

# **TEST REPORT**

FCC ID: 2AMSRCS4200G

**Product: Wireless Mouse** 

Model No.: CS-4200G

Additional Model: Please refer to page 5

Trade Mark: BANRUO, COUSO

Report No.: TCT180612E012

Issued Date: Jul. 06, 2018

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

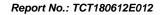
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### 1. Test Certification

Product:	Wireless Mouse	
Model No.:	CS-4200G	Ć
Additional Model:	Please refer to page 5	
Trade Mark:	BANRUO, COUSO	
Applicant:	Dongguan Couso Technology Co., Ltd.	
Address:	No.26 Minye Road, Tangxia town, Dongguang City, Guangdong Province, China	S
Manufacturer:	Dongguan Couso Technology Co., Ltd.	
Address:	No.26 Minye Road, Tangxia town, Dongguang City, Guangdong Province, China	
Date of Test:	Jun. 13, 2018 – Jul. 05, 2018	
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.249	C

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:	Des	Date:	Jul. 05, 2018
	Rleo	(A	(0)
Reviewed By:	Bery There	Date:	Jul. 06, 2018
	Beryl Zhao		
Approved By:	Tomsin	Date:	Jul. 06, 2018
(,0)	Tomsin	7	(C)





# 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		
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.





# 3. EUT Description

Product:	Wireless Mouse
Model No.:	CS-4200G
Additional Model:	CS1000G, CS2000G, CS3000G, CS4000G, CS4100G, CS4300G, CS4400G, CS4500G, CS4600G, CS4700G, CS4300G, CS4400G, CS4500G, CS5000G, CS5100G, CS5200G, CS5300G, CS5400G, CS5500G, CS5600G, CS5700G, CS5800G, CS5900G, CS5000G, CS6000G, CS6200G, CS6300G, CS6400G, CS6500G, CS6600G, CS6700G, CS6800G, CS6400G, CS6500G, CS6600G, CS6700G, CS6800G, CS6900G, CS7000G, CS7200G, CS7300G, CS7400G, CS7500G, CS7100G, CS7200G, CS7300G, CS7400G, CS7500G, CS7600G, CS7700G, CS7800G, CS7400G, CS7500G, CS8000G, CS8100G, CS8200G, CS8300G, CS8400G, CS8500G, CS8000G, CS8700G, CS8300G, CS8400G, CS8500G, CS800G, CS9200G, CS9300G, CS9900G, CS9500G, CK410G, CK410G, CK420G, CK470TL, CS4570G, CS4380G, CK490G, CK450G, CK450G, CK450G, CK450G, CK450G, CK450G, CK450G, CK50G, CK600G, CK601G, CK920G, CK921G, CK923G, CK927G, CK930G, CK940G, CK920G, CK921G, CM623G, CM624G, CM625G, CM624G, C
Trade Mark:	BANRUO, COUSO
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	2408 - 2474MHz
Number of Channel:	34



Modulation Technology:	FSK
Antenna Type:	PCB Antenna
Antenna Gain:	2dBi
Power Supply:	DC 3V
Remark:	All models above are identical in interior structure, electrical circuits and components, and just colors of appearance are different for the marketing requirement.

Operation Frequency Each of Channel

Default Frequency Each of Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2408MHz	10	2428 MHz	20	2448 MHz	30	2468 MHz
1	2410 MHz	11	2430 MHz	21	2450 MHz	31	2470 MHz
2	2412 MHz	12	2432 MHz	22	2452 MHz	32	2472 MHz
3	2414 MHz	13	2434 MHz	23	2454 MHz	33	2474 MHz
4	2416 MHz	14	2436 MHz	24	2456 MHz		
5	2418 MHz	15	2438 MHz	25	2458 MHz	(C)	(¿C
6	2420 MHz	16	2440 MHz	26	2460 MHz		
7	2422 MHz	17	2442 MHz	27	2462 MHz		
8	2424 MHz	18	2444 MHz	28	2464 MHz		
9	2426 MHz	19	2446 MHz	29	2466 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	2408MHz
The middle channel	2440MHz
The Highest channel	2474MHz







## 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
1	1	) /	(6) 1	

#### 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.





### 5. Facilities and Accreditations

#### 5.1. Facilities

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

• FCC - Registration No.: 645098

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  $y \pm U$ , 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

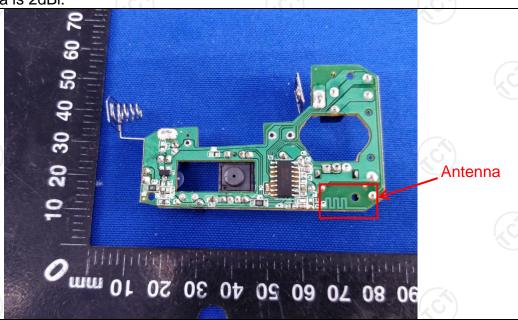
**Standard requirement:** FCC Part15 C Section 15.203

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 PCB antenna which permanently attached, and the best case gain of the antenna is 2dBi.





# **6.2.Conducted Emission**

# 6.2.1. Test Specification

Took Doming was to	ECO Dent4E O Oe (1)	45.007	Ke	
Test Requirement:	FCC Part15 C Section 15.207			
Test Method:	ANSI C63.10:2013			
Frequency Range:	150 kHz to 30 MHz			
Receiver setup:	RBW=9 kHz, VBW=30	RBW=9 kHz, VBW=30 kHz, Sweep time=auto		
	Frequency range	Limit (	(dBuV)	
	(MHz)	Quasi-peak	Áverage	
Limits:	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	
	5-30	60	50	
	Refere	ence Plane		
Test Setup:	AUX Equipment  Test table/Insulation pla  Remark: E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Test table height=0.8m	J.T EMI Receiver	Iter — AC power	
Test Mode:	Transmitting mode with modulation			
Test Procedure:	1. The E.U.T and simulation power through a line (L.I.S.N.). This proimpedance for the magnetic power through a Line coupling impedance refer to the block photographs).  3. Both sides of A.C. conducted interferer emission, the relative the interface cables ANSI C63.10:2013 of the conducted interface.	e impedance stale ovides a 500hm easuring equipm ces are also connumbers with 500hm term diagram of the line are checkinge. In order to five positions of equals must be changed.	bilization network n/50uH coupling nent. ected to the main s a 50ohm/50uH mination. (Please test setup and led for maximum and the maximum uipment and all of ged according to	
Test Result:	N/A; Because the EUT item is not applicable.	is powered by th	ne battery, so the	



# 6.3. Radiated Emission Measurement

# 6.3.1. Test Specification

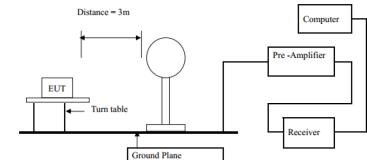
Test Requirement:	FCC Part15	C Section	า 15.209/	Part 2 J	Section 2.1053					
Test Method:	ANSI C63.10:2013									
Frequency Range:	9 kHz to 25 GHz 3 m									
Measurement Distance:										
Antenna Polarization:	Horizontal & Vertical  Frequency Detector RBW VBW Remark									
	9kHz- 150kHz	kHz- 150kHz Quasi-peak		1kHz	Quasi-peak Value					
Receiver Setup:	150kHz- 30MHz 30MHz-1GHz	Quasi-peak  Quasi-peak	9kHz 120kHz	30kHz 300kHz	Quasi-peak Value  Quasi-peak Value					
	Above 1GHz	Peak Peak	1MHz 1MHz	3MHz 10Hz	Peak Value Average Value					
Limit(Field strength of the fundamental signal):	Freque 2400MHz-24		Limit (dBu\ 94. 114	00	Remark Average Value Peak Value					
Limit(Spurious Emissions):	Freque 0.009-0 0.490-1 1.705 30MHz-8 88MHz-2 216MHz-9 960MHz	0.490 1.705 -30 88MHz 16MHz 960MHz -1GHz	Limit (dBuV/m @3m) 2400/F(KHz) 24000/F(KHz) 30 40.0 43.5 46.0 54.0		Remark Quasi-peak Value Average Value Peak Value					
Limit (band edge) :	bands, excelleast 50 dB	ept for har below the diated em	monics, s level of thission lin	the spe shall be a he funda nits in S	cified frequency attenuated by at mental or to the Section 15.209,					
Test Procedure:	meters a below 1 GHz. determing 2. The Elementer on the to 3. The anter meters a value o	above the IGHz, 1.5 The table he the position of a vare above the field of the fiel	ground a om above was ro ition of the set 3 n ving anter iable-heig to is varied ground to d strengt	at a 3 me e the gr otated 3 e highest neters a nna, whice ght anten d from or determinent.	away from the ch was mounted					



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.

#### For radiated emissions below 30MHz

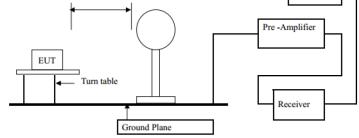


#### 30MHz to 1GHz

# Antenna Tower Search Antenna EUT RF Test Turn Table *'''''''''* Ground Plane

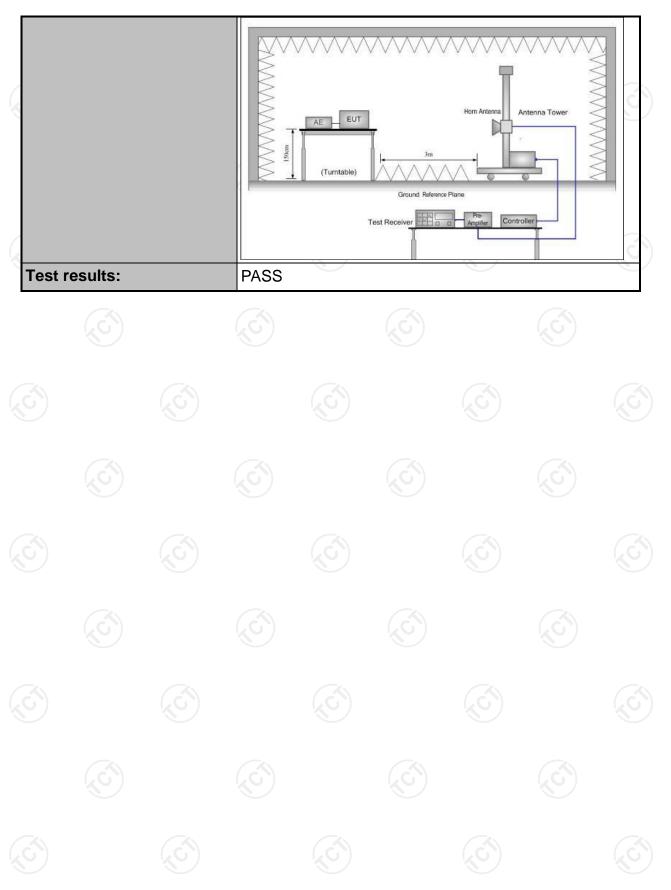
#### Above 1GHz

(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 setup:









#### 6.3.2. Test Instruments

	Radiated Em	ission Test Si	te (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Sep. 27, 2018
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ	200061	Sep. 27, 2018
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 27, 2018
Pre-amplifier	HP	8447D	2727A05017	Sep. 27, 2018
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 27, 2018
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 27, 2018
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 27, 2018
Horn Antenna	Schwarzbeck	BBH 9170	582	Sep. 27, 2018
Antenna Mast	Keleto	CC-A-4M	N/A	N/A
Coax cable (9KHz-1GHz)	ТСТ	RE-low-01	N/A	Sep. 27, 2018
Coax cable (9KHz-40GHz)	тст	RE-high-02	N/A	Sep. 27, 2018
Coax cable (9KHz-1GHz)	тст	RE-low-03	N/A	Sep. 27, 2018
Coax cable (9KHz-40GHz)	тст	RE-high-04	N/A	Sep. 27, 2018
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)
2408	86.34	Н	114	-27.66
2408	76.48	V	114	-37.52
2440	86.47	Н	114	-27.53
2440	75.74	V	114	-38.26
2474	86.62	(C)H	114	-27.38
2474	75.99	V	114	-38.01

Frequency (MHz)	Emission AV (dBuV/m)	Horizontal /Vertical	Limits AV (dBuV/m)	Margin (dB)
2408	84.89	Н	94	-9.11
2408	73.62	(c)V	94	-20.38
2440	85.03	Н	94	-8.97
2440	73.49	V	94	-20.51
2474	84.94	Н	94	-9.06
2474	72.97	V	94	-21.03

#### **Spurious Emissions**

### Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
(¿C` <del>`)</del> -	((C))	<del>-(</del> ,C')
<u></u>		
(A)		- C

Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

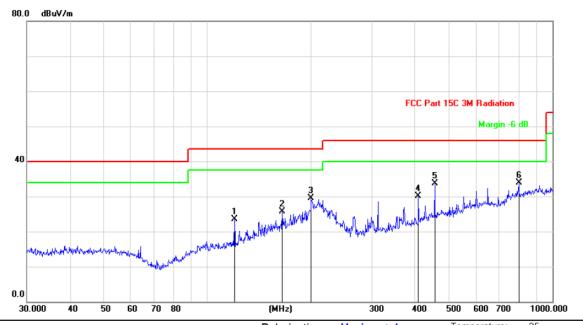
2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement

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#### Frequency Range (30MHz-1GHz)

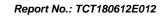
#### Horizontal:



Site Polarization: Horizontal Temperature: 25
Limit: FCC Part 15C 3M Radiation Power: DC 1.5V For Mouse Humidity: 55 %

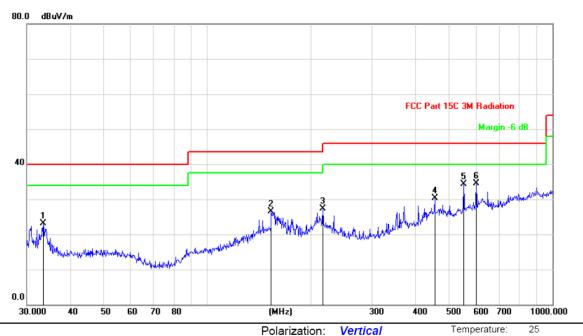
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1		119.8556	37.57	-14.16	23.41	43.50	-20.09	peak			
2		164.9075	40.68	-14.90	25.78	43.50	-17.72	peak			
3		199.9856	42.25	-12.74	29.51	43.50	-13.99	peak			
4		408.9460	35.73	-5.56	30.17	46.00	-15.83	peak			
5		455.9058	38.01	-4.29	33.72	46.00	-12.28	peak			
6	*	798.9797	31.98	1.88	33.86	46.00	-12.14	peak			







#### Vertical:



Site Polarization: Vertical Temperature: 25
Limit: FCC Part 15C 3M Radiation Power: DC 1.5V For Mouse Humidity: 55 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1		33.4449	36.48	-13.46	23.02	40.00	-16.98	peak			
2	1	153.2004	42.06	-15.61	26.45	43.50	-17.05	peak			
3	2	216.0240	39.42	-12.12	27.30	46.00	-18.70	peak			
4	4	155.9058	34.53	-4.29	30.24	46.00	-15.76	peak			
5	5	552.8832	36.14	-1.87	34.27	46.00	-11.73	peak			
6	* 6	01.4265	35.29	-0.75	34.54	46.00	-11.46	peak			

**Note:** 1, Measurements were conducted in all channels (high, middle, low), and the worst case (middle channel) was submitted only.

2, Any value more than 10dB below limit have not been specifically reported.





#### **Above 1GHz**

	*** * * ******************************											
	Low channel: 2408MHz											
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)			
2387.5	Н	52.62		-4.2	48.28		74.00	54.00	-5.72			
4816.00	Н	51.51		-3.94	47.41		74.00	54.00	-6.59			
7224.00	Н	49.73		0.52	49.55		74.00	54.00	-4.45			
2387.5	CV	50.45	-420	-4.2	46.05	(O <del>-)-</del>	74.00	54.00	-7.95			
4816.00	V	48.49		3.94	52.33	<u></u>	74.00	54.00	-1.67			
7224.00	V	46.20		0.52	46.85		74.00	54.00	-7.15			

			N	liddle chann	el: 2440M	Hz			
Eroguenov	Ant Dol	Peak	AV	Correction	rrection Emission Level		Peak limit	۸\/ limit	Morgin
Frequency (MHz)	H/V	reading	reading	Factor	Peak	// //		(dBµV/m)	Margin
(IVIIIZ)	□/ V	(dBµV)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(ασμν/ιιι)	(ασμ ν/ιιι)	(dB)
4880.00	H	52.37	-t.c	-3.98	48.18	(C)\-	74.00	54.00	-5.82
7320.00	H	49.41		0.57	49.84	<u></u>	74.00	54.00	-4.16
Z\		/ <del></del> /\			X				
( )		('C')			(``(		('C')		
4880.00	V	51.69		-3.98	47.28		74.00	54.00	-6.72
7320.00	V	49.74		0.57	49.62		74.00	54.00	-4.38
	4			·					
	(0)		-170	)		(O-J			

	High channel: 2474MHz												
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)				
2486.58	Н	51.49		-2.38	49.47		74.00	54.00	-4.53				
4948.00	Н	53.37		-3.98	49.03		74.00	54.00	-4.97				
7422.00	Н	48.25		0.57	49.26		74.00	54.00	-4.74				
			(.c			.C.3-		<del>[-</del> -					
2483.51	V	51.15		-2.38	48.66		74.00	54.00	-5.34				
4948.00	V	51.70		-3.98	47.64		74.00	54.00	-6.36				
7422.00	V	50.60		0.57	50.94		74.00	54.00	-3.06				
(C)		(,C) )		(20	(``ن		(ZG.)		{ <sub>Z</sub> C				

#### Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2.  $Margin (dB) = Emission Level (Peak) (dB\mu V/m)-Average limit (dB\mu V/m)$
- 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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#### **Band Edge Requirement**

Low chann	el: 2408 M	1Hz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
2400	Н	49.13	/	-4.2	44.93		74.00		-29.07
2400	Н		42.56	-4.2		38.36		54.00	-15.64
2400	V	48.61	(	-4.2	44.41		74.00	(.3)	-29.59
2400	V		39.78	-4.2		35.58		54.00	-18.42

High chann	High channel: 2474MHz												
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)				
2483.5	H	50.84		-4.2	46.64	-	74.00		-27.36				
2483.5	( H )		41.63	-4.2		37.43		54.00	-16.57				
			\	<b></b>									
2483.5	V	49.39		-4.2	45.19		74.00		-28.81				
2483.5	V		40.82	-4.2		36.62		54.00	-17.38				
70 <u></u>		-120	/	\	<u></u>		40		\				

#### Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2.  $Margin (dB) = Emission Level (Peak/Average)(dB\mu V/m)-(Peak/Average) limit (dB\mu V/m)$
- 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.





# 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		
	<ol> <li>According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>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.     </li> <li>Measure and record the results in the test report.</li> </ol>		
Test setup:	Spectrum Analyzer EUT		
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	Agilent	N9020A	MY49100060	Sep. 27, 2018	

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

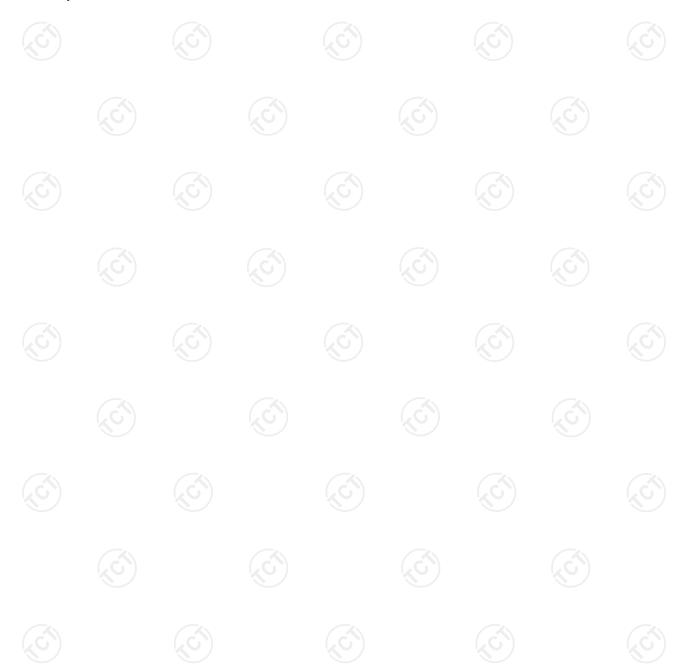




#### 6.4.3. Test data

Test Channel	20dB Occupy Bandwidth (kHz)	Limit	Conclusion
Lowest	2069		PASS
Middle	2075		PASS
Highest	2076	(E)	PASS

#### Test plots as follows:



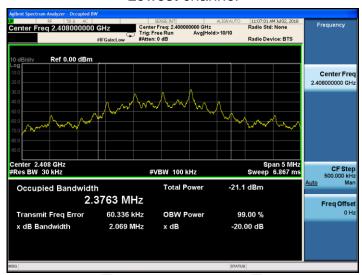
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Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

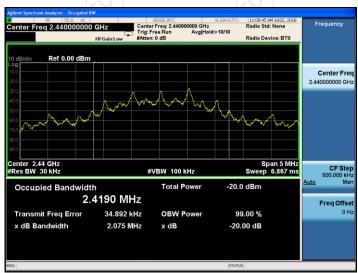




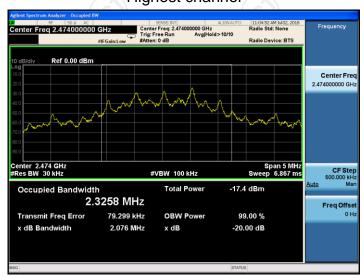
#### Lowest channel



#### Middle channel



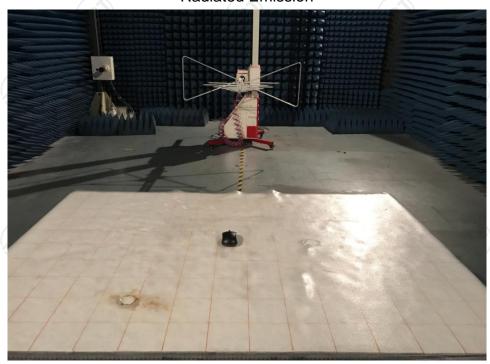
#### Highest channel

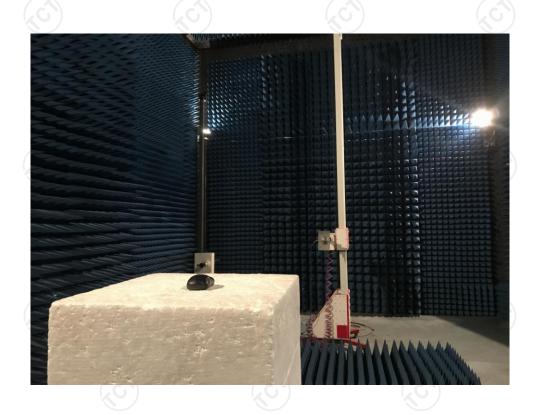




# Appendix A: Photographs of Test Setup Product: Wireless Mouse

Product: Wireless Mouse Model: CS-4200G Radiated Emission







# **Appendix B: Photographs of EUT**

Product: Wireless Mouse Model: CS-4200G External Photos











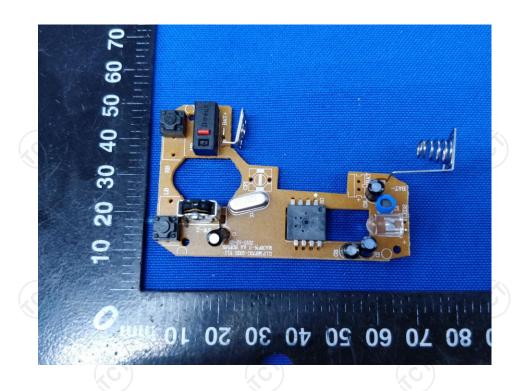


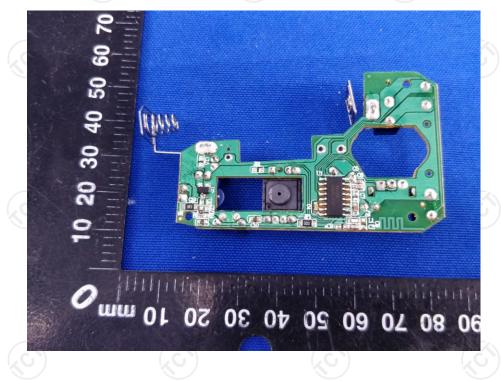
Product: Wireless Mouse Model: CS-4200G Internal Photos















# \*\*\*\*\*END OF REPORT\*\*\*\*

