



**VCCI-CISPR 32**

**TEST REPORT**

*For*

**USB Flash Drives**

**MODEL NUMBER: Carve(CVE)**

**REPORT NUMBER: 4790467614.1-3-EMC-1**

**ISSUE DATE: July 6, 2022**

*Prepared for*

**Flashbay Electronics**

**Building2, Jixun Industrial Park, Xinjiao, Dong'ao Village, Shatian Town, Huiyang District, Huizhou City, Guangdong Province, P.R. China**

*Prepared by*

**UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch**

**Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China**

**Tel: +86 769 22038881**

**Fax: +86 769 33244054**

**Website: [www.ul.com](http://www.ul.com)**

The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products.



Revision History

Rev.	Issue Date	Revisions	Revised By
V0	7/6/2022	Initial Issue	



### Summary of Test Results

Emission			
Standard	Test Item	Limit	Result
VCCI-CISPR 32:2016	Conducted emissions (AC mains power ports)	Clause 5	Pass
	Radiated emissions below 1GHz	Clause 5	Pass
	Radiated emissions above 1GHz	Clause 5	Pass

Note:

1. This test is only applicable for devices which can be charged or powered by AC power cable.

\*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

\*The measurement result for the sample received is <Pass> according to <VCCI-CISPR 32:2016> when <Accuracy Method> decision rule is applied.



## CONTENTS

<b>1. ATTESTATION OF TEST RESULTS.....</b>	<b>5</b>
<b>2. TEST METHODOLOGY.....</b>	<b>6</b>
<b>3. FACILITIES AND ACCREDITATION.....</b>	<b>6</b>
<b>4. CALIBRATION AND UNCERTAINTY .....</b>	<b>7</b>
4.1. <i>MEASURING INSTRUMENT CALIBRATION .....</i>	<i>7</i>
4.2. <i>MEASUREMENT UNCERTAINTY.....</i>	<i>7</i>
<b>5. EQUIPMENT UNDER TEST .....</b>	<b>8</b>
5.1. <i>DESCRIPTION OF EUT .....</i>	<i>8</i>
5.2. <i>TEST MODE.....</i>	<i>8</i>
5.3. <i>SUPPORT UNITS FOR SYSTEM TEST .....</i>	<i>8</i>
<b>6. MEASURING EQUIPMENT AND SOFTWARE USED.....</b>	<b>9</b>
<b>7. MISSION TEST.....</b>	<b>10</b>
7.1. <i>CONDUCTED EMISSIONS (AC MAINS POWER PORTS).....</i>	<i>10</i>
7.2. <i>RADIATED EMISSIONS BELOW 1GHZ.....</i>	<i>16</i>
7.3. <i>RADIATED EMISSIONS ABOVE 1GHZ.....</i>	<i>20</i>
<b>APPENDIX: PHOTOGRAPHS OF TEST CONFIGURATION .....</b>	<b>24</b>
<b>APPENDIX: PHOTOGRAPHS OF THE EUT .....</b>	<b>28</b>



# 1. ATTESTATION OF TEST RESULTS

## Applicant Information

Company Name: Flashbay Electronics  
Address: Building2, Jixun Industrial Park, Xinjiao, Dong'ao Village, Shatian Town, Huiyang District, Huizhou City, Guangdong Province, P.R. China

## Manufacturer Information

Company Name: Flashbay Electronics  
Address: Building2, Jixun Industrial Park, Xinjiao, Dong'ao Village, Shatian Town, Huiyang District, Huizhou City, Guangdong Province, P.R. China

## EUT Information

EUT Name: USB Flash Drives  
Model: Carve(CVE)  
Brand: N/A  
Sample Received Date: June 29, 2022  
Sample Status: Normal  
Sample ID: 5103394  
Date of Tested: June 29, 2022 to July 01, 2022

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
VCCI-CISPR 32:2016	Pass

Prepared By:

Andy Xiong  
Engineer Project Associate

Checked By:

Denny Huang  
Project Engineer

Approved By:

Stephen Guo  
Laboratory Manager



## 2. TEST METHODOLOGY

All tests were performed in accordance with the standard VCCI-CISPR 32:2016

## 3. FACILITIES AND ACCREDITATION

Accreditation Certificate	<p><b>A2LA (Certificate No.: 4102.01)</b> UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been assessed and proved to be in compliance with A2LA.</p> <p><b>FCC (FCC Recognized No.: CN1187)</b> UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules</p> <p><b>ISED (Company No.: 21320)</b> UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with Industry Canada. The Company Number is 21320.</p> <p><b>VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)</b> UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20019 and R-20004 Shielding Room B , the VCCI registration No. is C-20012 and T-20011</p>
---------------------------	--

Note:

All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China.

## 4. CALIBRATION AND UNCERTAINTY

### 4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

### 4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Measurement Frequency Range	K	U(dB)
Conducted emissions (AC mains power ports)	0.15MHz - 30MHz	2	3.63
Radiated emissions below 1GHz	30MHz -1GHz	2	4.13
Radiated emissions above 1GHz	1GHz - 18GHz	2	5.64

Note1: This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of k=2.

Note 2: According to the standard CISPR 16-4-2, the MU for the Conducted emissions from the AC mains power ports using AMN should not exceed 3.8 in range of 9kHz to 150kHz and 3.4 in range of 150kHz to 30MHz. We have considered the test results containing the value of U<sub>lab</sub> (in dB) for the measurement instrumentation actually used for the measurements.

## 5. EQUIPMENT UNDER TEST

### 5.1. DESCRIPTION OF EUT

EUT Name	USB Flash Drives
Model	Carve(CVE)
EUT Classification	Class B
Internal Frequency	120MHz
Ratings	DC 5V(From Laptop )
Note	Model Carve(CVE) has two different wooden shells, see report photos for details.

### 5.2. TEST MODE

Test Mode	Description
M01	Connect to laptop(Data transfer)

### 5.3. SUPPORT UNITS FOR SYSTEM TEST

The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Laptop	Lenovo	ThinkPad T14s Gen 1	N/A	UL Support
E-2	AC Adapter for laptop	Lenovo	ADLX65CLGC2A	Input: AC 100-240V~, 1.7A, 50/60Hz Output: DC 20V 3.25A	UL Support

The following cables were used to form a representative test configuration during the tests.

Item	Type of cable	Shielded Type	Ferrite Core	Length
C-1	AC cable	Unshielded	without ferrite	1.5 m

**6. MEASURING EQUIPMENT AND SOFTWARE USED**

<b>Test Equipment of Conducted emissions (AC mains power ports)</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Last Cal.</b>	<b>Due Date</b>
EMI Test Receiver	ROHDE & SCHWARZ	ESR3	101961	Oct. 30, 2021	Oct. 29, 2022
Two-Line V-Network	ROHDE & SCHWARZ	ENV216	101983	Oct. 30, 2021	Oct. 29, 2022
Test Software for Conducted Emission	Farad	EZ-EMC	Ver.UL-3A1	N/A	N/A

<b>Test Equipment of Radiated emissions below 1GHz</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Last Cal.</b>	<b>Due Date</b>
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	Apr. 24, 2020	Apr. 23, 2023
MXE EMI Receiver	KEYSIGHT	N9038A	MY56400036	Oct. 31, 2021	Oct. 30, 2022
Amplifier	hp	8447D	2944A09099	Oct. 31, 2021	Oct. 30, 2022
Test Software for Conducted Emission	Farad	EZ-EMC	Ver.UL-3A1	N/A	N/A

<b>Test Equipment of Radiated emissions above 1GHz</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Last Cal.</b>	<b>Due Date</b>
EMI Measurement Receiver	ROHDE & SCHWARZ	ESR26	101377	Oct. 30, 2021	Oct. 29, 2022
Horn Antenna	TDK	HRN-0118	130940	Jul. 20, 2021	Jul. 19, 2024
Preamplifier	TDK	PA-02-3	TRS-308-00002	Oct. 31, 2021	Oct. 30, 2022
Preamplifier	TDK	PA-02-0118	TRS-305-00067	Oct. 30, 2021	Oct. 29, 2022
Test Software for Conducted Emission	Farad	EZ-EMC	Ver.UL-3A1	N/A	N/A

<b>Other Instrument</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Last Cal.</b>	<b>Due Date</b>
Temperature humidity probe	OMEGA	ITHX-SD-5	18470007	Nov. 04, 2021	Nov. 03, 2022
Barometer	Yiyi	Baro	N/A	Nov. 15, 2021	Nov. 14, 2022

## 7. EMISSION TEST

### 7.1. CONDUCTED EMISSIONS (AC MAINS POWER PORTS)

#### LIMITS

(a.) Limits of conducted emissions from the AC mains power ports of Class A equipment

Frequency range MHz	Coupling device	Detector type / bandwidth	Class A voltage limits dB(uV)
0.15 to 0.5	AMN	Quasi Peak / 9 kHz	79
0.5 to 30			73
0.15 to 0.5	AMN	Average / 9 kHz	66
0.5 to 30			60

(b.) Limits of conducted emissions from the AC mains power ports of Class B equipment

Frequency range MHz	Coupling device	Detector type / bandwidth	Class B voltage limits dB(uV)
0.15 to 0.5	AMN	Quasi Peak / 9 kHz	66 to 56
0.5 to 5			56
5 to 30			60
0.15 to 0.5	AMN	Average / 9 kHz	56 to 46
0.5 to 5			46
5 to 30			50

(c.) Limits of asymmetric mode conducted emissions of Class A equipment

Frequency range MHz	Coupling device	Detector type / bandwidth	Class A voltage limits dB(uV)	Class A current limits dB(uA)
0.15 -0.5	AAN	Quasi Peak / 9 kHz	97 to 87	n/a
0.5 -30			87	n/a
0.15 -0.5	AAN	Average / 9 kHz	84 to 74	n/a
0.5 -30			74	n/a
0.15 -0.5	Current Probe	Quasi Peak / 9 kHz	N/A	53 to 43
0.5 -30			N/A	43
0.15 -0.5	Current Probe	Average / 9 kHz	N/A	40 to 30
0.5 -30			N/A	30

## (d.) Limits of asymmetric mode conducted emissions of Class B equipment

Frequency range MHz	Coupling device	Detector type / bandwidth	Class B voltage limits dB(uV)	Class B current limits dB(uA)
0.15 -0.5	AAN	Quasi Peak / 9 kHz	84 to 74	n/a
0.5 -30			74	n/a
0.15 -0.5	AAN	Average / 9 kHz	74 to 64	n/a
0.5 -30			64	n/a
0.15 -0.5	Current Probe	Quasi Peak / 9 kHz	n/a	40 to 30
0.5 -30			n/a	30
0.15 -0.5	Current Probe	Average / 9 kHz	n/a	30 to 20
0.5 -30			n/a	20

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

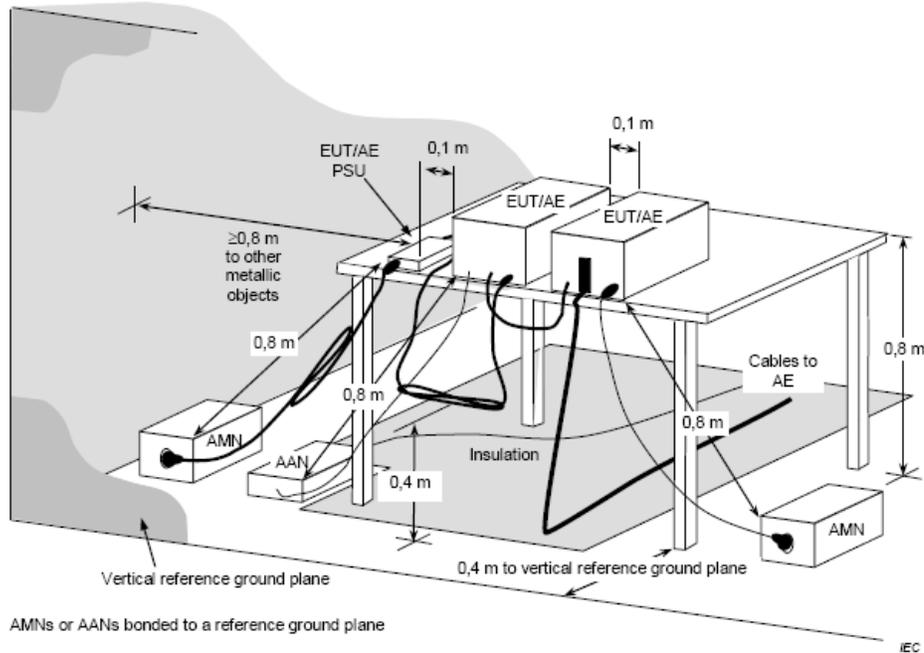
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

### **TEST PROCEDURE**

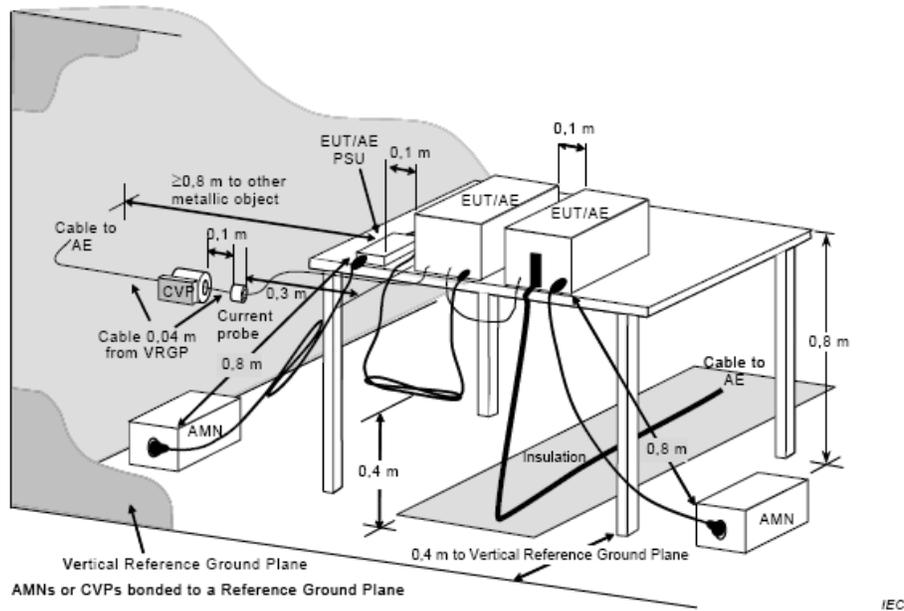
1. The EUT was placed on the top of a rotating table 0.8 meters above the horizontal ground plane and being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
2. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
3. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
4. Cables of hand-operated devices, such as keyboards and mice, shall be placed as for normal used.
5. LISN at least 80 cm from nearest part of EUT chassis.
6. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.

**TEST SETUP**



The 0,8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be  $\geq 0,8$  m.

a) Example measurement arrangement for table-top EUT (alternative 1)



The 0,8 m distance specified between EUT/local AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be  $\geq 0,8$  m.

b) Example measurement arrangement for table-top EUT measuring in accordance with C.4.1.6.4



**TEST ENVIRONMENT**

Temperature	24.2°C	Relative Humidity	59%
Atmosphere Pressure	103kPa		

**TEST MODE**

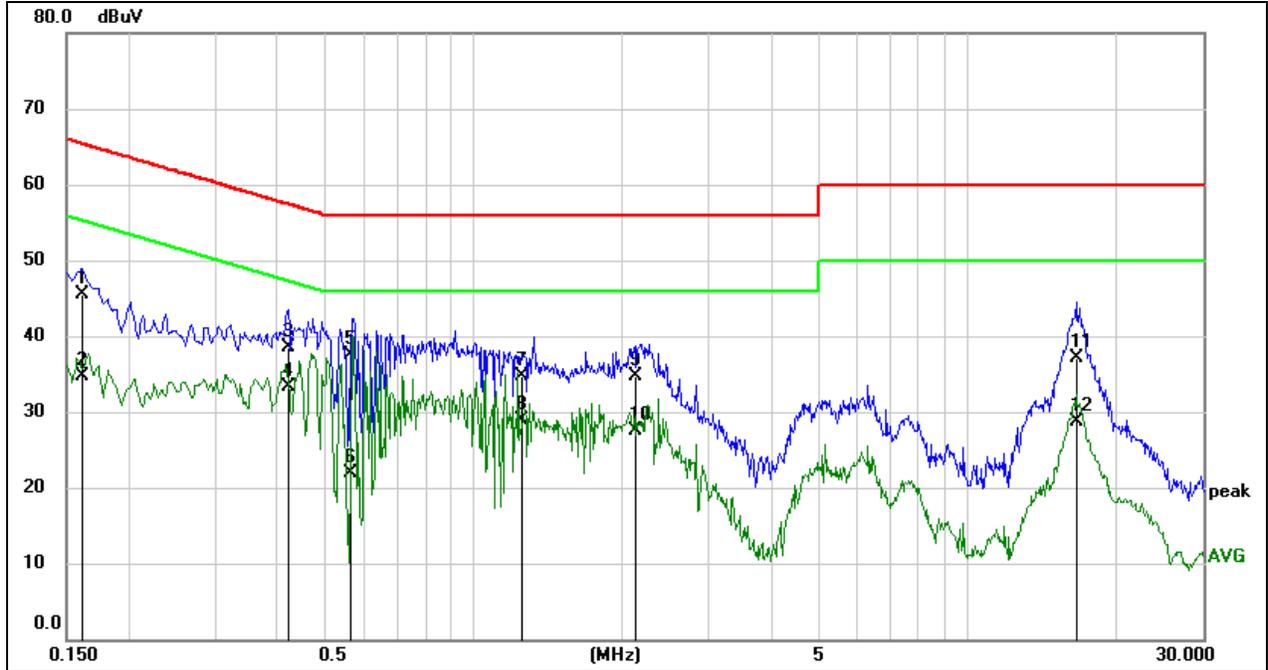
Pre-test Mode:	M01
Final Test Mode:	M01

Note: The test voltage AC 100V\_60Hz come from the AC adapter.



**TEST RESULTS**

Test Mode:	M01	Line:	Line
Test Voltage:	AC 100V_60Hz		

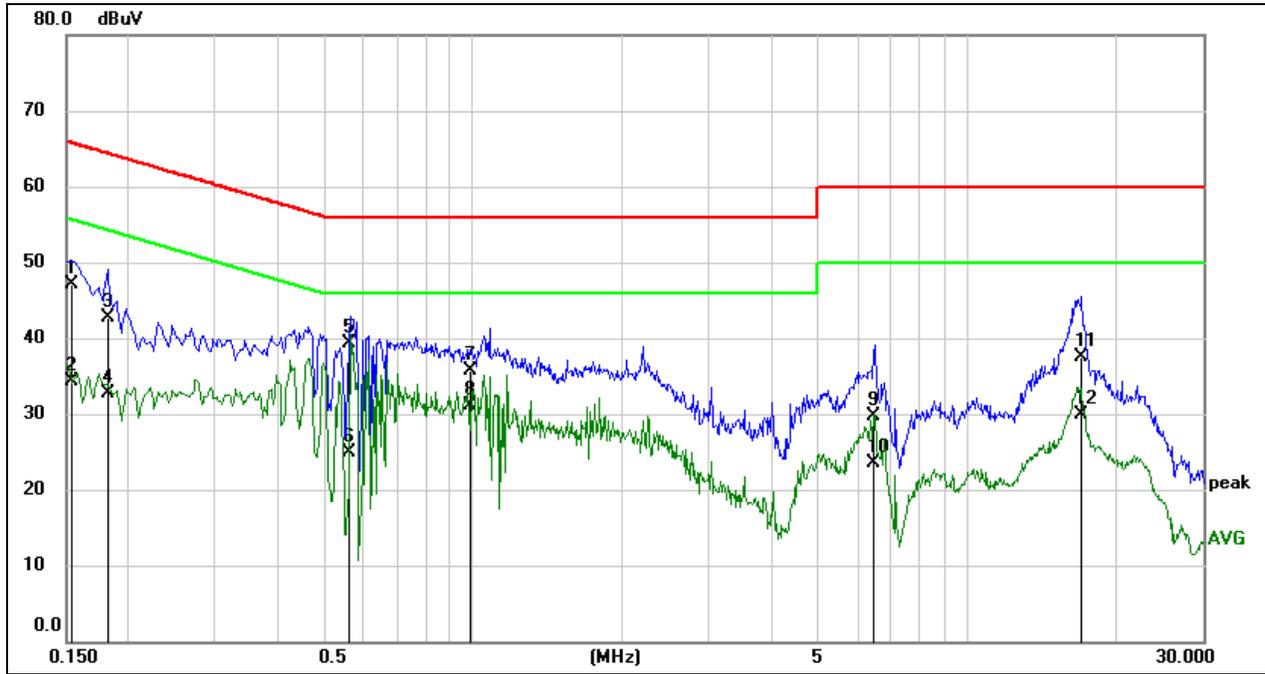


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1610	35.87	9.59	45.46	65.41	-19.95	QP
2	0.1610	25.20	9.59	34.79	55.41	-20.62	AVG
3	0.4214	29.11	9.38	38.49	57.42	-18.93	QP
4	0.4214	24.01	9.38	33.39	47.42	-14.03	AVG
5	0.5657	28.17	9.40	37.57	56.00	-18.43	QP
6	0.5657	12.57	9.40	21.97	46.00	-24.03	AVG
7	1.2625	25.04	9.61	34.65	56.00	-21.35	QP
8	1.2625	19.30	9.61	28.91	46.00	-17.09	AVG
9	2.1261	25.04	9.63	34.67	56.00	-21.33	QP
10	2.1261	17.79	9.63	27.42	46.00	-18.58	AVG
11	16.7190	27.31	9.74	37.05	60.00	-22.95	QP
12	16.7190	18.90	9.74	28.64	50.00	-21.36	AVG

Remark: Result = Reading +Correct (Insertion Loss + Cable Loss + Attenuator Factor)  
Margin = Result - Limit



Test Mode:	M01	Line:	Neutral
Test Voltage:	AC 100V_60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1539	37.70	9.50	47.20	65.79	-18.59	QP
2	0.1539	24.86	9.50	34.36	55.79	-21.43	AVG
3	0.1807	33.25	9.55	42.80	64.45	-21.65	QP
4	0.1807	23.06	9.55	32.61	54.45	-21.84	AVG
5	0.5611	29.87	9.50	39.37	56.00	-16.63	QP
6	0.5611	15.50	9.50	25.00	46.00	-21.00	AVG
7	0.9840	26.13	9.51	35.64	56.00	-20.36	QP
8	0.9840	21.59	9.51	31.10	46.00	-14.90	AVG
9	6.4239	20.45	9.16	29.61	60.00	-30.39	QP
10	6.4239	14.39	9.16	23.55	50.00	-26.45	AVG
11	17.0242	27.87	9.68	37.55	60.00	-22.45	QP
12	17.0242	20.13	9.68	29.81	50.00	-20.19	AVG

Remark: Result = Reading +Correct (Insertion Loss + Cable Loss + Attenuator Factor)  
Margin = Result - Limit

## 7.2. RADIATED EMISSIONS BELOW 1GHZ

### LIMITS

#### (a). Limits up to 1 GHz

FREQUENCY (MHz)	Class A		Class B	
	At 10 m	At 3 m	At 10 m	At 3 m
	dB $\mu$ V/m	dB $\mu$ V/m	dB $\mu$ V/m	dB $\mu$ V/m
30 – 230	40	50	30	40
230 – 1000	47	57	37	47

Note:

- (1) The limit for radiated test was performed according to CISPR 32.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dB $\mu$ V/m)=20log Emission level (uV/m).
- (4) If the highest frequency of the internal sources of the EUT is less than 108 MHz, the measurement shall only be made up to 1 GHz. If the highest frequency of the internal sources of the EUT is between 108 MHz and 500 MHz, the measurement shall only be made up to 2 GHz. If the highest frequency of the internal sources of the EUT is between 500 MHz and 1 GHz, the measurement shall only be made up to 5 GHz. If the highest frequency of the internal sources of the EUT is above 1 GHz, the measurement shall be made up to 5 times the highest frequency or 6 GHz, whichever is less.

### TEST PROCEDURE

Below 1 GHz and above 30 MHz

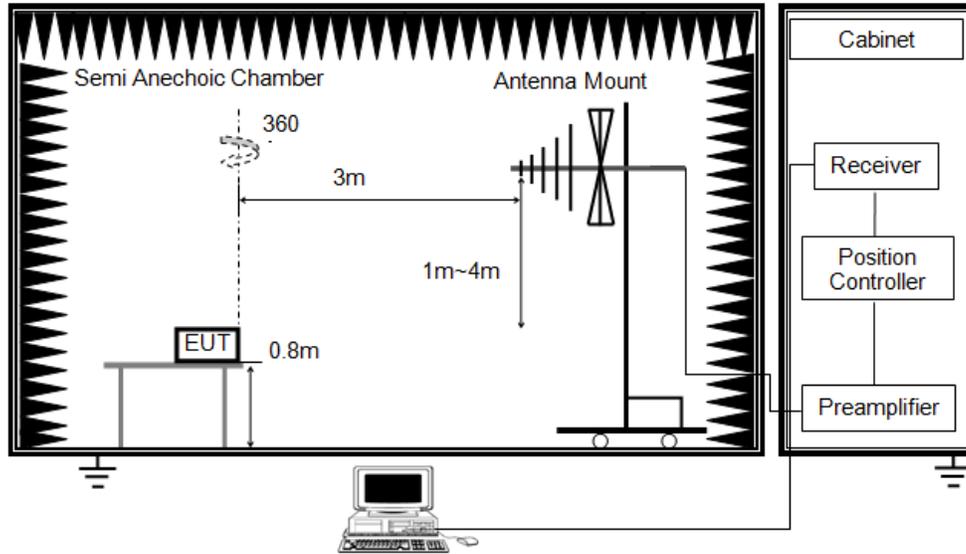
The setting of the spectrum analyzer

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak and QP
Trace	Max hold

1. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp was used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
2. The EUT was placed on a turntable with 80 cm above ground.
3. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
4. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

5. Cables of hand-operated devices, such as keyboards and mice, shall be placed as for normal used.
6. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
7. For measurement below 1 GHz, the initial step in collecting Radiated emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

**TEST SETUP**



Below 1 GHz and above 30 MHz

**TEST ENVIRONMENT**

Temperature	25.5°C	Relative Humidity	63%
Atmosphere Pressure	101kPa		

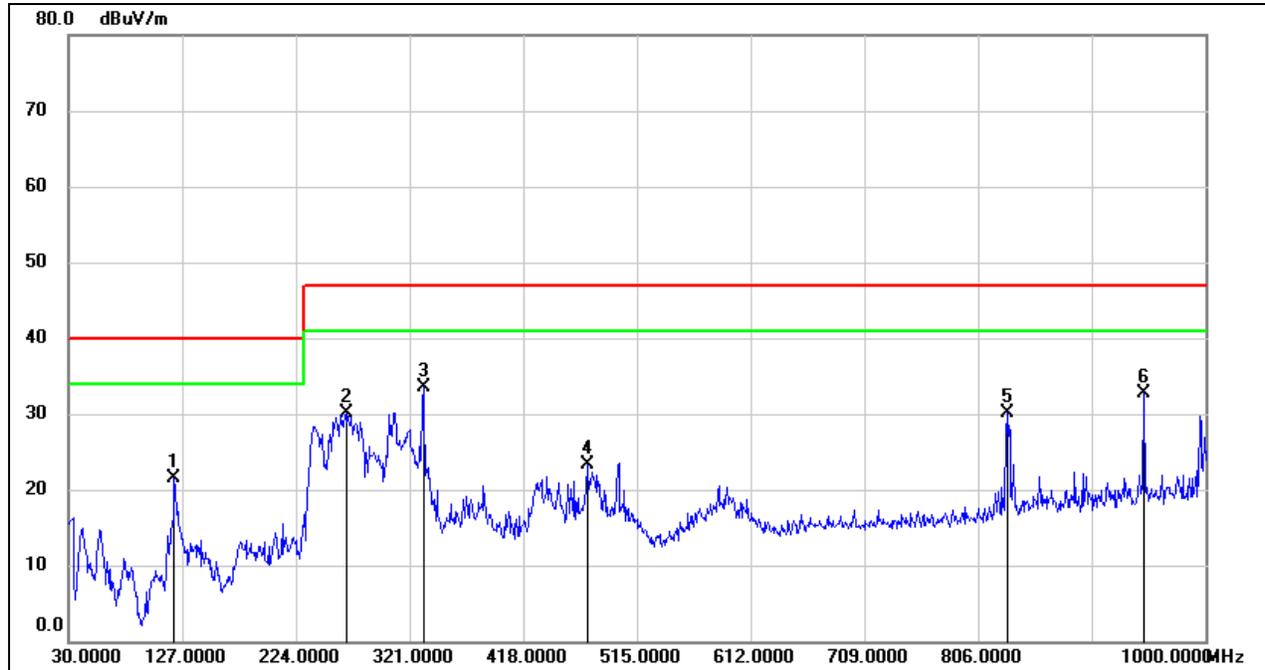
**TEST MODE**

Pre-test Mode:	M01
Final Test Mode:	M01

Note: The test voltage AC 100V\_60Hz come from the AC adapter.

**TEST RESULTS**

Test Mode:	M01	Polarity:	Horizontal
Test Voltage:	AC100V_60Hz		

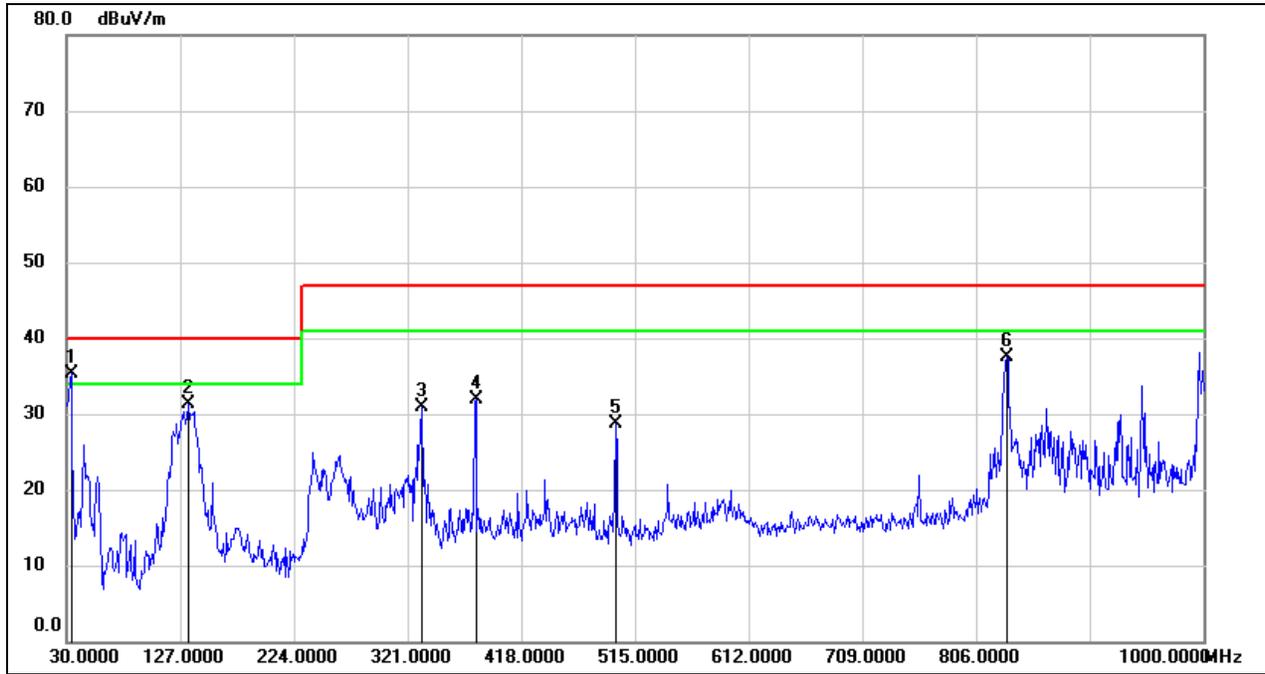


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	120.2100	41.43	-19.85	21.58	40.00	-18.42	QP
2	266.6800	48.06	-18.01	30.05	47.00	-16.95	QP
3	332.6400	48.13	-14.62	33.51	47.00	-13.49	QP
4	472.3200	35.34	-11.97	23.37	47.00	-23.63	QP
5	831.2199	36.78	-6.66	30.12	47.00	-16.88	QP
6	947.6200	37.15	-4.43	32.72	47.00	-14.28	QP

Note: 1. Result = Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor)  
 2. Margin = Result - Limit



Test Mode:	M01	Polarity:	Vertical
Test Voltage:	AC100V_60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	33.8800	54.57	-19.31	35.26	40.00	-4.74	QP
2	133.7899	50.39	-19.16	31.23	40.00	-8.77	QP
3	333.6099	45.53	-14.59	30.94	47.00	-16.06	QP
4	379.2000	45.48	-13.67	31.81	47.00	-15.19	QP
5	498.5100	40.12	-11.50	28.62	47.00	-18.38	QP
6	832.1900	44.11	-6.63	37.48	47.00	-9.52	QP

Note: 1. Result = Reading + Correct (Amplifier Factor + Cable Loss + Antenna Factor)  
2. Margin = Result - Limit

### 7.3. RADIATED EMISSIONS ABOVE 1GHZ

#### LIMITS

##### (a). Limits above 1 GHz

FREQUENCY (MHz)	Class A (at 3 m) dBµV/m		Class B (at 3 m) dBµV/m	
	Peak	Avg	Peak	Avg
1000-3000	76	56	70	50
3000-6000	80	60	74	54

Note:

- (1) The limit for radiated test was performed according to CISPR 32.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBµV/m)=20log Emission level (uV/m).
- (4) If the highest frequency of the internal sources of the EUT is less than 108 MHz, the measurement shall only be made up to 1 GHz. If the highest frequency of the internal sources of the EUT is between 108 MHz and 500 MHz, the measurement shall only be made up to 2 GHz. If the highest frequency of the internal sources of the EUT is between 500 MHz and 1 GHz, the measurement shall only be made up to 5 GHz. If the highest frequency of the internal sources of the EUT is above 1 GHz, the measurement shall be made up to 5 times the highest frequency or 6 GHz, whichever is less.

#### TEST PROCEDURE

Above 1 GHz

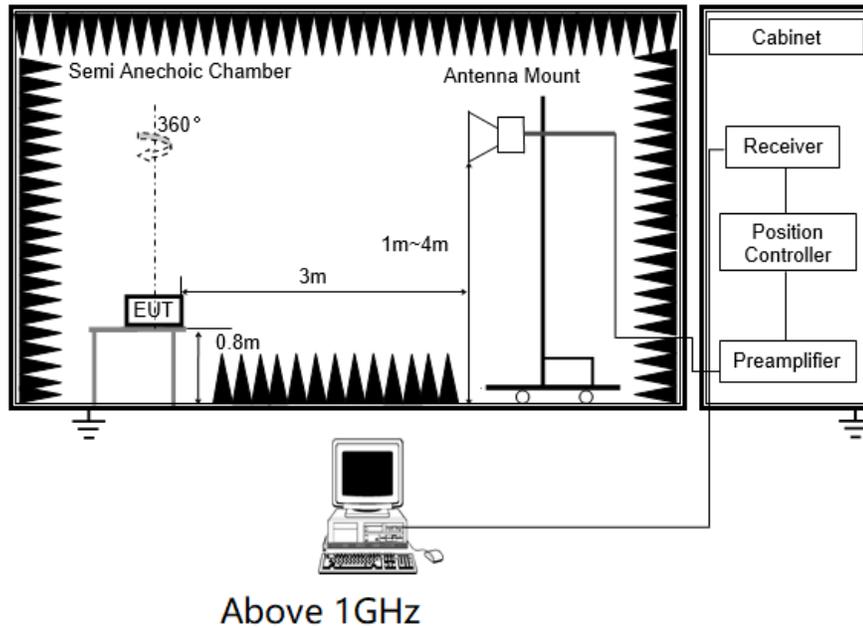
The setting of the spectrum analyzer

RBW	1 MHz
VBW	3 MHz
Sweep	Auto
Detector	Peak: Peak AVG: RMS
Trace	Max hold

1. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
2. The EUT was placed on a turntable with 80 cm above ground.
3. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
4. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

5. Cables of hand-operated devices, such as keyboards and mice, shall be placed as for normal used.
6. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
7. For measurement above 1 GHz, the peak emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the peak limit. If peak result complies with average limit, average result is deemed to comply with average limit.
9. The average emission measurement will be measured by the RMS detector and must comply with the average limit.

**TEST SETUP**



**TEST ENVIRONMENT**

Temperature	24.3°C	Relative Humidity	61%
Atmosphere Pressure	101kPa		

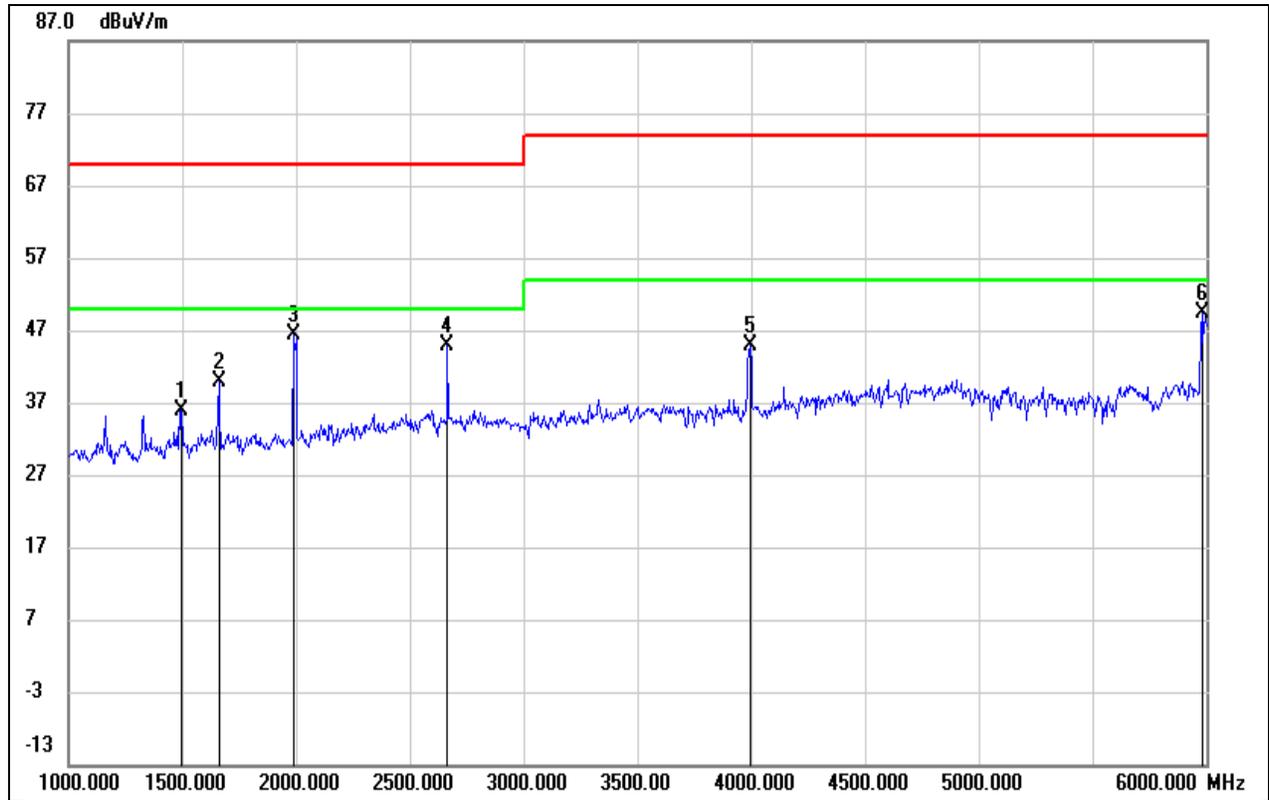
**TEST MODE**

Pre-test Mode:	M01
Final Test Mode:	M01

Note: The test voltage AC 100V\_60Hz come from the AC adapter.

**TEST RESULTS**

Test Mode:	M01	Polarity:	Horizontal
Test Voltage:	AC100V_60Hz		

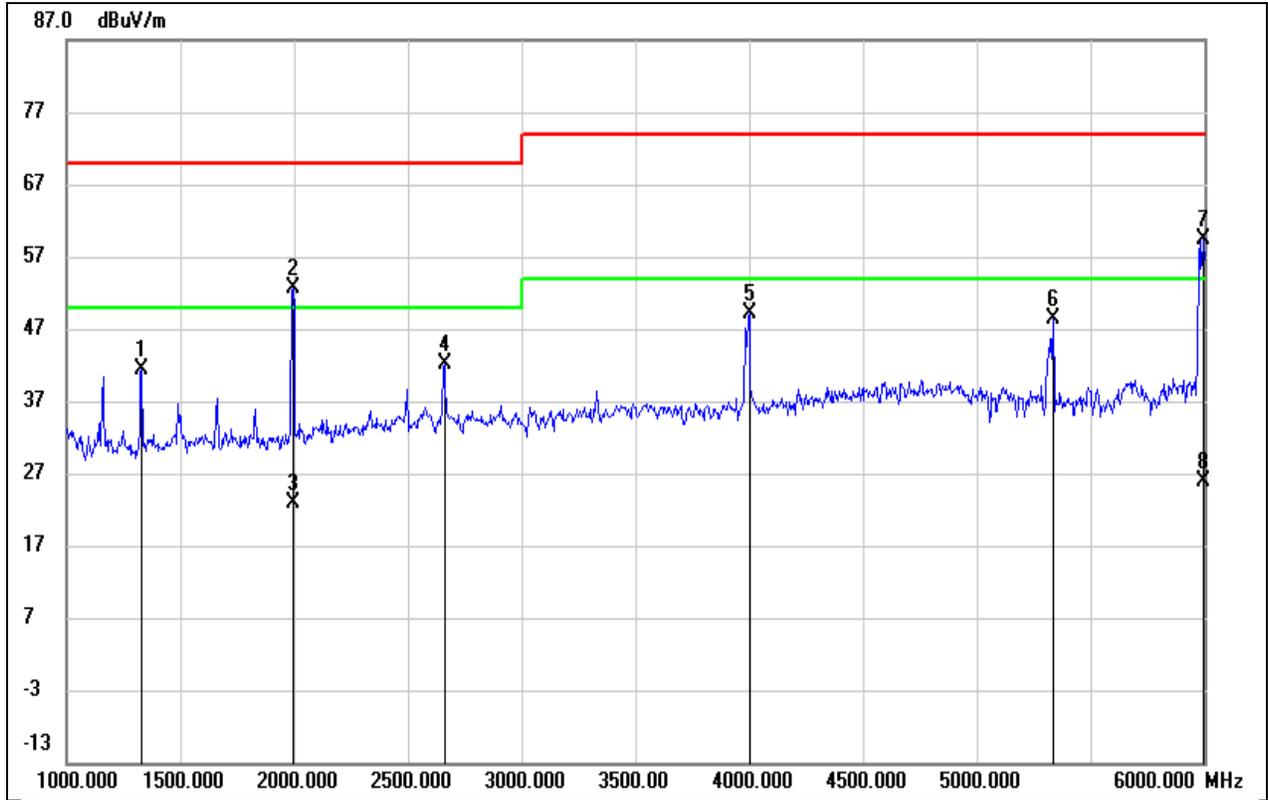


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1495.000	48.72	-12.74	35.98	70.00	-34.02	peak
2	1660.000	52.11	-12.19	39.92	70.00	-30.08	peak
3	1990.000	57.59	-11.09	46.50	70.00	-23.50	peak
4	2665.000	52.93	-7.98	44.95	70.00	-25.05	peak
5	3995.000	49.40	-4.49	44.91	74.00	-29.09	peak
6	5980.000	47.64	1.79	49.43	74.00	-24.57	peak

Note: 1. Result = Reading + Correct (Amplifier Factor + Cable Loss + Antenna Factor)  
 2. Margin = Result - Limit



Test Mode:	M01	Polarity:	Vertical
Test Voltage:	AC100V_60Hz		

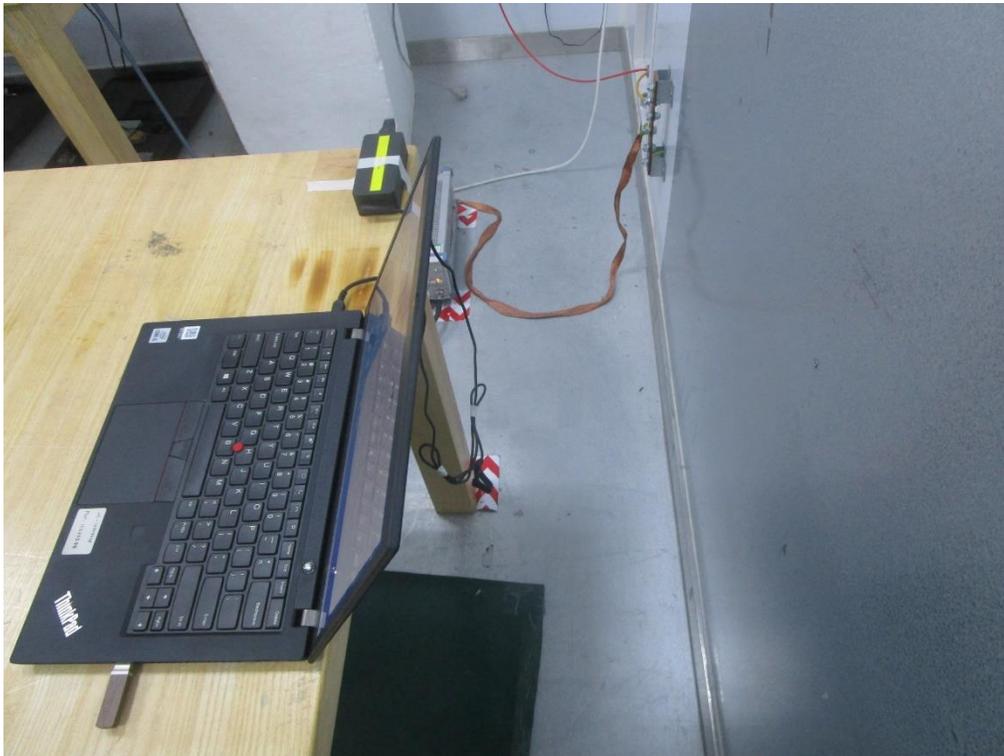


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1330.000	55.00	-13.50	41.50	70.00	-28.50	peak
2	1995.000	63.65	-11.07	52.58	70.00	-17.42	peak
3	1995.000	33.90	-11.07	22.83	50.00	-27.17	AVG
4	2660.000	50.12	-8.01	42.11	70.00	-27.89	peak
5	4000.000	53.58	-4.48	49.10	74.00	-24.90	peak
6	5335.000	48.06	0.23	48.29	74.00	-25.71	peak
7	5995.000	57.44	1.84	59.28	74.00	-14.72	peak
8	5995.000	23.93	1.84	25.77	54.00	-28.23	AVG

Note: 1. Result = Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor)  
2. Margin = Result - Limit

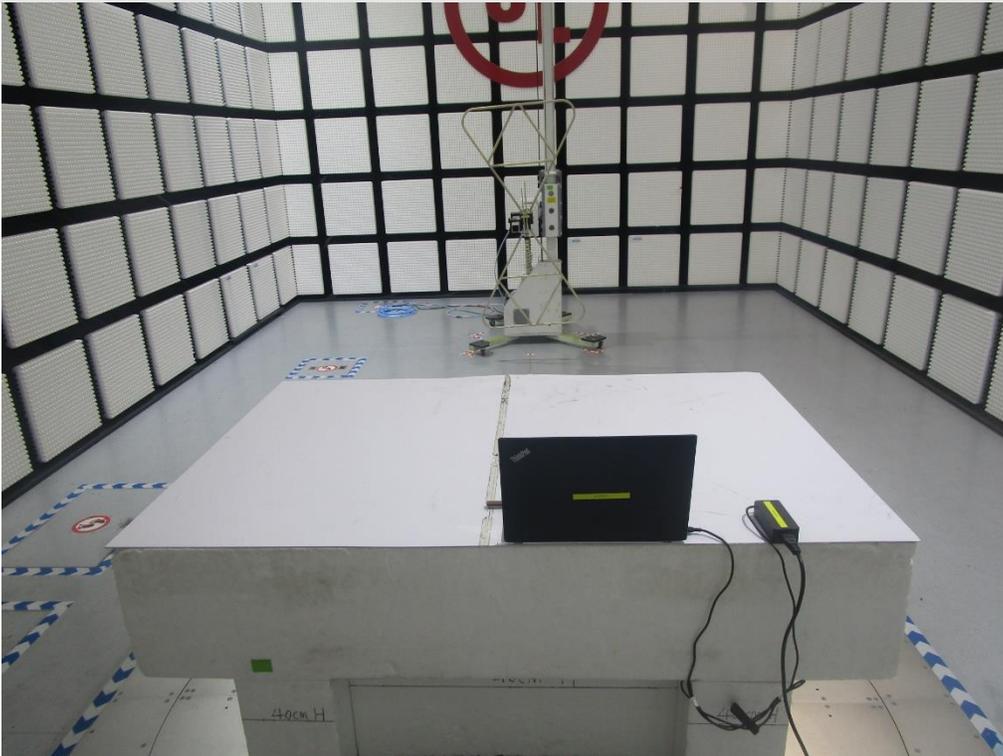
## APPENDIX: PHOTOGRAPHS OF TEST CONFIGURATION

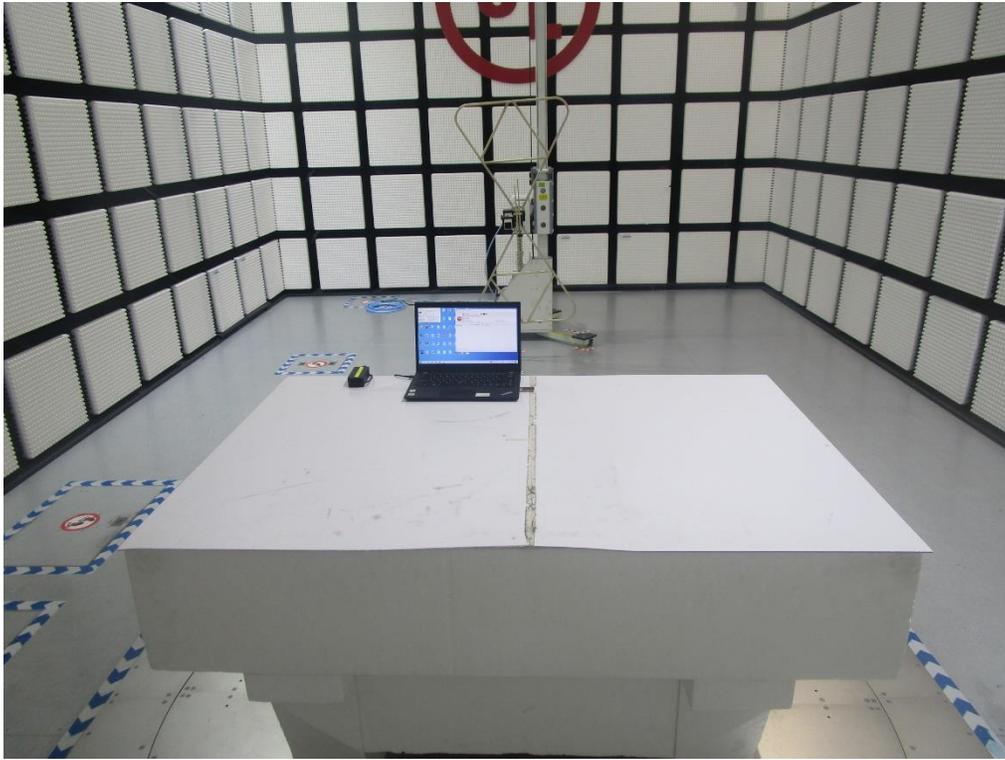
### Conducted emissions (AC mains power ports)





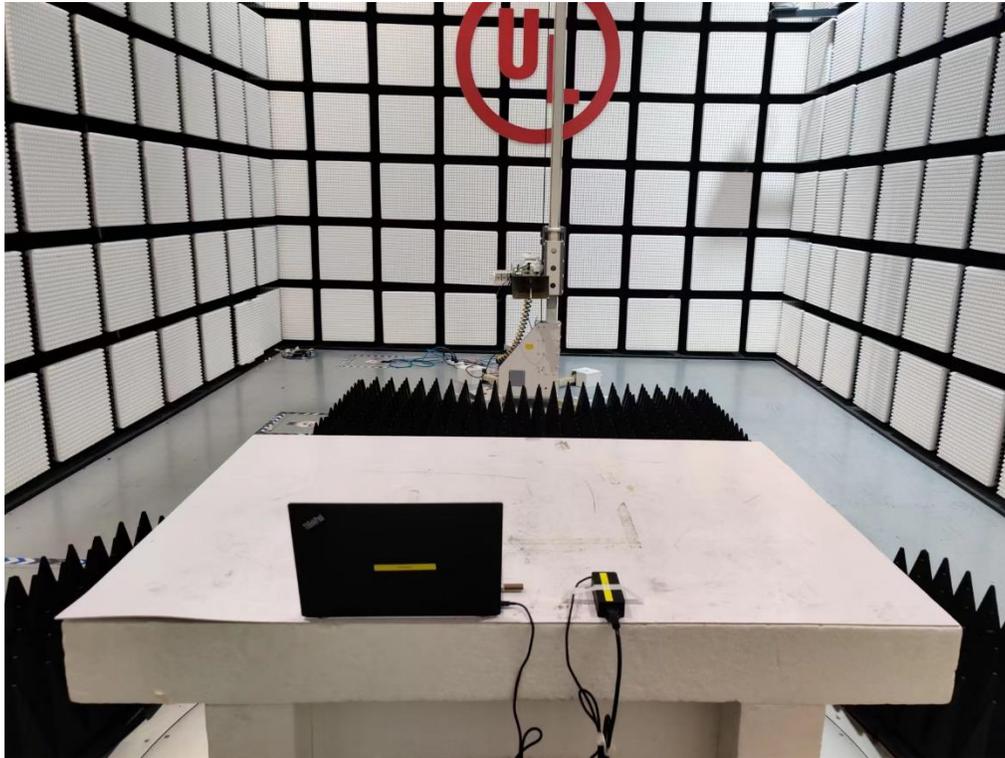
**Radiated emissions below 1GHz**





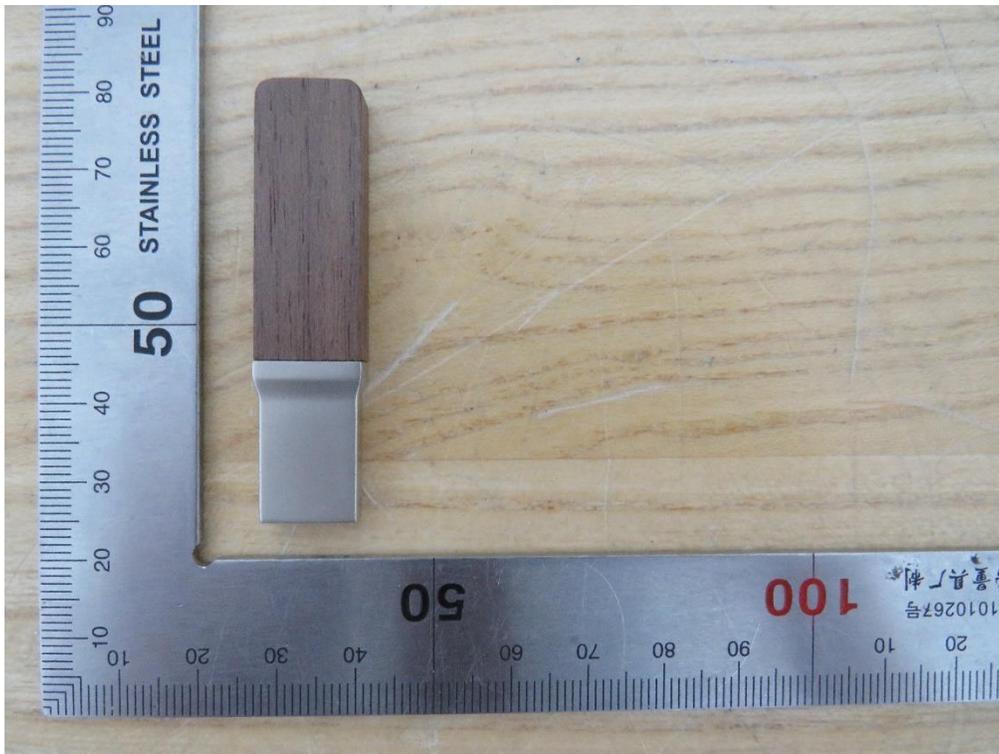
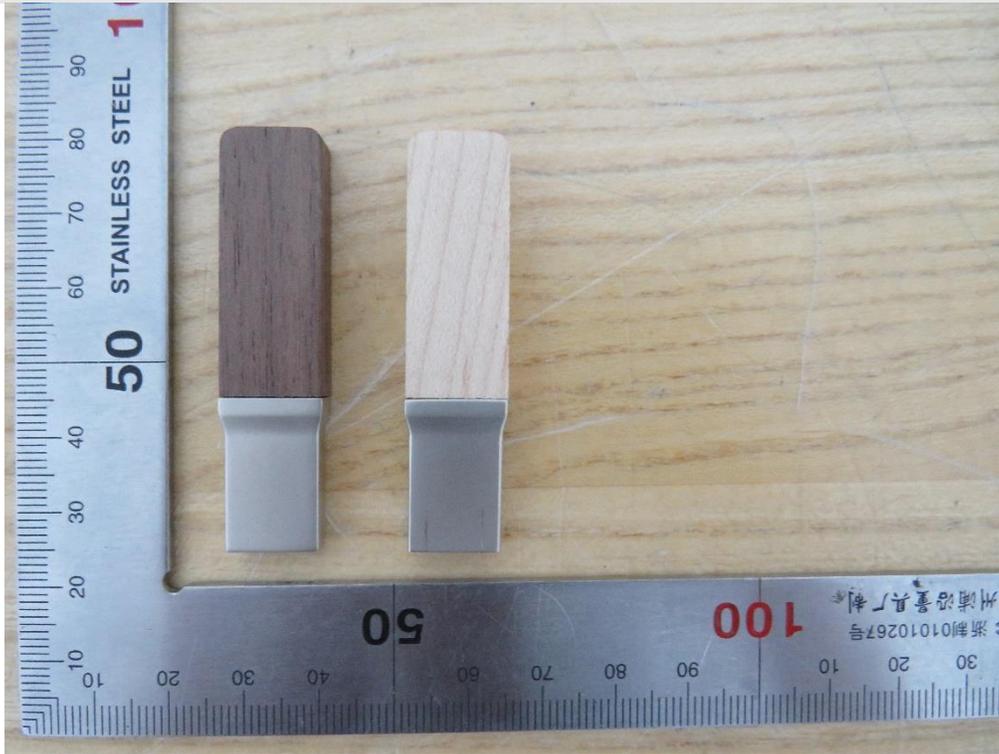
**Radiated emissions above 1GHz**

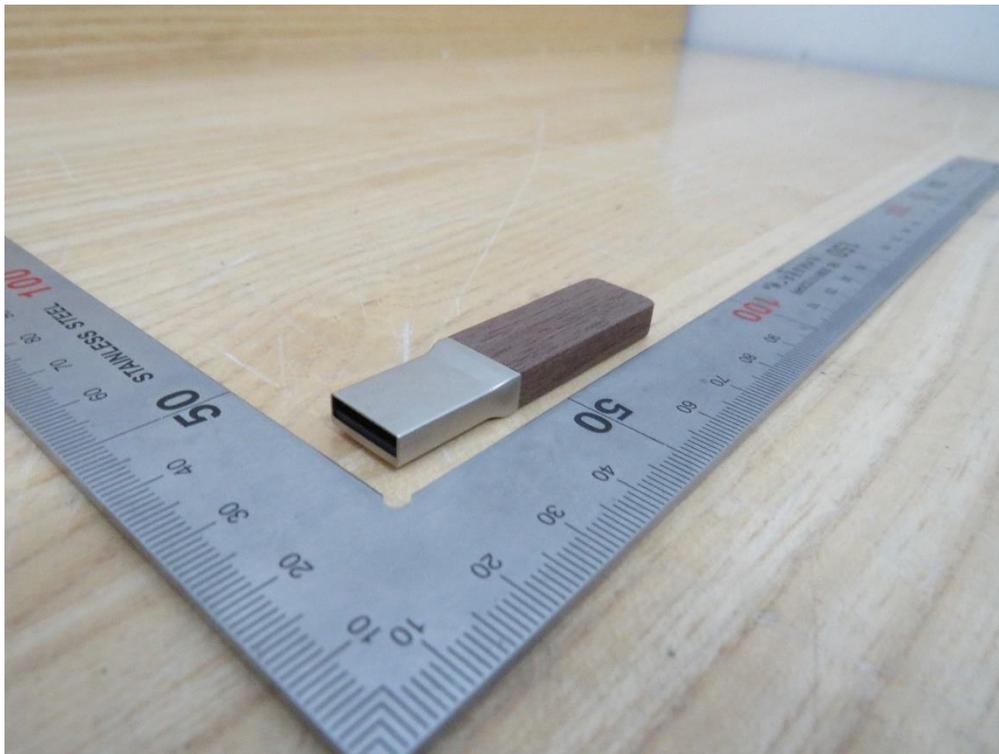
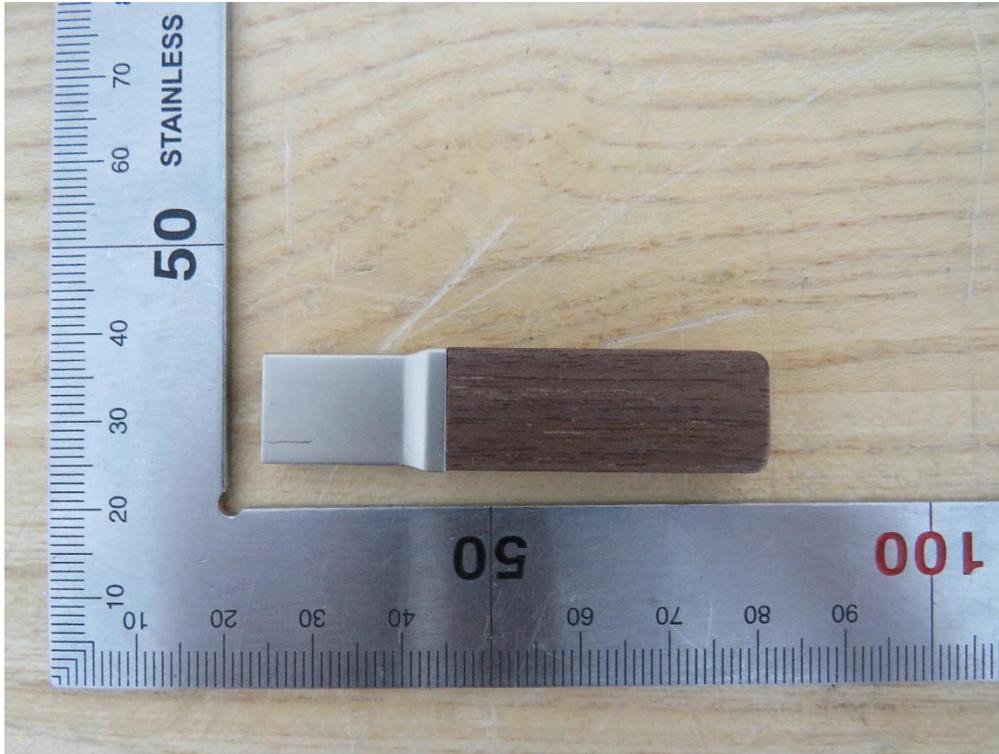


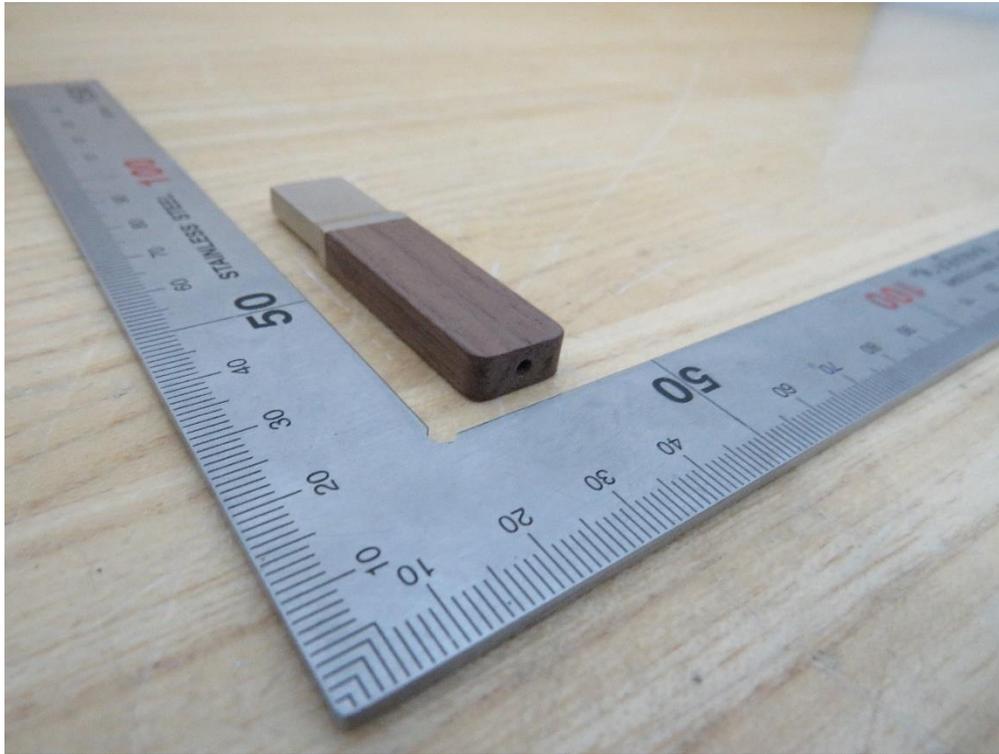


## APPENDIX: PHOTOGRAPHS OF THE EUT

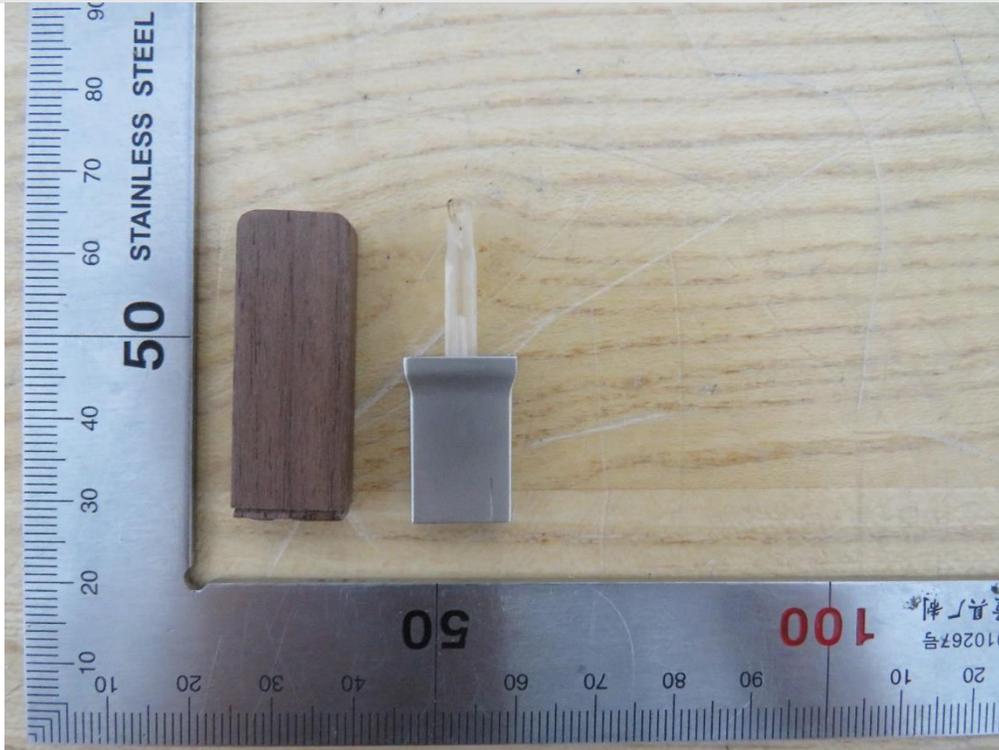
### External Photos

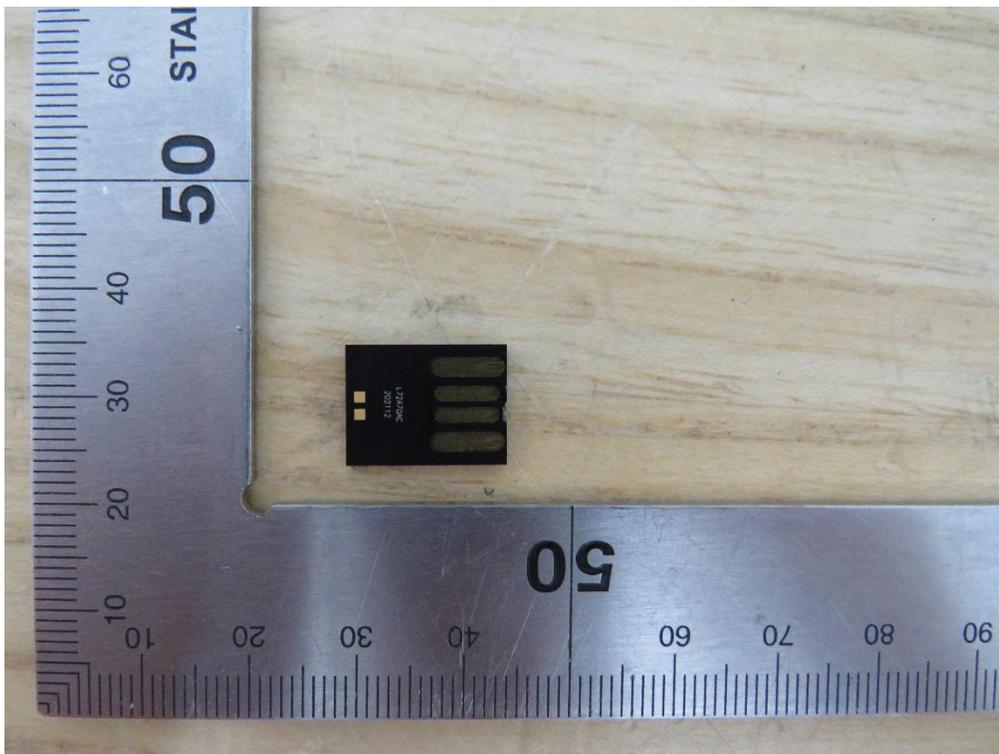
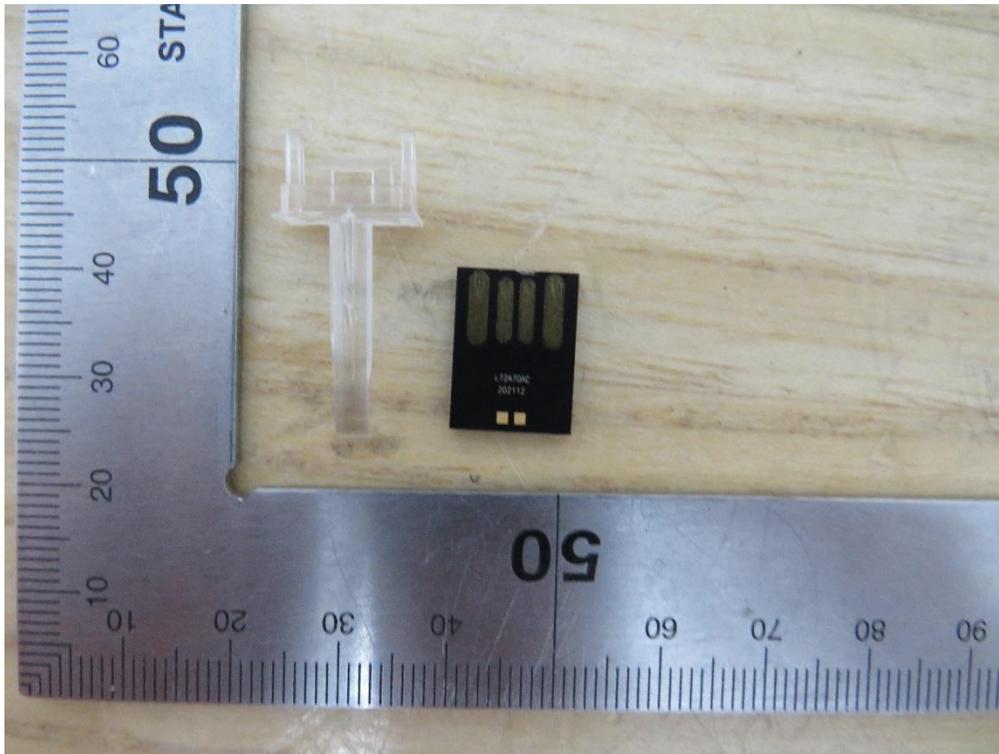


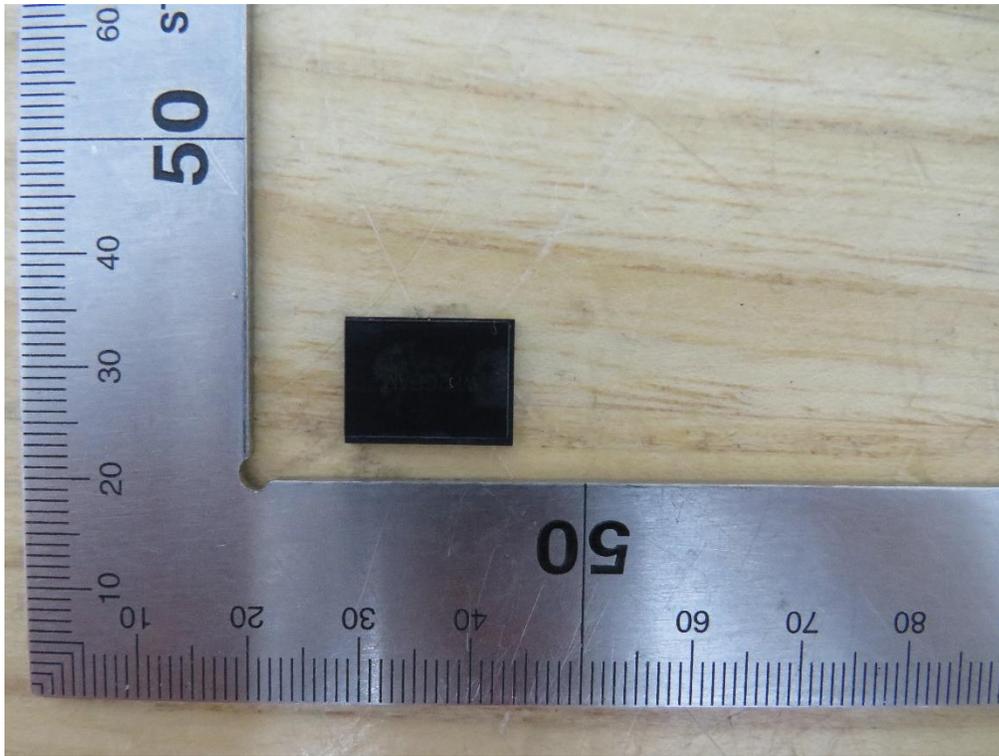




**Internal Photos**







---

**END OF REPORT**