



Shenzhen Certification Technology Service Co., Ltd
2F, Building B, East Area of Nanchang Second Industrial Zone,
Gushu 2nd Road, Bao'an District, Shenzhen 518126, P.R. China

TEST REPORT

FCC ID: OETEUSBKEY

Applicant : Virtium Technology, Inc

Address : 30052 Tomas, Rancho Santa Margarita, CA 92688, USA

Equipment under Test (EUT):

Name : eUSB Tuff Drive

Model : eUSB Key

Standards : FCC PART 15, Subpart B (Class B): 2013

Report No. : CST-TCB131114001

Date of Test : November 19-December 16, 2013

Date of Issue : December 17, 2013

Test Result :	PASS *
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* In the configuration tested, the EUT complied with the standards specified above

Authorized Signature

(Mark Zhu)

General Manager

The manufacture should ensure that all the products in series production are in conformity with the product sample detailed in this report.

If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of Shenzhen Certification Technology Service Co., Ltd. Or test done by Shenzhen Certification Technology Service Co., Ltd. Approvals in connection with, distribution or use of the product described in this report must be approved by Shenzhen Certification Technology Service Co., Ltd. Approvals in writing.

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TEST REPORT VERIFICATION

Applicant : Virtium Technology, Inc
Manufacturer : Virtium Technology, Inc
EUT Description : eUSB Tuff Drive
(A) Model No. : eUSB Key
(B) Trademark : VIRTUUM
(C) Power Supply : DC 5V
(D) Test Voltage : DC 5V From PC With AC 120V/60Hz

Measurement Standard Used:
FCC PART 15, Subpart B (Class B): 2013

The device described above is tested by Shenzhen Certification Technology Service Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class B limits both conducted and radiated emissions. The test results are contained in this test report and Shenzhen Certification Technology Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Certification Technology Service Co., Ltd.

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION			
Description of Test Item	Standard	Limits	Results
Power Line Conducted Emission Test	FCC Part 15: 2012 ANSI C63.4: 2003	Class B	PASS
Radiated Emission Test	FCC Part 15: 2012 ANSI C63.4: 2003	Class B	PASS

2. GENERAL INFORMATION

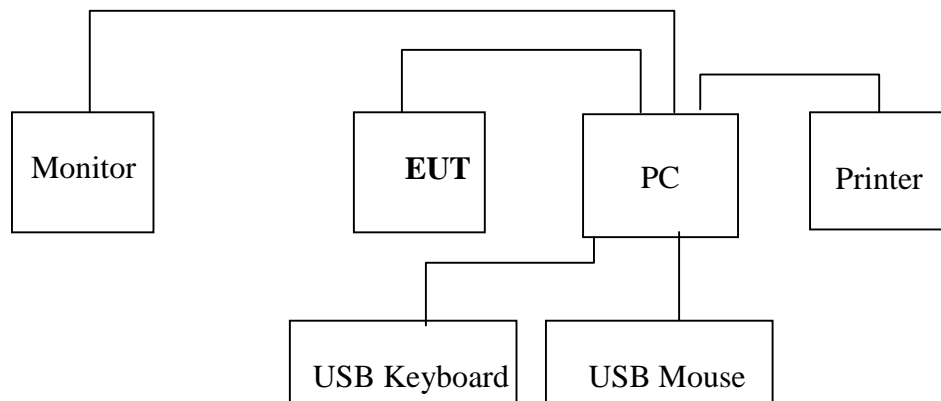
2.1. Description of Device (EUT)

Description	: eUSB Tuff Drive
Model Number	: eUSB Key
DIFF	: N/A
Trademark	: VIRTUUM
Applicant	: Virtium Technology, Inc 30052 Tomas, Rancho Santa Margarita, CA 92688, USA
Manufacturer	: Virtium Technology, Inc 30052 Tomas, Rancho Santa Margarita, CA 92688, USA
Date of Test	: November 19-December 16, 2013
Sample Type	: Series production

2.2. Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number
1.	Personal Computer	ACER	ASPIRE M1830	PTSF90C00305005CAC3000
2.	Monitor	ACER	G205HV	SNID:10306738385
3.	USB Keyboard	ACER	SK-9625	KBUSB1580500037E0100
4.	USB Mouse	ACER	MS.11200.014	M-UAY-ACR2
5.	Printer	HP	HP1020	CNCJ410726
Note: These equipment has FCC DOC certificate.				

2.3. Block Diagram of connection between EUT and simulators



※ EUT: eUSB Tuff Drive

2.4. Test Facility

JAN 13, 2012 File on Federal Communication Commission
Registration Number: 197647

October 11, 2011 Certificated by IC
Registration Number: 8528B

2.5. Measurement Uncertainty

(95% confidence levels, k=2)

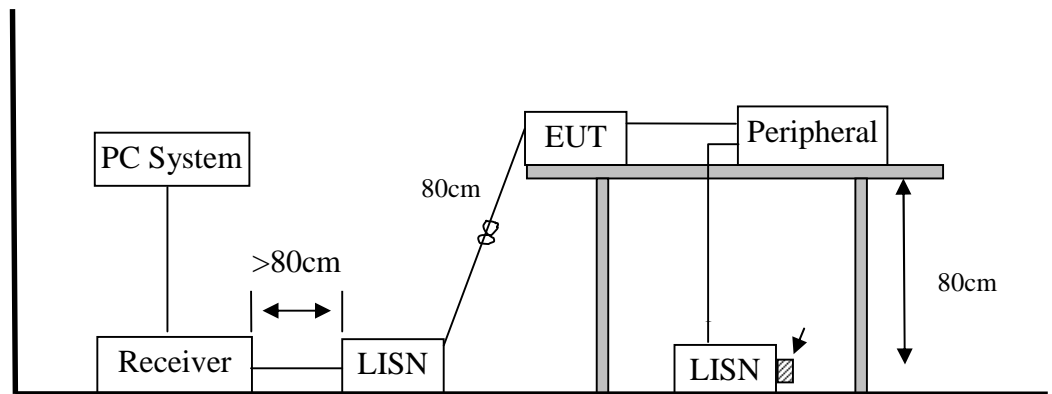
Test Item	Uncertainty
Uncertainty for Conduction emission test	2.50dB
Uncertainty for Radiation Emission test	3.04 dB (Distance: 3m Polarize: V)
	3.02 dB (Distance: 3m Polarize: H)
Uncertainty for test site temperature and humidity	0.6°C
	3%

3. POWER LINE CONDUCTED EMISSION TEST

3.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde&Schwarz	ESCI	1166.5950K03-1011	Oct. 30, 13	1 Year
2.	L.I.S.N.	Schwarzbeck	NSLK8126	8126466	Oct. 30, 13	1 Year
3.	L.I.S.N.-2	Kyoritsu	KNW-407	8-1628-5	Oct. 30, 13	1 Year
4.	Terminator	Hubersuhner	50Ω	No. 1	Oct. 30, 13	1 Year
5.	RF Cable	Schwarzbeck	9111505/200	5995-12-161-6890#	Oct. 30, 13	1Year
6.	Coaxial Switch	Schwarzbeck	CX-210	N/A	Oct. 30, 13	1 Year
7.	Pulse Limiter	Schwarzbeck	VTSD9516F	9618	Oct. 30, 13	1 Year

3.2. Block Diagram of Test Setup



3.3. Power Line Conducted Emission Test Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. Emission level=Read level+ LISN factor-Preamp factor+ Cable loss

2* Decreasing linearly with logarithm of frequency.

3. The lower limit shall apply at the transition frequencies.

3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

Support Equipments : As Tested Supporting System Detail, in Section 2.2.

3.5. Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown as Section 3.2.

3.5.2. Turn on the power of all equipment.

3.5.3. Let the EUT work in test mode (Data Transmitting) and measure it.

3.6. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N. #2), this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4-2003 on conducted Emission test.

The bandwidth of test receiver (R&S TEST RECEIVER ESCI) is set at 10kHz.

The frequency range from 150KHz to 30MHz is checked. The test result are reported on Section 3.7.

3.7. Conducted Disturbance at Mains Terminals Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)

The EUT with the following test mode was tested and read Q.P values and average values, the test results are listed in next pages.

Temperature: 24°C Humidity: 56%

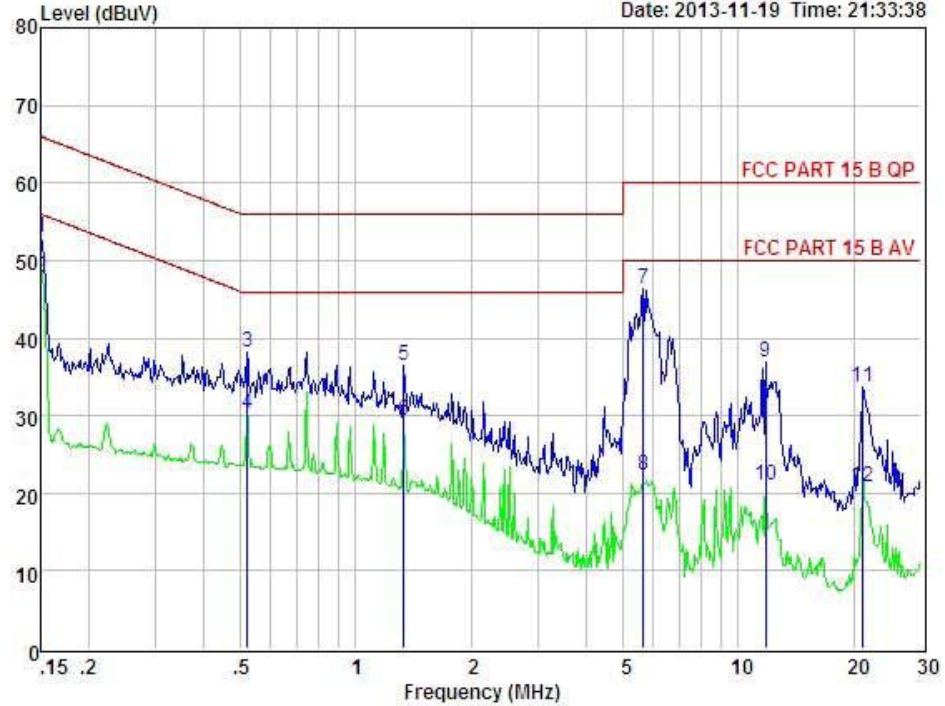
The details of test mode is as follows :

NO.	Test Mode
1.	Data Transmitting with USB 2.0 port
2.	Data Transmitting with USB 3.0 port



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 Website: <http://www.cessz.com> Email: Service@cessz.com

Data: 5 File: E:\TEST REPORT\WuXian\Virtual\Conduction 0.15-30.EM6 (8) Date: 2013-11-19 Time: 21:33:38



Condition : FCC PART 15 B QP POL: LINE Temp: 24 °C Hum: 56 %
 EUT : eUSB Tuff Drive
 Model No : eUSB Key
 Test Mode : Data Transmitting
 Power : DC 5V From PC AC 120V/60Hz
 Test Engineer: Store
 Remark : USB2.0

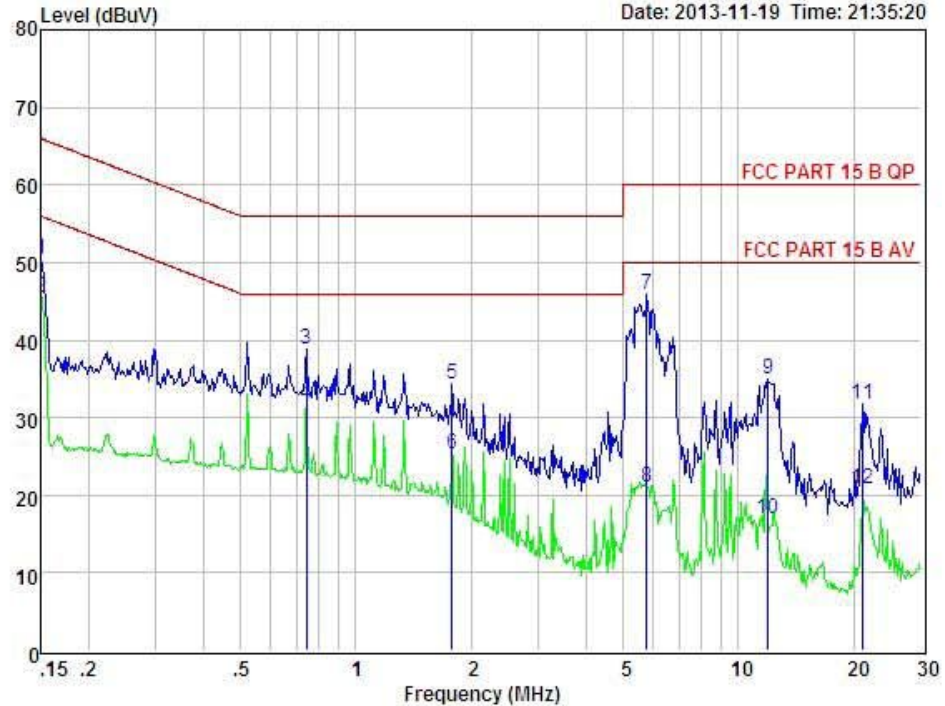
Item	Freq MHz	Read dBuV	LISN Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	0.150	43.03	0.03	-9.72	0.10	52.88	66.00	-13.12	QP
2	0.150	38.03	0.03	-9.72	0.10	47.88	56.00	-8.12	Average
3	0.521	28.35	0.03	-9.72	0.10	38.20	56.00	-17.80	QP
4	0.521	20.35	0.03	-9.72	0.10	30.20	46.00	-15.80	Average
5	1.338	26.52	0.05	-9.71	0.10	36.38	56.00	-19.62	QP
6	1.338	19.52	0.05	-9.71	0.10	29.38	46.00	-16.62	Average
7	5.653	36.41	0.10	-9.64	0.13	46.28	60.00	-13.72	QP
8	5.653	12.41	0.10	-9.64	0.13	22.28	50.00	-27.72	Average
9	11.807	27.00	0.25	-9.47	0.22	36.94	60.00	-23.06	QP
10	11.807	11.00	0.25	-9.47	0.22	20.94	50.00	-29.06	Average
11	21.147	23.49	0.35	-9.51	0.37	33.72	60.00	-26.28	QP
12	21.147	10.49	0.35	-9.51	0.37	20.72	50.00	-29.28	Average

Remarks: Level = Read + LISN Factor - Preamp Factor + Cable loss



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Data: 7 File: E:\TEST REPORT\WuXian\Virtual\Conduction 0.15-30.EM6 (8) Date: 2013-11-19 Time: 21:35:20



Condition : FCC PART 15 B QP POL: NEUTRAL Temp:24 °C Hum:56 %
 EUT : eUSB Tuff Drive
 Model No : eUSB Key
 Test Mode : Data Transmitting
 Power : DC 5V From PC AC 120V/60Hz
 Test Engineer: Store
 Remark : USB2.0

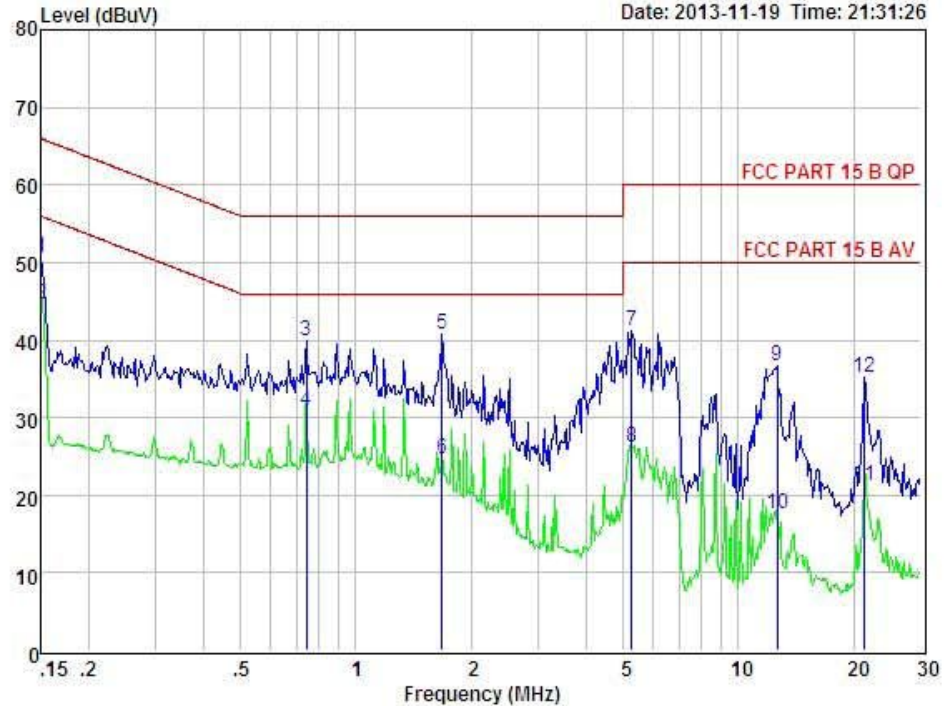
Item	Freq MHz	Read dBuV	LISN Factor dB	Preamplifier Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	0.150	40.51	0.03	-9.72	0.10	50.36	66.00	-15.64	QP
2	0.150	35.51	0.03	-9.72	0.10	45.36	56.00	-10.64	Average
3	0.743	28.92	0.04	-9.72	0.10	38.78	56.00	-17.22	QP
4	0.743	21.92	0.04	-9.72	0.10	31.78	46.00	-14.22	Average
5	1.781	24.39	0.05	-9.70	0.10	34.24	56.00	-21.76	QP
6	1.781	15.39	0.05	-9.70	0.10	25.24	46.00	-20.76	Average
7	5.774	36.07	0.11	-9.63	0.14	45.95	60.00	-14.05	QP
8	5.774	11.07	0.11	-9.63	0.14	20.95	50.00	-29.05	Average
9	11.996	24.98	0.26	-9.46	0.22	34.92	60.00	-25.08	QP
10	11.996	6.98	0.26	-9.46	0.22	16.92	50.00	-33.08	Average
11	21.147	21.60	0.35	-9.51	0.37	31.83	60.00	-28.17	QP
12	21.147	10.60	0.35	-9.51	0.37	20.83	50.00	-29.17	Average

Remarks: Level = Read + LISN Factor - Preamp Factor + Cable loss



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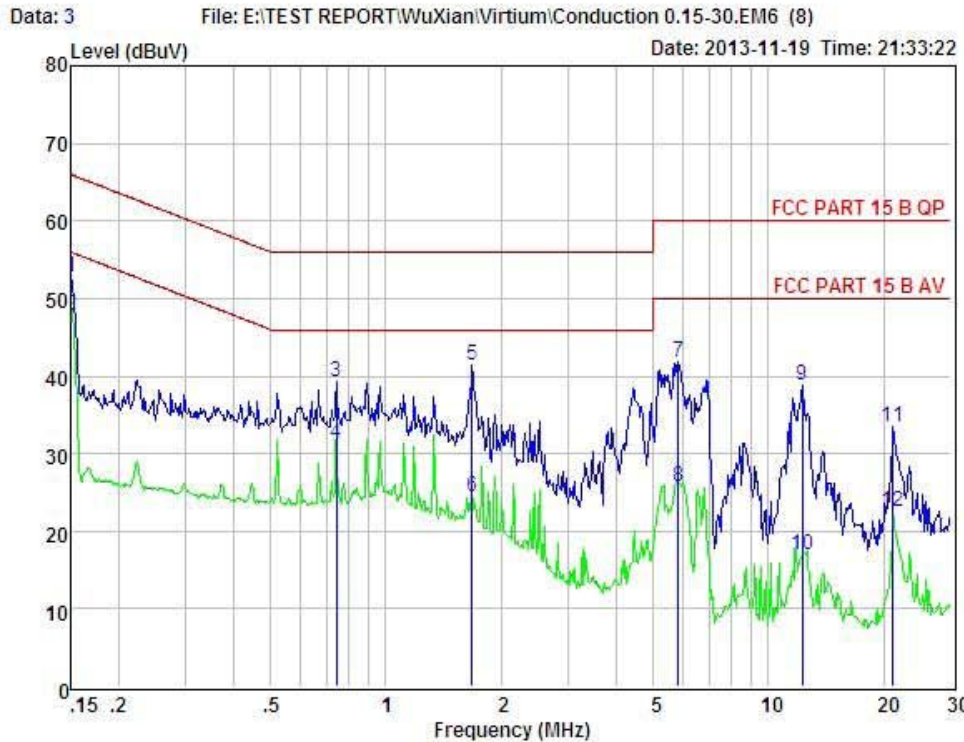
Condition : FCC PART 15 B QP POL: NEUTRAL Temp:24 °C Hum:56 %
 EUT : eUSB Tuff Drive
 Model No : eUSB Key
 Test Mode : Data Transmitting
 Power : DC 5V From PC AC 120V/60Hz
 Test Engineer: Store
 Remark : USB3.0

Item	Freq MHz	Read dBuV	LISN Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	0.150	40.80	0.03	-9.72	0.10	50.65	66.00	-15.35	QP
2	0.150	34.80	0.03	-9.72	0.10	44.65	56.00	-11.35	Average
3	0.743	29.96	0.04	-9.72	0.10	39.82	56.00	-16.18	QP
4	0.743	20.96	0.04	-9.72	0.10	30.82	46.00	-15.18	Average
5	1.680	30.81	0.05	-9.70	0.10	40.66	56.00	-15.34	QP
6	1.680	14.81	0.05	-9.70	0.10	24.66	46.00	-21.34	Average
7	5.277	31.19	0.10	-9.66	0.13	41.08	60.00	-18.92	QP
8	5.277	16.19	0.10	-9.66	0.13	26.08	50.00	-23.92	Average
9	12.649	26.73	0.24	-9.45	0.22	36.64	60.00	-23.36	QP
10	12.649	7.73	0.24	-9.45	0.22	17.64	50.00	-32.36	Average
11	21.373	10.95	0.36	-9.52	0.38	21.21	50.00	-28.79	Average
12	21.373	24.95	0.36	-9.52	0.38	35.21	60.00	-24.79	QP

Remarks: Level = Read + LISN Factor - Preamp Factor + Cable loss



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 Website: <http://www.cessz.com> Email: Service@cessz.com



Condition : FCC PART 15 B QP POL: LINE Temp: 24 °C Hum: 56 %
 EUT : eUSB Tuff Drive
 Model No : eUSB Key
 Test Mode : Data Transmitting
 Power : DC 5V From PC AC 120V/60Hz
 Test Engineer: Store
 Remark : USB3.0

Item	Freq MHz	Read dBuV	LISN Factor dB	Preamplifier Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	0.150	42.96	0.03	-9.72	0.10	52.81	66.00	-13.19	QP
2	0.150	37.96	0.03	-9.72	0.10	47.81	56.00	-8.19	Average
3	0.743	29.41	0.04	-9.72	0.10	39.27	56.00	-16.73	QP
4	0.743	21.41	0.04	-9.72	0.10	31.27	46.00	-14.73	Average
5	1.680	31.50	0.05	-9.70	0.10	41.35	56.00	-14.65	QP
6	1.680	14.50	0.05	-9.70	0.10	24.35	46.00	-21.65	Average
7	5.805	31.92	0.11	-9.63	0.14	41.80	60.00	-18.20	QP
8	5.805	15.92	0.11	-9.63	0.14	25.80	50.00	-24.20	Average
9	12.253	28.96	0.25	-9.46	0.22	38.89	60.00	-21.11	QP
10	12.253	6.96	0.25	-9.46	0.22	16.89	50.00	-33.11	Average
11	21.147	23.21	0.35	-9.51	0.37	33.44	60.00	-26.56	QP
12	21.147	12.21	0.35	-9.51	0.37	22.44	50.00	-27.56	Average

Remarks: Level = Read + LISN Factor - Preamp Factor + Cable loss

4. RADIATED EMISSION TEST

4.1. Test Equipment

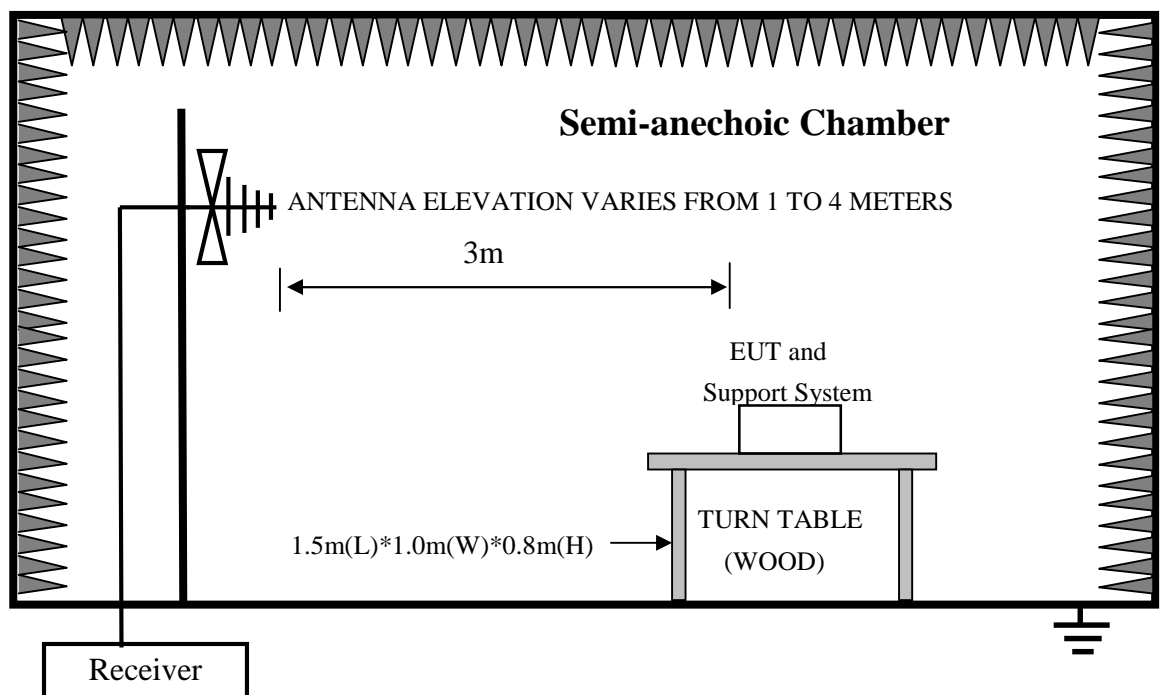
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Test Receiver	Rohde&Schwarz	ESCI	1166.5950K06-1012	Oct. 30, 13	1 Year
2	Amplifier	Schwarzbeck	BBV9743	9743-019	Oct. 30, 13	1 Year
3	Bilog Antenna	Schwarzbeck	VULB 9168	VULB9168-438	Mar.12, 13	1 Year
4	RF Cable	Schwarzbeck	AK9515E	95891-2m	Oct. 30, 13	1 Year
5	RF Cable	Schwarzbeck	AK9515E	95891-11m	Oct. 30, 13	1 Year
6	RF Cable	Schwarzbeck	AK9515E	95891-0.5m	Oct. 30, 13	

For frequency range 1GHz~5GHz (At Semi Anechoic Chamber)

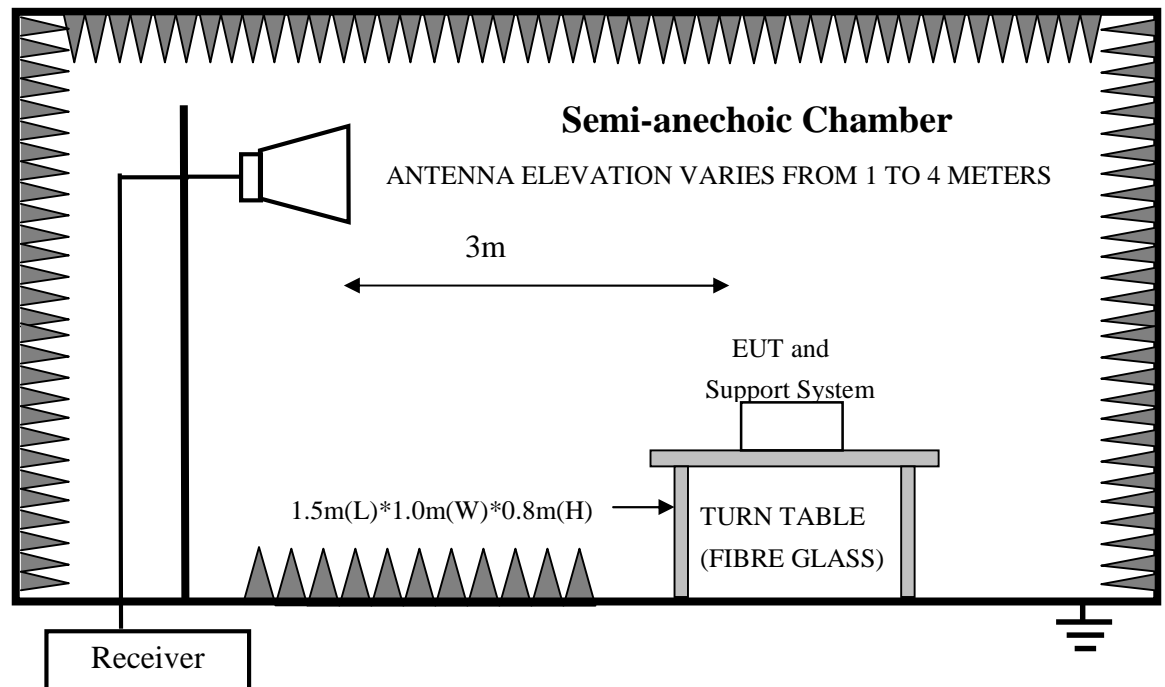
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	Oct. 30, 13	1 Year
2	Horn Antenna	EMCO	BBV9743	9743-019	Mar.12, 13	1 Year
3	Amplifier	Schwarzbeck	SCHWARZBECK	N/A	Oct. 30, 13	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	Oct. 30, 13	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX102	271471/4	Oct. 30, 13	1 Year
6	RF Cable	Hubersuhner	SUCOFLEX102	29086/2	Oct. 30, 13	1 Year

4.2. Block Diagram of Test Setup

4.2.1. In Semi Anechoic Chamber (3m) Test Setup Diagram for 30MHz~1000MHz



4.2.2. In Semi Anechoic Chamber (3m) Test Setup Diagram for 1-5GHz



4.3. Radiated Emission Limit

Frequency MHz	Distance (Meters)	Field Strengths Limits dB(μ V)/m
30 ~ 88	3	40.0
88 ~ 216	3	43.5
216 ~ 960	3	46.0
960 ~ 1000	3	54.0
1000 ~ 6000	3	74(Peak) 54(Average)

Remark: (1) Emission level = Read level + Antenna Factor - Preamp Factor + Cable Loss

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.4. EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner that tends to maximize its emission characteristics in normal application.

4.4.1. Support Equipments : As Tested Supporting System Detail, in Section 2.2.

4.5. Operating Condition of EUT

- 4.5.1. Setup the EUT as shown in Section 4.2.
- 4.5.2. Turn on the power of all equipment.
- 4.5.3. Let the EUT work in test mode (Data Transmitting) and test it.

4.6. Test Procedure

The EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber. An antenna was located 3m from the EUT on an adjustable mast. A pre-scan was first performed in order to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4-2003 on Radiated Emission test.

The bandwidth setting on the test receiver (ROHDE&SCHWARZ TEST RECEIVER ESCI) is 120 kHz.

The resolution bandwidth of the Agilent Spectrum Analyzer E4446A was set at 1MHz. (For above 1GHz)

The frequency range from 30MHz to 1000MHz was pre-scanned with a peak detector and all final readings of measurement from Test Receiver are Quasi-Peak values.

QP detector : (RBW 120kHz, VBW 300kHz)

The frequency range from 1GHz to 5GHz was checked with peak (RBW 1MHz, VBW 3MHz) measurement distance is 3m in 3m chamber.

Finally, selected operating situations at Anechoic Chamber measurement, all the test results are listed in section 4.7.

4.7. Radiated Disturbance Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)

For frequency range 30MHz~6000MHz

The EUT with the following test mode was tested and read Q.P values, all the test results listed in next pages.

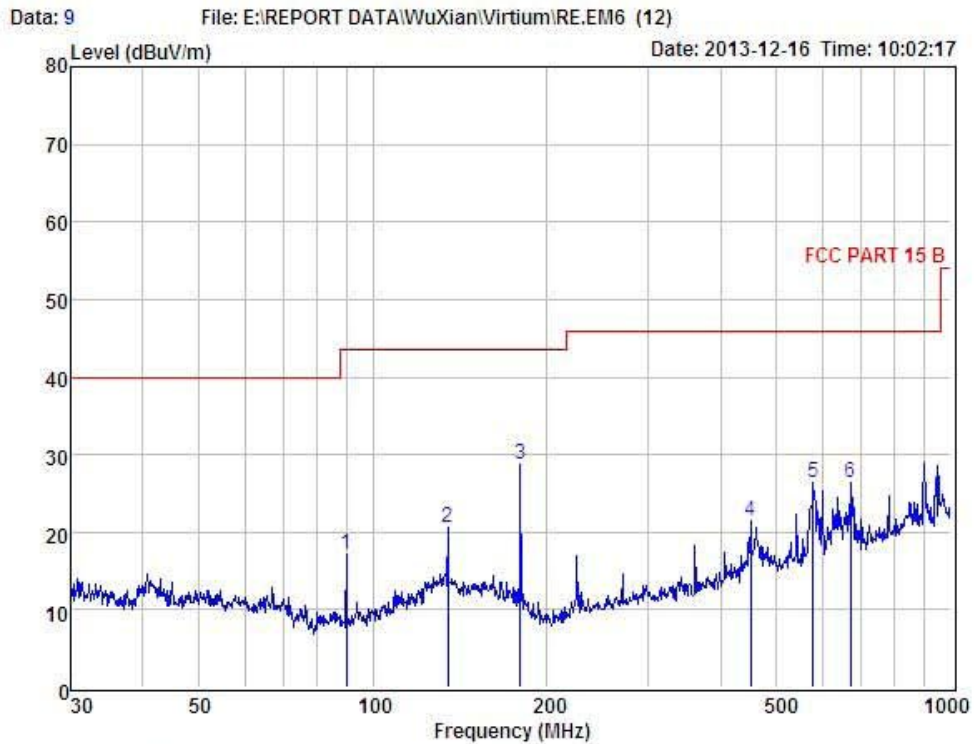
Temperature: 25.2°C Humidity: 56%

The details of test mode is as follows :

NO.	Test Mode
1.	Data Transmitting with USB 2.0 port
2.	Data Transmitting with USB 3.0 port



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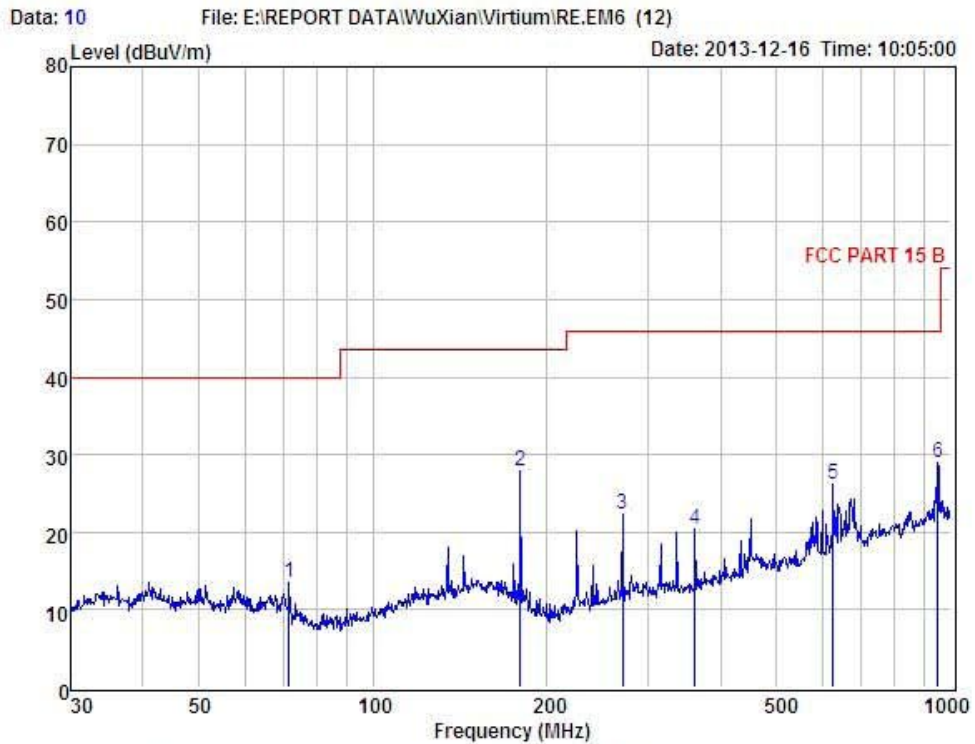
Condition : FCC PART 15 B 3m POL: VERTICAL
 EUT : eUSB Tuff Drive
 Model No : eUSB Key
 Test Mode : Data Transmitting
 Power : DC 5V From PC AC 120V/60Hz
 Test Engineer : Store
 Remark : USB2.0
 Temp : 25.2°C
 Hum : 56%

Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	89.90	34.29	9.44	26.82	0.34	17.25	43.50	-26.25	QP
2	135.03	34.04	13.08	26.89	0.46	20.69	43.50	-22.81	QP
3	180.02	43.49	11.68	26.93	0.47	28.71	43.50	-14.79	QP
4	451.14	31.77	15.99	27.49	1.08	21.35	46.00	-24.65	QP
5	578.67	35.20	17.89	27.77	1.07	26.39	46.00	-19.61	QP
6	670.49	33.75	19.35	27.78	1.14	26.46	46.00	-19.54	QP

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss



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 Website: <http://www.cessz.com> Email: Service@cessz.com



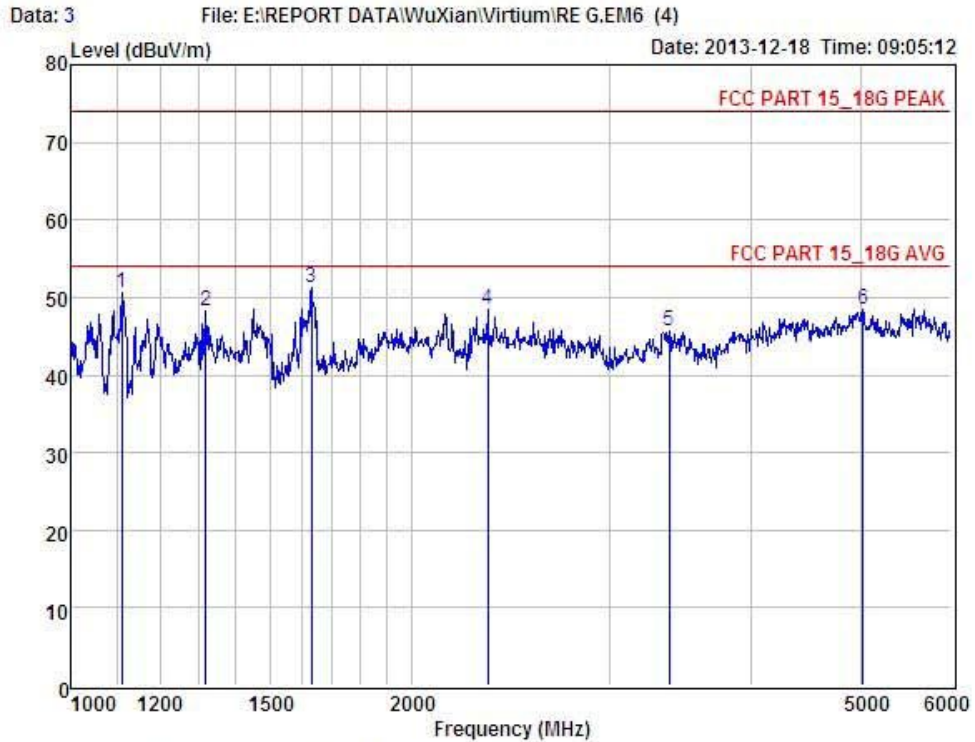
Condition : FCC PART 15 B 3m POL: HORIZONTAL
 EUT : eUSB Tuff Drive
 Model No : eUSB Key
 Test Mode : Data Transmitting
 Power : DC 5V From PC AC 120V/60Hz
 Test Engineer : Store
 Remark : USB2.0
 Temp : 25.2°C
 Hum : 56%

Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	71.58	29.49	10.51	26.77	0.19	13.42	40.00	-26.58	QP
2	180.02	42.71	11.68	26.93	0.47	27.93	43.50	-15.57	QP
3	270.37	36.61	12.09	27.14	0.69	22.25	46.00	-23.75	QP
4	360.45	32.89	14.03	27.30	0.66	20.28	46.00	-25.72	QP
5	625.08	34.14	18.80	27.82	1.11	26.23	46.00	-19.77	QP
6	948.76	33.12	22.13	27.62	1.35	28.98	46.00	-17.02	QP

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss



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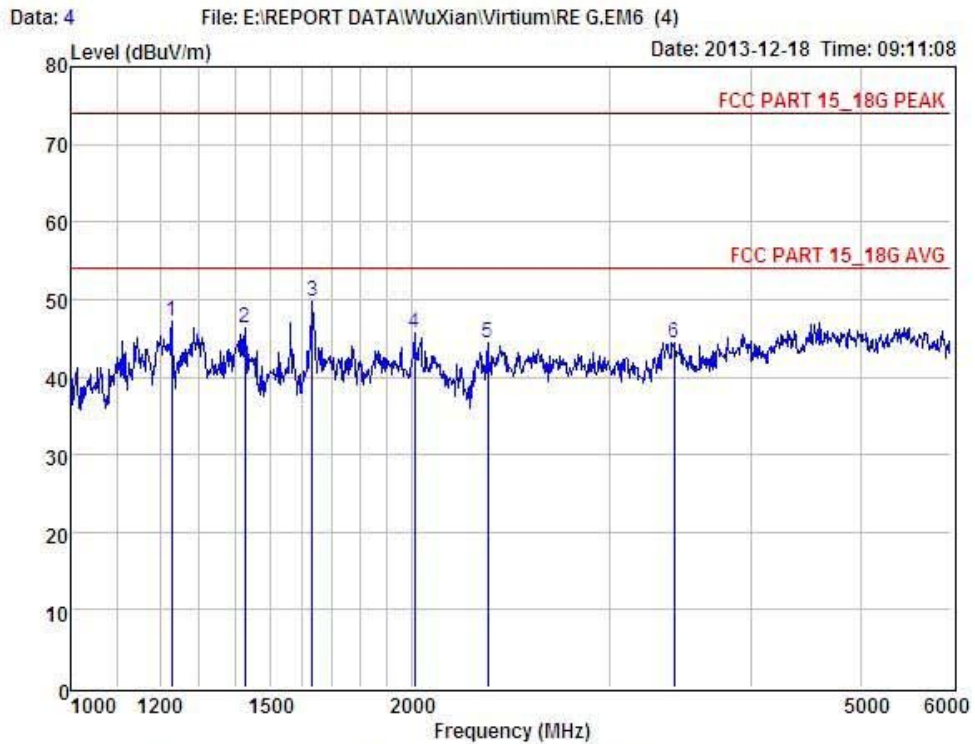
Condition : FCC PART 15_18G PEAK 3m POL: VERTICAL
 EUT : eUSB Tuff Drive
 Model No : eUSB Key
 Test Mode : Data Transmitting
 Power : DC 5V From Adapter AC 120V/60Hz
 Test Engineer : Store
 Remark : USB2.0
 Temp : 25.2°C
 Hum : 56%

Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	1109.51	59.28	24.16	34.87	2.14	50.71	74.00	-23.29	Peak
2	1317.76	55.58	25.05	34.86	2.54	48.31	74.00	-25.69	Peak
3	1633.86	58.19	24.80	34.76	3.12	51.35	74.00	-22.65	Peak
4	2338.00	51.79	27.71	34.96	3.88	48.42	74.00	-25.58	Peak
5	3381.76	47.96	27.88	34.92	4.74	45.66	74.00	-28.34	Peak
6	5015.75	45.08	31.56	34.02	5.83	48.45	74.00	-25.55	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss



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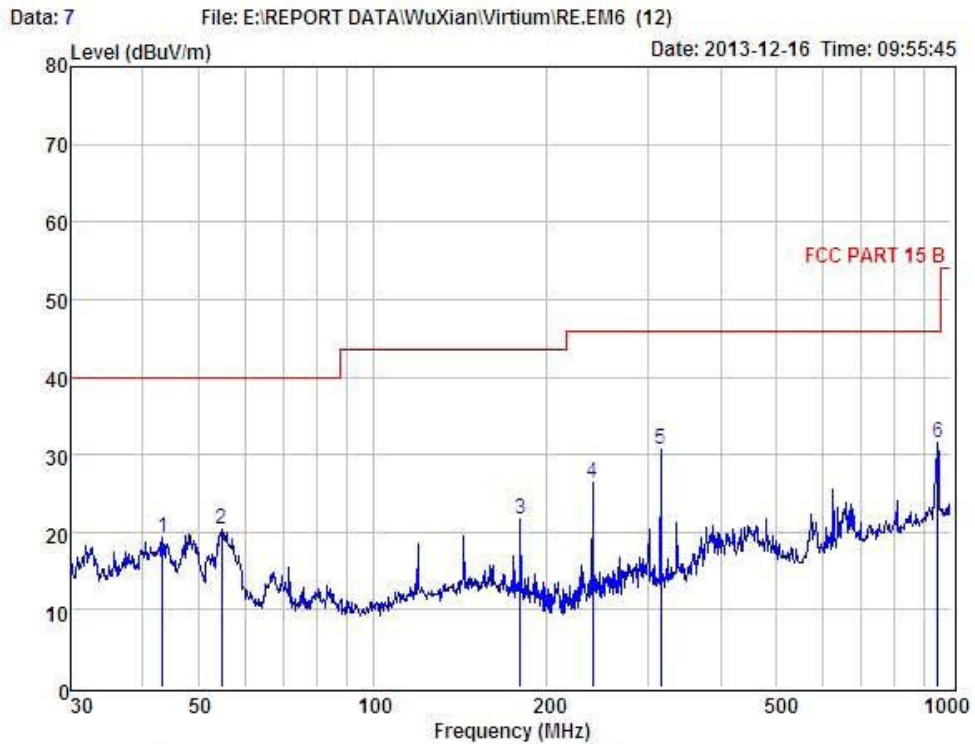
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 EUT : eUSB Tuff Drive
 Model No : eUSB Key
 Test Mode : Data Transmitting
 Power : DC 5V From Adapter AC 120V/60Hz
 Test Engineer : Store
 Remark : USB2.0
 Temp : 25.2°C
 Hum : 56%

Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	1228.82	55.16	24.46	34.90	2.38	47.10	74.00	-26.90	Peak
2	1425.85	53.20	25.09	34.81	2.75	46.23	74.00	-27.77	Peak
3	1636.79	56.70	24.80	34.76	3.12	49.86	74.00	-24.14	Peak
4	2014.92	50.87	26.10	34.94	3.61	45.64	74.00	-28.36	Peak
5	2338.00	47.86	27.71	34.96	3.88	44.49	74.00	-29.51	Peak
6	3418.31	46.56	27.99	34.92	4.77	44.40	74.00	-29.60	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss



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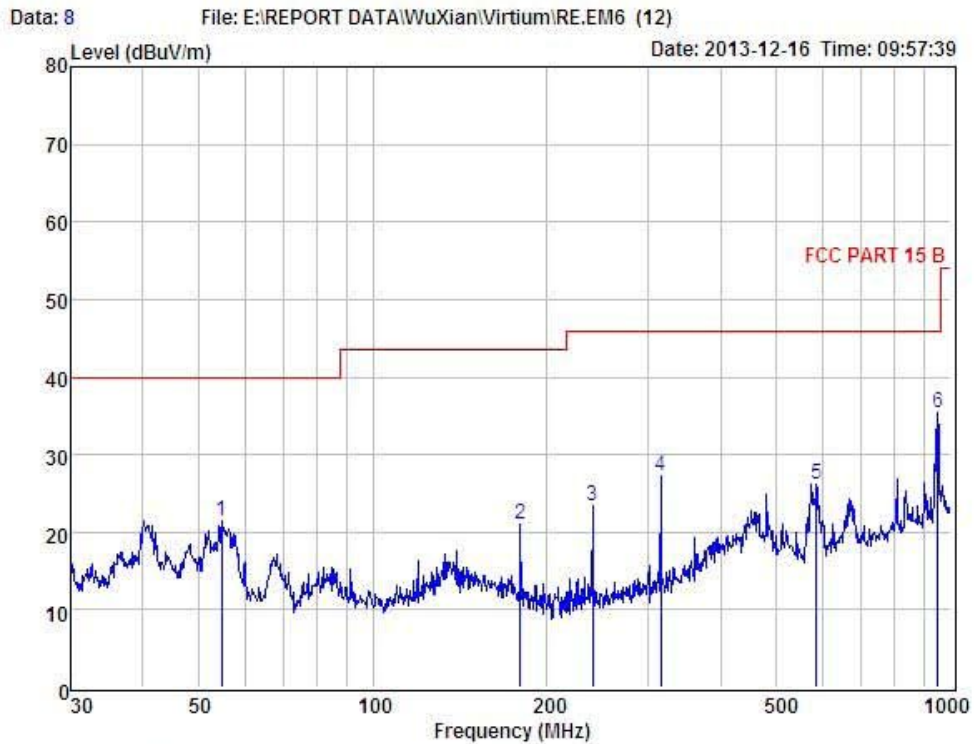
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 EUT : eUSB Tuff Drive
 Model No : eUSB Key
 Test Mode : Data Transmitting
 Power : DC 5V From PC AC 120V/60Hz
 Test Engineer : Store
 Remark : USB3.0
 Temp : 25.2°C
 Hum : 56%

Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	43.20	33.30	13.79	27.81	0.09	19.37	40.00	-20.63	QP
2	54.83	35.04	13.07	27.85	0.18	20.44	40.00	-19.56	QP
3	180.02	36.42	11.68	26.93	0.47	21.64	43.50	-21.86	QP
4	239.99	41.57	11.45	27.09	0.53	26.46	46.00	-19.54	QP
5	315.48	44.21	13.19	27.22	0.57	30.75	46.00	-15.25	QP
6	948.76	35.62	22.13	27.62	1.35	31.48	46.00	-14.52	QP

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss



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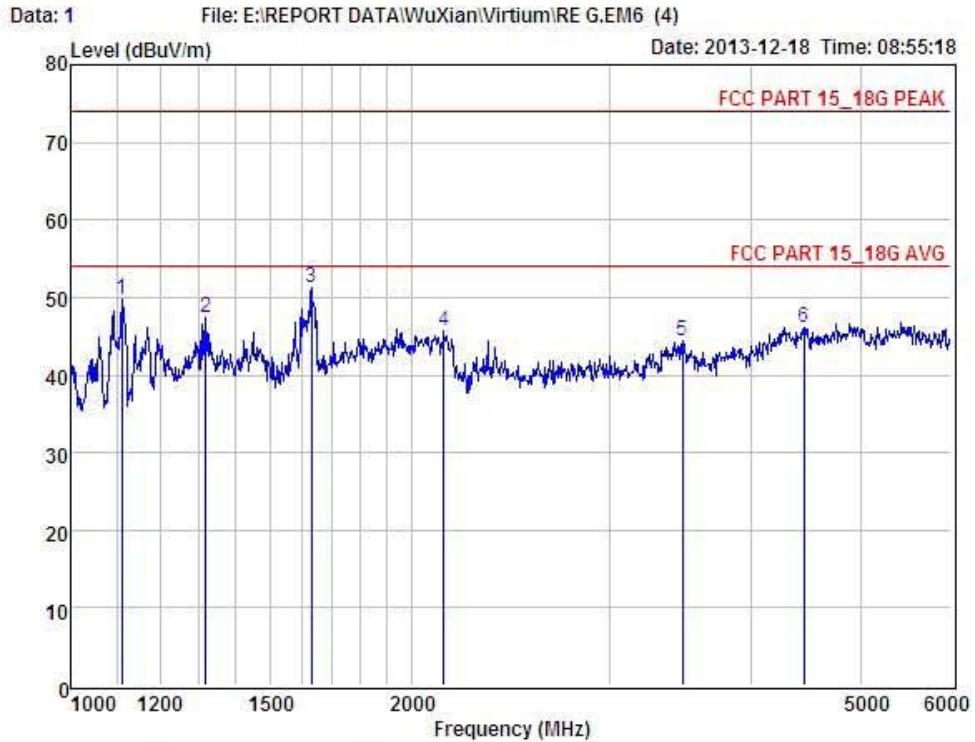
Condition : FCC PART 15 B 3m POL: VERTICAL
 EUT : eUSB Tuff Drive
 Model No : eUSB Key
 Test Mode : Data Transmitting
 Power : DC 5V From PC AC 120V/60Hz
 Test Engineer : Store
 Remark : USB3.0
 Temp : 25.2°C
 Hum : 56%

Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	54.83	36.09	13.07	27.85	0.18	21.49	40.00	-18.51	QP
2	180.02	35.77	11.68	26.93	0.47	20.99	43.50	-22.51	QP
3	239.99	38.44	11.45	27.09	0.53	23.33	46.00	-22.67	QP
4	315.48	40.67	13.19	27.22	0.57	27.21	46.00	-18.79	QP
5	584.79	34.97	18.01	27.79	0.93	26.12	46.00	-19.88	QP
6	948.76	39.44	22.13	27.62	1.35	35.30	46.00	-10.70	QP

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss



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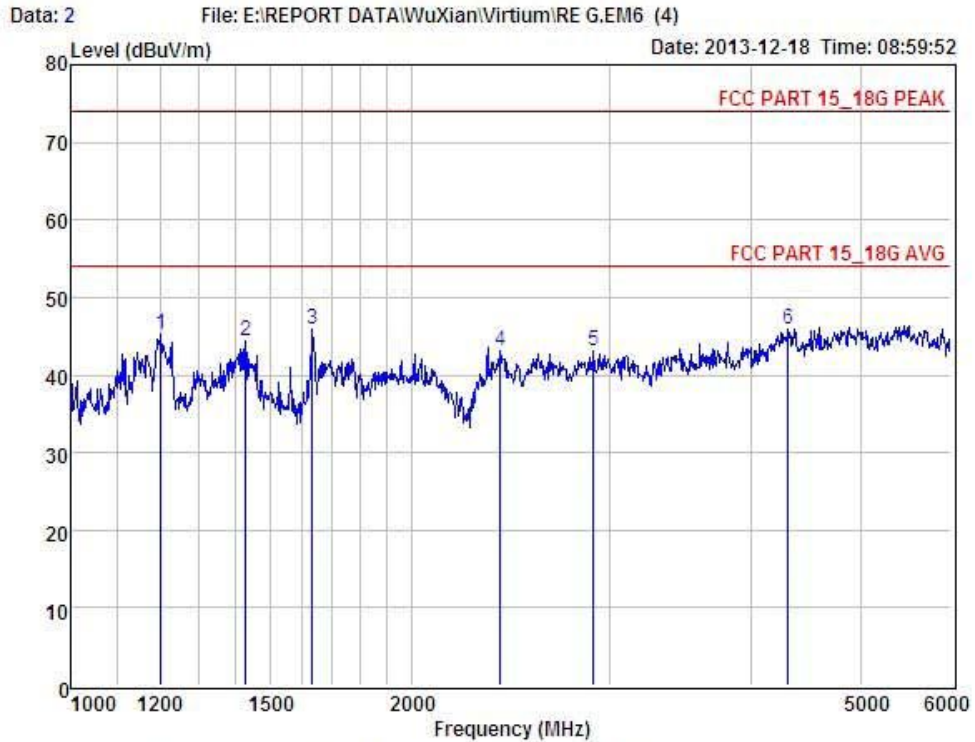
Condition : FCC PART 15_18G PEAK 3m POL: VERTICAL
 EUT : eUSB Tuff Drive
 Model No : eUSB Key
 Test Mode : Data Transmitting
 Power : DC 5V From Adapter AC 120V/60Hz
 Test Engineer : Store
 Remark : USB3.0
 Temp : 25.2°C
 Hum : 56%

Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	1109.51	58.28	24.16	34.87	2.14	49.71	74.00	-24.29	Peak
2	1317.76	54.58	25.05	34.86	2.54	47.31	74.00	-26.69	Peak
3	1633.86	58.19	24.80	34.76	3.12	51.35	74.00	-22.65	Peak
4	2137.65	49.45	27.37	34.95	3.72	45.59	74.00	-28.41	Peak
5	3473.88	46.06	28.40	34.91	4.83	44.38	74.00	-29.62	Peak
6	4448.36	44.65	30.50	34.47	5.47	46.15	74.00	-27.85	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss



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Condition : FCC PART 15_18G PEAK 3m POL: HORIZONTAL
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 Test Engineer : Store
 Remark : USB3.0
 Temp : 25.2°C
 Hum : 56%

Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	1202.68	53.49	24.35	34.91	2.31	45.24	74.00	-28.76	Peak
2	1428.41	51.31	25.09	34.81	2.75	44.34	74.00	-29.66	Peak
3	1636.79	52.70	24.80	34.76	3.12	45.86	74.00	-28.14	Peak
4	2397.39	46.47	27.62	34.97	3.94	43.06	74.00	-30.94	Peak
5	2898.82	45.76	28.02	34.98	4.35	43.15	74.00	-30.85	Peak
6	4307.18	44.89	30.20	34.54	5.38	45.93	74.00	-28.07	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

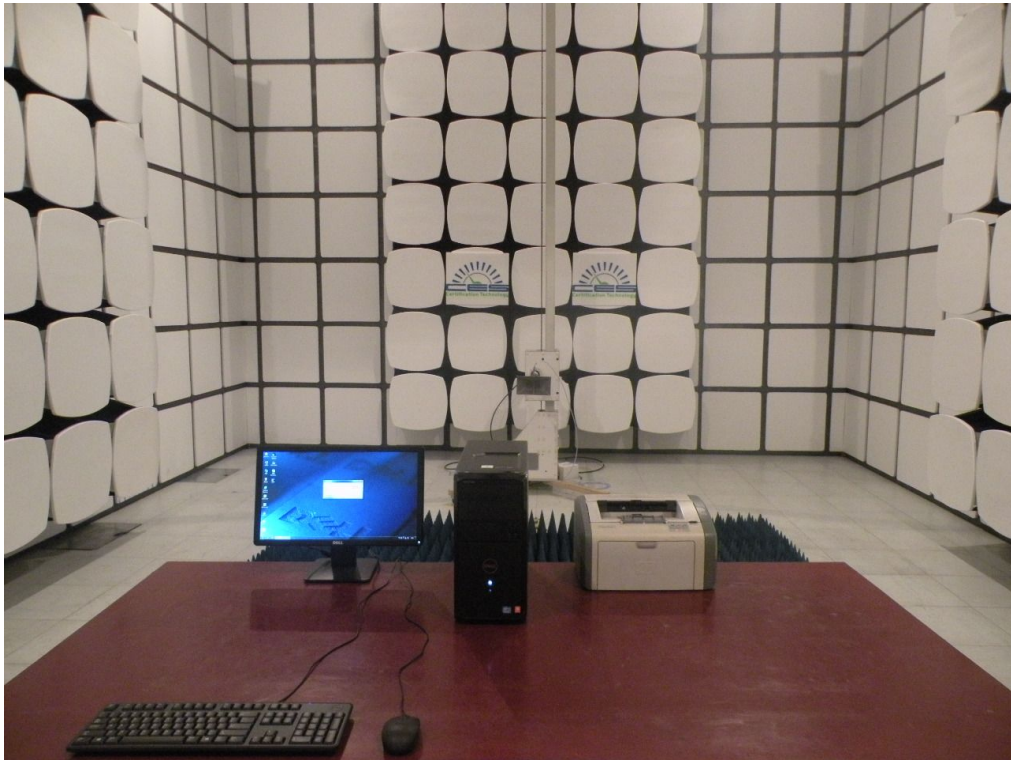
5. PHOTOGRAPH

5.1.Photos of Power Line Conducted Emission Test



5.2.Photos of Radiated Emission Test (In Anechoic Chamber)





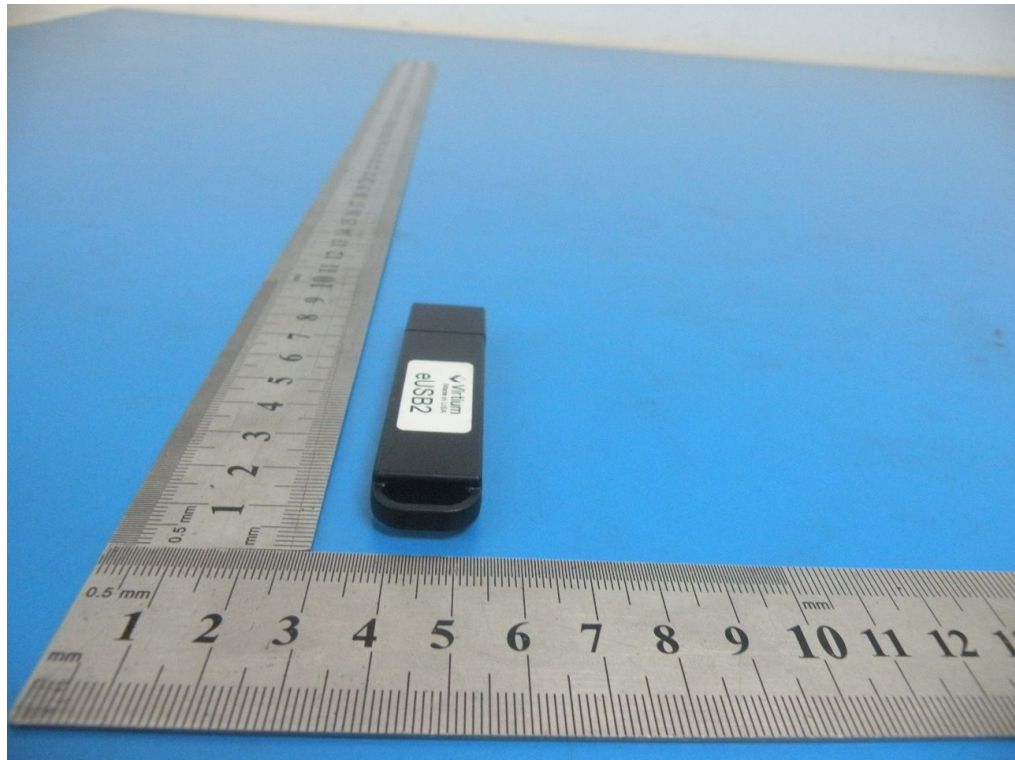
6. PHOTOS OF THE EUT



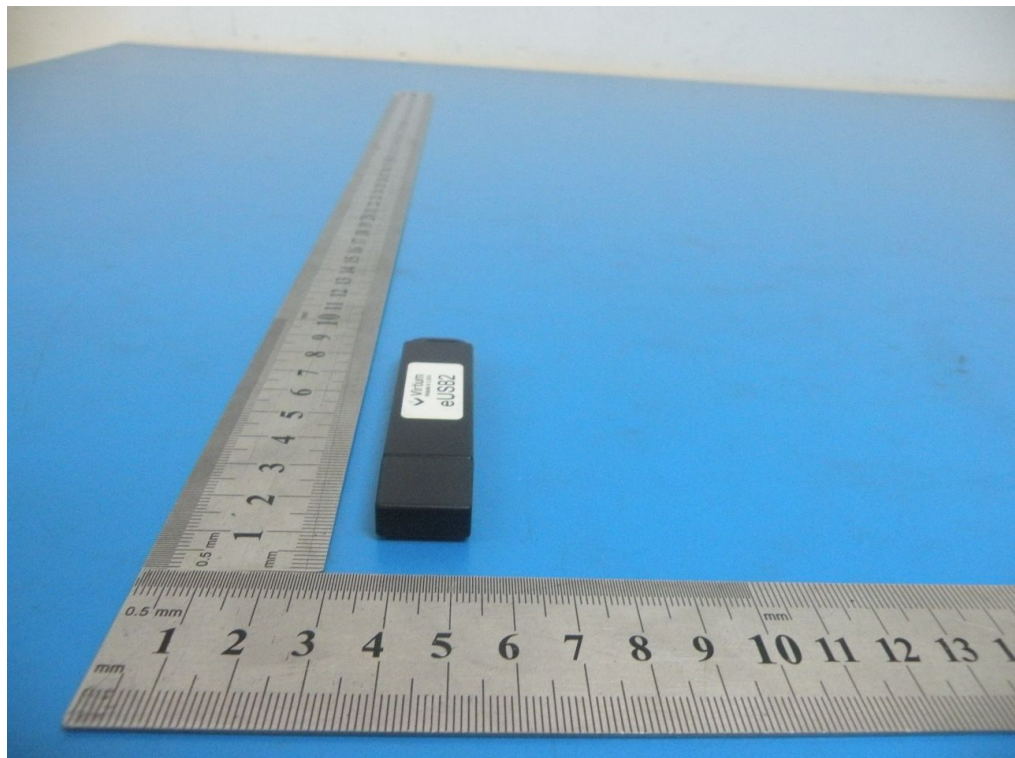
Front View



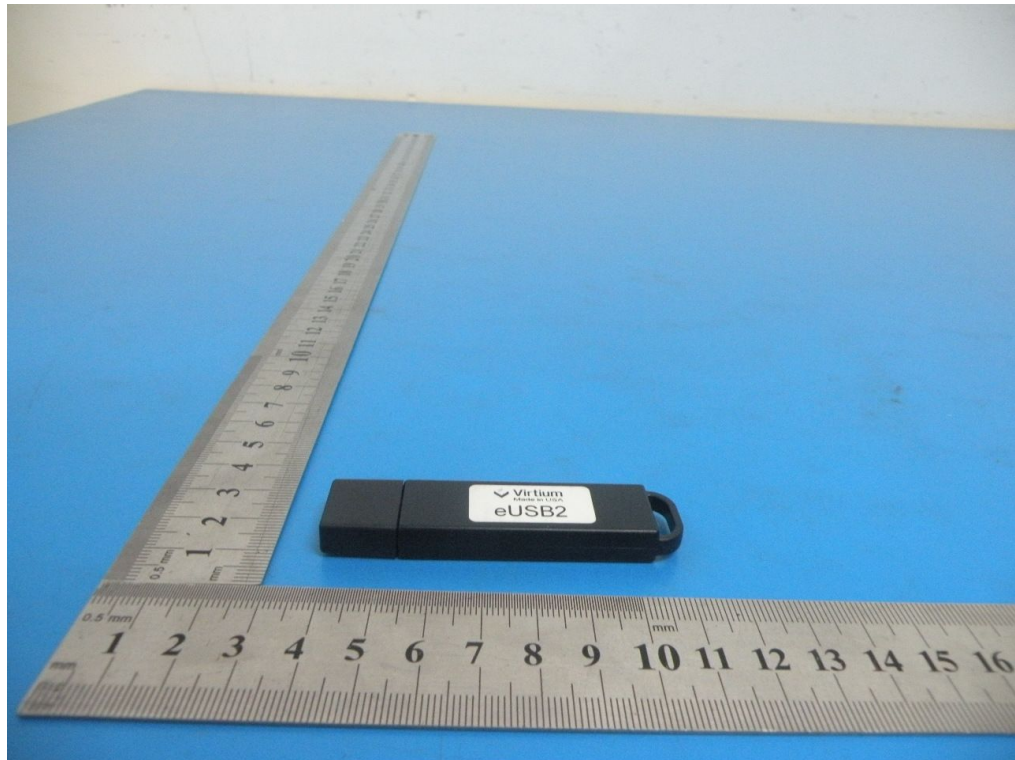
Rear View



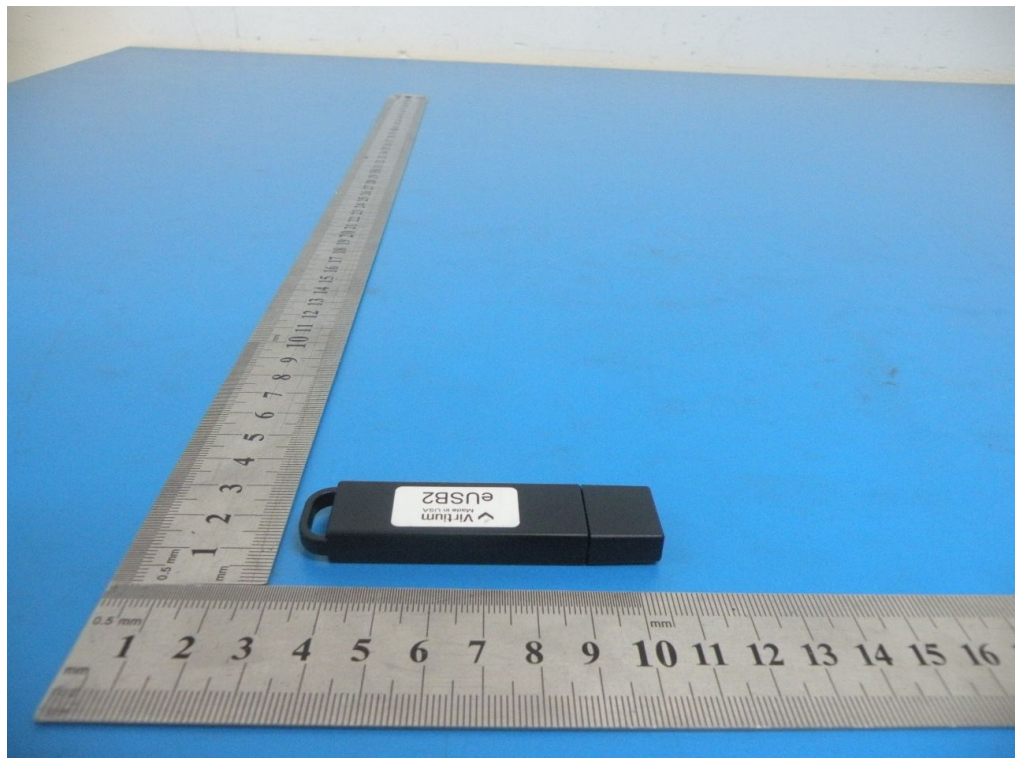
Top View



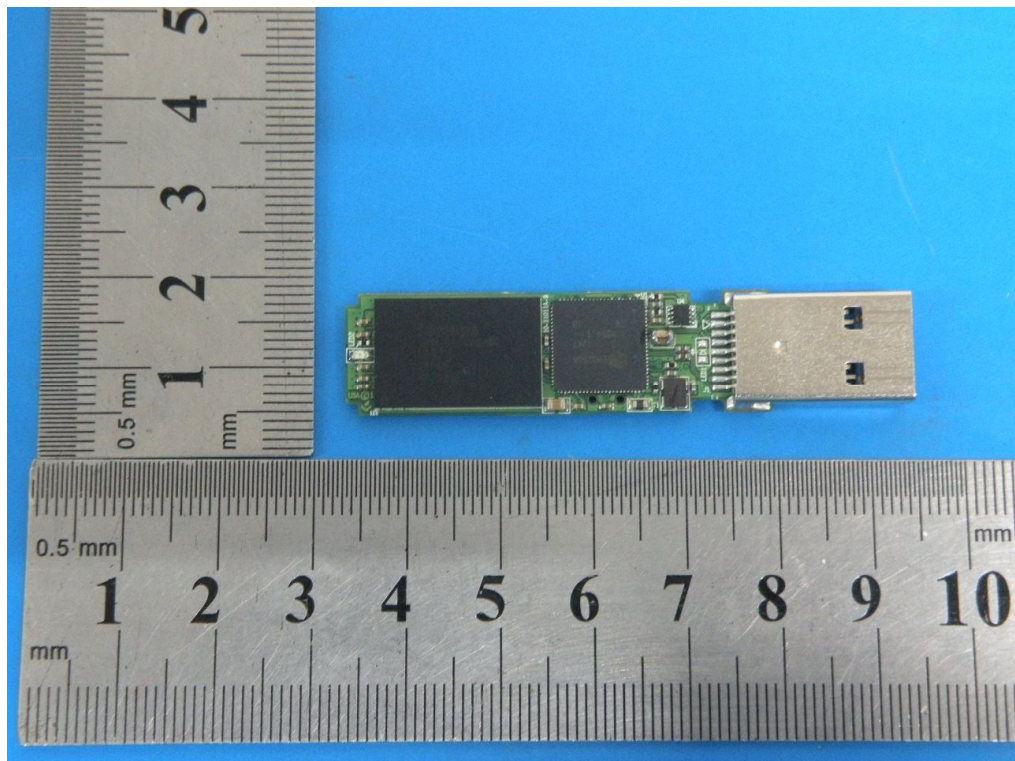
Bottom View



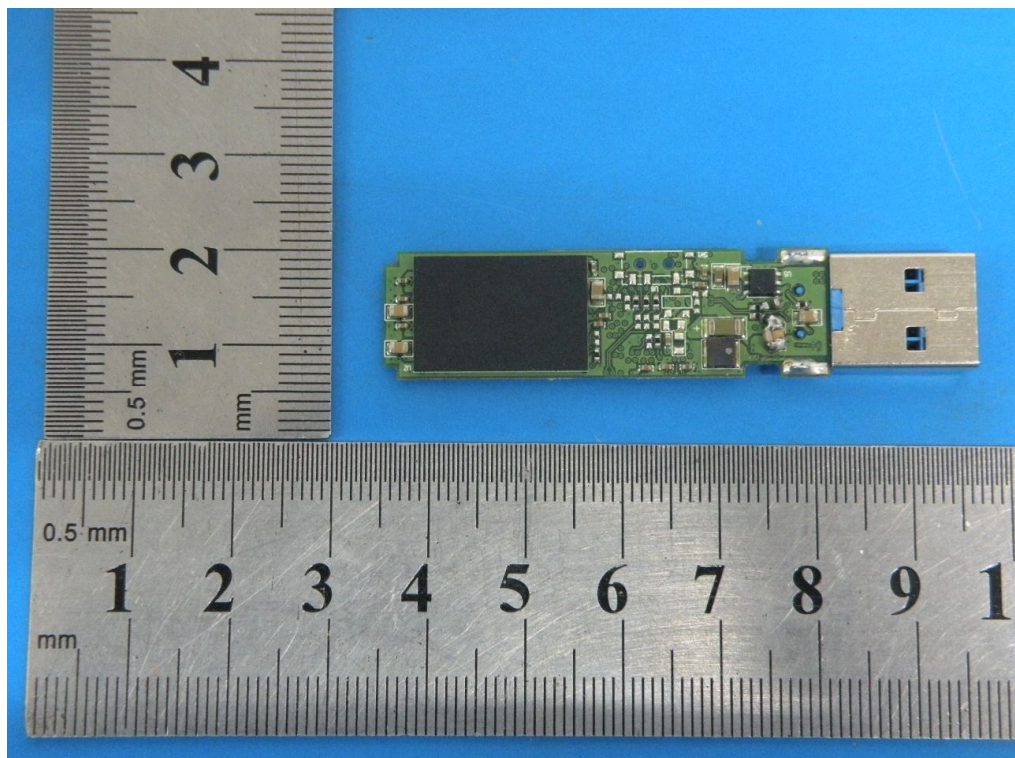
Left View



Right View



Inside View



Inside View

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