FCC COMPLIANCE REPORT

for

Chuangfeng Electronics Co.,Ltd

Wireless Optical Mouse

Model Number: KM-8907W

Prepared for: Chuangfeng Electronics Co.,Ltd

Huali Industrial Zone, Songbotang, Changping Town, Dongguan

Address : City, Guangdong, China

Prepared By: NS Technology Co., Ltd.

Address : Chenwu Industrial Zone, Houjie Town, Dongguan City,

Guangdong, China

Tel: +86-769-85935656 Fax: +86-769-85991080

Report Number: NSE-F09124196

Date of Test : Nov. 7,~ Dec. 3, 2009

Date of Report : Dec. 7, 2009

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NS Technology Co., Ltd.

Applicant: Chuangfeng Electronics Co.,Ltd

Address:
Huali Industrial Zone, Songbotang, Changping Town, Dongguan City,

Guangdong, China

Manufacturer: Chuangfeng Electronics Co.,Ltd

Address:
Huali Industrial Zone, Songbotang, Changping Town, Dongguan City,

Guangdong, China

E.U.T: Wireless Optical Mouse

Model Number: KM-8907W

Trade Name: ---- **Operating Frequency:** 2405MHz~2476MHz

Date of Receipt: Nov. 6, 2009 **Date of Test:** Nov. 7,~ Dec. 3, 2009

Test Specification: FCC Part 15 Subpart C: July. 10, 2008

ANSI C63.4:2003

Test Result: The equipment under test was found to be compliance with the requirements of

the standards applied.

Issue Date: Dec. 7,2009

Tested by: Reviewed by: Approved by:

Jade Lumenten

Jade/ Engineer Iceman Hu / Supervisor Steven Lee / Manager

Other Aspects:

None.

Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested

This test report is based on a single evaluation of one sample of above mentioned products, It is not permitted to be duplicated in extracts without written approval of NS Technology Co., Ltd.

1. GENERAL PRODUCT INFORMATION

1.1. Product Function

Details please refer to Technical Construction Form and User Manual.

1.2. Description of Device (EUT)

E.U.T. : Wireless Optical Mouse

Model No. : KM-8907W Operating Frequency : 2405~2476MHz

Number of Channels : 32 channels hopping with 2 group form 2.405GHz ~

2.476GHz.

Type of Modulation : GFSK Antenna Type : Integral

System Input Voltage : Nominal Voltage: DC 1.5V

Temperature Range(Operating) : $0 \sim +40^{\circ}$ C

Channel frequency:

Freque	Frequency Group1		Frequency Group2		
2407	2442	2405	2443		
2408	2447	2406	2444		
2412	2451	2409	2446		
2414	2452	2410	2448		
2417	2457	2411	2449		
2420	2458	2413	2453		
2421	2459	2415	2455		
2422	2460	2416	2456	(MII-)	
2427	2461	2418	2462	(MHz)	
2428	2465	2419	2463		
2431	2468	2423	2464		
2435	2469	2425	2466		
2436	2472	2429	2467		
2437	2473	2430	2470		
2438	2475	2432	2471		
2439	2476	2434	2474		

1.3. Difference between Model Numbers

1.4. Independent Operation Modes

The basic operation modes are:

1.4.1. Low Channel TX 2405MHz1.4.2. Middle Channel TX 2442MHz1.4.3.; High Channel TX 2476MHz

2. TEST SITES

2.1. Test Facilities

EMC Lab : Certificated by TUV Rheinland, Germany.

Date of registration: July 28, 2003

Certificated by FCC, USA Registration No.: 502831

Date of registration: February 09, 2009

Certificated by VCCI, Japan

Registration No.: R-2527 & C-2770 Date of registration: March 23, 2007

Certificated by CNAL, CHINA

Registration No.: L1744

Date of registration: November 25, 2004

Certificated by Intertek ETL SEMKO

Registration No.: TMP-013

Date of registration: June 11, 2005

Certificated by TUV/PS, Hong Kong Date of registration: December 1, 2005

Certificated by Industry Canada

Registration No.: 5936A

Date of registration: March 4, 2009

Certificated by ATCB, America Date of registration: August 03, 2006

Name of Firm : NS Technology Co., Ltd.

Site Location : Chenwu Industrial Zone, Houjie Town, Dongguan City,

Guangdong, China

2.2. List of Test and Measurement Instruments

2.2.1.For radiated emission test (30MHz-1GHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESCS30	100340	May 31,09	May 31,10
Spectrum Analyzer	HP	8593E	3448U00806	May 31,09	May 31,10
Bilog Antenna	Teseq	CBL 6111D	25758	Oct. 27,09	Oct. 27,10
Signal Amplifier	Agilent	8447D	2944A10488	May 2,09	May 2,10
50Ω Coaxial Switch	ANRITSU	MP59B	6200530577	May 2,09	May 2,10
RF Cable	IMRO	IMRO-400	966 Cable 1#	May 2,09	May 2,10
RF Cable	DRAKA	M17/84-RG 223	966 Cable 2#	May 2,09	May 2,10

2.2.2.For radiated emission test(1GHz-25GHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	HP	8593E	3448U00806	May 31,09	May 31,10
Horn Antenna	EMCO	3117	00062558	Jan. 19,09	Jan. 19,11
Signal Amplifier	BURGEON	PEC-38-30M18G	NSEMC001	May 31,09	May 31,11
		-12-SFF		-	-
RF Cable	DRAKA	M06/25-RG102	966Cable 3#24G	May 2,09	May 2,10

2.2.3. For Band edge compliance and 20dB bandwidth test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESCS30	100340	May 31,09	May 31,10
Spectrum Analyzer	HP	8593E	3448U00806	May 31,09	May 31,10
Bilog Antenna	Teseq	CBL 6111D	25758	Oct. 27,09	Oct. 27,10
Signal Amplifier	Agilent	8447D	2944A10488	May 2,09	May 2,10
50Ω Coaxial Switch	ANRITSU	MP59B	6200530577	May 2,09	May 2,10
RF Cable	IMRO	IMRO-400	966 Cable 1#	May 2,09	May 2,10
RF Cable	DRAKA	M17/84-RG 223	966 Cable 2#	May 2,09	May 2,10

3. TEST SET-UP AND OPERATION MODES

3.1. Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its highest possible radiated level. The test modes were adapted accordingly in reference to the Operating Instructions.

3.2. Block Diagram of Test Set-up

System Diagram of Connections Between EUT and Simulators

EUT

(EUT: Wireless Optical Mouse)

3.3. Test Operation Mode and Test Software Refer to clause 1.4

- 3.4. Special Accessories and Auxiliary Equipment None.
- 3.5. Countermeasures to Achieve EMC Compliance None.

4. TEST SUMMARY

Test items and result lists

No.	Item	Standard	Results
1	Conduction Emission Test	FCC Part15C: 15.209 ANSI C63.4-2003	N/A
2	Radiated Emission Test	FCC Part15C: 15.249 ANSI C63.4-2003	PASS
3	Band Edge Compliance Test	FCC Part15: 15.249	PASS
4	20dB Bandwidth Test	FCC Part 15: 15.215	PASS

Note: N/A is an abbreviation for Not Applicable.

5. EMISSION TEST RESULTS

5.1. Radiated Emission

5.1.1. Test limits

- 1) FCC part 15C section 15.209
- 2) FCC part 15C section 15.249(a)

5.1.2. Test procedure

The EUT was placed on a turn table which was 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna which was mounted on a antenna tower. At the frequency band of 30MHz to 1GHz, The measuring antenna moved up and down to find out the maximum emission level. It moved from 1 to 4 m for horizontal and vertical polarizations. The broadband antenna (calibrated by dipole antenna) was used as a receiving antenna. At the frequency band of 1GHz to 25GHz, The measuring antenna moved from 1 to 4 m for horizontal and vertical polarization. The horn antenna was used as a receiving antenna.

The resolution bandwidth and video bandwidth of the test receiver was 120 kHz and 300kHz for Quasi-peak detection at frequency below 1GHz.

The resolution bandwidth and video bandwidth of the test receiver was 1MHz and 1MHz for Peak detection at frequency above 1GHz.

For Average measurement at frequency above 1GHz. The resolution bandwidth of the test receiver was 1MHz; due to the shortest pulse width T is 116us, according the video bandwidth should not smaller than 1/T, so the video bandwidth is 10Hz.

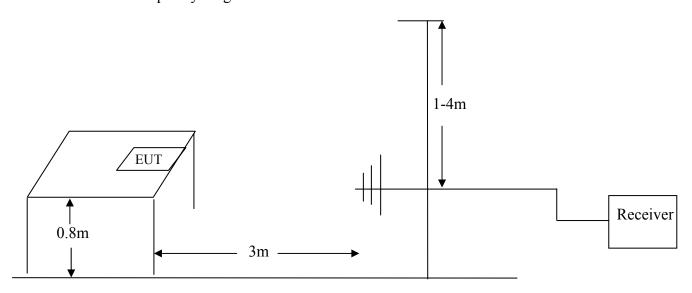
In 18GHz to 25GHz, The EUT was checked by Horn ANT. But the test result is background.

The EUT position(X. Y. Z) were checked and worse case was happened in Y position. So Y position was chose for find measurement.

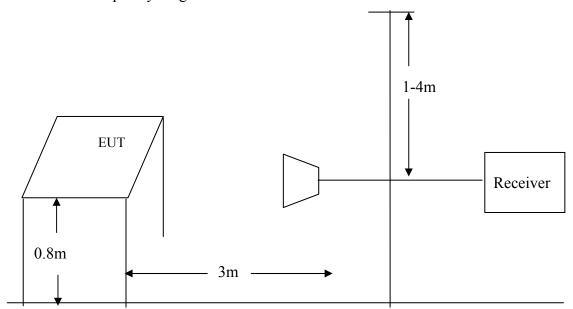
The EUT was tested in Chamber Site.

5.1.3.Test Setup Diagram

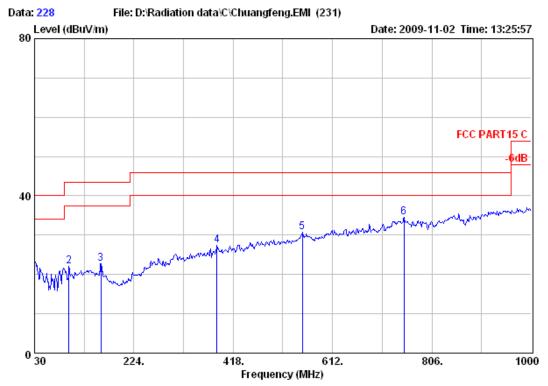
5.1.3.1. Frequency range: 30MHz-1000MHz



5.1.3.2. Frequency range: 1 GHz -25GHz



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Test Site : 966 Chamber Limit : FCC PART15 C

Dis. / Ant. : 3m 25758-3 Ant. Pol.: HORIZONTAL

EUT : Wireless Optical Mouse

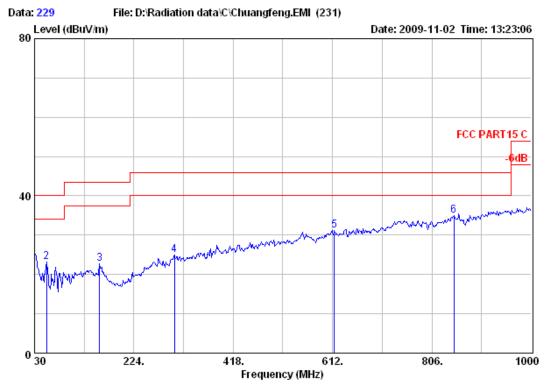
M/N : KM-8907W Power : DC 1.5V Test Engineer : Jade

Comment : Temp.:25.2'C Humi.:55%

Test Mode : TX Mode

	Freq.	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
1	30.00	23.49	40.00	16.51	1.91	21.00	0.58	QP
2	96.93	22.11	43.50	21.39	11.08	10.00	1.03	QP
3	159.98	22.69	43.50	20.81	10.53	10.80	1.36	QP
4	385.99	27.48	46.00	18.52	9.18	16.18	2.12	QP
5	552.83	30.75	46.00	15.25	8.29	19.85	2.61	QP
6	751.68	34.62	46.00	11.38	8.37	23.22	3.03	QP

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Test Site : 966 Chamber Limit : FCC PART15 C

Dis. / Ant. : 3m 25758-3 Ant. Pol.: VERTICAL

EUT : Wireless Optical Mouse

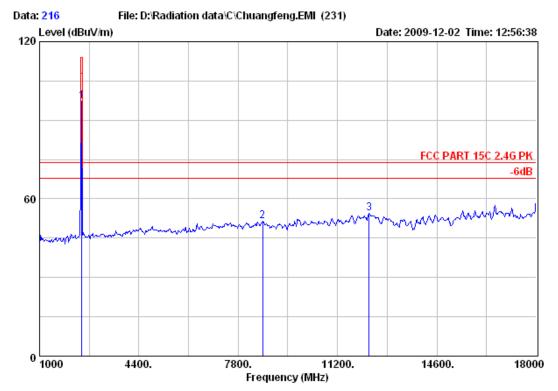
M/N : KM-8907W Power : DC 1.5V Test Engineer : Jade

Comment : Temp.:25.2'C Humi.:55%

Test Mode : TX Mode

	Freq.	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
1	30.00	25.48	40.00	14.52	3.90	21.00	0.58	QP
2	53.28	23.17	40.00	16.83	14.62	7.86	0.69	QP
3	157.07	22.71	43.50	20.79	10.44	10.92	1.35	QP
4	303.54	24.95	46.00	21.05	9.44	13.62	1.89	QP
5	615.88	31.13	46.00	14.87	7.75	20.62	2.76	QP
6	848.68	34.96	46.00	11.04	7.92	23.77	3.27	QP

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: 966 Chamber Test Site

: FCC PART 15C 2.4G PK Limit

Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL

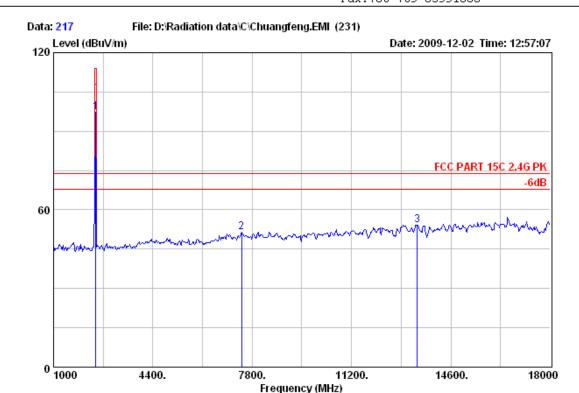
EUT : Wireless Optical Mouse

: KM-8907W M/N : DC 1.5V Power Test Engineer : Jade

: Temp.:25.2'C Humi.:55% Comment : Temp.:25.2'C H
Test Mode : TX Mode 2442MHz

Freq. (MHz)	Emission Level (dBuV/m)	Limits (dBuV/m)	_	_		Cable Loss (dB)	Remark
1 2442.00	97.35	114.00	16.65	63.58	31.54	2.62	Peak
2 8633.00	51.31	74.00	22.69	11.74	36.95		Peak
312288.00	54.44	74.00	19.56	11.68	39.92		Peak

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: 966 Chamber Test Site

: FCC PART 15C 2.4G PK Limit

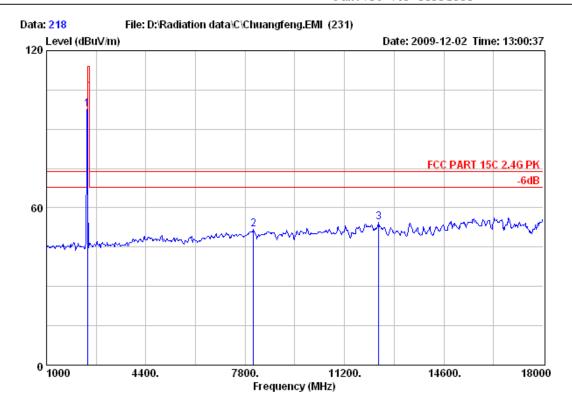
Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL

EUT : Wireless Optical Mouse

: KM-8907W M/N Power : DC 1.5V Test Engineer : Jade

		Emission				Ant.	Cable	
	Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
-								
	1 2442.00	97.43	114.00	16.57	63.66	31.54	2.23	Peak
	2 7443.00	51.39	74.00	22.61	12.04	36.81	2.54	Peak
	313444.00	54.24	74.00	19.76	10.94	40.39	2.91	Peak

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: 966 Chamber Test Site

: FCC PART 15C 2.4G PK Limit

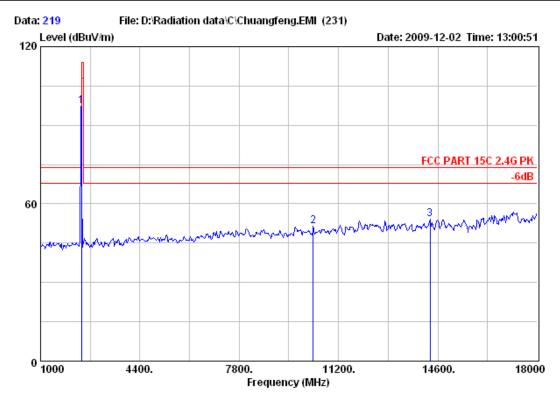
Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL

EUT : Wireless Optical Mouse

: KM-8907W M/N Power : DC 1.5V Test Engineer : Jade

		Emission				Ant.	Cable	
	Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
-								
	1 2405.00	97.58	114.00	16.42	63.85	31.50	2.23	Peak
	2 8089.00	51.80	74.00	22.20	12.24	36.98	2.58	Peak
	312373.00	54.35	74.00	19.65	11.56	39.95	2.84	Peak

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: 966 Chamber Test Site

: FCC PART 15C 2.4G PK Limit

Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL

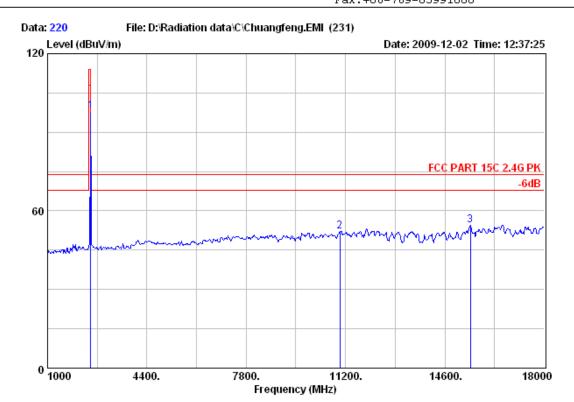
EUT : Wireless Optical Mouse

: KM-8907W M/N : DC 1.5V Power Test Engineer : Jade

: Temp.:25.2'C Humi.:55% Comment : Temp.:25.2'C H
Test Mode : TX Mode 2405MHz

Freq. (MHz)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)		Cable Loss (dB)	Remark
1 2405.00	97.40	114.00	16.60	63.67	31.50		Peak
210333.00	51.43	74.00	22.57	10.51	38.20		Peak
314328.00	54.13	74.00	19.87	10.75	40.42		Peak

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: 966 Chamber Test Site

: FCC PART 15C 2.4G PK Limit

Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL

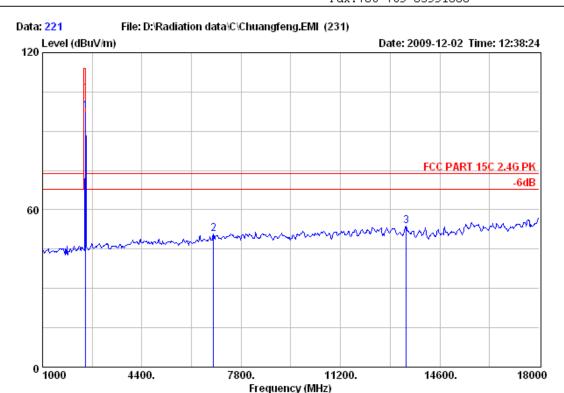
EUT : Wireless Optical Mouse

: KM-8907W M/N : DC 1.5V Power Test Engineer : Jade

: Temp.:25.2'C Humi.:55% Comment : Temp.:25.2'C H
Test Mode : TX Mode 2476MHz

	Emission				Ant.	Cable	
Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
1 2476.00	97.92	114.00	16.08	64.11	31.58	2.23	Peak
211013.00	52.18	74.00	21.82	11.09	38.33	2.76	Peak
315467.00	54.48	74.00	19.52	9.80	41.65	3.03	Peak

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: 966 Chamber Test Site

: FCC PART 15C 2.4G PK Limit

Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL

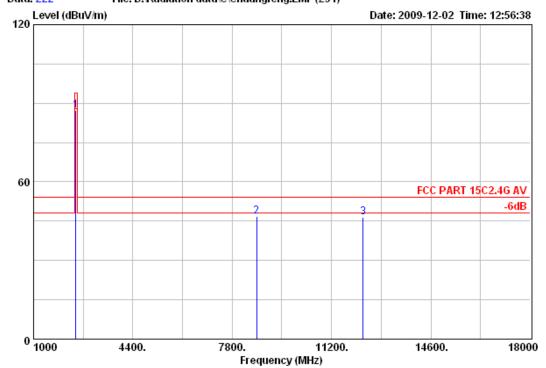
EUT : Wireless Optical Mouse

: KM-8907W M/N : DC 1.5V Power Test Engineer : Jade

	Emission				Ant.	Cable	
Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
1 2476.00	97.59	114.00	16.41	63.78	31.58	2.23	Peak
2 6848.00	50.81	74.00	23.19	11.50	36.81	2.50	Peak
313444.00	53.79	74.00	20.21	10.49	40.39	2.91	Peak

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: 966 Chamber Test Site

: FCC PART 15C2.4G AV Limit

Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL

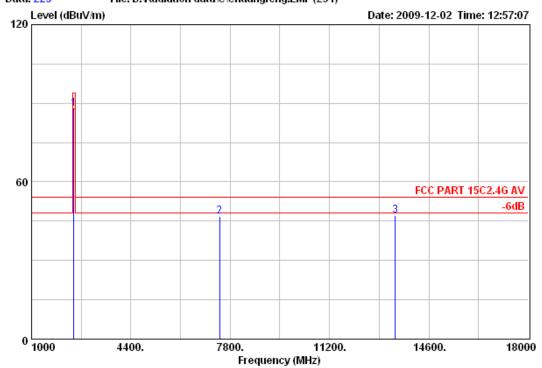
EUT : Wireless Optical Mouse

: KM-8907W M/N Power : DC 1.5V Test Engineer : Jade

Remark	Cable Loss (dB)	Ant. Factor (dB/m)	Reading (dBuV)	_	Limits (dBuV/m)	Emission Level (dBuV/m)	Freq. (MHz)
		31.54 36.95	53.49 7.06	6.74 7.37	94.00 54.00	87.26 46.63	1 2442.00 2 8633.00
_			3 76		54 00	46 52	312288 00

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Test Site : 966 Chamber Limit : FCC PART 15C2.4G AV

Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL

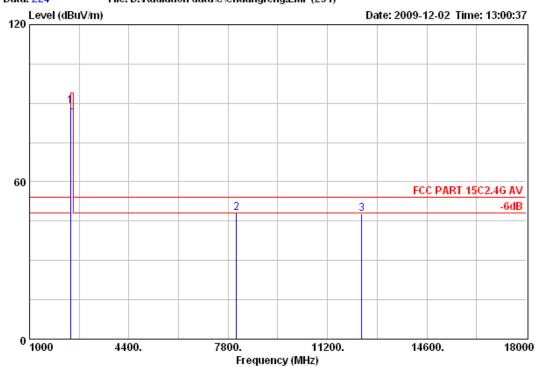
EUT : Wireless Optical Mouse

: KM-8907W M/N Power : DC 1.5V Test Engineer : Jade

Freq. (MHz)	Emission Level (dBuV/m)	Limits (dBuV/m)	_	Reading (dBuV)		Cable Loss (dB)	Remark
1 2442.00 2 7443.00	87.85 46.94	94.00 54.00	6.15 7.06	54.08 7.59	31.54 36.81	2.23	Average Average
313444.00	47.26	54.00	6.74	3.96	40.39	2.91	Average

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: 966 Chamber Test Site

Limit : FCC PART 15C2.4G AV

Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL

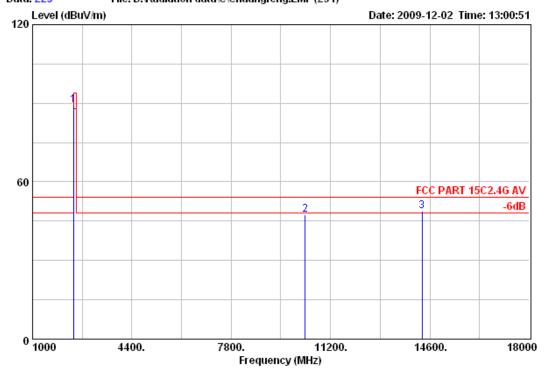
EUT : Wireless Optical Mouse

: KM-8907W M/N : DC 1.5V Power Test Engineer : Jade

Remark	Cable Loss (dB)		Reading (dBuV)	_	Limits (dBuV/m)	Emission Level (dBuV/m)	Freq. (MHz)
Average		31.50		4.94	94.00	89.06	1 2405.00
Average	2.58	30.98 39.95		5.75 6 14	54.00 54.00	48.25 47.86	2 8089.00 312373 00

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Test Site : 966 Chamber Limit : FCC PART 15C2.4G AV

Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL

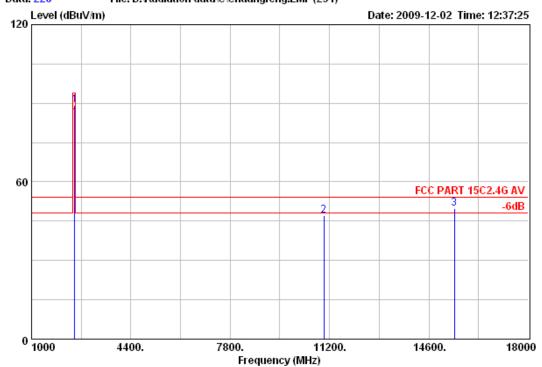
EUT : Wireless Optical Mouse

: KM-8907W M/N : DC 1.5V Power Test Engineer : Jade

	Cable	Ant.				Emission	
Remark	Loss	Factor	Reading	Margin	Limits	Level	Freq.
	(dB)	(dB/m)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(MHz)
Average	2.23	31.50	55.51	4.76	94.00	89.24	1 2405.00
Average	2.72	38.20	6.57	6.51	54.00	47.49	210333.00
Average	2.96	40.42	5.26	5.36	54.00	48.64	314328.00

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Test Site : 966 Chamber Limit : FCC PART 15C2.4G AV

Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL

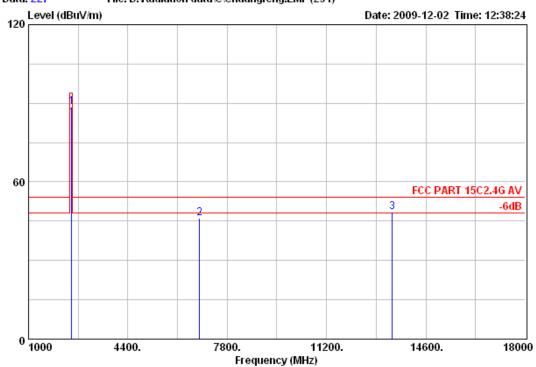
EUT : Wireless Optical Mouse

: KM-8907W M/N : DC 1.5V Power Test Engineer : Jade

		Emission				Ant.	Cable	
	Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
-								
	1 2476.00	89.26	94.00	4.74	55.45	31.58	2.23	Average
	211013.00	47.05	54.00	6.95	5.96	38.33	2.76	Average
	315467.00	49.65	54.00	4.35	4.97	41.65	3.03	Average

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Test Site : 966 Chamber Limit : FCC PART 15C2.4G AV

Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL

EUT : Wireless Optical Mouse

: KM-8907W M/N : DC 1.5V Power Test Engineer : Jade

	Cable	Ant.				Emission	
Remark	Loss	Factor	Reading	Margin	Limits	Level	Freq.
	(dB)	(dB/m)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(MHz)
Average	2.23	31.58	54.92	5.27	94.00	88.73	1 2476.00
Average	2.50	36.81	6.65	8.04	54.00	45.96	2 6848.00
Average	2.91	40.39	5.26	5.44	54.00	48.56	313444.00

5.2. 20dB Bandwidth

5.2.1. Test limits

No requirement.

5.2.2. Test procedure

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Connect EUT RF output port to the spectrum analyzer through an RF attenuator.
- 3. Set SA Center Frequency = Operation frequency, RBW=120kHz,VBW=300kHz.
- 4. Set SA trace max hold, then view.

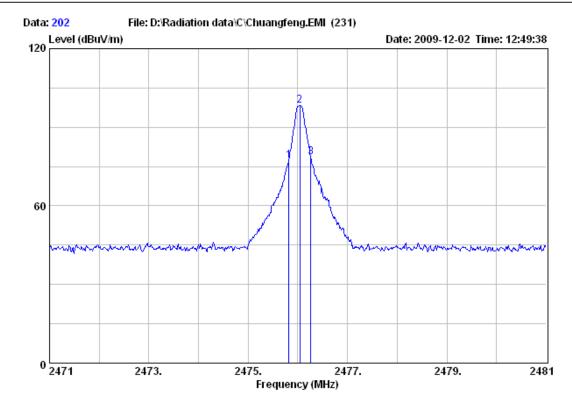
5.2.3. Test result

Pass

Test Polarization	Frequency MHz	20dB bandwidth MHz
Horizontal	2405	0.44
Vertical	2405	0.45
Horizontal	2442	0.47
Vertical	2442	0.48
Horizontal	2476	0.40
Vertical	2476	0.39

The test plots as following:

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Test Site : 966 Chamber

Limit

Dis. / Ant. : 3m 3117

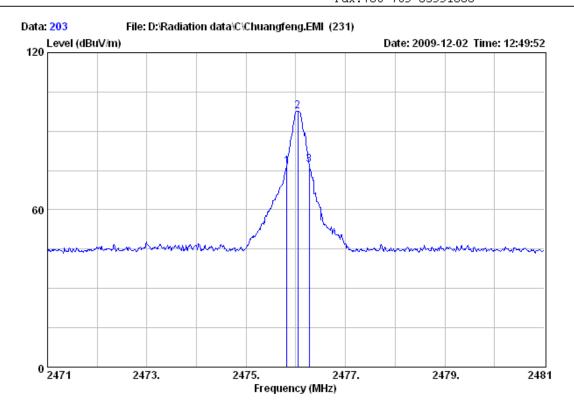
Ant. Pol.: HORIZONTAL

EUT : Wireless Optical Mouse

: KM-8907W M/N : DC 1.5V Power Test Engineer : Jade

	Emission				Ant.	Cable	
-	Level (dBuV/m)		_	_			Remark
1 2475.82	77.10	/	/	43.29	31.58	2.23	Peak
2 2476.04	98.35	/	/	64.54	31.58	2.23	Peak
3 2476.26	78.59	/	/	44.78	31.58	2.23	Peak

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Test Site : 966 Chamber

Limit

Dis. / Ant. : 3m 3117

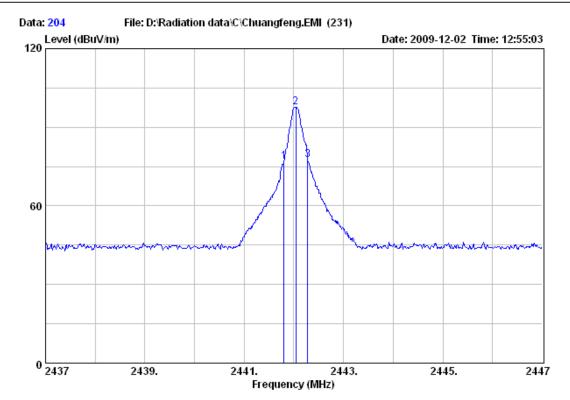
Ant. Pol.: VERTICAL

EUT : Wireless Optical Mouse

: KM-8907W M/N : DC 1.5V Power Test Engineer : Jade

Freq.	Emission Level (dBuV/m)		_	_		Loss	Remark
1 2475.82 2 2476.04 3 2476.27	97.73	7	7	42.77 63.92 43.38	31.58	2.23	Peak Peak Peak

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Test Site : 966 Chamber

Limit

Dis. / Ant. : 3m 3117

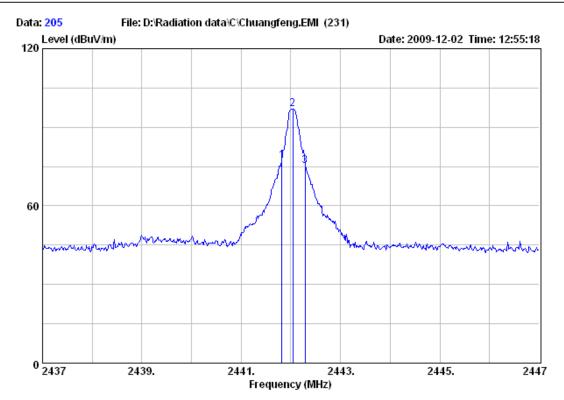
Ant. Pol.: VERTICAL

EUT : Wireless Optical Mouse

: KM-8907W M/N : DC 1.5V Power Test Engineer : Jade

-	Emission Level (dBuV/m)		_	_	Factor		Remark
1 2441.80	76.92	/	/	43.15	31.54	2.23	Peak
2 2442.04	97.73	/	/	63.96	31.54	2.23	Peak
3 2442.28	77.56	/	/	43.79	31.54	2.23	Peak

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Test Site : 966 Chamber

Limit

Dis. / Ant. : 3m 3117

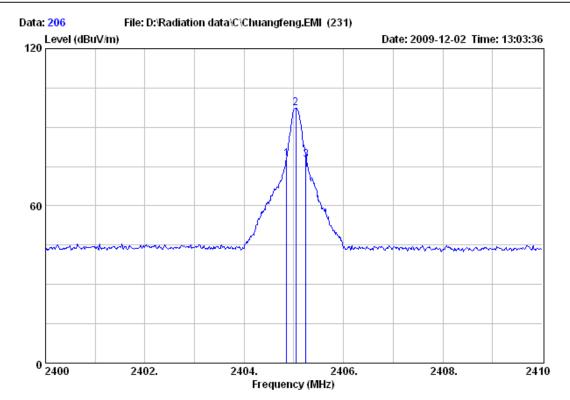
Ant. Pol.: HORIZONTAL

EUT : Wireless Optical Mouse

: KM-8907W M/N : DC 1.5V Power Test Engineer : Jade

Freq. (MHz)	Emission Level (dBuV/m)		_	_	Factor		Remark
1 2441.82	77.26	/	/	43.49	31.54	2.23	Peak
2 2442.04	97.07	/	/	63.30	31.54	2.23	Peak
3 2442.29	75.24	/	/	41.47	31.54	2.23	Peak

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Test Site : 966 Chamber

Limit

Dis. / Ant. : 3m 3117

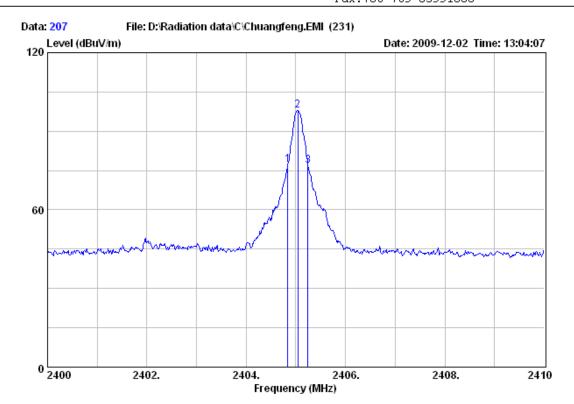
Ant. Pol.: VERTICAL

EUT : Wireless Optical Mouse

: KM-8907W M/N : DC 1.5V Power Test Engineer : Jade

		Emission				Ant.	Cable	
	-	Level (dBuV/m)		_	_			Remark
1	2404.85	77.90	/	/	44.17	31.50	2.23	Peak
2	2405.04	97.41	/	/	63.68	31.50	2.23	Peak
3	2405.24	77.70	/	/	43.97	31.50	2.23	Peak

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Test Site : 966 Chamber

Limit

Dis. / Ant. : 3m 3117

Ant. Pol.: HORIZONTAL

EUT : Wireless Optical Mouse

: KM-8907W M/N : DC 1.5V Power Test Engineer : Jade

	Emission				Ant.	Cable	
-	Level (dBuV/m)		_	_			Remark
1 2404.84	77.15	/	/	43.42	31.50	2.23	Peak
2 2405.04	97.82	/	/	64.09	31.50	2.23	Peak
3 2405 24	77.02	/	/	43 29	31.50	2 23	Peak

5.3. Band Edge

5.3.1. Test limits

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.

5.3.2. Test procedure

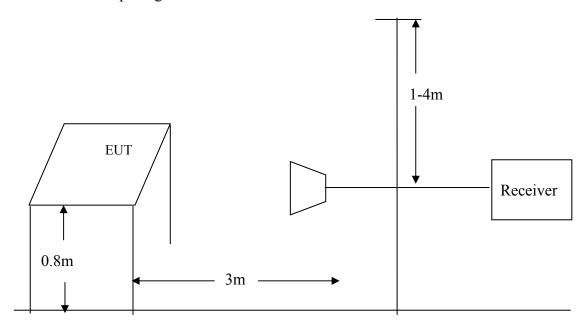
The EUT was placed on a turn table which was 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna which was mounted on a antenna tower. At the frequency band above 1GHz, The measuring antenna moved from 1 to 4 m for horizontal and vertical polarization. The horn antenna was used was a receiving antenna.

The resolution bandwidth and video bandwidth of the test receiver was 1MHz and 1MHz for Peak detection at frequency above 1GHz.

The EUT position(X, Y, Z) were checked and worse case was happened in Y position. So Y position was chose for find measurement.

The EUT was tested in Chamber Site.

5.3.3. Test Setup Diagram

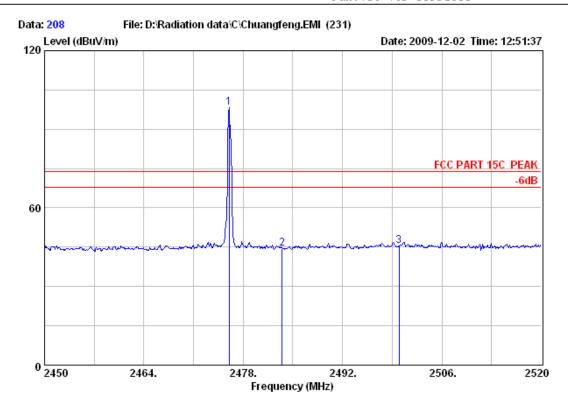


5.3.4. Test result

PASS.

The test plots as following:

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Test Site

: 966 Chamber : FCC PART 15C PEAK Limit

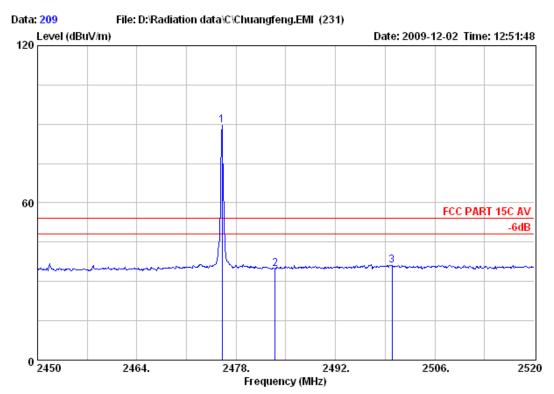
Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL

EUT : Wireless Optical Mouse

: KM-8907W M/N : DC 1.5V Power Test Engineer : Jade

Freq. (MHz)	Emission Level (dBuV/m)	Limits (dBuV/m)	_	_		Cable Loss (dB)	Remark
1 2476.04 2 2483.50	44.47	74.00	-24.11 29.53	10.66	31.58 31.58	2.23	Peak Peak
3 2500.00	45.56	74.00	28.44	11.73	31.60	2.23	Peak

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Test Site : 966 Chamber Limit : FCC PART 15C AV

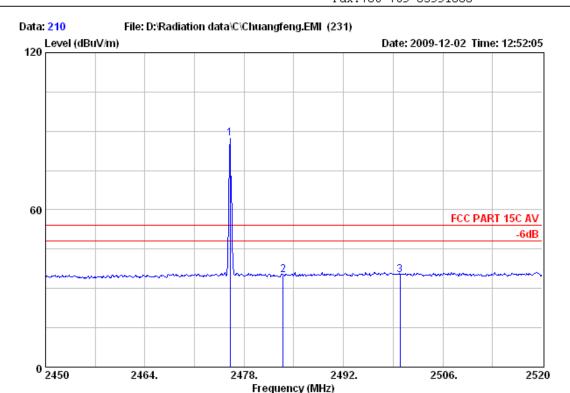
Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL

EUT : Wireless Optical Mouse

: KM-8907W M/N : DC 1.5V Power Test Engineer : Jade

		Emission				Ant.	Cable	
	Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
1	2476.04	89.56	54.00	-35.56	55.75	31.58	2.23	Average
2	2483.50	34.75	54.00	19.25	0.94	31.58	2.23	Average
3	2500.00	36.02	54.00	17.98	2.19	31.60	2.23	Average

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Test Site : 966 Chamber
Limit : FCC PART 15C AV

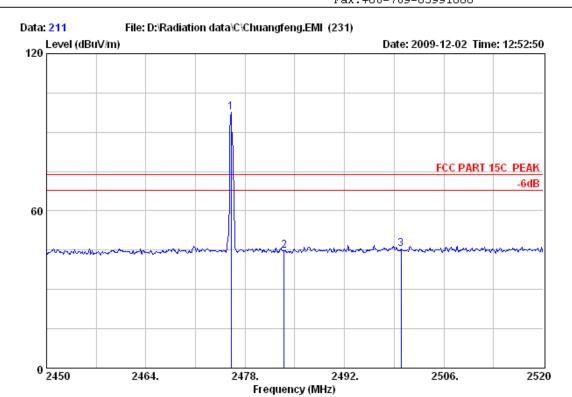
Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL

EUT : Wireless Optical Mouse

: KM-8907W M/N : DC 1.5V Power Test Engineer : Jade

Remark	Factor	_	_	Limits (dBuV/m)	Emission Level (dBuV/m)	Freq. (MHz)
Average		53.58			87.39	1 2476.04
Average	 31.58 31.60	1.43	18.76 18.82	54.00 54.00	35.24 35.18	2 2483.50

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Test Site : 966 Chamber Limit : FCC PART 15C PEAK

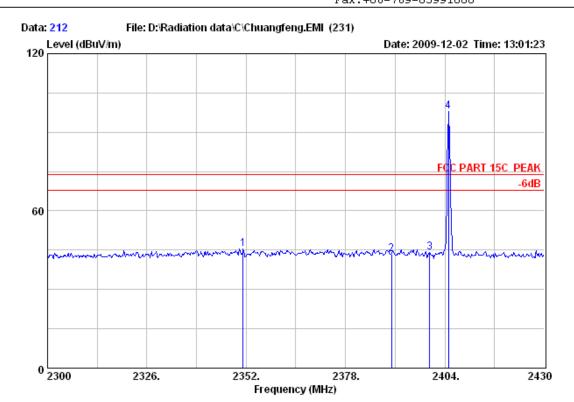
Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL

EUT : Wireless Optical Mouse

: KM-8907W M/N : DC 1.5V Power Test Engineer : Jade

		Emission				Ant.	Cable	
	Freq.		Limits	_	_			Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
1	2476.04	97.56	74.00	-23.56	63.75	31.58	2.23	Peak
2	2483.50	44.88	74.00	29.12	11.07	31.58	2.23	Peak
3	2500.00	45.30	74.00	28.70	11.47	31.60	2.23	Peak

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: 966 Chamber Test Site

: FCC PART 15C PEAK Limit

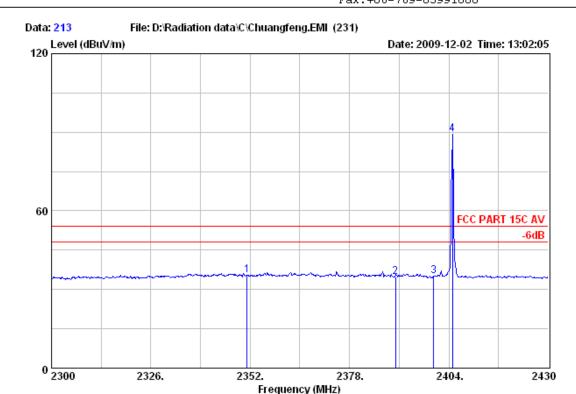
Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL

EUT : Wireless Optical Mouse

: KM-8907W M/N : DC 1.5V Power Test Engineer : Jade

			Emission				Ant.	Cable	
		Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
		(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
-									
	1	2351.22	45.51	74.00	28.49	11.84	31.45	2.22	Peak
	2	2390.00	43.31	74.00	30.69	9.61	31.48	2.22	Peak
	3	2400.00	43.96	74.00	30.04	10.23	31.50	2.23	Peak
	4	2404.91	97.79	74.00	-23.79	64.06	31.50	2.23	Peak

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Test Site : 966 Chamber Limit : FCC PART 15C AV

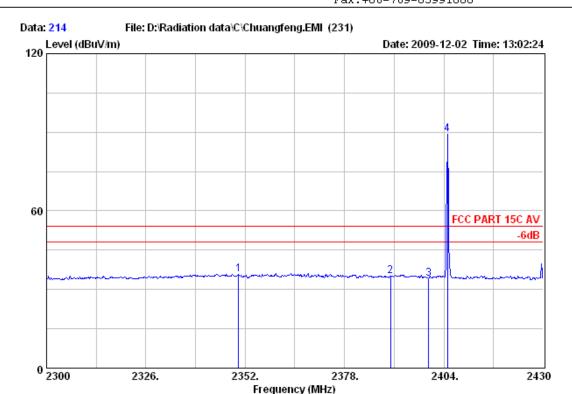
Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL

EUT : Wireless Optical Mouse

: KM-8907W M/N : DC 1.5V Power Test Engineer : Jade

	Cable	Ant.				Emission		
Remark	Loss	Factor	Reading	Margin	Limits	Level	Freq.	
	(dB)	(dB/m)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(MHz)	
Average	2.22	31.45	1.67	18.66	54.00	35.34	2351.22	1
Average	2.22	31.48	1.18	19.12	54.00	34.88	2390.00	2
Average	2.23	31.50	1.42	18.85	54.00	35.15	2400.00	3
Average	2.23	31.50	55.41	-35.14	54.00	89.14	2404.91	4

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Test Site : 966 Chamber Limit : FCC PART 15C AV

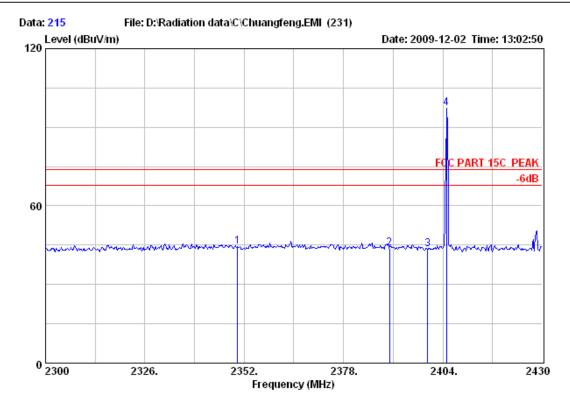
Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL

EUT : Wireless Optical Mouse

: KM-8907W M/N : DC 1.5V Power Test Engineer : Jade

	Cable	Ant.				Emission		
Remark	Loss	Factor	Reading	Margin	Limits	Level	Freq.	
	(dB)	(dB/m)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(MHz)	
Average	2.22	31.45	2.08	18.25	54.00	35.75	2350.31	1
Average	2.22	31.48	1.51	18.79	54.00	35.21	2390.00	2
Average	2.23	31.50	0.52	19.75	54.00	34.25	2400.00	3
Average	2.23	31.50	55.67	-35.40	54.00	89.40	2404.91	4

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: 966 Chamber Test Site

: FCC PART 15C PEAK Limit

Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL

EUT : Wireless Optical Mouse

: KM-8907W M/N : DC 1.5V Power Test Engineer : Jade

		Emission				Ant.	Cable	
	Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
1	2350.31	44.45	74.00	29.55	10.78	31.45	2.22	Peak
2	2390.00	43.90	74.00	30.10	10.20	31.48	2.22	Peak
3	2400.00	43.48	74.00	30.52	9.75	31.50	2.23	Peak
4	2404.91	97.23	74.00	-23.23	63.50	31.50	2.23	Peak