Test Engineer :



NVLAP LAB CODE: 200097-0 REPORT NO. :E930243

Peter Kao
Peter Kao / Director

FCC ID: RAC9000A01

FCC ID TEST REPORT

According to

FCC Part 15 Subpart C, Intentional Radiators

Transmitter (TX) 1) Model No.: PSM-9000
2) FCC ID: RAC9000A01

Applicant Name: PRECISION SQUARED TECHNOLOGY CORPORATION

Address See the General Information for details.

Test Date : 2004/11/04 Issued Date : NOV. 25, 2004

• The test report shall not be reproduced except in full, without the written approval of the "PEP"

NVLAP Signature:

- The report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States government.
- This report is applicable only for EUT Model which described in page 4.

BARRY MA

• The testing result in this report are traceable to national or international standard.

PEP TESTING LABORATORY

12-3Fl, No. 27-1, Lane 169, Kang-Ning St., Hsi-Chih, Taipei Hsien, Taiwan, R. O. C.

Tel: 886-2-26922097 Fax: 886-2-26956236

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Taipei Hsien, Taiwan, R. O. C.

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1. General Information

Measurement of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission under FCC Part 2 and 15.

Applicant Name/Address: PRECISION SQUARED TECHNOLOGY CORPORATION

5F-7, NO. 2, JIAN BA ROAD, CHUNG HO CITY, TAIPEI

HSIEN, TAIWAN, R. O. C.

Contact Person: JEKYLL CHEN / R&D ENGINEER

Phone No.: 886-2-82280125 Fax No.: 886-2-82280105

Manufacturer Name/Address: TECH-SPEED TECHNOLOGY LIMITED

XING YE STREET CHENG WU INDUSTRY AREA, WUSHA, CHANGAN TOWN, DONGGUAN CITY,

GUANGDONG PROVINCE, CHINA

♦ Regulation: FCC Part 2 and 15

♦ Limitation: Part 15, Section 15.249, 15.207 and 15.209

♦ Test Procedure: ANSI C63.4-1992

♦ Place of Test:
PEP Testing Laboratory

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NVLAP LAB CODE: 200097-0 FCC ID: RAC9000A01 REPORT NO. :E930243 2. Product Information **Wireless Mouse EUT Type: Transmitter Model: PSM-9000** TX FCC ID: RAC9000A01 d. TX Channel No.: One TX Working Freq. : **2411 MHz** f. TX Modulation: **GFSK** TX Crystal / Osc.: 6 MHz, 16MHz, 18.432 MHz TX Port(s) : N/A h. **TX Transmitting Power:** DC 2~3.2V **TX Power Supply:** AAA * 2 Batteries j TX Case: **ABS EUT Condition:** Prototype **Engineering Production** m. EUT Received Date: APR. 01, 2004

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3. EUT Description and Test Methods

- (A) The EUT is Wireless Mouse model, FCC ID: RAC9000A01, model PSM-9000. The EUT that comes with a scroll wheel and two buttons is optical wireless mouse. DC 3V from two batteries (size AAA, DC1.5V) is required to operate EUT. The radio frequency of EUT is 2411 MHz. For more detail information about the EUT, please refer to the user's manual.
- (B) Test Method: According to the major function designed, the EUT placement on test table was arranged alone to proceed with test. The test was carried out on EUT operational condition of Tx-On mode: continuous transmission state. The worst-case test result of each test mode was recorded and provided in this report.
- (C) At the frequencies where the peak values of the emission exceeded the quasi-peak limit, the emissions were also measured with the quasi-peak detectors. The average detector also measured the emission either (A) quasi-peak values were under quasi-peak limit but exceeded average limit, or (B) peak values were under quasi-peak limit but exceeded average limit.

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4. Modification(s):	
N/A	
5. Test Software Used	
N/A	

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Support Equip	oment Used	
N/A		

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7. Description Field Strength of Fundamental and Harmonics Test

7.1 Field Strength of Fundamental and Harmonics Test

Field Strength of Fundamental and Harmonics Test were made outdoors at 3-meter test range using horn antenna. The test equipment was placed on a wooden bench situated on a 1.5x1 meter area adjacent to the measurement area. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The detector function was set to peak and average value, the bandwidth of the receiver was set to 1000MHz.

The turntable containing the system was rotated; the antenna height was varied 1 to 4 meters and stopped at the azimuth or height producing the maximum emission.

7.2 Field Strength of Fundamental and Harmonics Limits

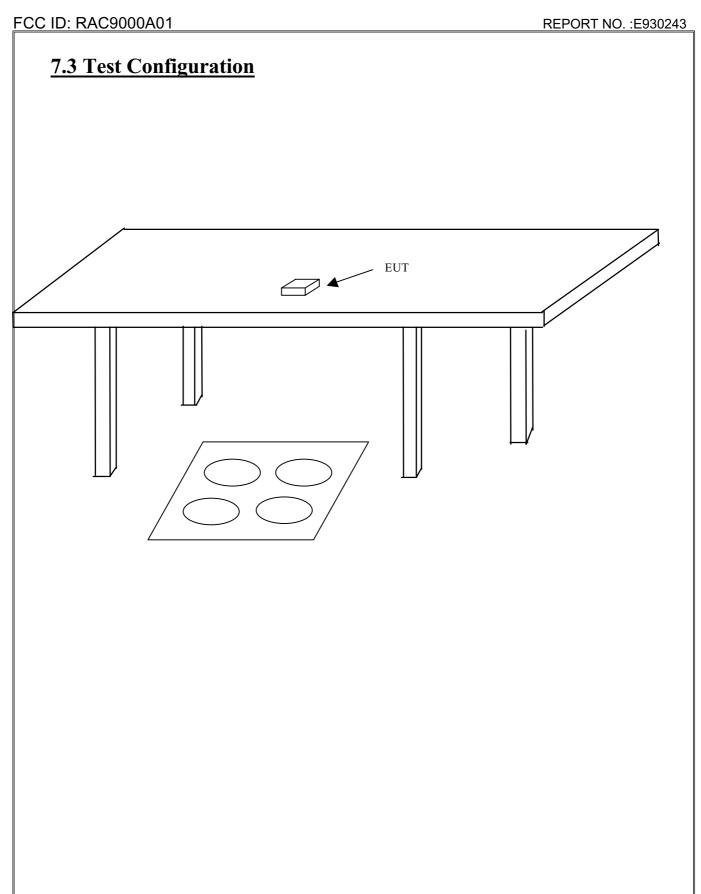
Fundamental	Funda	mental	Harmonics		
Frequency	(mV/m)	(mV/m) $(dB \mu V/m)$		$(dB \mu V/m)$	
902-928MHz	50	94	500	54	
2400-2483.5MHz	50	94	500	54	
5725-5875MHz	50	94	500	54	
24.0-24.25GHz	250	108	2500	68	

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8. Description of Conducted Emissions Test

8.1 Conducted Emissions

A 1m x1.5m wooden table 80 cm high is placed 40cm away from the vertical wall. Two AMN are bonded to the grounding plane. The EUT is powered from the designated AMN and the support equipment is powered from another designated AMN. Powers to the AMN are filtered by a high-current high insertion loss power line filters. All electrical cables are shielded by braided tinned copper zipper tubing with inner diameter of 1/2". All interconnecting cables more than 1 meter were shortened by non-inductive bundling (serpentine fashion) to a 1-meter length.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the AMN was connected to the spectrum analyzer to determine the frequency producing the maximum EME from the EUT.

The spectrum was scanned from 150kHz to 30 MHz with 1.5 sec sweep time. The frequency producing the maximum level was re-examined using Quasi-Peak adapter. The detector function was set to CISPR quasi-peak mode. The bandwidth of the receiver was set to 10kHz. The EUT, support equipment, and interconnecting cables were re-arranged and manipulated to maximize each EME emission. Each emission was maximized by: switching power lines; varying the mode of operation or resolution; clock or data exchange speed; scrolling H pattern to the EUT and/or support equipment, and powering the monitor from the floor mounted outlet box and the computer aux AC outlet, if applicable; whichever determined the worst-case emission.

8.2 Conducted Emissions Limits

Frequency	Maximum RF Line Voltage dB(uV)						
	Class	A	Class	В			
MHz	QUASI-PEAK	AVERAGE	QUASI-PEAK	AVERAGE			
0.15 - 0.50	79	66	66-56	56-46			
0.50 - 5.0	73	60	56	46			
5.0 - 30	73 60		60	50			

Remarks: In the above table, the tighter limit applies at the band edges.

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9. Description of Radiated Emissions Test

9.1 Radiated Emissions

Preliminary measurements were made indoors chamber at 3 meter using broadband antennas, broadband amplifier, and spectrum analyzer to determine the frequency producing the maximum EME. Appropriate precaution was taken to ensure that all EME from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, turntable azimuth with respect to the antenna were noted for each frequency found. The spectrum was scanned from 30 to 1000 MHz using logbicon antenna. Above 1GHz, linearly polarized double ridge horn antenna was used.

Final measurements were made outdoors at 3-meter test range using logbicon antenna and horn antenna. The test equipment was placed on a wooden bench situated on a 1.5x1 meter area adjacent to the measurement area. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. Each frequency found during pre-scan measurements was re-examined and investigated using Quasi-Peak and Average Adapter. 30MHz-1GHz, the detector function was set to CISPR quasi-peak mode and the bandwidth of the receiver was set to 120kHz. Above 1GHz, the detector function was set to peak and average value, the bandwidth of the receiver was set to 1000MHz.

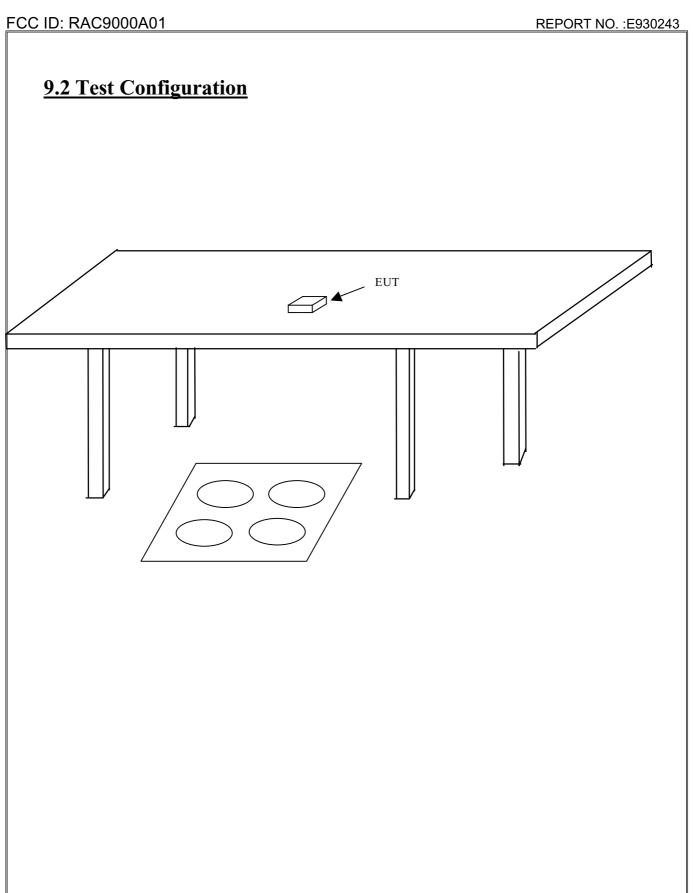
The turntable containing the system was rotated; the antenna height was varied 1 to 4 meters and stopped at the azimuth or height producing the maximum emission. Each emission was maximized by: varying mode of operation or resolution; clock or data exchange speed; scrolling H pattern to the EUT and/or support equipment, and powering the monitor from the floor mounted outlet box and the computer aux AC outlet , if applicable; and changing the polarity of the antenna, whichever determined the worst-case emission. Photographs of the worst-case emission can be seen in radiated emission test photo.

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9.3 Radiated Emission Limits

Limits for radiated disturbance of Class B ITE or Intentional Radiator At a measuring distance of 3 m

Frequency MHz	Field Strength dB μ V/m or uV/m
30 to 88	40 100
88 to 216	43.5 150
216 to 960	46 200
Above 960	56 500

NOTES

- 1 The lower limit shall apply at the transition frequency.
- 2 Additional provisions may be required for cases where interference occurs.

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10. Field Strength of Fundamental and Harmonics Test Setup Photos

< FRONT VIEW >



< REAR VIEW >



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11. Field Strength of Fundamental and Harmonics Test Data

Model No. : PSM-9000

Temperature : 28° C Humidity : 54 %

Memo : TX ON MODE

Antenna	a polarizatioi	n: HORIZ	ONTAL ; T	est distance	: <u>3m</u> ;
		Over	Limit		
Freq.	Level	Limit	Line	Detector	Remark
(MHz)	(dBuV/m)	(dB)	(dBuV/m)		
2410.94	91.80	- 22.20	114	Peak	Fundamental
2410.94	91.30	- 2.70	94	Average	Fundamental
4822	62.11	-11.89	74	Peak	Harmonic
4822	25.45	-28.55	54	Average	Harmonic
7231	60.80	-13.20	74	Peak	Harmonic
7231	24.14	-29.86	54	Average	Harmonic

polarization :	VERTI	CAL; Tes	st distance :	<u>3m</u> ;
	Over	Limit		
Level	Limit	Line	Detector	Remark
(dBuV/m)	(dB)	(dBuV/m)		
88.62	-25.38	114	Peak	Fundamental
88.10	- 5.90	94	Average	Fundamental
58.15	-15.85	74	Peak	Harmonic
21.49	-32.51	54	Average	Harmonic
56.57	-17.43	74	Peak	Harmonic
19.91	-34.09	54	Average	Harmonic
	Level (dBuV/m) 88.62 88.10 58.15 21.49 56.57	Over Level Limit (dBuV/m) (dB) 88.62 -25.38 88.10 - 5.90 58.15 -15.85 21.49 -32.51 56.57 -17.43	Over Limit Level Limit Line (dBuV/m) (dB) (dBuV/m) 88.62 -25.38 114 88.10 -5.90 94 58.15 -15.85 74 21.49 -32.51 54 56.57 -17.43 74	Over Limit Level Limit Line Detector (dBuV/m) (dB) (dBuV/m) 88.62 -25.38 114 Peak 88.10 -5.90 94 Average 58.15 -15.85 74 Peak 21.49 -32.51 54 Average 56.57 -17.43 74 Peak

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10 C 1 (1E : T (C (E))	REPORT NO. :E930243
12. Conducted Emissions Test Setup Photos	
N/A	
13. Conducted Emissions Test Data	
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14. Radiated Emissions Test Setup Photos

< FRONT VIEW >



< REAR VIEW >



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FCC ID: RAC9000A01

15. Radiated Emissions Test Data

15.1 Field Strength of Fundamental and Harmonics Test Data

Model No. : PSM-9000

Frequency range: 30MHz to 1GHz Detector: Quasi-Peak Value

Temperature : 28° C Humidity : 55 %

Memo : TX ON MODE

Antenna polarization: HORIZONTAL; Test distance: 3m;

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Azimuth (°angle)	Antenna High(m)
30.727	32.05	- 7.95	40.00	31.85	19.82	0.40	20.02	176.0	4.0
75.090	27.28	-12.72	40.00	38.13	8.05	0.90	19.80	291.0	4.0
113.751	28.14	-15.36	43.50	38.56	8.52	0.90	19.84	305.0	4.0
699.070	39.29	- 6.71	46.00	34.19	21.80	2.70	19.40	228.0	3.5
744.538	37.69	- 8.31	46.00	32.20	21.88	2.79	19.18	133.0	3.5
825.768	39.68	- 6.32	46.00	33.26	22.40	3.15	19.13	97.0	3.2

Note:

- 1. Level = Read Level + Probe Factor + Cable Loss Preamp Factor
- 2. Over Limit = Level Limit Line

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Model No. : PSM-9000

Frequency range: 30MHz to 1GHz Detector: Quasi-Peak Value

Temperature : 28° C Humidity : 55 %

Memo : TX ON MODE

Antenna polarization: <u>VERTICAL</u>; Test distance: <u>3m</u>;

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Azimuth (°angle)	Antenna High(m)
30.727	30.13	- 9.87	40.00	29.93	19.82	0.40	20.02	126.0	1.0
71.921	29.17	-10.83	40.00	40.11	8.02	0.84	19.80	283.0	1.0
120.256	30.52	-12.98	43.50	41.10	8.40	0.91	19.89	212.0	1.0
626.065	36.11	- 9.89	46.00	31.81	21.10	2.63	19.43	85.0	1.5
750.171	38.07	- 7.93	46.00	32.57	21.90	2.80	19.20	317.0	1.3
825.749	39.60	- 6.40	46.00	33.18	22.40	3.15	19.13	162.0	1.3

Note:

- 1. Level = Read Level + Antenna Factor + Cable Loss Preamp Factor
- 2. Over Limit = Level Limit Line

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16. List of Measured Instruments

Test Mode	Instrument	Model No.	Serial No.	Next Cal. Date	Cal. Interval
	R & S Receiver	ESVS30	863342/012	May 22, 2005	1Year
	Schaffner Pre-amplifier	CPA9232	1028	May 20, 2005	1Year
	COM-Power Horn Ant.	AH-118 (1GHz~18GHz)	10095	May 21, 2005	2Year
Radiation (OP No.1)	Schwarzbeck Precision Dipole Ant	VHAP (30MHz~1GHz)	970 + 971 953 + 954	June 26, 2006	3Year
	R &S Signal Generator	SMY01	841104/037	Apr. 29, 2005	2Year
	RF Cable	No. 1	N/A	May 11, 2005	1Year
	EMCO Antenna	3142B (26MHz~2GHz)	9904-1370	Aug. 24, 2005	1Year
	Spectrum Analyzer	FSP 3GHz	833387/010	Aug. 30, 2005	1Year
	Pre-Amplifier	CPA-9232	1027	Feb. 24, 2005	1Year
Chamber	Antenna	VULB9160	3074	July 24, 2005	1Year
(No. 3)	Signal Generator	SMY02	829846/0358	Jan. 29, 2005	2Year
	RF Cable	NO.3	N/A	Feb. 19, 2005	1Year
	HORN ANTENNA	AH-118	10095	July 24, 2005	1Year

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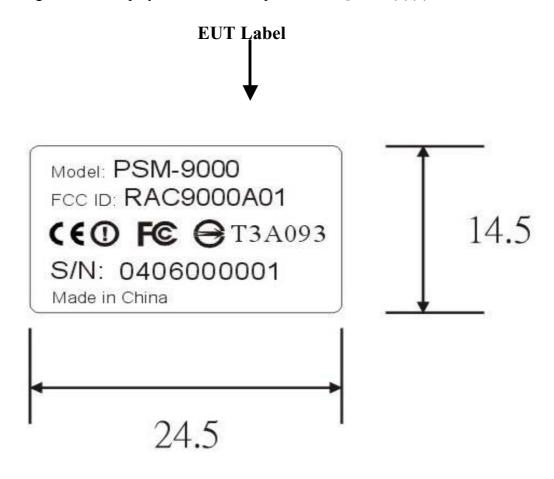


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17. FCC ID Label Sample

The sample label shown below shall be permanently affixed at a conspicuous location on the device, instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practicable, only the trade name, model number, and the FCC logo must be displayed on the device per Section §15.19 (b)(2).



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18. Information To The User

For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

Federal Communications Commission (FCC) Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver .
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected .
- Consult the dealer or an experienced radio / TV technician for help.

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19. EUT External Photos

PHOTO. 1. EUT (TX) FRONT VIEW



PHOTO. 2. EUT (TX) REAR VIEW



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20. EUT Internal Photos



PHOTO. 4. EUT (TX) COMPONENT SIDE VIEW



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PHOTO. 5. EUT (TX) SOLDERING SIDE VIEW

