


EMC TEST REPORT



Report No.: 17070148-FCC-E

Supersede Report No: N/A

Applicant	3Dconnexion	
Product Name	CadMouse Wireless	
Model No.	3DX-600054	
Serial No.	3DX-700062	
Test Standard	FCC Part 15 Subpart B Class B:2016, ANSI C63.4: 2014	
Test Date	August 05 to October 30, 2017	
Issue Date	October 31, 2017	
Test Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	
Equipment complied with the specification	<input checked="" type="checkbox"/>	
Equipment did not comply with the specification	<input type="checkbox"/>	
<i>Evans He</i>	<i>David Huang</i>	
Evans He Test Engineer	David Huang Checked By	
This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only		

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

Zone A, Floor 1, Building 2 Wan Ye Long Technology Park

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Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety

Test Report	17070148-FCC-E
Page	3 of 34

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CONTENTS

1. REPORT REVISION HISTORY	5
2. CUSTOMER INFORMATION	5
3. TEST SITE INFORMATION	5
4. EQUIPMENT UNDER TEST (EUT) INFORMATION	6
5. TEST SUMMARY	7
6. MEASUREMENTS, EXAMINATION AND DERIVED RESULTS	8
6.1 AC POWER LINE CONDUCTED EMISSIONS.....	8
6.2 RADIATED EMISSIONS.....	14
ANNEX A. TEST INSTRUMENT.....	19
ANNEX B. EUT AND TEST SETUP PHOTOGRAPHS.....	20
ANNEX C. TEST SETUP AND SUPPORTING EQUIPMENT.....	30
ANNEX D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PARTLIST	33
ANNEX E. DECLARATION OF SIMILARITY.....	34

1. Report Revision History

Report No.	Report Version	Description	Issue Date
17070148-FCC-E	NONE	Original	October 31, 2017

2. Customer information

Applicant Name	3Dconnexion
Applicant Add	33, Rue du Portier, 98000 Monaco
Manufacturer	3Dconnexion
Manufacturer Add	33, Rue du Portier, 98000 Monaco

3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES
Lab Address	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108
FCC Test Site No.	535293
IC Test Site No.	4842E-1
Test Software of Radiated Emission	Radiated Emission Program-To Shenzhen v2.0
Test Software of Conducted Emission	EZ-EMC(ver.lcp-03A1)

4. Equipment under Test (EUT) Information

Description of EUT:	CadMouse Wireless
Main Model:	3DX-600054
Serial Model:	3DX-700062
Antenna Gain:	BLE: -2.72dBi 2.4G: -2.72dBi
Antenna Type:	Patch antenna
Input Power:	Battery: Model: 603450 Spec: 3.7V, 4.07Wh, 1100mAh Voltage: 4.2V
Equipment Category :	JBP
Type of Modulation:	BLE/2.4G: GFSK
RF Operating Frequency (ies):	2.4G: 2404-2477 MHz BLE: 2402-2480 MHz
Number of Channels:	40CH
Port:	USB Port
Trade Name :	3Dconnexion
FCC ID:	2AAHQ-CMW
Date EUT received:	August 04, 2017
Test Date(s):	August 05 to October 30, 2017

5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result
§15.107; ANSI C63.4: 2014	AC Power Line Conducted Emissions	Compliance
§15.109; ANSI C63.4: 2014	Radiated Emissions	Compliance

Measurement Uncertainty

Parameter	Uncertainty
AC Power Line Conducted Emissions (150kHz~30MHz)	±3.11dB
Radiated Emission(30MHz~1GHz)	±5.12dB
Radiated Emission(1GHz~6GHz)	±5.34dB

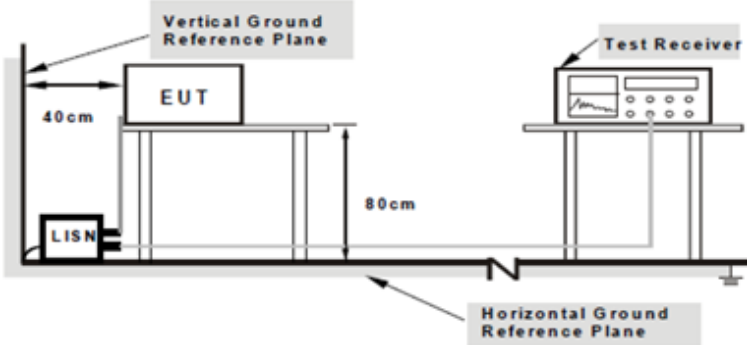
6. Measurements, Examination And Derived Results

6.1 AC Power Line Conducted Emissions

Temperature	26°C
Relative Humidity	57%
Atmospheric Pressure	1025mbar
Test date :	October 25, 2017
Tested By :	Evans He

Requirement(s):

Spec	Item	Requirement	Applicable														
47CFR§15.107	a)	<p>For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 [mu] H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequencies ranges.</p> <table border="1"> <thead> <tr> <th rowspan="2">Frequency ranges (MHz)</th> <th colspan="2">Limit (dBµV)</th> </tr> <tr> <th>QP</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15 ~ 0.5</td> <td>66 – 56</td> <td>56 – 46</td> </tr> <tr> <td>0.5 ~ 5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5 ~ 30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>	Frequency ranges (MHz)	Limit (dBµV)		QP	Average	0.15 ~ 0.5	66 – 56	56 – 46	0.5 ~ 5	56	46	5 ~ 30	60	50	<input checked="" type="checkbox"/>
Frequency ranges (MHz)	Limit (dBµV)																
	QP	Average															
0.15 ~ 0.5	66 – 56	56 – 46															
0.5 ~ 5	56	46															
5 ~ 30	60	50															

Test Setup	 <p style="text-align: center;"> Note: 1. Support units were connected to second LISN. 2. Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units. </p>
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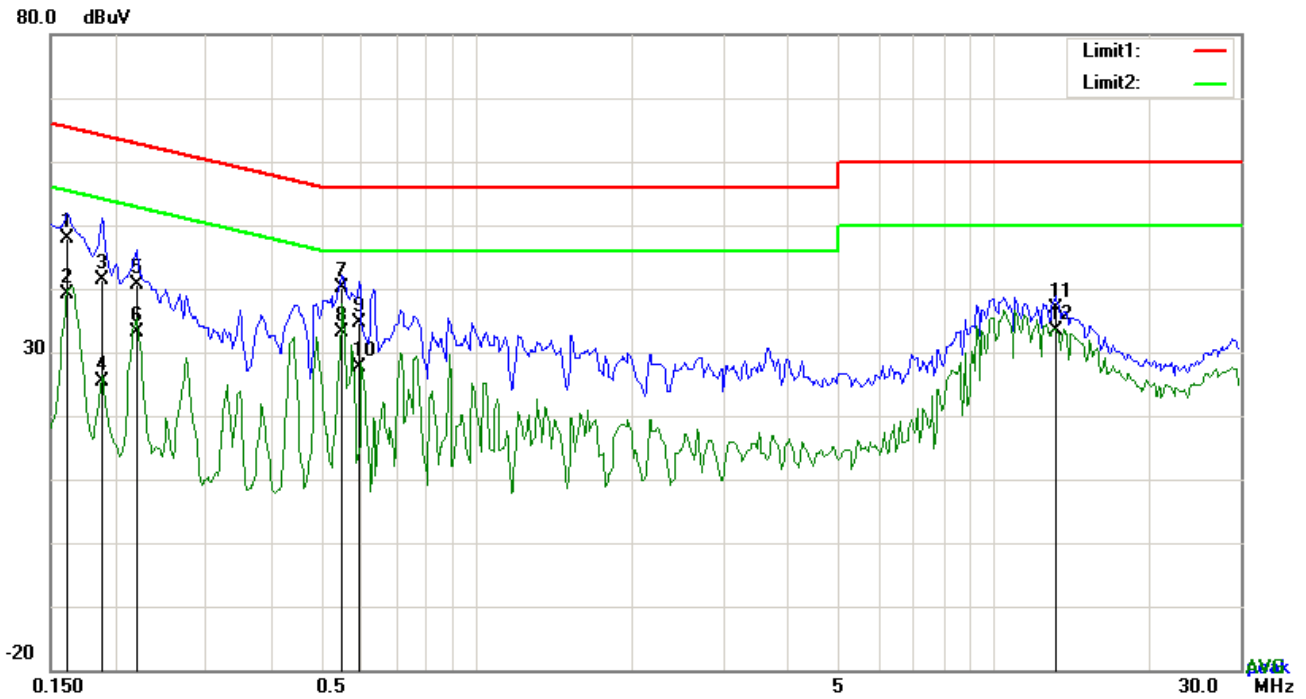
Procedure	<ol style="list-style-type: none"> The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table. The power supply for the EUT was fed through a 50Ω /50mH EUT LISN, connected to filtered mains.
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	<ol style="list-style-type: none"> 3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable. 4. All other supporting equipment were powered separately from another main supply. 5. The EUT was switched on and allowed to warm up to its normal operating condition. 6. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) over the required frequency range using an EMI test receiver. 7. High peaks, relative to the limit line, The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10 kHz. 8. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power).
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data Yes N/A

Test Plot Yes (See below) N/A

Test Mode : USB Mode

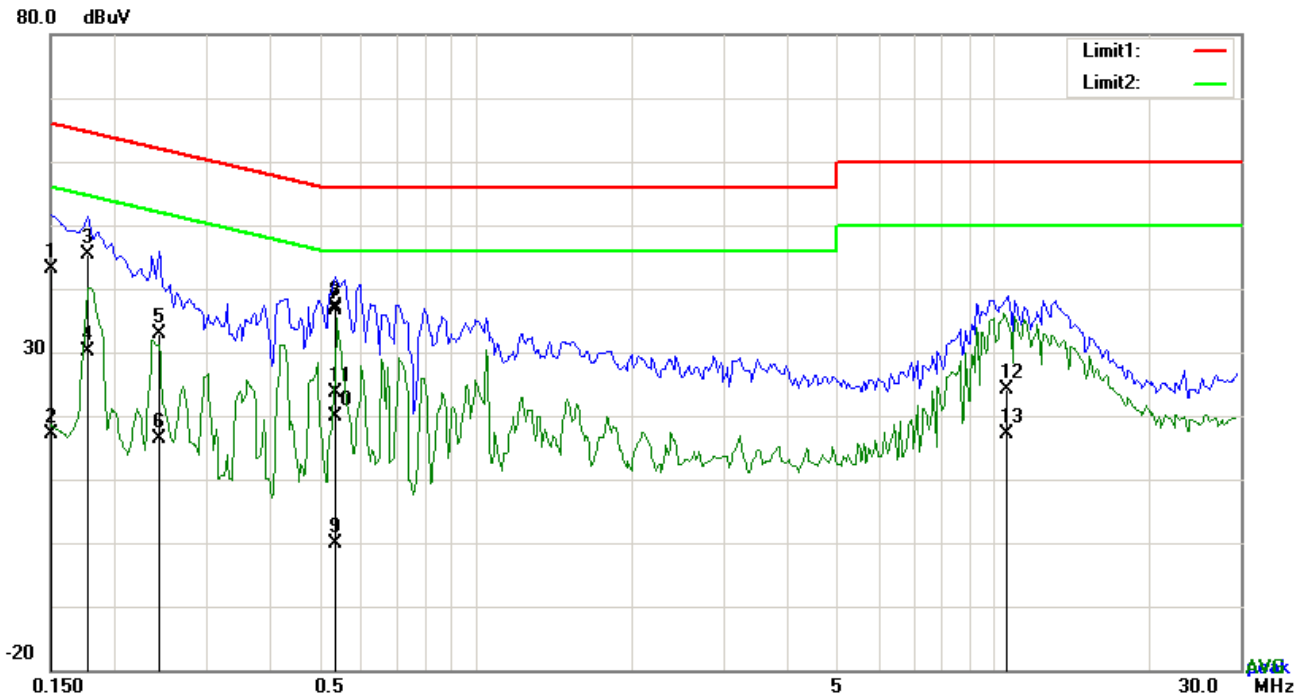


Test Data

Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.1617	37.86	QP	10.03	47.89	65.38	-17.49
2	L1	0.1617	29.17	AVG	10.03	39.20	55.38	-16.18
3	L1	0.1890	31.44	QP	10.03	41.47	64.08	-22.61
4	L1	0.1890	15.42	AVG	10.03	25.45	54.08	-28.63
5	L1	0.2202	30.63	QP	10.03	40.66	62.81	-22.15
6	L1	0.2202	23.14	AVG	10.03	33.17	52.81	-19.64
7	L1	0.5478	30.03	QP	10.03	40.06	56.00	-15.94
8	L1	0.5478	23.05	AVG	10.03	33.08	46.00	-12.92
9	L1	0.5946	24.52	QP	10.03	34.55	56.00	-21.45
10	L1	0.5946	17.48	AVG	10.03	27.51	46.00	-18.49
11	L1	13.1478	26.74	QP	10.20	36.94	60.00	-23.06
12	L1	13.1478	23.16	AVG	10.20	33.36	50.00	-16.64

Test Mode:	USB Mode
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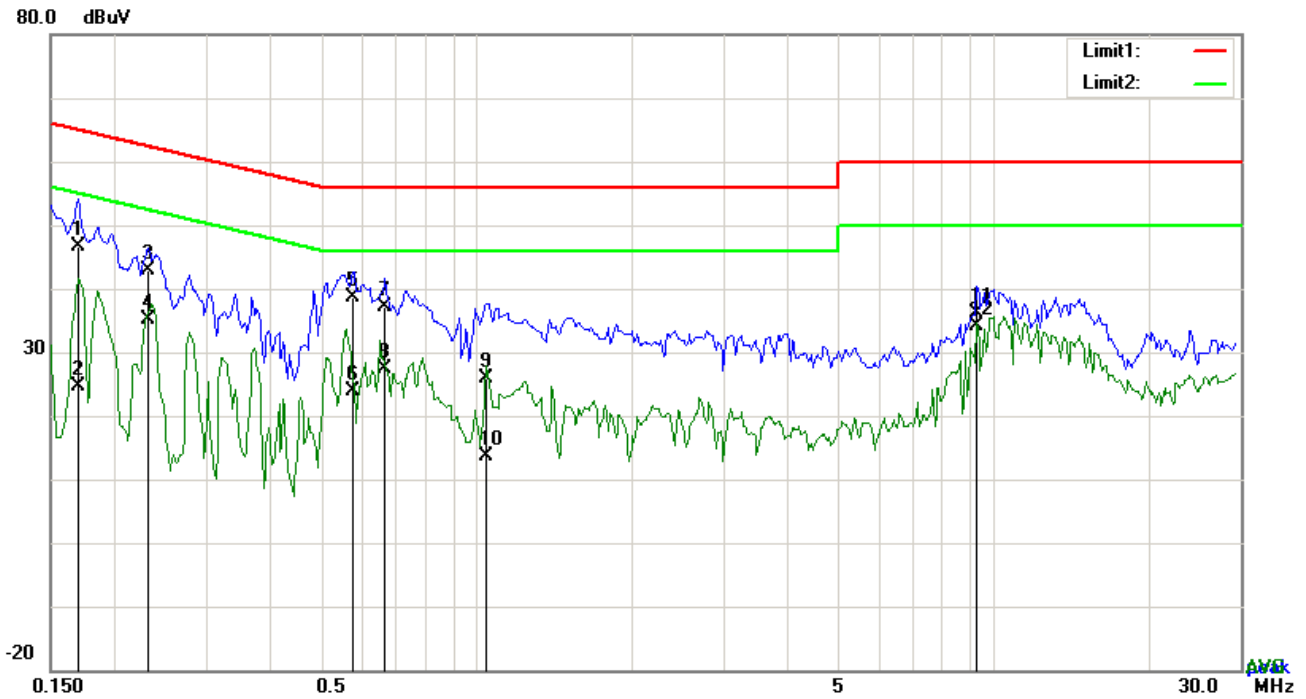


Test Data

Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	N	0.1500	33.15	QP	10.02	43.17	66.00	-22.83
2	N	0.1500	7.15	AVG	10.02	17.17	56.00	-38.83
3	N	0.1773	35.25	QP	10.02	45.27	64.61	-19.34
4	N	0.1773	20.20	AVG	10.02	30.22	54.61	-24.39
5	N	0.2436	22.81	QP	10.02	32.83	61.97	-29.14
6	N	0.2436	6.42	AVG	10.02	16.44	51.97	-35.53
7	N	0.5322	26.62	QP	10.02	36.64	56.00	-19.36
8	N	0.5322	27.11	QP	10.02	37.13	56.00	-18.87
9	N	0.5322	-10.02	QP	10.02	0.00	56.00	-56.00
10	N	0.5322	9.93	AVG	10.02	19.95	46.00	-26.05
11	N	0.5322	13.68	AVG	10.02	23.70	46.00	-22.30
12	N	10.5638	13.87	QP	10.15	24.02	60.00	-35.98

Test Mode : USB Mode

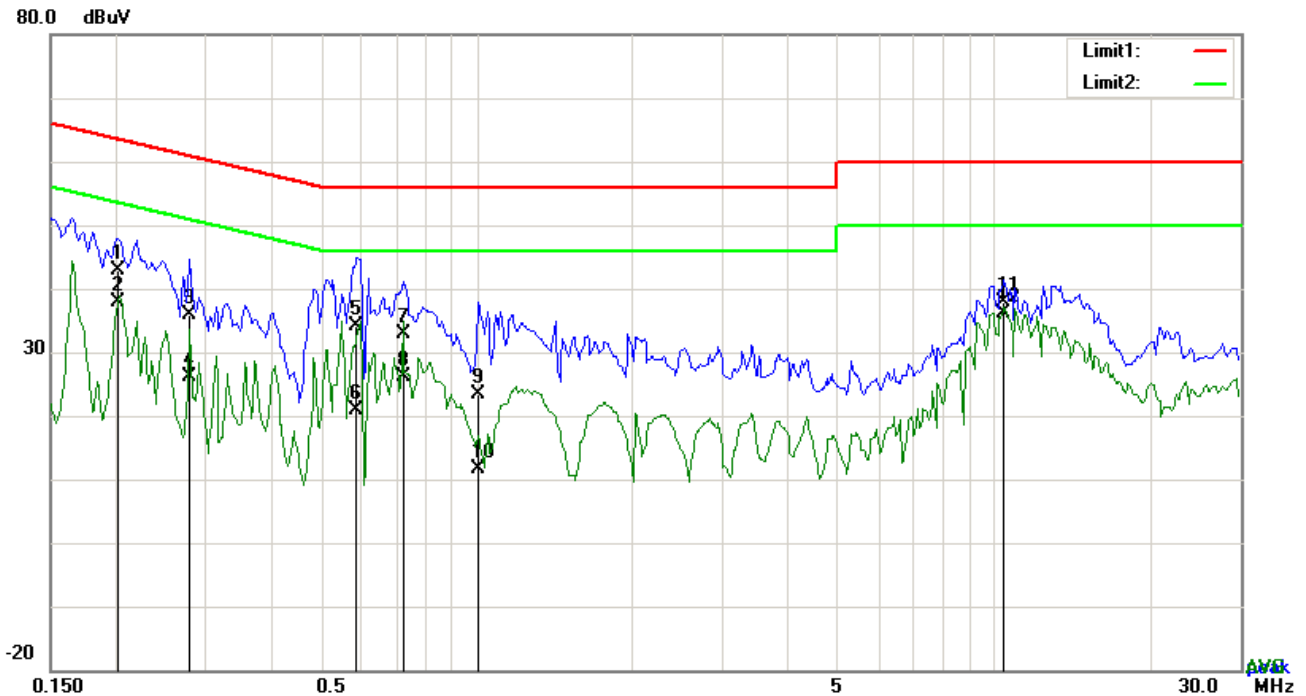


Test Data

Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	L1	0.1695	36.48	QP	10.03	46.51	64.98	-18.47
2	L1	0.1695	14.51	AVG	10.03	24.54	54.98	-30.44
3	L1	0.2319	32.86	QP	10.03	42.89	62.38	-19.49
4	L1	0.2319	25.17	AVG	10.03	35.20	52.38	-17.18
5	L1	0.5790	28.71	QP	10.03	38.74	56.00	-17.26
6	L1	0.5790	13.75	AVG	10.03	23.78	46.00	-22.22
7	L1	0.6648	27.05	QP	10.03	37.08	56.00	-18.92
8	L1	0.6648	17.43	AVG	10.03	27.46	46.00	-18.54
9	L1	1.0431	15.73	QP	10.03	25.76	56.00	-30.24
10	L1	1.0431	3.49	AVG	10.03	13.52	46.00	-32.48
11	L1	9.2907	26.03	QP	10.14	36.17	60.00	-23.83
12	L1	9.2907	23.92	AVG	10.14	34.06	50.00	-15.94

Test Mode :	USB Mode
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Test Data

Phase Neutral Plot at 240Vac, 60Hz

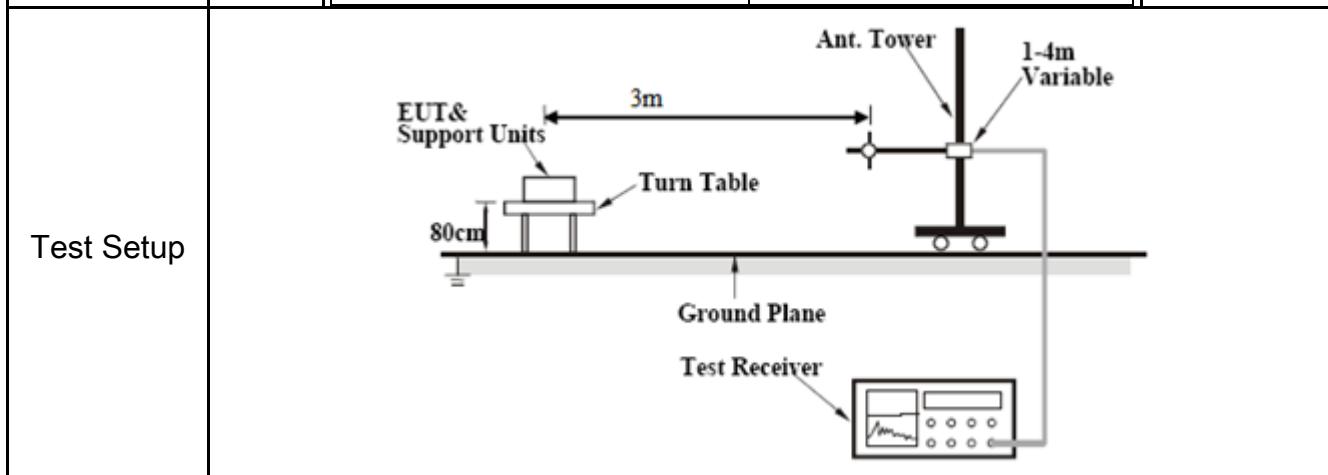
No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	N	0.2029	32.94	QP	10.02	42.96	63.49	-20.53
2	N	0.2029	27.82	AVG	10.02	37.84	53.49	-15.65
3	N	0.2787	25.86	QP	10.02	35.88	60.85	-24.97
4	N	0.2787	16.00	AVG	10.02	26.02	50.85	-24.83
5	N	0.5868	24.17	QP	10.02	34.19	56.00	-21.81
6	N	0.5868	10.79	AVG	10.02	20.81	46.00	-25.19
7	N	0.7233	22.75	QP	10.02	32.77	56.00	-23.23
8	N	0.7233	16.15	AVG	10.02	26.17	46.00	-19.83
9	N	1.0080	13.27	QP	10.03	23.30	56.00	-32.70
10	N	1.0080	1.62	AVG	10.03	11.65	46.00	-34.35
11	N	10.4763	27.77	QP	10.15	37.92	60.00	-22.08
12	N	10.4763	26.09	AVG	10.15	36.24	50.00	-13.76

6.2 Radiated Emissions

Temperature	26°C
Relative Humidity	57%
Atmospheric Pressure	1025mbar
Test date :	October 25, 2017
Tested By :	Evans He

Requirement(s):

Spec	Item	Requirement	Applicable										
47CFR§15.109(d)	a)	Except higher limit as specified elsewhere in other section, the emissions from the low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges	<input checked="" type="checkbox"/>										
		<table border="1"> <thead> <tr> <th>Frequency range (MHz)</th> <th>Field Strength ($\mu\text{V/m}$)</th> </tr> </thead> <tbody> <tr> <td>30 – 88</td> <td>100</td> </tr> <tr> <td>88 – 216</td> <td>150</td> </tr> <tr> <td>216 - 960</td> <td>200</td> </tr> <tr> <td>Above 960</td> <td>500</td> </tr> </tbody> </table>		Frequency range (MHz)	Field Strength ($\mu\text{V/m}$)	30 – 88	100	88 – 216	150	216 - 960	200	Above 960	500
		Frequency range (MHz)		Field Strength ($\mu\text{V/m}$)									
		30 – 88		100									
		88 – 216		150									
216 - 960	200												
Above 960	500												



Procedure	<ol style="list-style-type: none"> 1. The EUT was switched on and allowed to warm up to its normal operating condition. 2. The test was carried out at the selected frequency points obtained from the EUT characterization. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: <ol style="list-style-type: none"> a. Vertical or horizontal polarization (whichever gave the higher emission level
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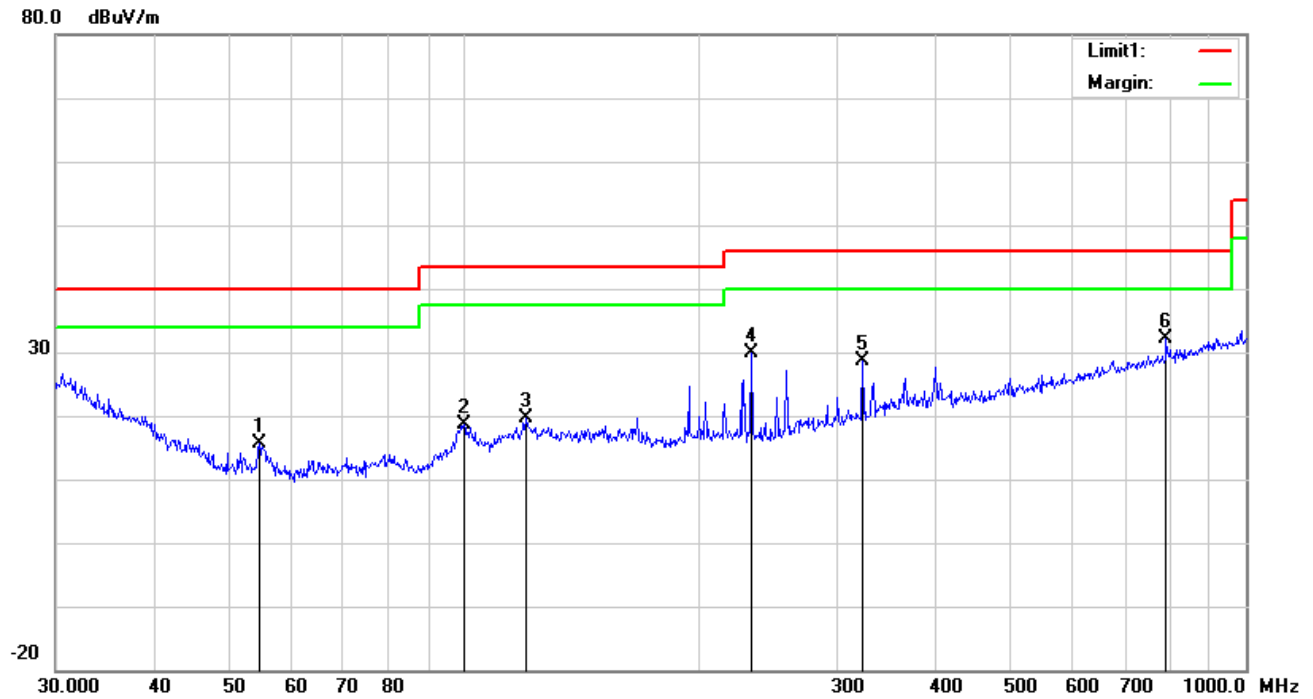
	<p>over a full rotation of the EUT) was chosen.</p> <p>b. The EUT was then rotated to the direction that gave the maximum emission.</p> <p>c. Finally, the antenna height was adjusted to the height that gave the maximum emission.</p> <p>3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi Peak detection at frequency below 1GHz.</p> <p>4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz with Peak detection for Peak measurement at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth with Peak detection for Average Measurement as below at frequency above 1GHz. ■ 1 kHz (Duty cycle < 98%) □ 10 Hz (Duty cycle > 98%)</p> <p>5. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.</p>
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data Yes N/A

Test Plot Yes (See below) N/A

Test Mode : USB Mode

Below 1GHz

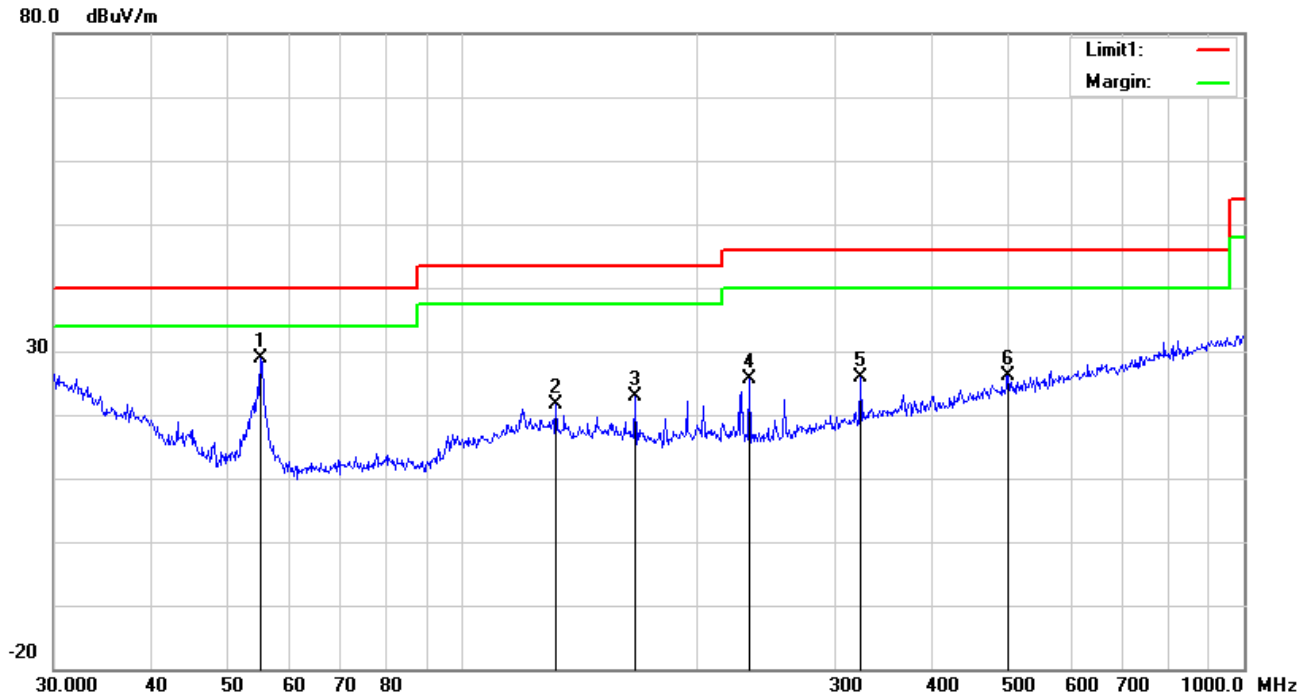


Test Data

Horizontal Polarity Plot @3m

No.	P/L	Frequency (MHz)	Reading (dBuV/m)	Detector	Ant_F (dB/m)	PA_G (dB)	Cab_L (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)
1	H	54.6429	29.38	peak	7.89	22.39	0.78	15.66	40.00	-24.34	100	346
2	H	99.8777	29.43	peak	10.37	22.32	1.12	18.60	43.50	-24.90	100	164
3	H	119.8556	26.89	peak	13.87	22.36	1.16	19.56	43.50	-23.94	100	110
4	H	233.3487	38.98	peak	11.63	22.32	1.65	29.94	46.00	-16.06	100	340
5	H	323.3204	34.73	peak	14.09	22.22	1.91	28.51	46.00	-17.49	100	130
6	H	790.6188	28.99	peak	21.29	21.17	2.94	32.05	46.00	-13.95	100	298

Below 1GHz



Test Data

Vertical Polarity Plot @3m

No.	P/L	Frequency	Reading	Detector	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	V	55.2207	42.65	peak	7.83	22.40	0.78	28.86	40.00	-11.14	100	15
2	V	131.7577	29.63	peak	13.14	22.39	1.21	21.59	43.50	-21.91	100	276
3	V	166.6514	31.58	peak	12.07	22.26	1.37	22.76	43.50	-20.74	200	193
4	V	232.5318	34.61	peak	11.64	22.32	1.64	25.57	46.00	-20.43	100	136
5	V	323.3204	32.04	peak	14.09	22.22	1.91	25.82	46.00	-20.18	100	180
6	V	499.4247	27.94	peak	17.69	21.81	2.42	26.24	46.00	-19.76	200	236

Above 1GHz

Frequency (MHz)	Read_level (dB μ V/m)	Azimuth	Height (cm)	Polarity (H/V)	Level (dB μ V/m)	Factors (dB)	Limit (dB μ V/m)	Margin (dB)	Detector (PK/AV)
1426.9	67.2	99	100	V	-18.97	48.23	74	-25.77	PK
1527.8	62.76	157	100	V	-18.55	44.21	74	-29.79	PK
1965.2	58.92	103	100	V	-15.25	43.67	74	-30.33	PK
1743.2	62.88	247	100	H	-17.76	45.12	74	-28.88	PK
2017.4	64.48	165	100	H	-14.97	49.51	74	-24.49	PK
2613.5	56.18	109	100	H	-13.31	42.87	74	-31.13	PK

*Note1: The highest frequency of the EUT is 2480 MHz, so the testing has been conformed to 5*2480MHz =12,400MHz.*

Note2: The frequency that above 3GHz is mainly from the environment noise.

Note3: The AV measurement performed, more than 20dB below limit so AV test data was not presented.

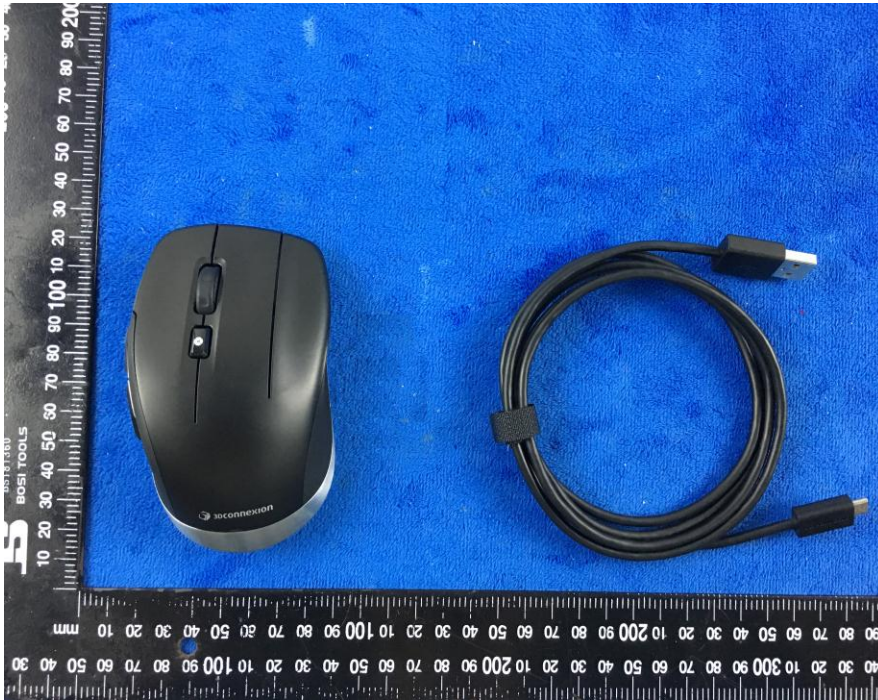
Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted Emissions					
EMI test receiver	ESCS30	8471241027	09/15/2017	09/14/2018	<input checked="" type="checkbox"/>
Line Impedance Stabilization Network	LI-125A	191106	09/23/2017	09/22/2018	<input checked="" type="checkbox"/>
Line Impedance Stabilization Network	LI-125A	191107	09/23/2017	09/22/2018	<input checked="" type="checkbox"/>
LISN	ISN T800	34373	09/23/2017	09/22/2018	<input checked="" type="checkbox"/>
Transient Limiter	LIT-153	531118	08/30/2017	08/29/2018	<input checked="" type="checkbox"/>
Radiated Emissions					
EMI test receiver	ESL6	100262	09/15/2017	09/14/2018	<input checked="" type="checkbox"/>
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	08/30/2017	08/29/2018	<input checked="" type="checkbox"/>
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/23/2017	03/22/2018	<input checked="" type="checkbox"/>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/19/2017	09/18/2018	<input checked="" type="checkbox"/>
Double Ridge Horn Antenna	AH-118	71259	09/22/2017	09/21/2018	<input checked="" type="checkbox"/>

Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo

Whole Package View



EUT - Front View



EUT - Rear View



EUT – Top View



EUT - Bottom View



EUT - Left View

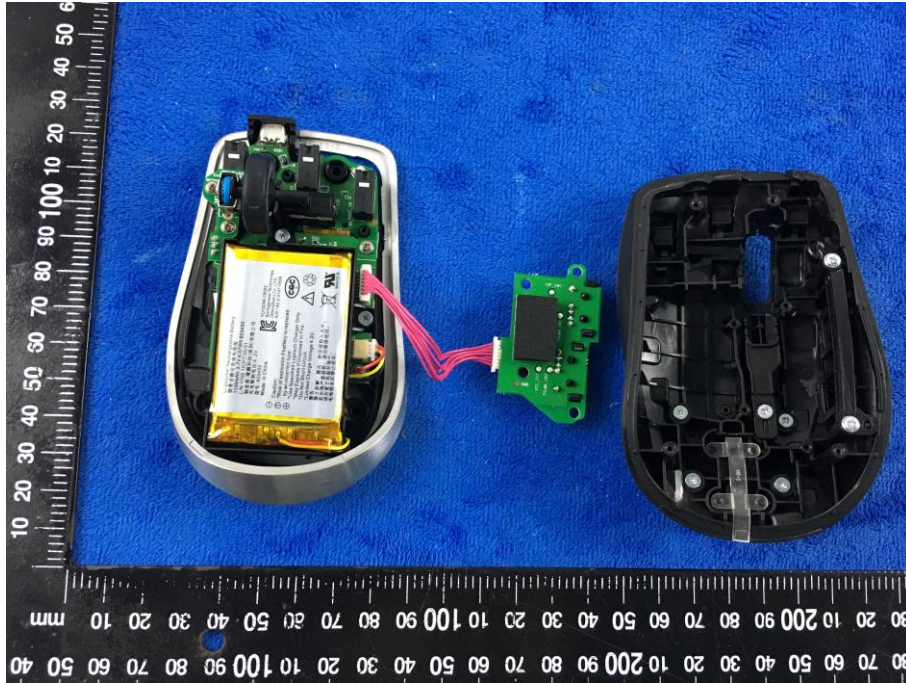


EUT - Right View

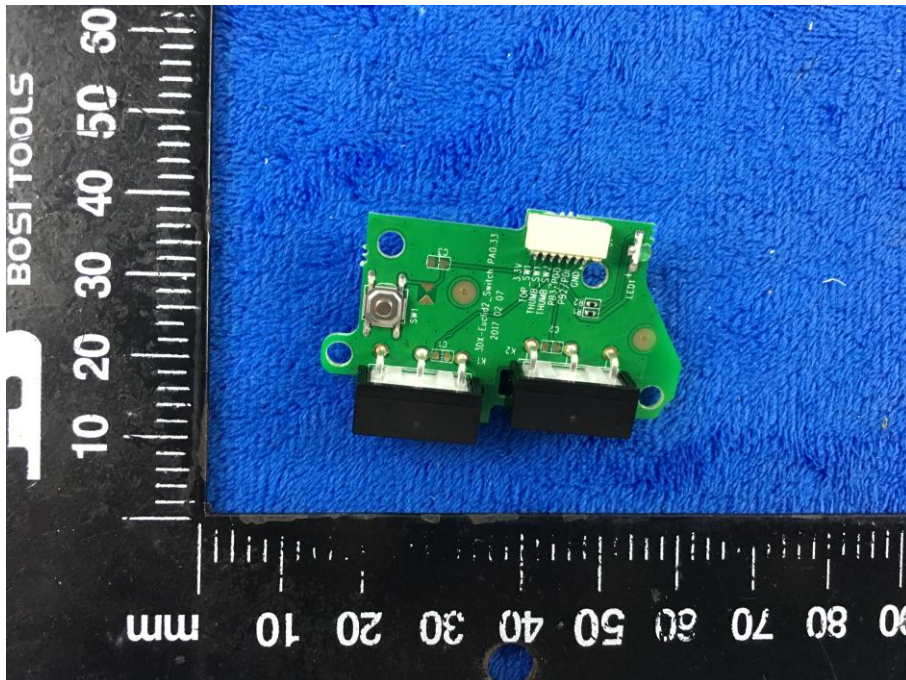


Annex B.ii. Photograph: EUT Internal Photo

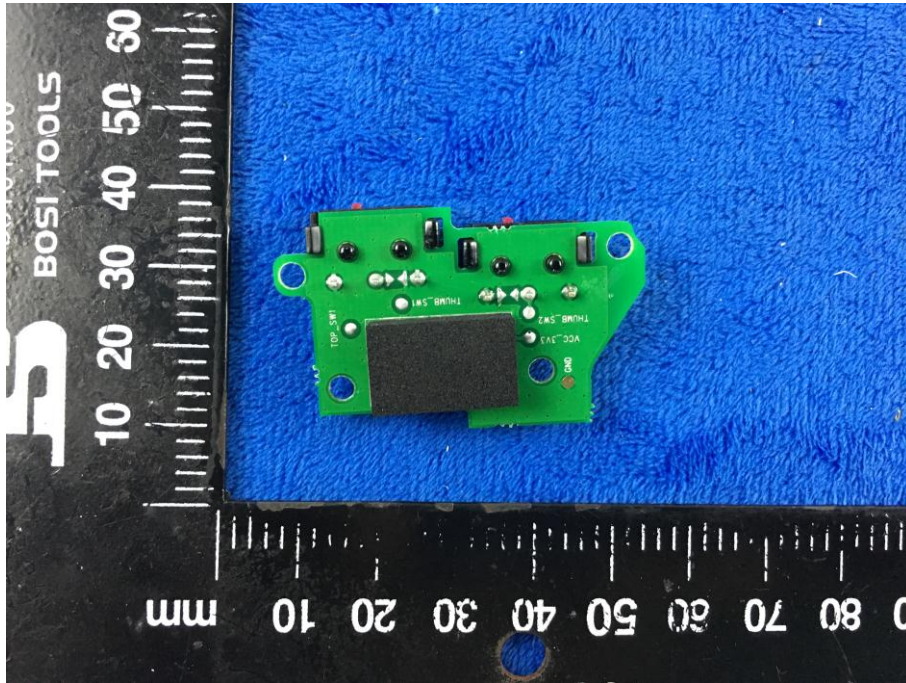
Cover Off - Top View



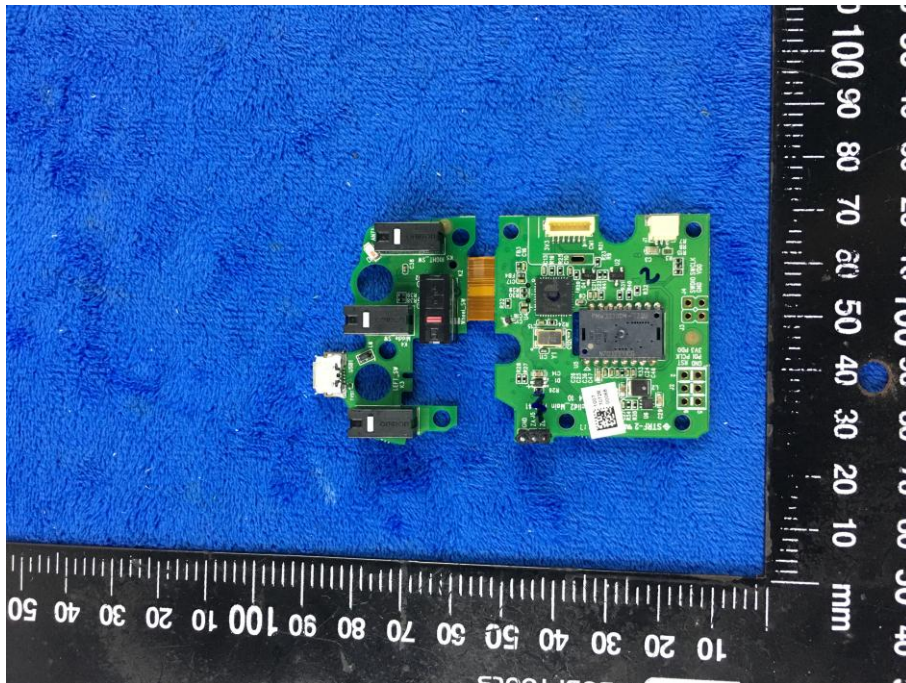
Connected Mainboard - Front View



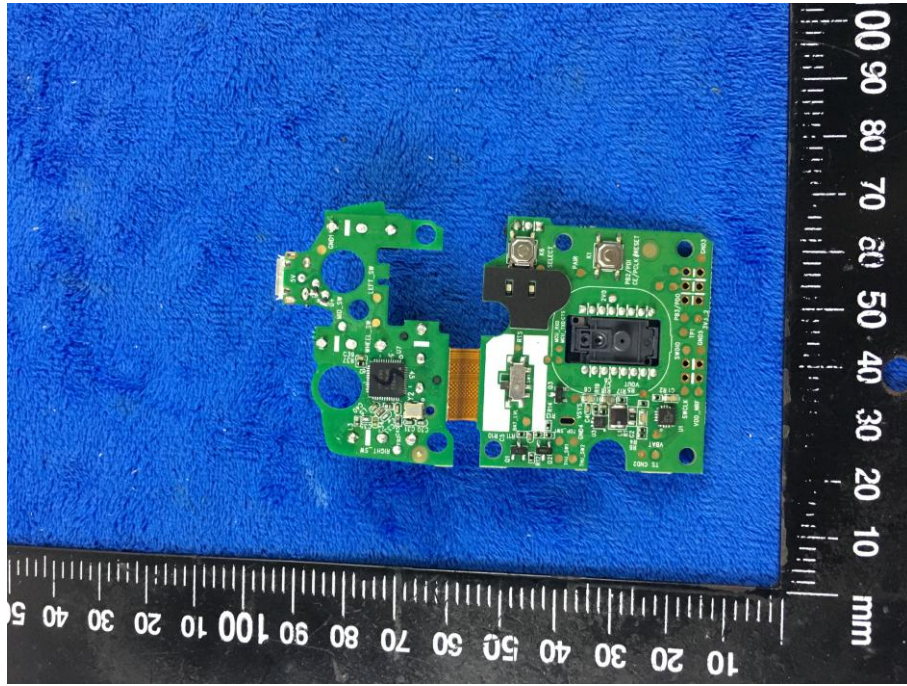
Connected Mainboard - Rear View



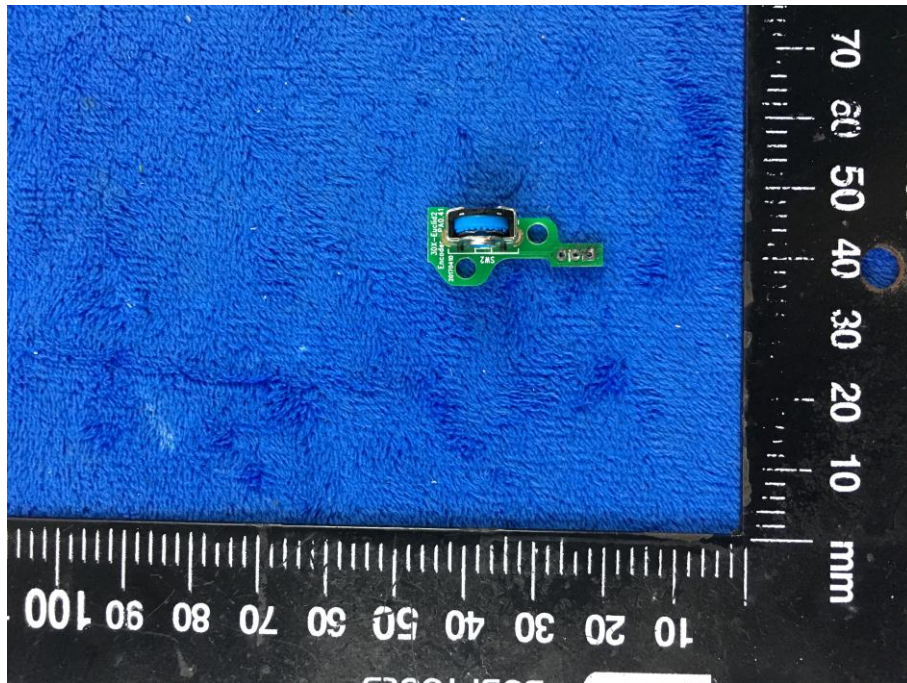
Mainboard - Front View



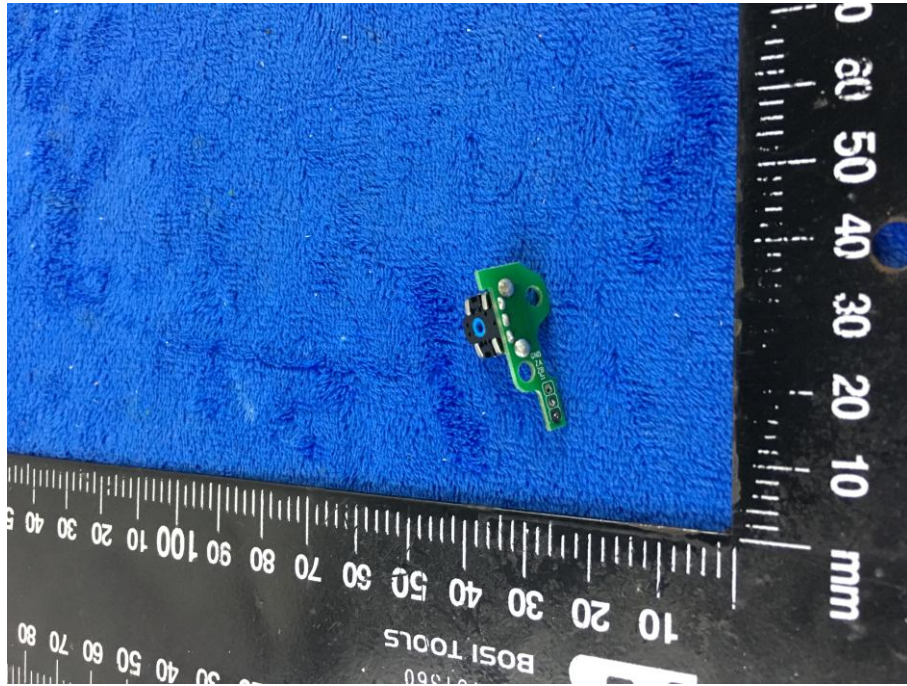
Mainboard - Rear View



Pulley board - Front View



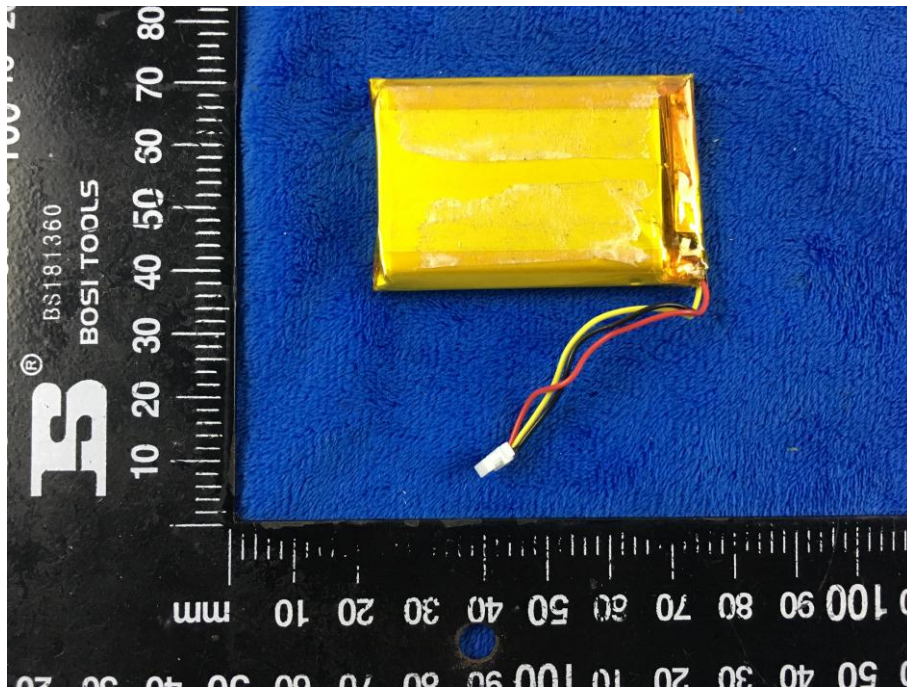
Pulley board - Rear View



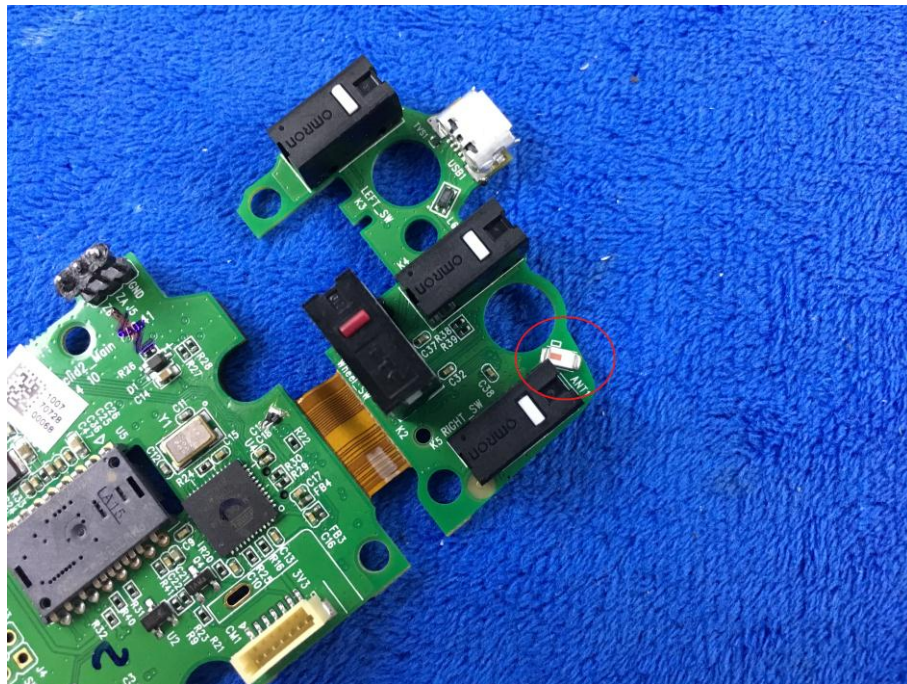
Battery - Front View



Battery - Rear View



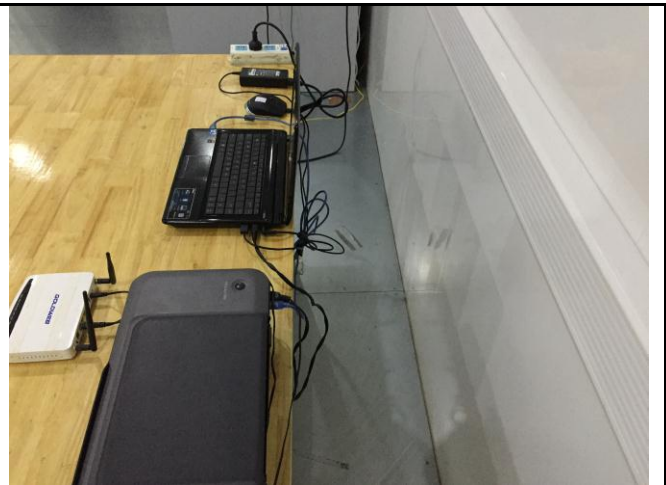
BT - Antenna View



Annex B.iii. Photograph: Test Setup Photo



Conducted Emissions Test Setup – Front View



Conducted Emissions Test Setup – Side View



Radiated Emissions Test Setup Below 1GHz

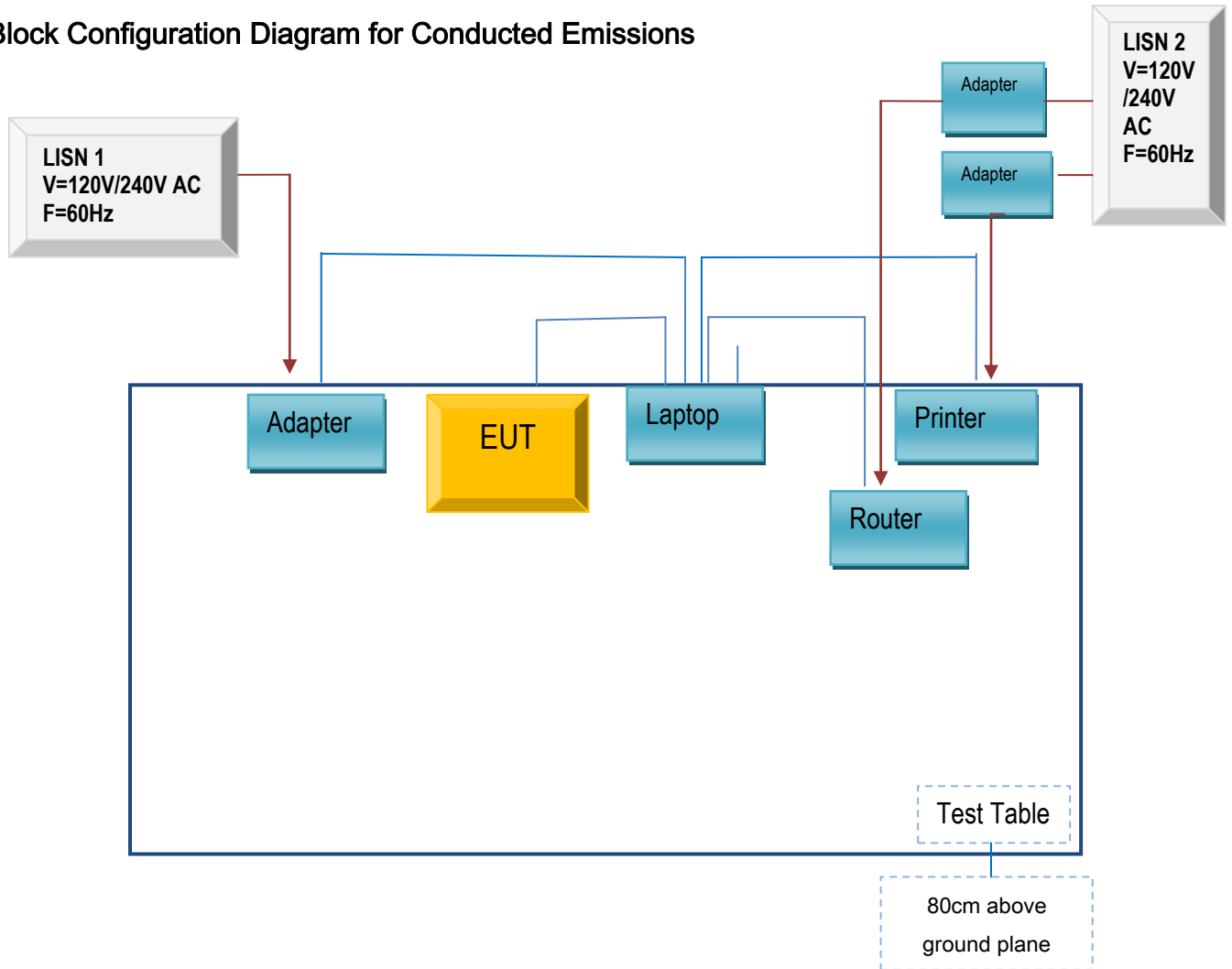


Radiated Emissions Test Setup Above 1GHz

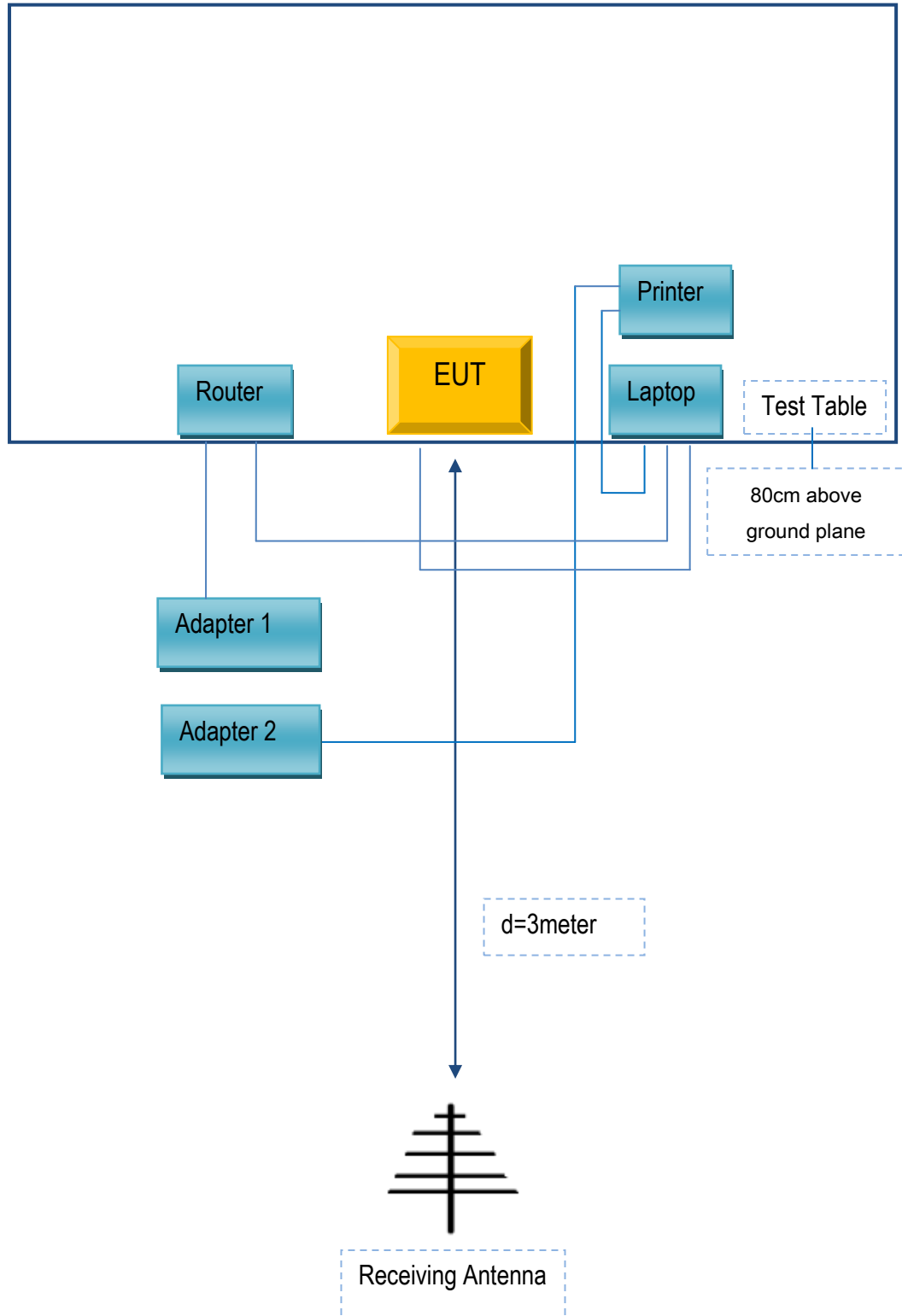
Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

Block Configuration Diagram for Conducted Emissions



Block Configuration Diagram for Radiated Emissions



Annex C. ii. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Supporting Equipment:

Manufacturer	Equipment Description	Model	Serial No
Lenovo	Laptop	E40	LR-1EHRX
GOLDWEB	Router	R102	1202032094
Lenovo	AC Adapter	42T4416	21D9JU
HP	Printer	VCVRA-1003	CN36M19JWX
DELL	Mouse	E100	912NMTUT41481
BULL	Socket	GN-403	GN201203

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	2m	N/A
USB Cable	Un-shielding	No	2m	N/A
RJ45 Cable	Un-shielding	No	2m	N/A
Router Power cable	Un-shielding	No	2m	N/A
Printer Power cable	Un-shielding	No	2m	N/A
Power Cable	Un-shielding	No	0.8m	N/A

Test Report	17070148-FCC-E
Page	33 of 34

Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see the attachment

Annex E. DECLARATION OF SIMILARITY

3D Connexion

To: SIEMIC

Declaration Letter

Dear Sir,

For our business issue and marketing requirement, we would like to list serial model numbers on The CE reports, as following:

Model No: 3DX-600054

Serial Model No: 3DX-700062

Trade Name: 3Dconnexion

We declare that : 3DX-600054, 3DX-700062 all models the same PCB and Appearance shape, accessories ,the difference of these is listed as below:

Main Model No	Serial Model No	Difference
3DX-600054	3DX-700062	3DX-600054 is Product model 3DX-700062 is Market model

Thank you!

Sincerely,

Client's signature :



Client's name: Xiaobing. lin

Title: Manager

Date:10/27/2017

Contact information : 3Dconnexion

Address : 33,Rue du Portier,9800 Monaco.