8.88	56.00	36.71	10.31	0.10	QP
9	0.66	35.08	-10.92	46.00	24.66	10.32	0.10	Average
10	0.66	46.67	-9.33	56.00	36.25	10.32	0.10	QP
11	17.67	38.35	-11.65	50.00	27.23	10.66	0.46	Average
12	17.67	44.71	-15.29	60.00	33.59	10.66	0.46	QP



## 5. Radiated Emissions Measurement

Radiated Emissions were measured according to the methods defined in ANSI C63.4-2014 Section 8. The EUT is which satisfies the Class B disturbance limits.

### 5.1. Radiated Emission below 1GHz

#### 5.1.1.Limit

radiated emissions at frequencies up to 1 GHz for Class B equipment			
Frequency range MHz	Measurement		Class B limits
	Distance (m)	Detector type / bandwidth	dB(µV/m)
30 – 230	10	Quasi Peak / 120 kHz	30
230 – 1000			37

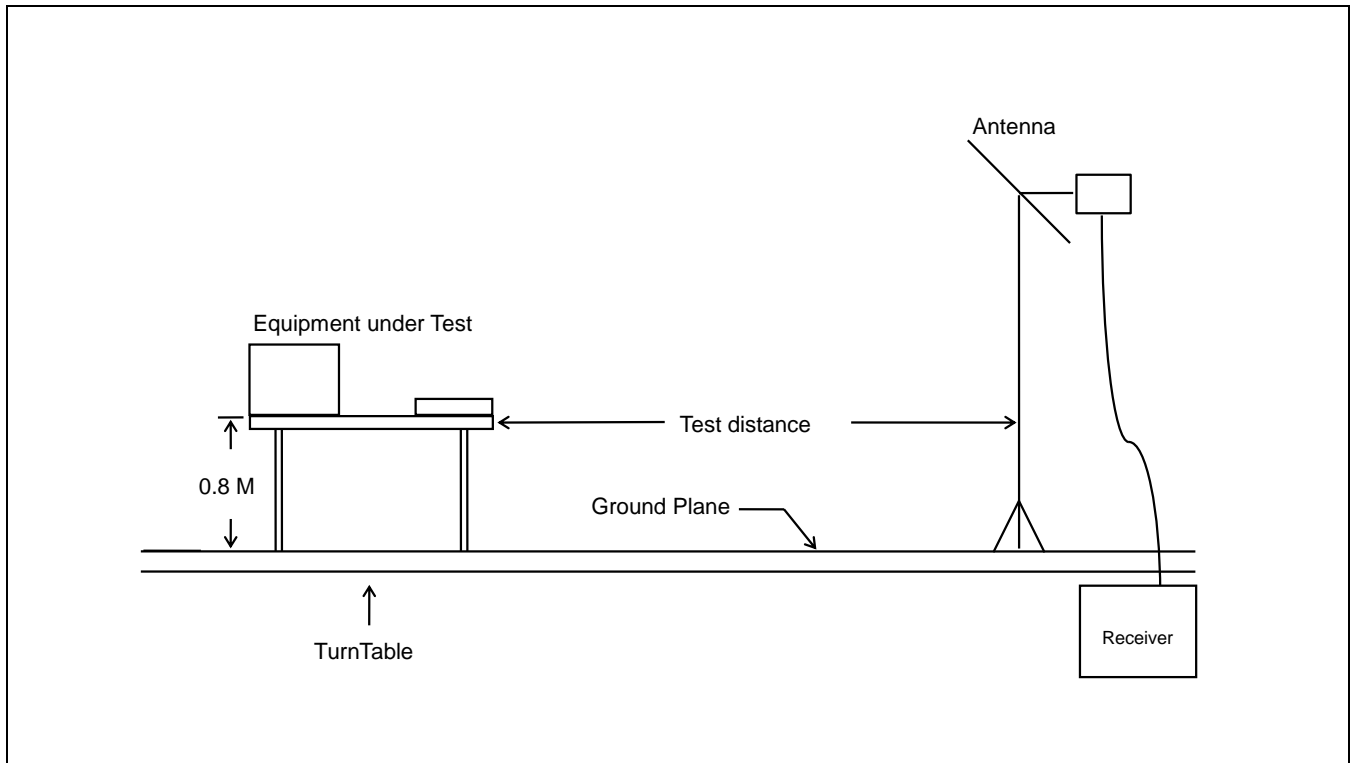
#### 5.1.2.Test Procedures

- a). The EUT was placed on a rotatable table top 0.8 meter above ground.
- b). The EUT was set 10 meters from the interference-receiving antenna which was mounted on the top of a variable height antenna tower.
- c). The table was rotated 360 degrees to determine the position of the highest radiation.
- d). The antenna is a half wave dipole and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e). For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f). Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g). If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- h). The FCC Part 15.109(g) permit parties seeking to authorize a digital device to choose to demonstrate that the device complies with either the Part 15 standards or the international standards found in Publication 22 of the International Special Committee on Radio Interference (CISPR).

#### 5.1.3.Measurement Results Calculation

The measurand Level is calculated using:  
Corrected Reading (dBµV/m) = Antenna Factor + Cable Loss + Read Level – Preamp Factor  
For example at 125 MHz if the Antenna Factor is 17.24 dB/m, the cable loss is 1.20 dB, the measured voltage is 35.80 dBµV and the Preamp Factor is 27.18 dB, the signal strength would be calculated:  
Corrected Reading (dBµV/m) = 17.24 dB/m + 1.20 dB + 35.80 dBµV - 27.18 dB = 27.06 dBµV/m  
Note: If a hybrid antenna is used, the antenna factor shell be the sum of the Antenna Factor + Attenuator Factor.

### 5.1.4. Typical Test Setup Layout

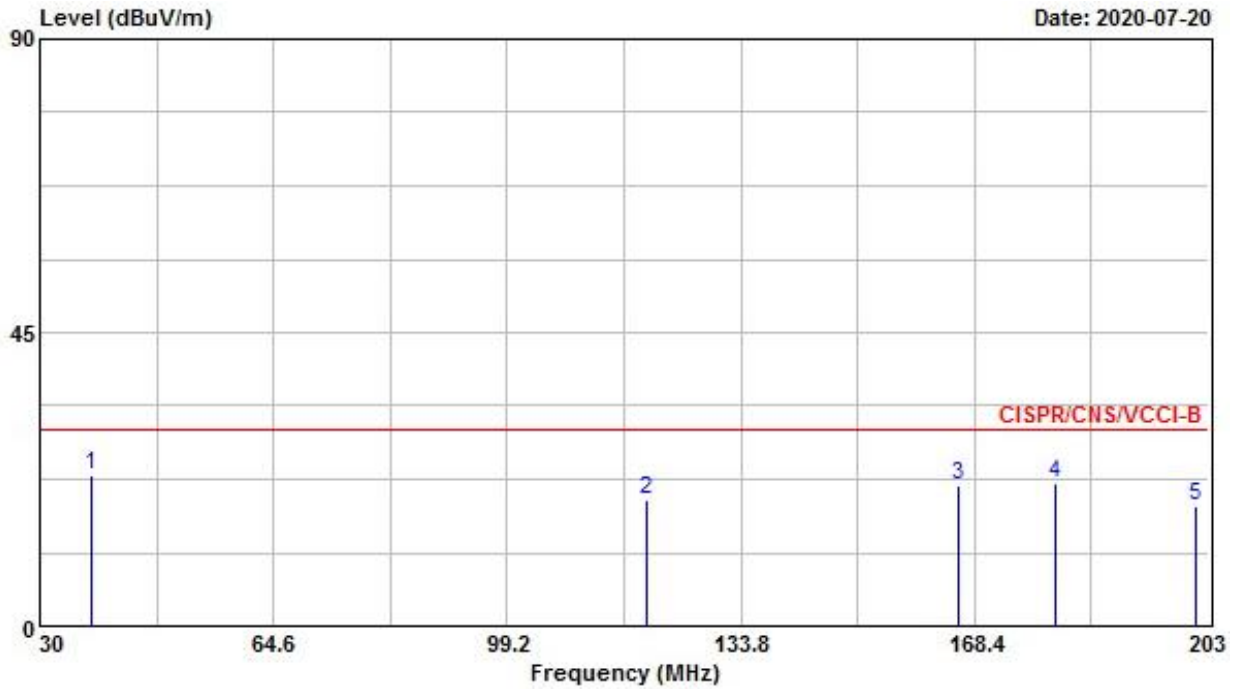




5.1.5. Test Result

Test mode	Mode 1		
Test frequency	30 MHz ~ 1000 MHz	Test Voltage	AC 120V / 60Hz
<p>■ The test was passed at the minimum margin that marked by the frame in the following data</p>			

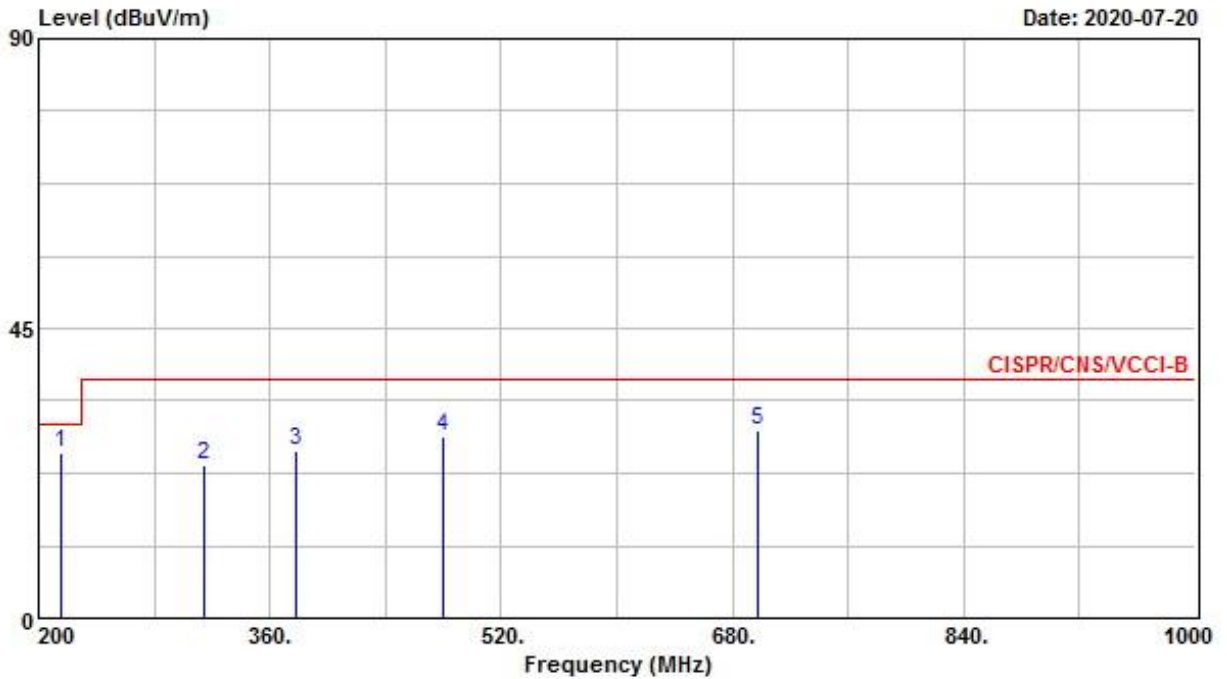
Vertical



	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Remark	Ant	Table
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	37.610	23.22	-6.78	30.00	31.28	18.61	1.16	27.83 Peak	---	---
2	119.790	19.25	-10.75	30.00	27.44	17.57	2.00	27.76 Peak	---	---
3	166.150	21.48	-8.52	30.00	31.95	14.69	2.43	27.59 Peak	---	---
4	180.510	22.02	-7.98	30.00	32.67	14.35	2.50	27.50 Peak	---	---
5	201.270	18.51	-11.49	30.00	28.84	14.20	2.82	27.35 Peak	---	---



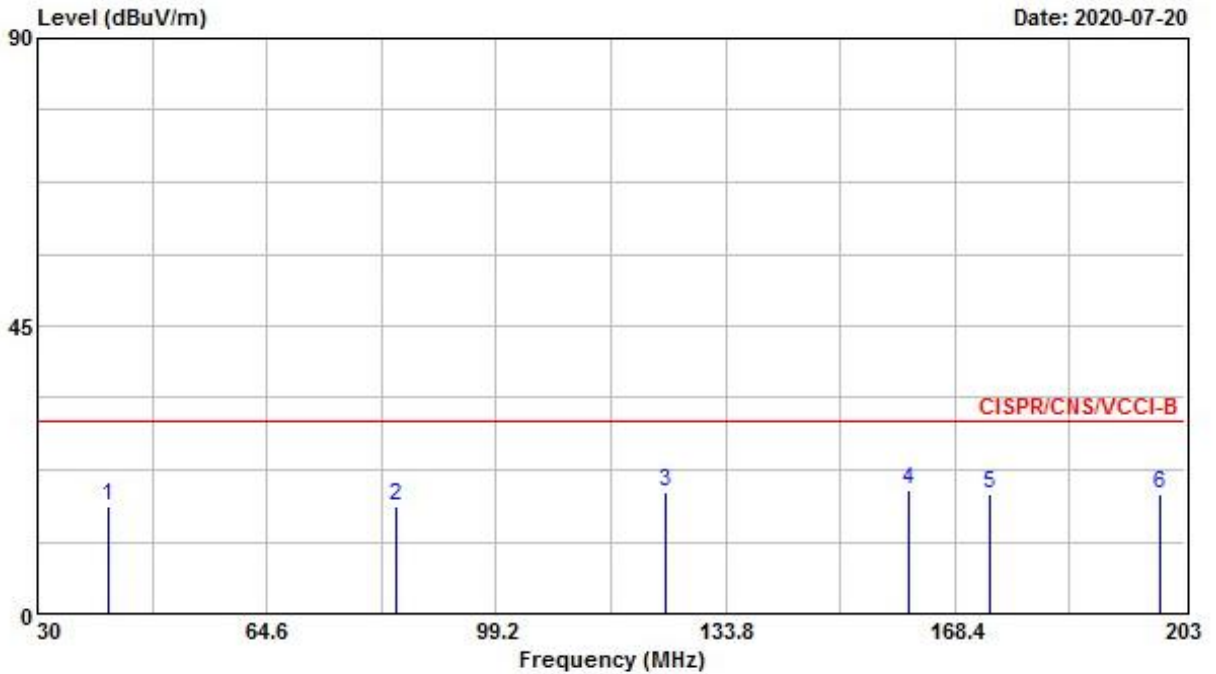
Vertical



	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Remark	Pos	Pos
			dB	dBuV/m	dBuV	dB	dB		cm	deg
1	@ 215.200	25.77	-4.23	30.00	36.14	14.02	2.92	27.31 QP	100	178
2	314.400	23.74	-13.26	37.00	28.98	18.58	3.49	27.31 Peak	---	---
3	377.600	26.03	-10.97	37.00	29.92	20.06	3.75	27.70 Peak	---	---
4	480.000	28.23	-8.77	37.00	29.67	22.38	4.46	28.28 Peak	---	---
5	697.600	29.29	-7.71	37.00	28.37	23.76	5.69	28.53 Peak	---	---



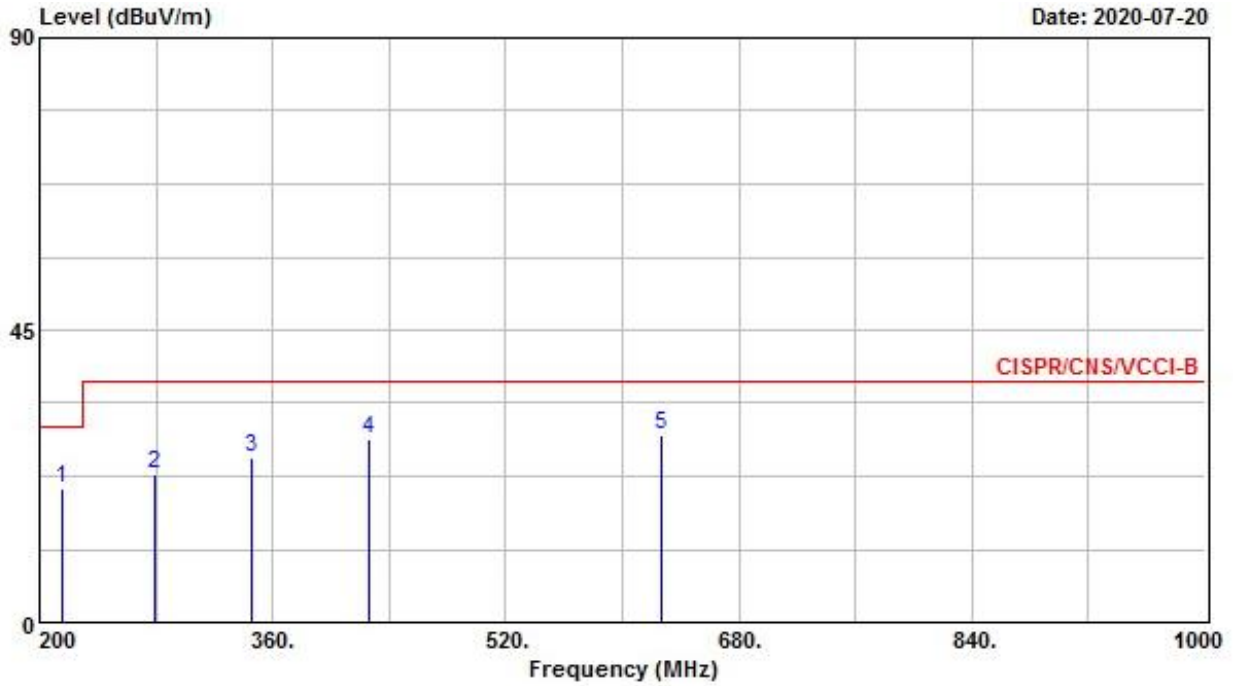
Horizontal



	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Remark	Pos	Pos
			dB	dBuV/m	dBuV	dB	dB		cm	deg
1	40.730	16.79	-13.21	30.00	26.34	17.05	1.20	27.80 Peak	---	---
2	84.150	16.89	-13.11	30.00	30.52	12.54	1.70	27.87 Peak	---	---
3	124.800	18.86	-11.14	30.00	27.06	17.47	2.08	27.75 Peak	---	---
4	161.310	19.35	-10.65	30.00	29.49	15.07	2.40	27.61 Peak	---	---
5	173.590	18.63	-11.37	30.00	29.10	14.60	2.47	27.54 Peak	---	---
6	199.370	18.71	-11.29	30.00	29.07	14.20	2.80	27.36 Peak	---	---



Horizontal



Peak	Freq MHz	Level dBuV/m	Over Limit dB	Limit Line dBuV/m	ReadAntenna Level dBuV	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Remark	Ant Pos cm	Table Pos deg
1	215.200	20.74	-9.26	30.00	31.11	14.02	2.92	27.31	Peak	---	---
2	279.200	22.90	-14.10	37.00	28.93	17.87	3.32	27.22	Peak	---	---
3	345.600	25.28	-11.72	37.00	29.79	19.27	3.67	27.45	Peak	---	---
4	426.400	28.12	-8.88	37.00	30.42	21.77	3.96	28.03	Peak	---	---
5	627.200	28.88	-8.12	37.00	28.10	23.81	5.50	28.53	Peak	---	---



### 5.2. Radiated Emission above 1GHz

#### 5.2.1.Limit

radiated emissions at frequencies above 1 GHz for Class B equipment			
Frequency range GHz	Measurement		Class B limits
	Distance (m)	Detector type / RBW / VBW	dB(µV/m)
1 – 2	3	Average / 1MHz / 1Hz	54
1 – 2		Peak / 1MHz / 3MHz	74

Required highest frequency for radiated measurement	
Highest internal frequency ( $F_x$ )	Highest measured frequency
$F_x \leq 108$ MHz	1 GHz
$108$ MHz $< F_x \leq 500$ MHz	2 GHz
$500$ MHz $< F_x \leq 1$ GHz	5 GHz
$F_x > 1$ GHz	$5 \times F_x$ up to a maximum of 40 GHz

#### 5.2.2. Test Procedures

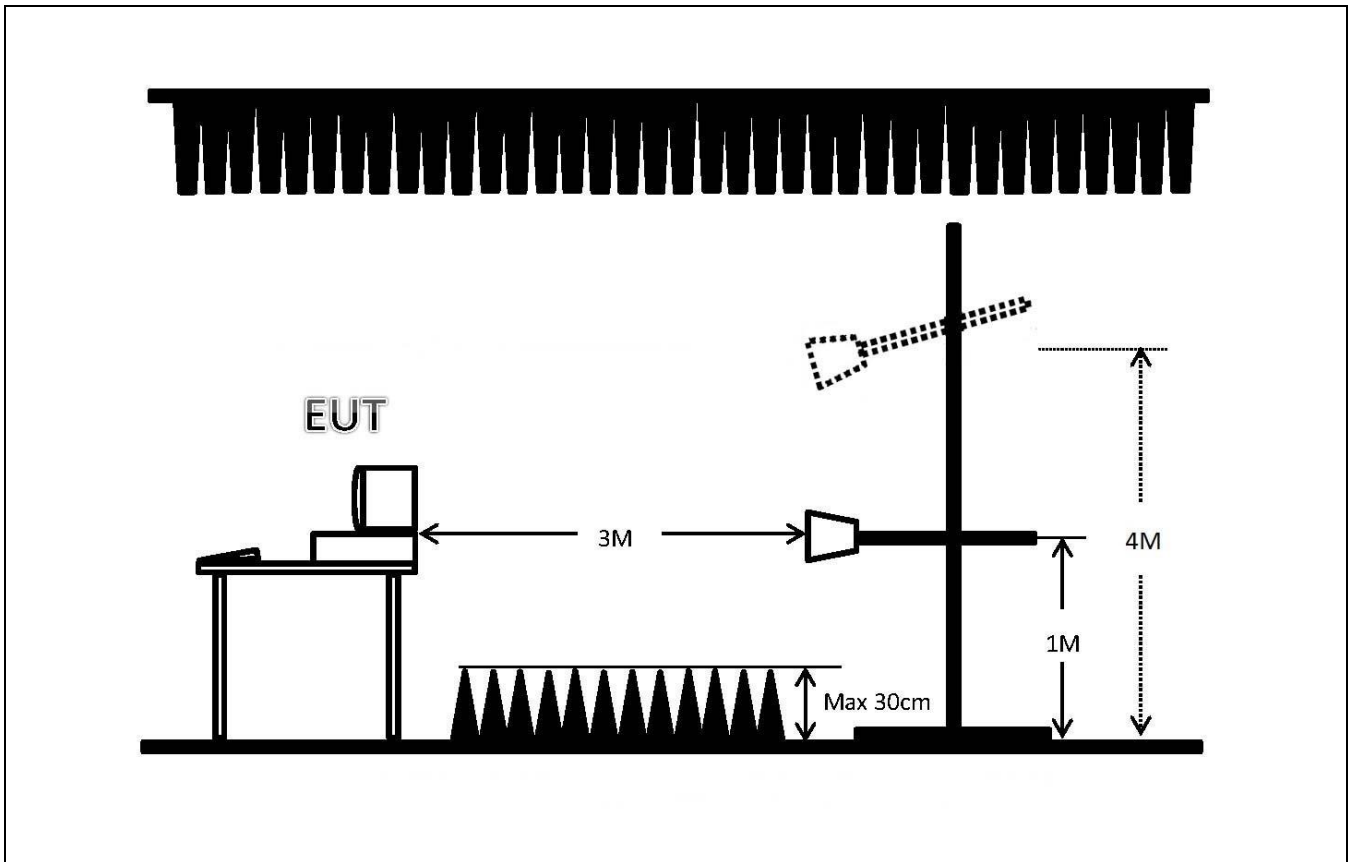
- a). Same test set up as below 1GHz radiated testing.
- b). The EUT was set 3m (1 – 2GHz) from the interference-receiving antenna which was mounted on the top of a variable height antenna tower.
- c). There should be absorber placed between the EUT and Antenna and its located size should let the test site meet CISPR16-1-4 requirement.
- d). The table was rotated 360 degrees to determine the position of the highest radiation.
- e). The measured using a test-receiver system with both a peak and CISPR average detector.
- f). If the EUT is having a Wireless or Bluetooth modular, install the filter at the input connector of test-receiver system.
- g). Set the DRG Horn Antenna at 1M height, then run the turn table to get the maximum noise reading from Horizontal and Vertical polarity separately. t the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
- h). When EUT locating on the turn-table, and its height is over 172cm (Antenna’s 3dB beam width of 6GHz is 27°), the DRG Horn Antenna must be raised up and descended down, then turning around the turn-table to get the maximum noise reading of the Horizontal and Vertical polarity separately. Note the maximum raise up height is same as the top of EUT.
- i). If emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

#### 5.2.3. Measurement Results Calculation

The measurand Level is calculated using:  
Corrected Reading (dBµV/m) = Raw(Read Level)+AF(Antenna Factor)+CL(Cable Loss)-PA( Preamp Factor)  
For example at 1980 MHz if the Antenna Factor is 26.19 dB/m, the cable loss is 4.08 dB, the measured voltage is 51.30 dBµV and the Preamp Factor is 33.34 dB, the signal strength would be calculated:  
Corrected Reading (dBµV/m) = 51.30 dBµV + 26.19 dB/m + 4.08 dB + - 33.34 dB = 48.23 dBµV/m



### 5.2.4. Typical Test Setup Layout





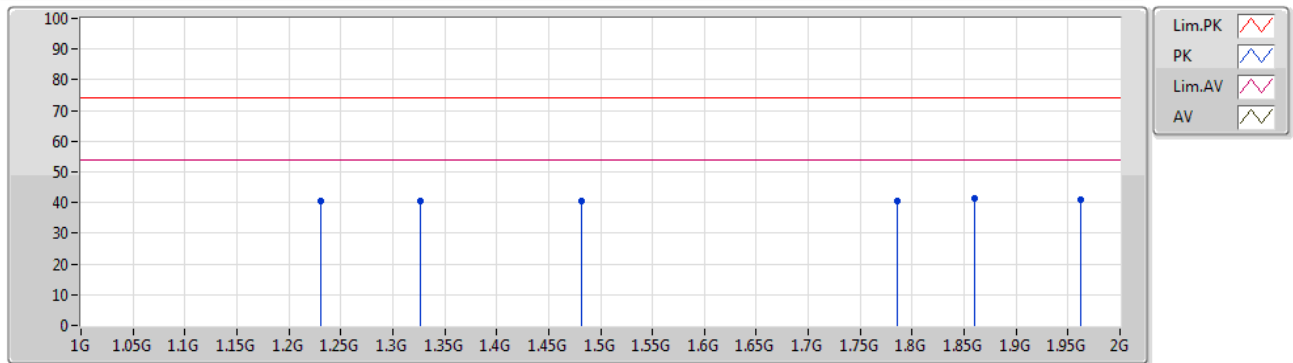
5.2.5. Test Result

Test mode	Mode 1		
Test frequency	Above 1GHz	Test Voltage	AC 120V / 60Hz
<p>■ The test was passed at the minimum margin that marked by the frame in the following data</p>			

Vertical

Mode 1

24/07/2020



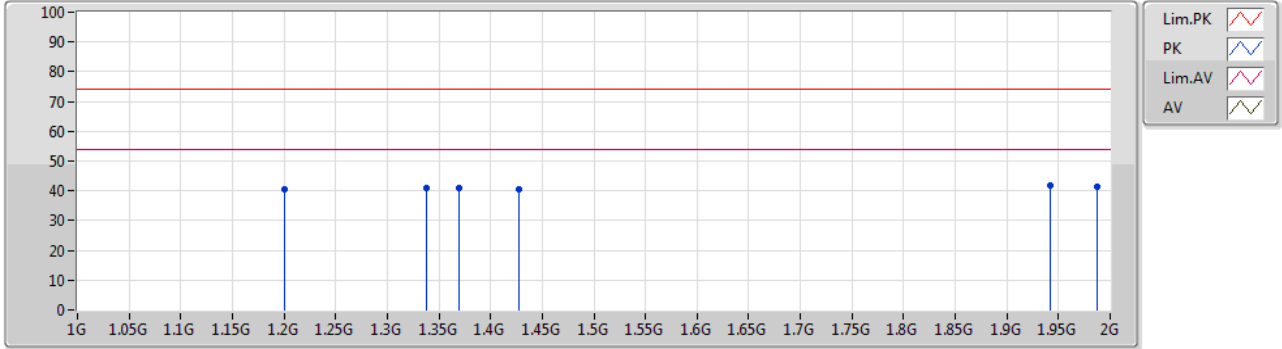
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
PK	1.231G	40.49	74.00	-33.51	-6.83	3	Vertical	-	-	-	47.32	25.42	3.22	35.47
PK	1.326G	40.56	74.00	-33.44	-6.18	3	Vertical	-	-	-	46.74	25.86	3.26	35.30
PK	1.482G	40.62	74.00	-33.38	-5.78	3	Vertical	-	-	-	46.40	25.81	3.42	35.01
PK	1.786G	40.72	74.00	-33.28	-5.86	3	Vertical	-	-	-	46.58	25.22	3.79	34.87
PK	1.86G	41.38	74.00	-32.62	-5.54	3	Vertical	169	1	"Worst"	46.92	25.44	3.86	34.84
PK	1.962G	40.86	74.00	-33.14	-4.79	3	Vertical	-	-	-	45.65	26.05	3.96	34.80



Horizontal

Mode 1

24/07/2020



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
PK	1.2G	40.43	74.00	-33.57	-7.03	3	Horizontal	-	-	-	47.46	25.30	3.20	35.53
PK	1.338G	40.74	74.00	-33.26	-6.07	3	Horizontal	-	-	-	46.81	25.93	3.27	35.27
PK	1.369G	40.81	74.00	-33.19	-5.98	3	Horizontal	-	-	-	46.79	25.96	3.28	35.22
PK	1.427G	40.68	74.00	-33.32	-5.82	3	Horizontal	-	-	-	46.50	25.95	3.34	35.11
PK	1.942G	41.73	74.00	-32.27	-4.92	3	Horizontal	197	1	"Worst"	46.65	25.94	3.94	34.80
PK	1.987G	41.27	74.00	-32.73	-4.65	3	Horizontal	-	-	-	45.92	26.15	3.99	34.79



## 6. Uncertainty of Test Site

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

### 6.1. Emission Test Measurement Uncertainty

Test Items	Test Site No.	$U_{LAB}$
Conducted Emissions	CO01-NH	2.7 dB
Radiated Emissions below 1GHz	OS03-NH	5.9 dB
Radiated Emissions above 1GHz	03CH04-HY	6.47 dB



## 7. List of Measuring Equipment Used

### Conducted Emission - Test Date: 20/Jul/2020

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMI Receiver	R&S	ESR3	102318	9K Hz – 3.6 GHz	30/Jul/2019	Conduction (CO01-NH)
LISN	SCHAFFNER	NNB41	06/10024	9kHz - 30MHz	27/Dec/2019	Conduction (CO01-NH)
Power Filter	CORCOM	MR12030	N/A	30A*2	NCR	Conduction (CO01-NH)
RF Cable-CON	Suhner Switzerland	RG223/U	CB004	9kHz - 30MHz	26/Dec/2019	Conduction (CO01-NH)
software	Audix	E3	6.12160806	-	NCR	Conduction (CO01-NH)

Note: Calibration Interval of instruments listed above is one year. NCR: No Calibration Request.

### Radiated Emission below 1GHz - Test Date: 20/Jul/2020

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Open Area Test Site	SPORTON	OATS-10	OS03-NH	30 MHz - 1 GHz 10m, 3m	22/Oct/2019	Radiation (OS03-NH)
Amplifier	HP	8447D	2944A08292	0.1 MHz - 1.3 GHz	03/Jul/2020	Radiation (OS03-NH)
Spectrum Analyzer	R&S	FSP7	838858/038	9 kHz – 7GHz	27/Apr/2020	Radiation (OS03-NH)
Receiver	R&S	ESCS30	838251/002	9 kHz –2.75 GHz	13/Jul/2020	Radiation (OS03-NH)
Bilog Antenna With 5dB Attenuator	CHASE	CBL6112D	25234	30 MHz - 2 GHz	26/Apr/2020	Radiation (OS03-NH)
Turn Table	EMCO	2080	9805-2065	0 - 360 degree	NCR	Radiation (OS03-NH)
Antenna Mast	EMCO	2075	9804-2151	1 m - 4 m	NCR	Radiation (OS03-NH)
RF Cable-R10m	HSCN	RG213U	2X11N	30 MHz - 1 GHz	17/Jul/2020	Radiation (OS03-NH)
Software	Audix	E3	Ver.4	-	NCR	Radiation (OS03-NH)

Note: Calibration Interval of instruments listed above is one year. NCR: No Calibration Request.

**Radiated Emission above 1GHz - Test Date: 24/Jul/2020**

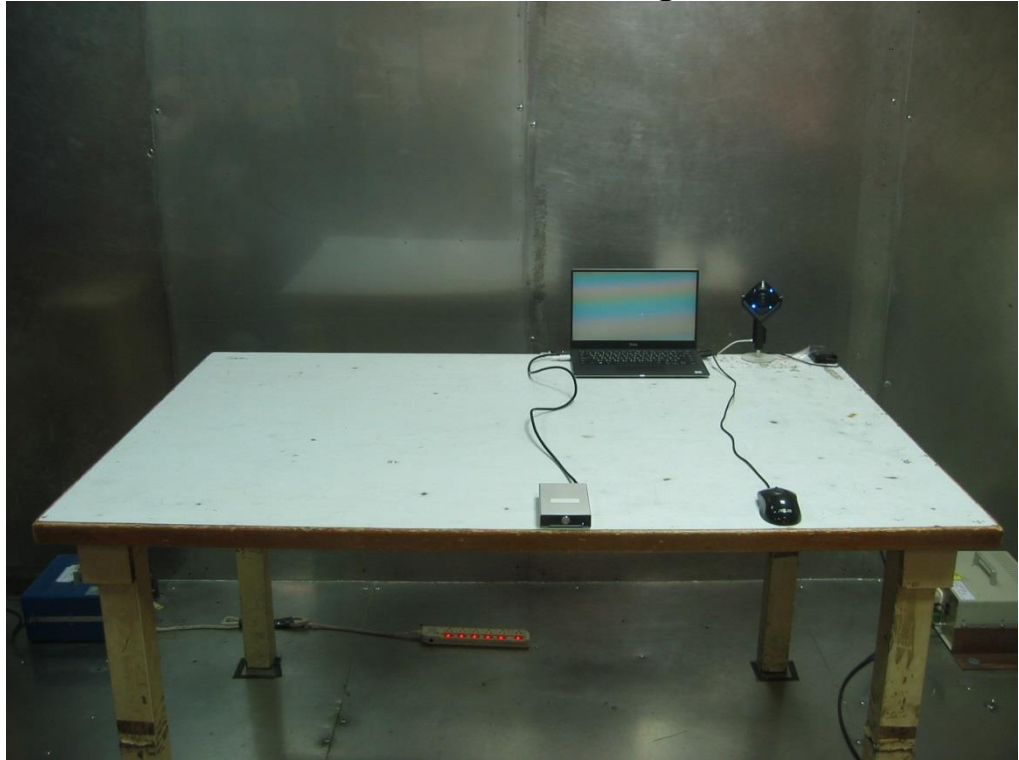
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Test Receiver	R&S	ESU-26	100422	20Hz ~ 26.5GHz	23/Oct/2019	22/Oct/2020	Radiation (03CH04-HY)
3m Semi Anechoic Chamber (Site V.S.W.R)	RIKEN	3m SAC	03CH04-HY	1 GHz ~ 18 GHz 3m	27/Feb/2020	26/Feb/2021	Radiation (03CH04-HY)
Microwave Preamplifier	Agilent	8449B	3008A02602	1GHz~26.5GHz	20/Mar/2020	19/Mar/2021	Radiation (03CH04-HY)
Horn Antenna	SCHWARZBECK	BBHA9120	BBHA9120D018 34	1 GHz ~ 18 GHz	06/Feb/2020	05/Feb/2021	Radiation (03CH04-HY)
Turn Table	Chaintek	3000	MF7802056	0 ~ 360 degree	NCR	NCR	Radiation (03CH04-HY)
Antenna Mast	MF	MF-7802	MF780208163	1 ~ 4 m	NCR	NCR	Radiation (03CH04-HY)
RF Cable	SUHNER	SUCOFLEX 104	CB001-03CH01	30MHz~18GHz	02/Mar/2020	01/Mar/2021	Radiation (03CH04-HY)
Software	Sporton	SENSE-EMI	V5.10.7	-	NCR	NCR	Radiation (03CH04-HY)

NCR: No Calibration Request.

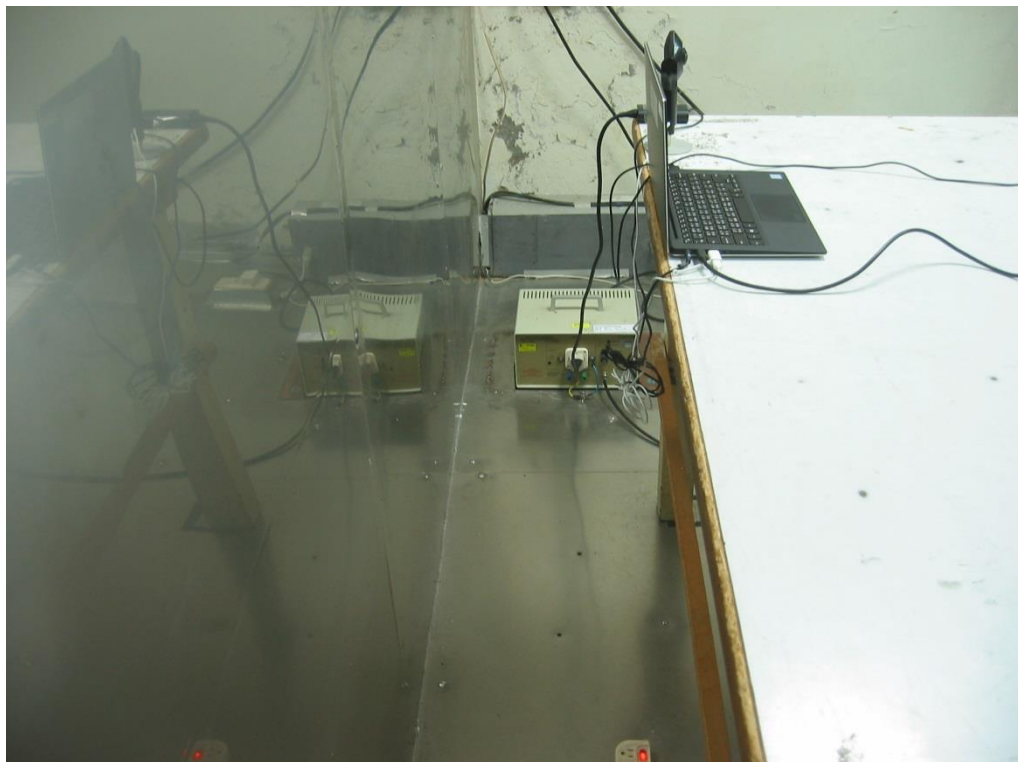
## Appendix A. Test Photos

### 1. Photographs of Conducted Emissions Test Configuration

Front View



Side View



**Under Table View**





## 2. Photographs of Radiated Emissions Test Configuration

For radiated emissions below 1GHz

Front View

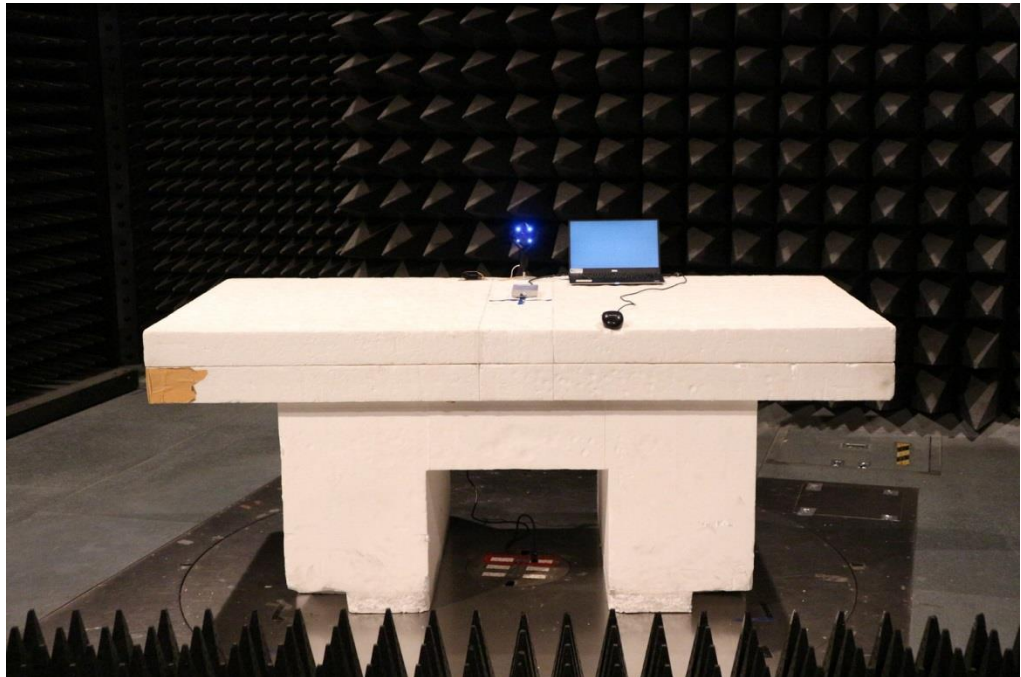


Rear View



For radiated emissions above 1GHz

Front View



Rear View



————THE END————