TCT 通测检测 TESTING CENTRE TECHNOLOGY

TEST REPORT

FCC ID: 2AMSRCM840G

Product: Wireless Mouse

Model No.: CM840G

Additional Model: Please refer to page 5

Trade Mark: BANRUO, COUSO, TRUST

Report No.: TCT170703E007

Issued Date: Jul. 12, 2017

Issued for:

Dongguan Couso Technology Co.,Ltd.
No.26 Minye Road, Tangxia town, Dongguang City, Guangdong Province, China.

Issued By:

Shenzhen Tongce Testing Lab.
1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China
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Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

1. Test Certification

Product:	Wireless Mouse
Model No.:	CM840G
Additional Model:	Please refer to page 5
Trade Mark:	**BANRUO, COUSO, TRUST**
Applicant:	Dongguan Couso Technology Co.,Ltd.
Address:	No.26 Minye Road, Tangxia town, Dongguang City, Guangdong Province, China
Manufacturer:	Dongguan Couso Technology Co.,Ltd.
Address:	No.26 Minye Road, Tangxia town, Dongguang City, Guangdong Province, China.
Date of Test:	Jul. 04, 2017 – Jul. 11, 2017
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.249

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By: Brews Xu ***Date:*** ***Jul. 11, 2017***

Brews Xu

Reviewed By: Joe Zhou ***Date:*** ***Jul. 12, 2017***

Joe Zhou

Approved By: Tomsin ***Date:*** ***Jul. 12, 2017***

Tomsin

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2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna Requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	N/A
Field Strength of Fundamental	§15.249 (a)	PASS
Spurious Emissions	§2.1053 §15.249 (a) (d)/ §15.209	PASS
Band Edge	§2.1053 §15.249 (d)/ §15.205	PASS
20dB Occupied Bandwidth	§2.1049 §15.215 (c)	PASS

Note:

1. Pass: Test item meets the requirement.

2. Fail: Test item does not meet the requirement.

3. N/A: Test case does not apply to the test object.

4. The test result judgment is decided by the limit of test standard.

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3. EUT Description

Product:	Wireless Mouse
Model No.:	CM840G
Additional Model:	CM800LD, CM810LD, CM820LD, CM830LD, CM840LD, CM850LD, CM860LD, CM870LD, CM880LD, CM890LD, MKS-2000, WLA-2000, WLS-2000, MKS-3000, MKS-5000, CM-5000, CM-6000, CG10LD, CG11LD, CG12LD, CG13LD, CG14LD, CG15LD, CG16LD, CG17LD, CG18LD, CG19LD, CG20LD, CG30LD, CG40LD, CG50LD, CG60LD, CG70LD, CG80LD, CG90LD, CM610LD, CM620LD, CM630LD, CM640LD, CM650LD, CM660LD, CM670LD, CM680LD, CM690LD, CM610B, CM620B, CM630B, CM640B, CM650B, CM660B, CM670B, CM680B, CM690B, CM800B, CM810B, CM820B, CM830B, CM840B, CM850B, CM860B, CM870B, CM880B, CM890B, CM800BL, CM810BL, CM820BL, CM830BL, CM840BL, CM850BL, CM860BL, CM870BL, CM880BL, CM890BL, CM891BL, CM892BL, CM893BL, CM894BL, CM895BL, CM896BL, CM897BL, CM898BL, CM899BL, CM610G, CM620G, CM630G, CM640G, CM650G, CM660G, CM670G, CM680G, CM690G, CM815G, CM810G, CM820G, CM830G, CM840G, CM850G, CM860G, CM870G, CM880G, CM890G, CM891G, CM892G, CM894G, CM895G, CM896G, CM897G, CM898G, CM898GL, CM899G, CM899GL, PC114A, CM611G, CM612G, CM613G, CM614G, CM615G, CM616G, CM617G, CM618G, CM619G, CM800G
Trade Mark:	**BANRUO, COUSO, TRUST**
Operation Frequency:	2405MHz ~ 2470MHz
Number of Channel:	8
Modulation Technology:	FSK
Antenna Type:	Internal Antenna
Antenna Gain:	2.95dBi
Power Supply:	DC 1.5V (1pcs AA Battery)
Remark:	All models above are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement.

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Operation Frequency Each of Channel

Channel	Frequency	Channel	Frequency
0	2405 MHz	4	2440 MHz
1	2413 MHz	5	2450 MHz
2	2422 MHz	6	2460 MHz
3	2430 MHz	7	2470 MHz

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2405MHz
The middle channel	2430MHz
The Highest channel	2470MHz

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4. Genera Information

4.1. Test Environment and Mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel
The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.	

4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

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5. Facilities and Accreditations

5.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC - Registration No.: 572331

  Shenzhen Tongce Testing Lab

  The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1

  The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

5.2. Location

Shenzhen Tongce Testing Lab

Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

TEL: +86-755-27673339

5.3. Measurement Uncertainty

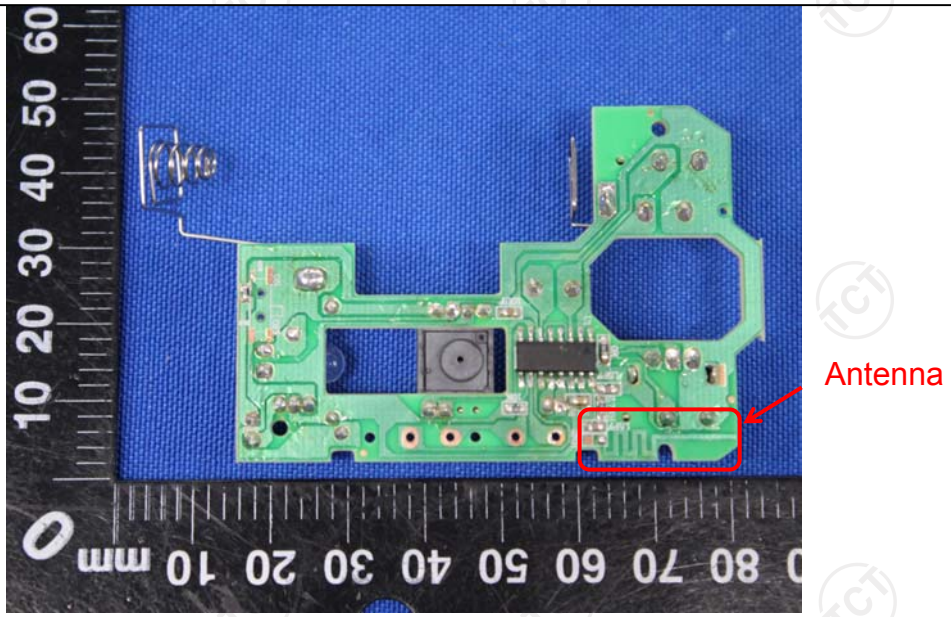
The reported uncertainty of measurement y ± U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	±2.56dB
2	RF power, conducted	±0.12dB
3	Spurious emissions, conducted	±0.11dB
4	All emissions, radiated(<1GHz)	±3.92dB
5	All emissions, radiated(>1GHz)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%

6. Test Results and Measurement Data

6.1. Antenna Requirement

Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
E.U.T Antenna:	
The EUT antenna is Internal Antenna which permanently attached, and the best case gain of the antenna is 2.95dBi.	



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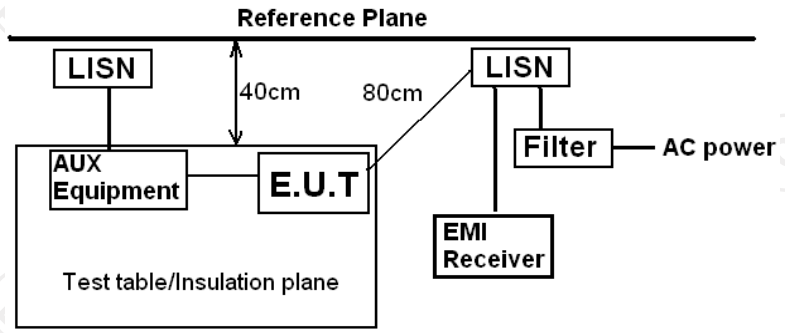
6.2.Conducted Emission

6.2.1. Test Specification

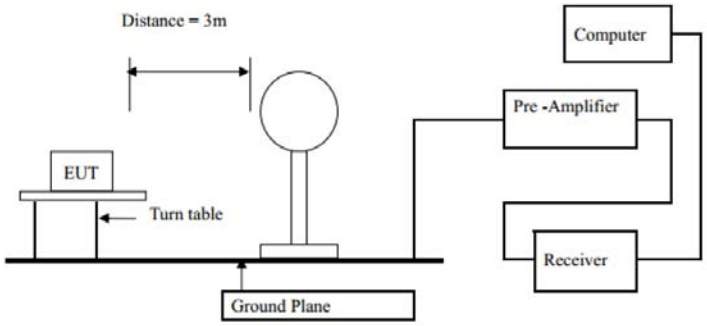
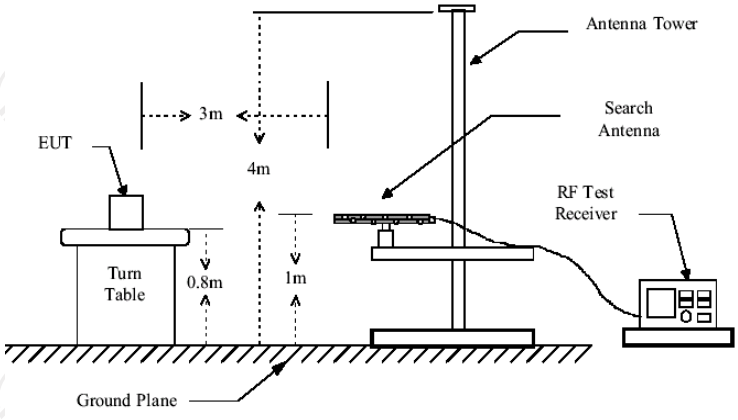
<table>
<tr><td>Test Requirement:</td><td>FCC Part15 C Section 15.207</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10:2013</td></tr>
<tr><td>Frequency Range:</td><td>150 kHz to 30 MHz</td></tr>
<tr><td>Receiver setup:</td><td>RBW=9 kHz, VBW=30 kHz, Sweep time=auto</td></tr>
<tr><td>Limits:</td><td>
<table>
<tr><td rowspan="2">Frequency range (MHz)</td><td colspan="2">Limit (dBuV)</td></tr>
<tr><td>Quasi-peak</td><td>Average</td></tr>
<tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 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>
</table>
</td></tr>
<tr><td>Test Setup:</td><td> 

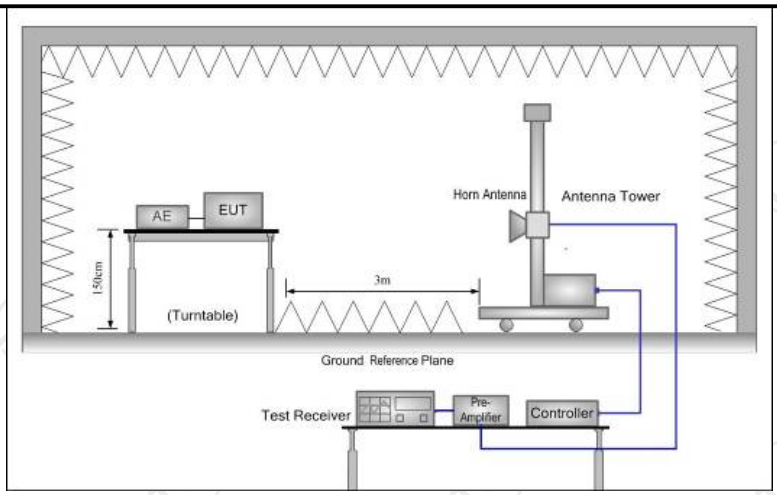
Remark:
E.U.T: Equipment Under Test
LISN: Line Impedence Stabilization Network
Test table height=0.8m</td></tr>
<tr><td>Test Mode:</td><td>Transmitting mode with modulation</td></tr>
<tr><td>Test Procedure:</td><td>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.
2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).
3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.</td></tr>
<tr><td>Test Result:</td><td>The EUT is supplied by 1.5V from AA battery, so Conducted Emission is not applicable.</td></tr>
</table>

6.3.Radiated Emission Measurement

6.3.1. Test Specification

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 C Section 15.209/ Part 2 J Section 2.1053</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10:2013</td></tr>
<tr><td>Frequency Range:</td><td>9 kHz to 25 GHz</td></tr>
<tr><td>Measurement Distance:</td><td>3 m</td></tr>
<tr><td>Antenna Polarization:</td><td>Horizontal & Vertical</td></tr>
<tr><td>Receiver Setup:</td><td>
<table>
<tr><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Remark</td></tr>
<tr><td>9kHz- 150kHz</td><td>Quasi-peak</td><td>200Hz</td><td>1kHz</td><td>Quasi-peak Value</td></tr>
<tr><td>150kHz-30MHz</td><td>Quasi-peak</td><td>9kHz</td><td>30kHz</td><td>Quasi-peak Value</td></tr>
<tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>120kHz</td><td>300kHz</td><td>Quasi-peak Value</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr>
<tr><td>Peak</td><td>1MHz</td><td>10Hz</td><td>Average Value</td></tr>
</table>
</td></tr>
<tr><td>Limit(Field strength of the fundamental signal):</td><td>
<table>
<tr><td>Frequency</td><td>Limit (dBuV/m @3m)</td><td>Remark</td></tr>
<tr><td rowspan="2">2400MHz-2483.5MHz</td><td>94.00</td><td>Average Value</td></tr>
<tr><td>114.00</td><td>Peak Value</td></tr>
</table>
</td></tr>
<tr><td>Limit(Spurious Emissions):</td><td>
<table>
<tr><td>Frequency</td><td>Limit (dBuV/m @3m)</td><td>Remark</td></tr>
<tr><td>0.009-0.490</td><td>2400/F(KHz)</td><td>Quasi-peak Value</td></tr>
<tr><td>0.490-1.705</td><td>24000/F(KHz)</td><td>Quasi-peak Value</td></tr>
<tr><td>1.705-30</td><td>30</td><td>Quasi-peak Value</td></tr>
<tr><td>30MHz-88MHz</td><td>40.0</td><td>Quasi-peak Value</td></tr>
<tr><td>88MHz-216MHz</td><td>43.5</td><td>Quasi-peak Value</td></tr>
<tr><td>216MHz-960MHz</td><td>46.0</td><td>Quasi-peak Value</td></tr>
<tr><td>960MHz-1GHz</td><td>54.0</td><td>Quasi-peak Value</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>54.0</td><td>Average Value</td></tr>
<tr><td>74.0</td><td>Peak Value</td></tr>
</table>
</td></tr>
<tr><td>Limit (band edge) :</td><td>Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.</td></tr>
<tr><td>Test Procedure:</td><td>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber in below 1GHz, 1.5m above the ground in above 1GHz. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and</td></tr>
</table>

	vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test setup:	For radiated emissions below 30MHz  30MHz to 1GHz  Above 1GHz (The diagram below shows the test setup that is utilized to make the measurements for emission from 1GHz to the tenth harmonic of the highest fundamental frequency or to 40GHz emissions, whichever is lower.)

	
Test results:	PASS

6.3.2. Test Instruments

Radiated Emission Test Site (966)				
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Due**
Test Receiver	ROHDE&SCHWARZ	ESVD	100008	Oct. 13, 2017
Spectrum Analyzer	ROHDE&SCHWARZ	FSQ	200061	Oct. 13, 2017
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Oct. 13, 2017
Pre-amplifier	HP	8447D	2727A05017	Oct. 13, 2017
Loop antenna	ZHINAN	ZN30900A	12024	Oct. 13, 2017
Broadband Antenna	Schwarzbeck	VULB9163	340	Oct. 13, 2017
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Oct. 13, 2017
Horn Antenna	Schwarzbeck	BBH 9170	582	Jun. 07, 2018
Antenna Mast	Keleto	CC-A-4M	N/A	N/A
Coax cable (9KHz-1GHz)	TCT	RE-low-01	N/A	Oct. 13, 2017
Coax cable (9KHz-40GHz)	TCT	RE-high-02	N/A	Oct. 13, 2017
Coax cable (9KHz-1GHz)	TCT	RE-low-03	N/A	Oct. 13, 2017
Coax cable (9KHz-40GHz)	TCT	RE-high-04	N/A	Oct. 13, 2017
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

Note: *The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).*

6.3.3. Test Data

Field Strength of Fundamental

Frequency (MHz)	Emission PK (dBuV/m)	Horizontal /Vertical	Limits PK (dBuV/m)	Margin (dB)
2405	83.26	H	114	-30.74
2405	76.28	V	114	-37.72
2430	83.90	H	114	-30.10
2430	76.12	V	114	-37.88
2470	82.64	H	114	-31.36
2470	77.21	V	114	-36.79

Frequency (MHz)	Emission AV (dBuV/m)	Horizontal /Vertical	Limits AV (dBuV/m)	Margin (dB)
2405	81.07	H	94	-12.93
2405	74.13	V	94	-19.87
2430	78.94	H	94	-15.06
2430	73.97	V	94	-20.03
2470	80.14	H	94	-13.86
2470	74.81	V	94	-19.19

Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBμV/m)	Limit@3m (dBμV/m)
--	--	--
--	--	--
--	--	--
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Note: *1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor*

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement

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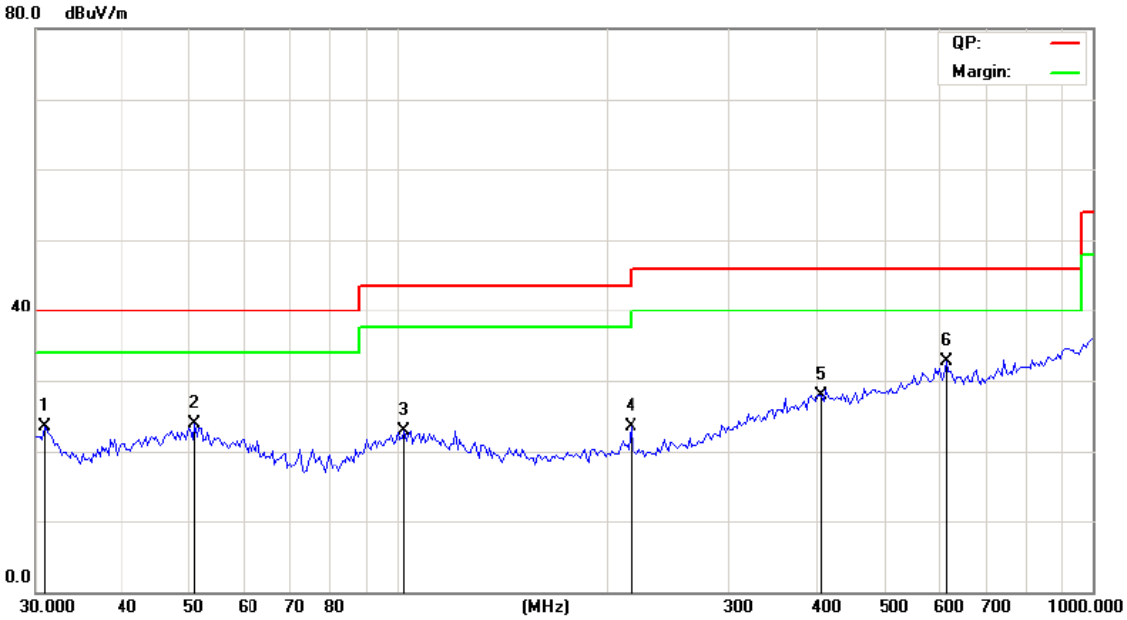
Frequency Range (30MHz-1GHz)

Horizontal:

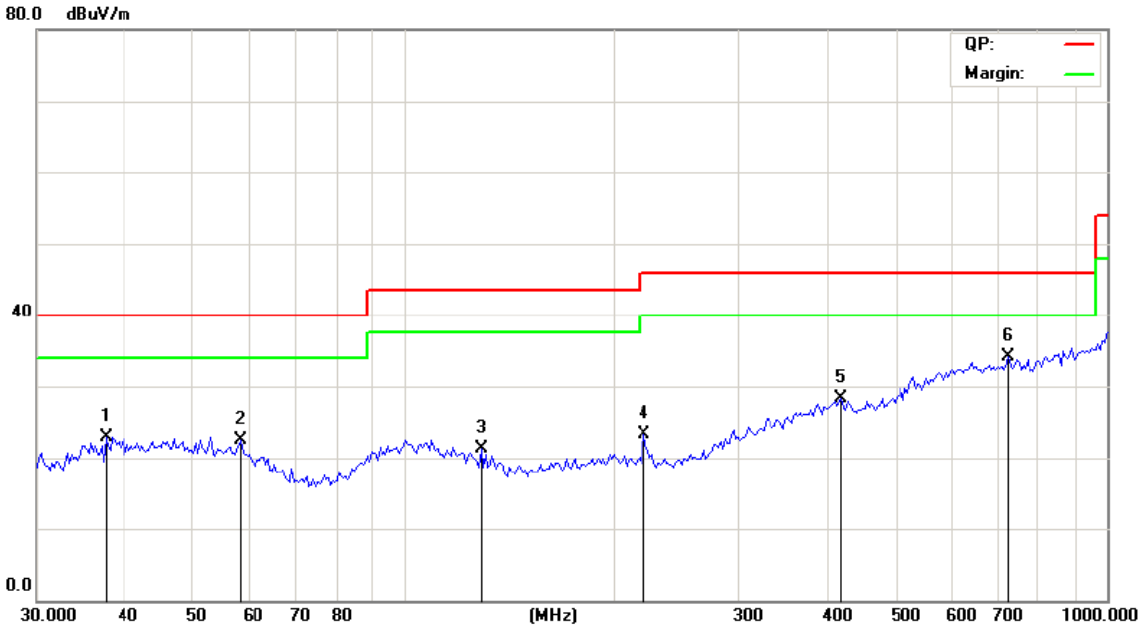


Site Chamber #2 Polarization: ***Horizontal*** Temperature: 25 (C)

Limit: FCC Part 15B Class B 3M Radiation Power: DC 1.5V Humidity: 55 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		30.8551	31.51	-7.94	23.57	40.00	-16.43	QP	
2		50.8171	30.79	-6.81	23.98	40.00	-16.02	QP	
3		101.8931	29.46	-6.53	22.93	43.50	-20.57	QP	
4		216.1194	32.50	-9.07	23.43	46.00	-22.57	QP	
5		406.7819	29.49	-1.51	27.98	46.00	-18.02	QP	
6	*	615.7743	30.05	2.58	32.63	46.00	-13.37	QP	

Vertical:



Site Chamber #2 Polarization: *Vertical* Temperature: 25 (C)

Limit: FCC Part 15B Class B 3M Radiation Power: DC 1.5V Humidity: 55 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		37.5647	30.25	-7.28	22.97	40.00	-17.03	QP	
2		58.4855	29.77	-7.33	22.44	40.00	-17.56	QP	
3		128.4858	31.18	-9.92	21.26	43.50	-22.24	QP	
4		219.1785	32.32	-9.07	23.25	46.00	-22.75	QP	
5		418.3783	29.83	-1.59	28.24	46.00	-17.76	QP	
6	*	723.7930	29.79	4.35	34.14	46.00	-11.86	QP	

Note: *Measurements were conducted in all channels (high, middle, low), and the worst case (low channel) was submitted only.*

Above 1GHz

Low channel: 2405MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
2387.50	H	52.62	---	-4.2	48.28	---	74.00	54.00	-5.72
4810.00	H	51.51	---	-3.94	47.41	---	74.00	54.00	-6.59
7215.00	H	49.73	---	0.52	49.55	---	74.00	54.00	-4.45
---	---	---	---	---	---	---	---	---	---
2387.50	V	50.45	---	-4.2	46.05	---	74.00	54.00	-7.95
4810.00	V	48.49	---	3.94	52.33	---	74.00	54.00	-1.67
7215.00	V	46.20	---	0.52	46.85	---	74.00	54.00	-7.15
---	---	---	---	---	---	---	---	---	---

Middle channel: 2430MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4860.00	H	52.37	---	-3.98	48.18	---	74.00	54.00	-5.82
7290.00	H	49.41	---	0.57	49.84	---	74.00	54.00	-4.16
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
4860.00	V	51.69		-3.98	47.28		74.00	54.00	-6.72
7290.00	V	49.74		0.57	49.62		74.00	54.00	-4.38
---	---	---	---	---	---	---	---	---	---
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High channel: 2470MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
2486.58	H	51.49	---	-2.38	49.47	---	74.00	54.00	-4.53
4940.00	H	53.37	---	-3.98	49.03	---	74.00	54.00	-4.97
7410.00	H	48.25	---	0.57	49.26	---	74.00	54.00	-4.74
---	---	---	---	---	---	---	---	---	---
2483.51	V	51.15	---	-2.38	48.66	---	74.00	54.00	-5.34
4940.00	V	51.70	---	-3.98	47.64	---	74.00	54.00	-6.36
7410.00	V	50.60	---	0.57	50.94	---	74.00	54.00	-3.06
---	---	---	---	---	---	---	---	---	---

Note:

1. *Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier*
2. *Margin (dB) = Emission Level (Peak) (dBμV/m)-Average limit (dBμV/m)*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
4. *Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.*
5. *Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.*

Band Edge Requirement

Low channel: 2405 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
2400	H	49.16	---	-4.2	44.96	---	74.00	---	-29.04
2400	H	---	42.56	-4.2	---	38.36	---	54.00	-15.64
---	---	---	---	---	---	---	---	---	---
2400	V	48.65	---	-4.2	44.45	---	74.00	---	-29.55
2400	V	---	39.74	-4.2	---	35.54	---	54.00	-18.46
---	---	---	---	---	---	---	---	---	---

High channel: 2470 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
2483.5	H	50.87	---	-4.2	46.67	---	74.00	---	-27.33
2483.5	H	---	41.65	-4.2	---	37.45	---	54.00	-16.57
---	---	---	---	---	---	---	---	---	

2483.5	V	49.41	---	-4.20	45.21	---	74.00	---	-28.79
2483.5	V	---	40.86	-4.2	---	36.66	---	54.00	-17.34
---	---	---	---	---	---	---	---	---	---

Note:

1. *Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier*
2. *Margin (dB) = Emission Level (Peak/Average)(dBμV/m)-(Peak/Average) limit (dBμV/m)*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
4. *Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.*
5. *Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.*

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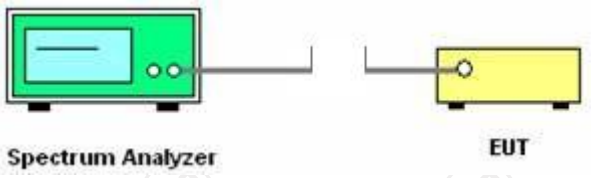
6.4.20dB Occupied Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.215(c)/ Part 2 J Section 2.1049
Test Method:	ANSI C63.10: 2013
Limit:	N/A
	1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; RBW≥1% of the 20 dB bandwidth; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. 4. Measure and record the results in the test report.
Test setup:	
Test Mode:	Transmitting mode with modulation
Test results:	PASS

6.4.2. Test Instruments

RF Test Room				
Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Due**
Spectrum Analyzer	R&S	FSU	200054	Oct. 13, 2017

Note: *The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).*

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6.4.3. Test data

Test Channel	20dB Occupy Bandwidth (kHz)	Limit	Conclusion
Lowest	2620.19	---	PASS
Middle	2572.12	---	PASS
Highest	2636.22	---	PASS

Test plots as follows:

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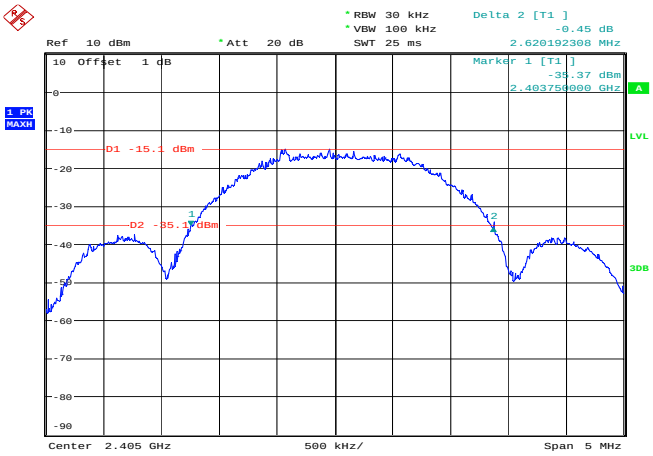
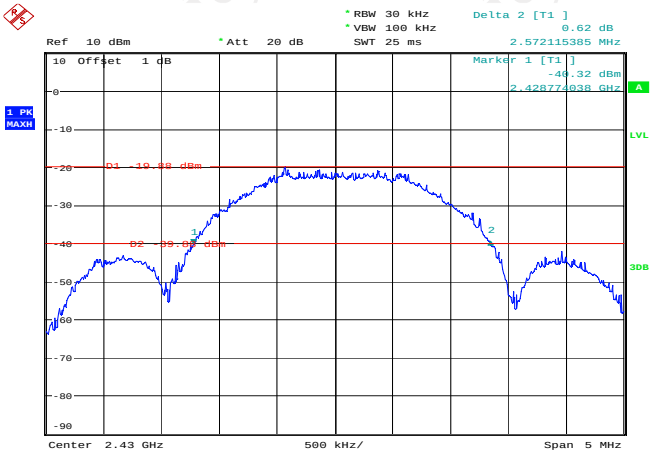
Lowest channel



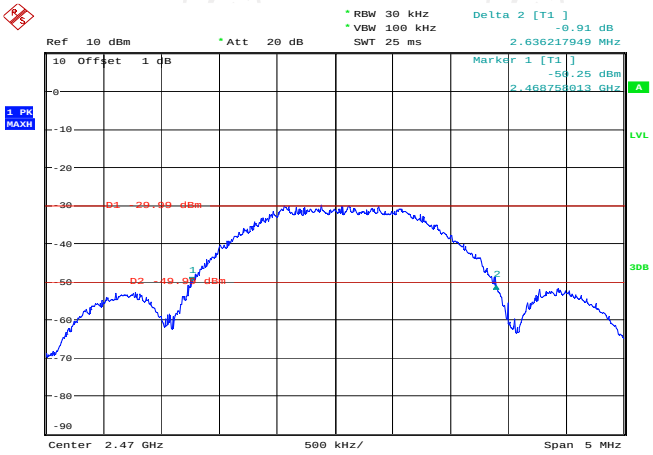
Date: 5.JUL.2017 18:52:56

Middle channel



Date: 5.JUL.2017 18:54:40

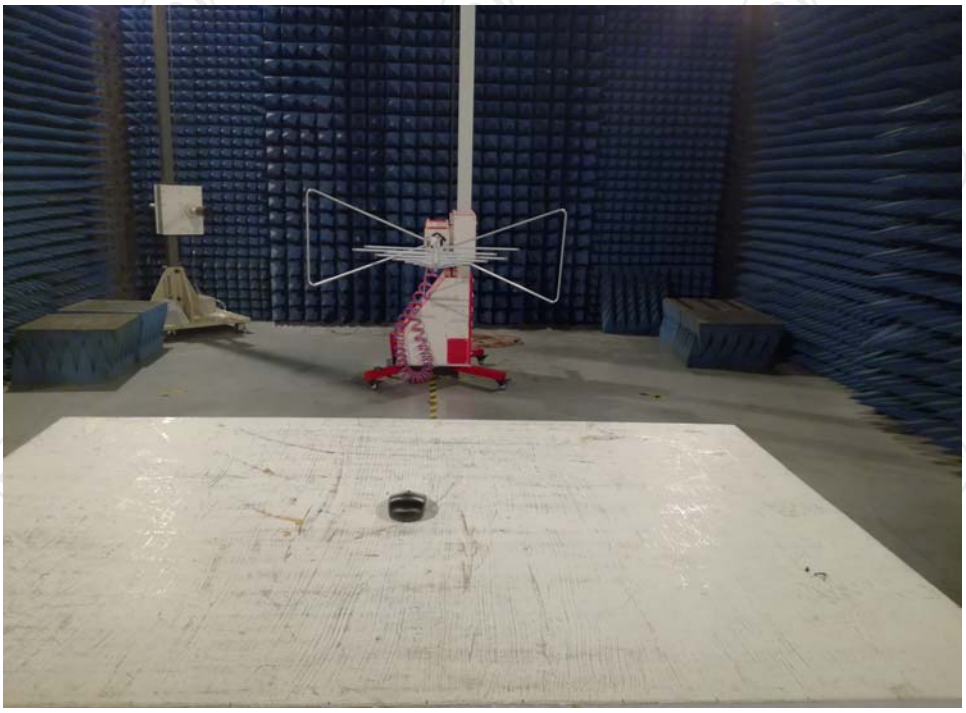
Highest channel

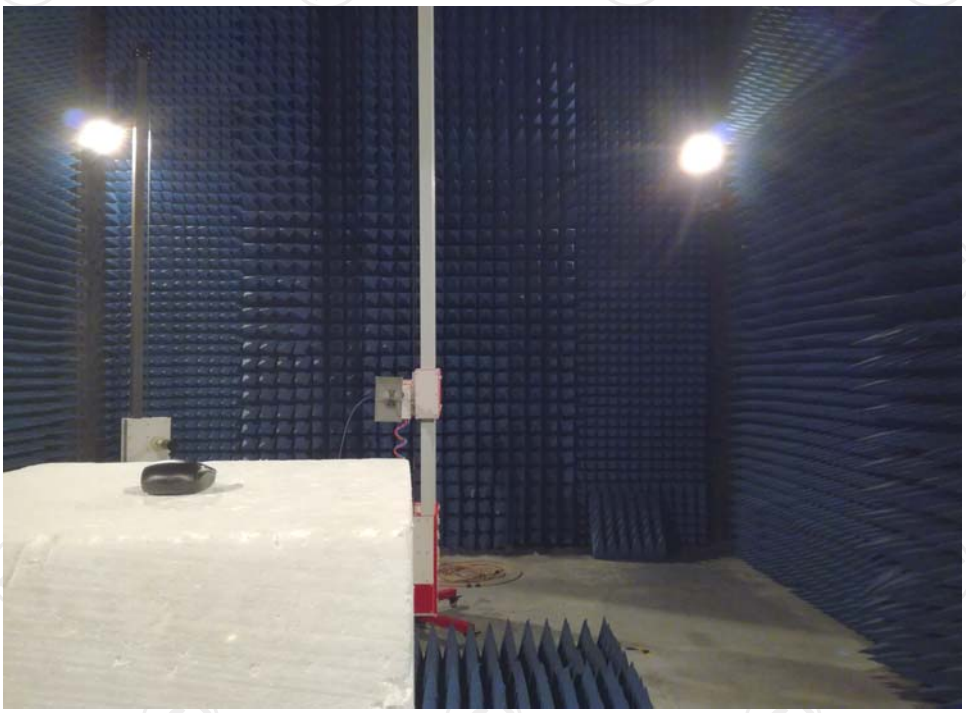


Date: 5.JUL.2017 18:47:25

Appendix A: Photographs of Test Setup

Product: Wireless Mouse
Model: CM840G
Radiated Emission





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Appendix B: Photographs of EUT

Product: Wireless Mouse

Model: CM840G

External Photos

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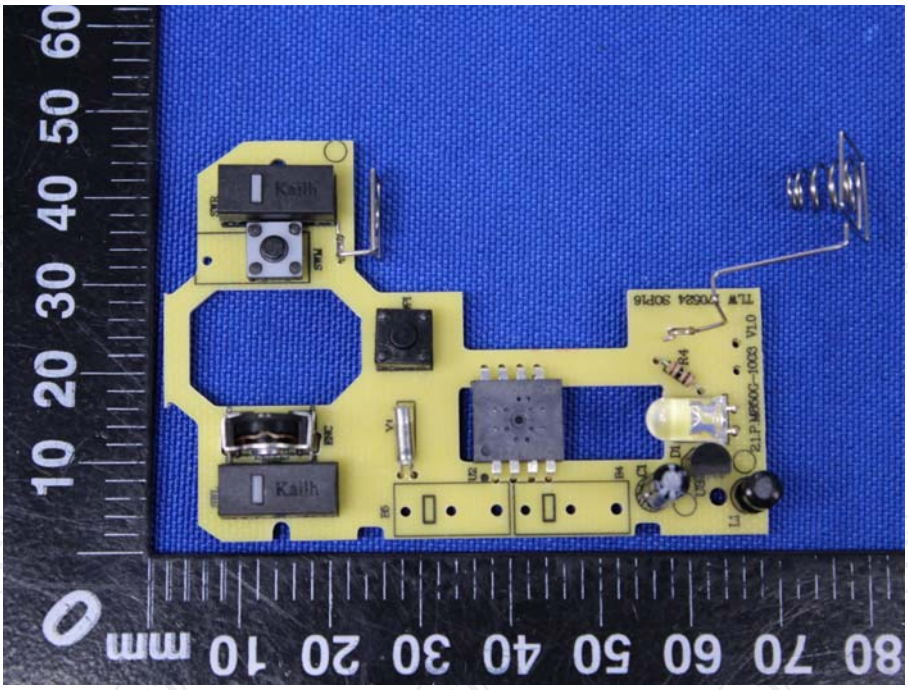
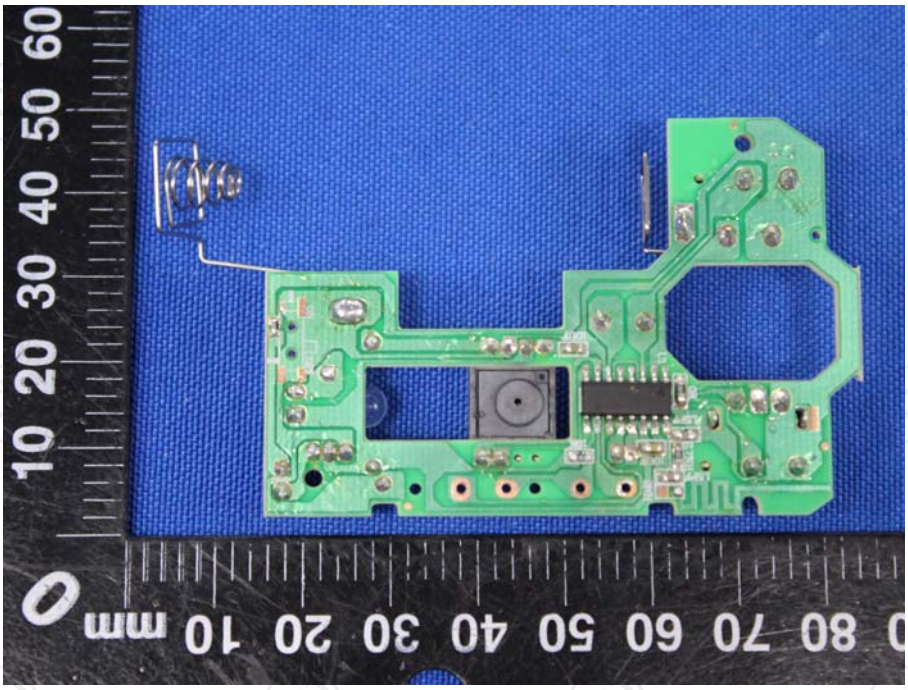
Product: Wireless Mouse
Model: CM840G
Internal Photos





*****END OF REPORT*****

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