

FCC ID TEST REPORT

According to

FCC Part 15 Subpart C, Intentional Radiators

EUT Type **USB Wireless Keyboard**

Transmitter (TX) **1) Model No.: rfKEY**

2) FCC ID: L2BACEKEY82K

3) Power Supply: DC 3V, battery Type AA, 1.5Vdc x 2

Receiver (RX) **1) Model No.: rfKEY**

2) FCC ID: N/A, (under DoC)

3) Power Supply: DC 5V from USB Port of PC

Applicant Name: **SOLID YEAR CO., LTD.**

Address See the General Information for details.

Test Date NOV. 18, 2002 : Issued Date : NOV. 25, 2002

Test Engineer : JASON GONG NVLAP Signature : Peter Kao
Peter Kao / Director

The test report shall not be reproduced except in full, without the written approval of the “PEP”
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 .

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 : 8862-26922097 Fax : 8862-26956236*

Table of Contents

1.	GENERAL INFORMATION	3
2.	PRODUCT INFORMATION	4
3.	EUT DESCRIPTION AND TEST METHODS	5
4.	MODIFICATION(S)	6
5.	TEST SOFTWARE USED	6
6.	SUPPORT EQUIPMENT USED	7
7.	DESCRIPTION OF CONDUCTED EMISSIONS TEST	9
8.	DESCRIPTION OF RADIATED EMISSIONS TEST	10
9.	CONDUCTED EMISSIONS TEST SETUP PHOTO.	13
10.	CONDUCTED EMISSIONS TEST DATA	14
11.	RADIATED EMISSIONS TEST SETUP PHOTO.	17
12.	RADIATED EMISSIONS TEST DATA	18
13.	OCCUPIED BANDWIDTH PLOT DATA	22
14.	LIST OF MEASURED INSTRUMENTS	23
15.	DUTIES OF THE RESPONSIBLE PARTY	24
16.	FCC ID LABEL SAMPLE	26
17.	INFORMATION TO THE USER	27
18.	EUT EXTERNAL PHOTOS	28
18.	EUT INTERNAL PHOTOS	29

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.

a) EUT Transmitter (TX):

Model No.: rfKEY

FCC ID: L2BACEKEY82K

b) EUT Receiver (RX):

Model No.: rfKEY

FCC ID: N/A, (under DoC)

c) Applicant Name/Address: SOLID YEAR CO., LTD.

2F-1, NO. 94, BAO CHUNG RD., HSIN TIEN CITY,
TAIPEI HSIEN, TAIWAN, R. O. C.

Contact Person: CHARLES LIU

Phone No.: 886-2-29156767

Fax No.: 886-2-29152525

d) Manufacturer Name/Address: WONDER UNION FACTORY

TIANXIN INDUSTRIAL AREA, QIAOTOU,
DONGGUAN, GUANDONG, CHINA

✧ Regulation: FCC Parts 2 and 15

✧ Limitation: Part 15, Section 15.227, 15.207 and 15.209

✧ Test Procedure: ANSI C63.4-1992

✧ Place of Test: PEP Testing Laboratory

12-3Fl, No. 27-1, Lane 169, Kang-Ning St., Hsi-Chih,
Taipei Hsien, Taiwan, R. O. C.
TEL : 8862-26922097 FAX : 8862-26956236

2. Product Information

- a. EUT Type: USB Wireless Keyboard
- b. Transmitter Model: rfKEY Receiver Model: rfKEY
- c. TX FCC ID: L2BACEKEY82K RX FCC ID: N/A, (under DoC)
- d. TX Channel No. : One RX Channel No. : One
- e. TX Working Freq. : 27.045 MHz RX Working Freq.: 26.59 MHz
- f. TX Modulation : FSK RX Modulation : N/A
- g. TX Crystal / Osc. : 6 MHz, 13.5225 MHz RX Crystal / Osc. : 6 MHz, 26.59 MHz, 455 KHz
- h. TX Port(s) : N/A RX Port(s) : USB for Keyboard
- i. TX Transmitting Power : DC 3V (1.5V \times 2) RX Receiver Power : DC 5V 10mA
- j. TX Power Supply : Battery(Type AA) RX Power Supply : USB Port of PC
- j. TX Case : ABS RX Case : ABS
- k. EUT Condition : ☒ Prototype ☐ Engineering ☐ Production
- l. EUT Received Date : NOV. 17, 2002

3. EUT Description and Test Methods

- (A) The EUT is USB Wireless Keyboard, FCC ID: L2BACEKEY82K, model rfKEY. The EUT consists of one wireless transmitter supplied from DC 3V (Battery size AA 1.5V ×2). One receiver connected to USB port rated DC5V from PC was used as corresponding peripheral device for the test. The EUT radio frequency is 27.045MHz. The effective transmitting distance of EUT system is approximate 6 feet. We located both EUT transmitter and corresponding peripheral receiver on turntable under test. For more detail information about the EUT, please refer to the user's manual.
- (B) Test Method: Including EUT transmitter and corresponding peripheral receiver link with PC system were setup as a complete test system on turntable. The receiver is connected to USB port of PC system and the PC operating system was setup to detect and drive every peripheral devices including EUT. Then, we pressed "H" key on the transmitter to enable RF keyboard under Control panel of WIN98 for Tx-On Mode, and ran "EMITEST" for Tx-Off Mode, and the worst-case test data as ANSI C63.4 requirement was recorded and provided in this report.
- (C) Test Mode: (1) For Conducted EMI---"Tx-Off" Mode
(2) For Radiated EMI---"Tx-On" and "Tx-Off" Mode
- (D) 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.
- (E) Due to EUT system is Desktop type not handheld type, only one orthogonal plane is tested for detecting the required EMI testing data.

4. Modification(s):

N/A

5. Test Software Used

(A) EMITEST program that continuously generates a complete line of repeating “H” letter was the software used during test.

6. Support Equipment Used

1. Personal Computer (PC3)

CPU : Intel P4 Socket 478 1.6GHz

FCC ID : Declaration of Conformity(DoC)

Manufacturer : LEMEL

Model Number : LMIH1A2

Power Supply : Switching

Power Cord : Non-Shielded, Detachable, 1.8m

Data Cable : N/A

2. Monitor (MON1 15")

FCC ID : Declaration of Conformity(DoC)

Manufacturer : SAMSUNG

Model Number : 550S

Power Supply : Switching

Power Cord : Non-Shielded, Detachable, 1.8m

Data Cable : 1 > Shielded , Non-detachable,1.2m

2 > Back Shell : Metal

3. Printer (PRN1)

FCC ID : B94C2642X

Manufacturer : Hewlett-Packard

Model Number : C2642E

Power Supply : Linear, 30Vdc O/P

Power Cable : Non-Shielded , Detachable,1.8m

Data Cable : 1 > Shielded , Detachable,1.2m

2 > Back Shell : Metal

4. Modem (MOD1) x2

FCC ID : IFAXDM1414

Manufacturer : ACEEX

Model Number : 1414

Power Supply : Linear, 9Vac O/P

Power Cable : Non-Shielded , Detachable,1.7m

Data Cable : 1 > Shielded , Detachable,1m

2 > Back Shell : Metal

5. Mouse (MOUS/1 PS/2)

FCC ID : DZL211106

Manufacturer : LOGITECH

Model Number : M-S43

Power Supply : +5Vdc from PS2 of PC

Power Cord : N/A

Data Cable : 1 > Shielded , Non-detachable,1.8m

2 > Back Shell : Metal

6. Receiver

FCC ID : Declaration of Conformity(DoC)

Manufacturer : SOLID YEAR CO., LTD.

Model Number : rfKEY

Power Supply : +5Vdc from USB of PC

Power Cord : N/A

Data Cable : 1 > Shielded , Non-detachable,1m

2 > Back Shell : N/A

7. Description of Conducted Emissions Test

7.1 Conducted Emissions Limits

Maximum RF Voltage in dB(uV)					
Frequency	FCC Part 15, Subpart C		Frequency	CISPR 22	
MHz	QUASI-PEAK	AVERAGE	MHz	QUASI-PEAK	AVERAGE
0.45 – 30	48	--	0.15 – 0.5	66-56	56-46
--	--	--	0.5– 5	56	46
--	--	--	5-30	60	50

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

8. Description of Radiated Emissions Test

8.1 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 Adapter. The detector function was set to CISPR quasi-peak mode and the bandwidth of the receiver was set to 120kHz.

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.

The diagram illustrates the EMI test chamber configuration with the following components and dimensions:

- Nonconductive Table:** 1.5 x 1 meter, supporting the EUT and antennas.
- EUT (Equipment Under Test):** A central rectangular block.
- Antennas:** Three horn antennas are positioned around the EUT. One is labeled '2' and is connected to a cable.
- Ground Plane:** A conducting ground plane is located 40 cm below the table, extending at least 0.5m beyond the EUT system footprint.
- Dimensions:**
 - 10 cm: Distance from the EUT to the table edge.
 - 5 cm: Distance from the EUT to the table edge.
 - 8 cm: Distance from the EUT to the table edge.
 - 40 cm: Distance from the ground plane to the table.
 - 80 cm TO GROUND PLANE: Distance from the table to the ground plane.
- Labels:**
 - 1: Distance from the EUT to the table edge.
 - 2: Antenna.
 - 3: Ground plane.
 - 4: Distance from the EUT to the table edge.
 - 5: Distance from the EUT to the table edge.
 - 6: Distance from the EUT to the table edge.
 - 7: Distance from the EUT to the table edge.

1. Interconnecting cables which hang closer than 40 cm to the ground plane shall be folded back and forth forming a bundle 30 to 40 cm long, hanging approximately in the middle between ground plane and table.
2. I/O cables which are connected to a peripheral shall be bundled in center. The end of the cable may be terminated if required using correct terminating impedance. The total length shall not exceed 1 m.
3. If LISN are kept in the test setup for radiated emissions, it is preferred that they be installed under the ground if requires receptacle flush with the ground plane.
4. Cables of hand-operated devices, such as keyboards, KEYPADs, etc., have to be placed as close as possible to the controller.
5. Non-EUT components of EUT system being tested.
6. The rear of all components of the system under test shall be located flush with the rear of the table.
7. No vertical conducting wall used.
8. Power cords drape to the floor and are routed over to receptacle.

8.3 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	54	500
NOTES 1 The lower limit shall apply at the transition frequency. 2 Additional provisions may be required for cases where interference occurs.		

9. Conducted Emissions Test Setup Photo.

< Front View >



< Rear View >



10. Conducted Emissions Test Data

Model No. : rfKEY
Frequency range : 150KHz to 30MHz
Detector : Quasi-peak Value
Temperature : 27
Humidity : 43 %

Test Data : # 478 < LINE >
 # 480 < NEUTRAL >

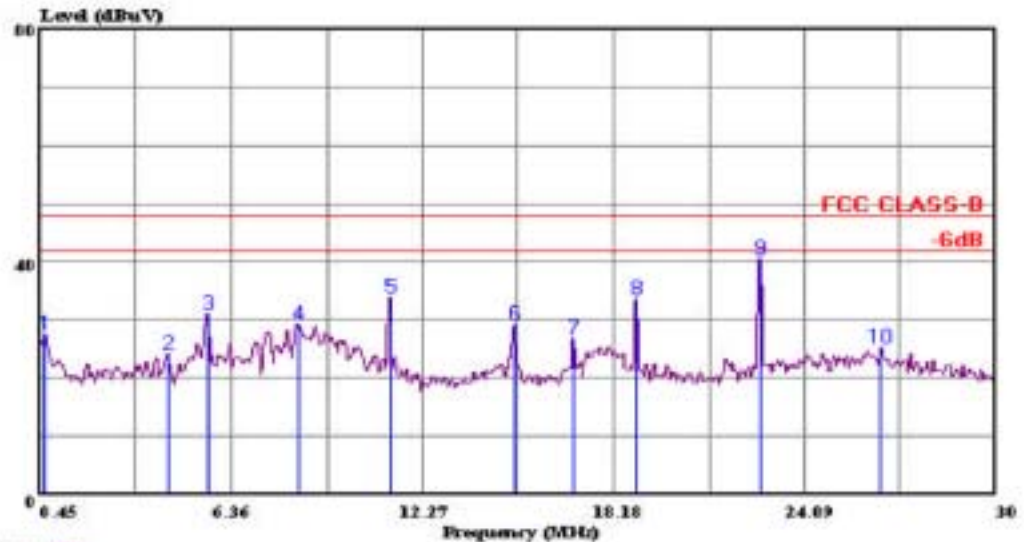
Note 1. Level = Read Level + Cable Loss + Probe (LISN)
 2. Over Limit = Level – Limit = Margin



緯鑫科技有限公司

PEP Testing Laboratory

Data#: 478 File#: Pccb.emi Date: 2002-11-18 Time: 13:49:40



Trace: 477
Site : Shih-Chi : Conduction NO.1(Nick)
Condition: FCC CLASS-B LISN.L(16A) LINE
eut : E910717
power : AC 120V 60Hz
memo : Peak Value
: Final Test
: TX OFF

Page:

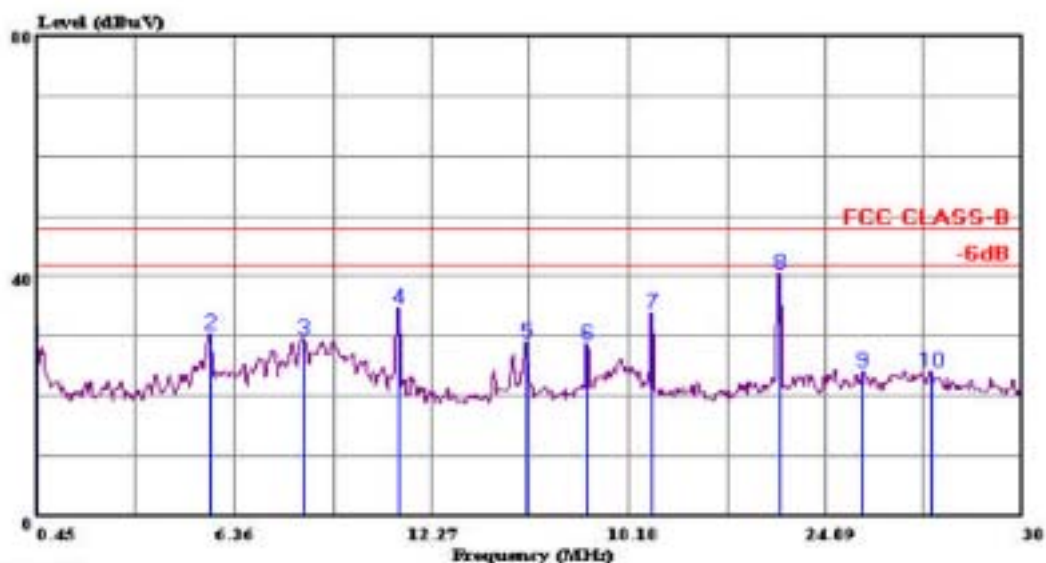
	Freq	Level	Over	Limit	Read	Probe	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.568	27.50	-20.50	48.00	27.00	0.40	0.10	
2	4.380	24.02	-23.98	48.00	23.20	0.42	0.40	
3	5.651	30.88	-17.12	48.00	30.00	0.48	0.40	
4	8.429	29.21	-18.79	48.00	28.21	0.56	0.44	
5	11.295	33.76	-14.24	48.00	32.60	0.66	0.50	
6	15.136	29.22	-18.78	48.00	28.00	0.81	0.41	
7	16.939	26.54	-21.46	48.00	25.20	0.84	0.50	
8	18.889	33.58	-14.42	48.00	32.20	0.88	0.50	
9	22.701	40.42	-7.58	48.00	38.80	1.02	0.60	
10	26.454	25.10	-22.90	48.00	23.40	1.10	0.60	



緯鑫科技有限公司

PEP Testing Laboratory

Data#: 480 File#: Fccb.emi Date: 2002-11-18 Time: 13:55:40



Trace: 479
Site : Shih-Chi : Conduction NO.1(Nick)
Condition: FCC CLASS-B LISN.N(16A) NEUTRAL
cut : E910717
power : AC 120V 60Hz
memo : Peak Value
: Final Test
: TX OFF

Page:

	Freq	Level	Over	Limit	Read	Probe	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.480	28.42	-19.58	48.00	28.21	0.11	0.10	
2	5.651	30.28	-17.72	48.00	29.60	0.28	0.40	
3	8.429	29.41	-18.59	48.00	28.61	0.36	0.44	
4	11.295	34.76	-13.24	48.00	33.80	0.46	0.50	
5	15.107	29.01	-18.99	48.00	28.00	0.60	0.41	
6	16.939	28.54	-19.46	48.00	27.40	0.64	0.50	
7	18.919	33.78	-14.22	48.00	32.60	0.68	0.50	
8	22.701	40.48	-7.52	48.00	39.00	0.88	0.60	
9	25.213	24.20	-23.80	48.00	22.60	1.00	0.60	
10	27.252	24.21	-23.79	48.00	22.60	1.00	0.61	

11. Radiated Emissions Test Setup Photo.

< FRONT VIEW >



< REAR VIEW >



12. Radiated Emissions Test Data

Model No. : rfKEY
Frequency range : 30MHz to 1GHz **Detector** : Quasi-Peak Value
Frequency range : above 1GHz **Detector** : Quasi-Peak/Average Value
Temperature : 22° C **Humidity** : 60 %
Memo : TX ON

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)
27.045	59.23	-20.77	80.00	56.88	21.73	0.62	20.00	250.0	4.0
40.567	28.37	-11.63	40.00	34.42	14.46	0.10	20.61	120.0	4.0
54.093	25.15	-14.85	40.00	35.66	9.97	0.10	20.58	200.0	4.0
80.562	23.46	-16.54	40.00	35.32	8.12	0.30	20.28	90.0	4.0
108.166	32.68	-10.82	43.50	43.86	8.62	0.30	20.10	150.0	4.0
121.686	24.66	-18.84	43.50	36.02	8.38	0.33	20.07	270.0	4.0
202.749	30.67	-12.83	43.50	39.29	10.62	0.72	19.96	240.0	3.5

Note :

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

Model No. : rfKEY
Frequency range : 30MHz to 1GHz **Detector** : Quasi-Peak Value
Frequency range : above 1GHz **Detector** : Quasi-Peak/Average Value
Temperature : 22° C **Humidity** : 60 %
Memo : TX ON

Antenna polarization : VERTICAL ; **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)
27.045	53.22	-26.78	80.00	50.87	21.73	0.62	20.00	150.0	1.0
71.734	28.20	-11.80	40.00	40.10	8.02	0.24	20.16	180.0	1.0
83.596	23.72	-16.28	40.00	35.36	8.25	0.27	20.16	240.0	1.0
108.166	28.64	-14.86	43.50	39.82	8.62	0.30	20.10	270.0	1.0
121.686	27.15	-16.35	43.50	38.51	8.38	0.33	20.07	150.0	1.0
189.300	24.46	-19.04	43.50	33.60	10.19	0.70	20.03	180.0	1.0
205.581	29.53	-13.97	43.50	37.94	10.74	0.75	19.90	210.0	1.0

Note :

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

Model No. : rfKEY
Frequency range : 30MHz to 1GHz **Detector** : Quasi-Peak Value
Frequency range : above 1GHz **Detector** : Quasi-Peak/Average Value
Temperature : 22° C **Humidity** : 60 %
Memo : TX OFF

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)
54.638	22.38	-17.62	40.00	33.00	9.84	0.10	20.56	200.0	4.0
64.114	28.68	-11.32	40.00	40.49	8.40	0.15	20.36	310.0	4.0
78.388	25.84	-14.16	40.00	37.70	8.08	0.30	20.24	270.0	4.0
121.742	27.46	-16.04	43.50	38.82	8.38	0.33	20.07	180.0	4.0
189.663	21.38	-22.12	43.50	30.52	10.20	0.70	20.04	150.0	3.5
200.276	25.31	-18.19	43.50	34.11	10.50	0.70	20.00	100.0	3.5

Note :

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

Model No. : rfKEY
Frequency range : 30MHz to 1GHz **Detector** : Quasi-Peak Value
Frequency range : above 1GHz **Detector** : Quasi-Peak/Average Value
Temperature : 22° C **Humidity** : 60 %
Memo : TX OFF

Antenna polarization : VERTICAL ; **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)
51.273	26.03	-13.97	40.00	35.99	10.60	0.10	20.66	150.0	1.0
64.116	28.62	-11.38	40.00	40.43	8.40	0.15	20.36	210.0	1.0
78.358	33.48	- 6.52	40.00	45.34	8.08	0.30	20.24	100.0	1.0
123.619	26.63	-16.87	43.50	37.92	8.36	0.38	20.03	270.0	1.0
133.068	29.96	-13.54	43.50	41.09	8.40	0.46	19.99	180.0	1.0
207.719	28.30	-15.20	43.50	36.54	10.82	0.77	19.83	150.0	1.0

Note :

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

13. Occupied Bandwidth Plot Data

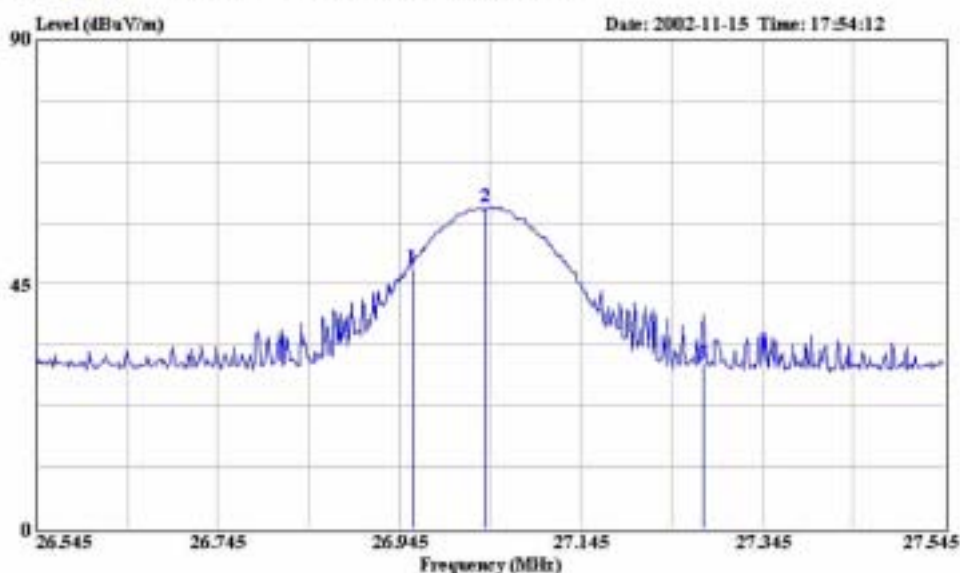


緯鑫科技有限公司
PEP Testing Laboratory

Data#: 100

File#: C:\e3\客戶測試\秀育.EMI

Date: 2002-11-15 Time: 17:54:12



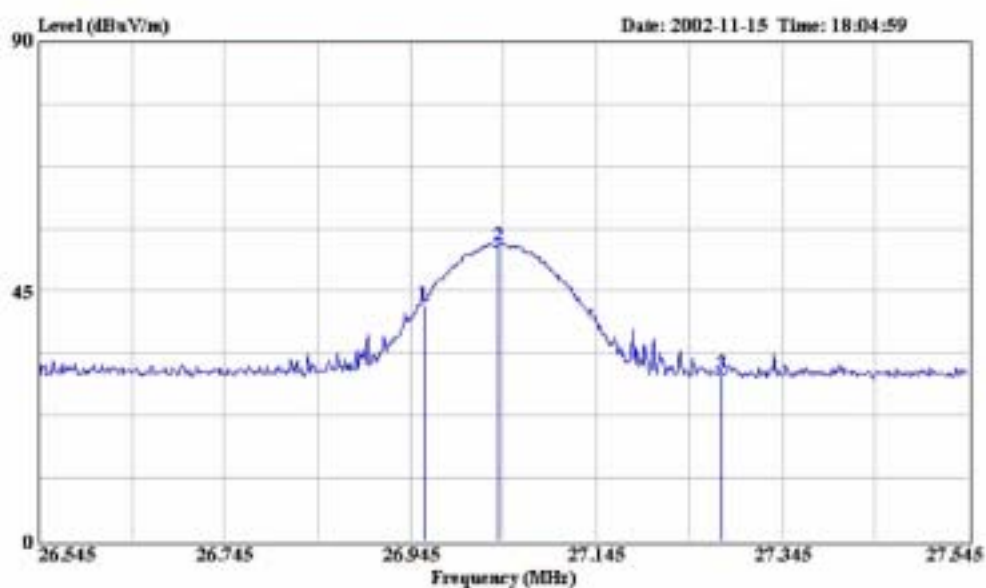
Site : Chamber No.3 (Jacky)
Condition : FCC 27MHz 廣播 3m ANT 27M HORIZONTAL
EUT : rfKEY
Power : DC 3V
Memo : RBW:120KHz; VBW:300KHz; SMP:AUTO
: SPAN:1MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamplifier Factor
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB
1	26.960	47.94	-32.06	80.00	45.55	21.77	0.62	20.00
2	27.040	59.23	-20.77	80.00	56.88	21.73	0.62	20.00
3	27.280	30.31	-49.69	80.00	28.07	21.62	0.62	20.00



緯鑫科技有限公司 PEP Testing Laboratory

Data#: 101 File#: C:\e3\客戶測試\秀育.EMI



Site : Chamber No.3 (Jacky)
Condition : FCC 27MHz基頻 3m ANT 27M VERTICAL
EUT : rfKEY
Power : DC 3V
Memo : RBW:120KHz; VBW:300KHz; SWP:AUTO
: SPAN:1MHz

			Over	Limit	Read	Probe	Cable	Preamp
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB
1	26.960	42.39	-37.61	80.00	40.00	21.77	0.62	20.00
2	27.040	53.22	-26.78	80.00	50.87	21.73	0.62	20.00
3	27.280	30.00	-50.00	80.00	27.76	21.62	0.62	20.00

14. List of Measured Instruments

Test Mode	Instrument	Model No.	Serial No.	Next Cal. Date	Cal. Interval
Conduction (No.1)	R & S Receiver	ESHS10	830223/008	May 22, 2003	1Year
	Rolf Heine LISN	NNB-4/63TL	98008	Apr. 29, 2003	1Year
	R & S LISN	ESH3-Z5	844982/039	Aug. 07, 2003	1Year
	Spectrum Analyzer	R3261A	91720076	Jun. 09, 2003	1Year
Radiation (OP No.1)	R & S Receiver	ESVS30	863342/012	May 20, 2003	1Year
	R&S Spectrum	FSP7 (9K-7GHz)	830180/006	Jun. 28, 2003	1Year
	R&S Spectrum	FSP30 (9K-30GHz)	100157	Aug. 28, 2003	2Year
	COM-POWER Horn Antenna	AH-118 (1G-18GHz)	10056	May 21, 2003	3Year
	EMCO ANTENNA	3142B (26M-2GHz)	9904-1307	Aug. 25, 2003	1Year
	Schaffner Antenna	CBL6112B (30M-2GHz)	2655	Jul. 27, 2003	1Year
	Anritsu Pre-Amp.	MH648A	M15080	Apr. 10, 2003	1Year
	MITEQ Pre-amplifier	JS4-00101800 (1G-18GHz)	513015	Nov. 26, 2004	3Year

15. Duties of The Responsible Party

The responsible party upon signing or accepting the Declaration of Conformity as specified in Section 2.906 of the FCC Rules hereby agrees to the duties listed below.

§2.1073(a).

The responsible party warrants that each unit of equipment marketed under DoC is identical to the unit tested and found acceptable with the standards and that the records maintained by the responsible party continue to reflect the equipment being produced is within the variation that can be expected due to quantity production and testing on a statistical basis.

§2.1073(b).

The responsible party must have a written statement from the manufacturer or accredited test laboratory that the equipment complies with the appropriate technical standards.

§2.1073(c).

In case of transfer of control of equipment, as in the case of sale or merger, the new responsible party shall bear the responsibility of continued compliance of the equipment.

§2.1073(d).

Equipment shall be retested if any modifications or changes are made that could adversely affect the emanation characteristics of the equipment.

§2.1073(e).

If any modifications or changes made by anyone other than the responsible party, the party making the modifications or changes, if located within the U.S., becomes the new responsible party. The new responsible party must comply with all provisions for the DoC, including having test data on file demonstrating that the product continues to comply with all of the applicable technical standards.

§2.1075(a)(1).

The responsible party shall maintain records of the original design drawings and specifications and all changes made to the product that may affect compliance.

§2.1075(a)(2).

The responsible party shall maintain records of the procedures used for production inspection and testing to insure the conformance with the FCC Rules.

§2.946(a)(1).

The test report data shall be provided to the FCC within 14 days of delivery of request. The test sample(s) shall be provided within 60 days of delivery of request.

§2.946(b)

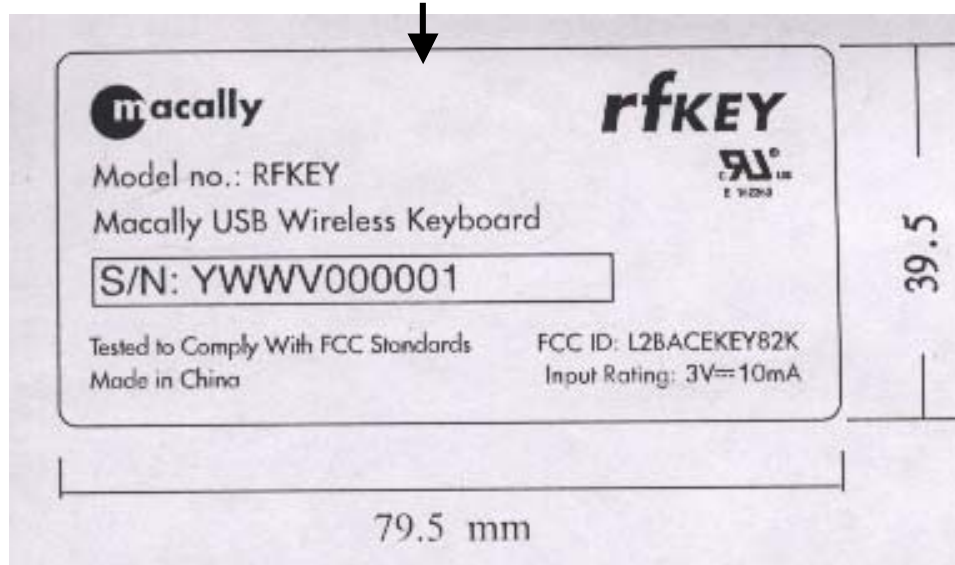
In case involving harmful interference or safety of life or property, the production sample must be provided within 60 days, but not less than 14 days. Failure to comply with such a request with the time frame shown may be cause for forfeiture, pursuant to Section 1.80 of Part 1 of the FCC Rules.

**The Responsible Party is the manufacturer, system integrator, or the importer as defined in Section 2.909 of the FCC Rules. The Rules. The Responsible Party for a DoC must be located within the United States as specified in Section 2.1077.*

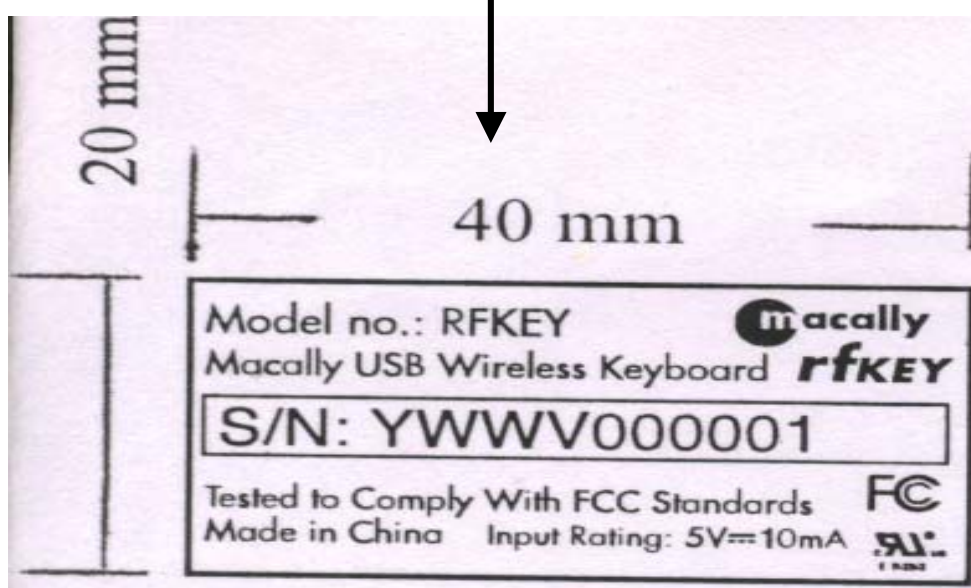
16. FCC ID Label Sample

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).

EUT Label A



EUT Label B



17. 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 .

18. EUT External Photos

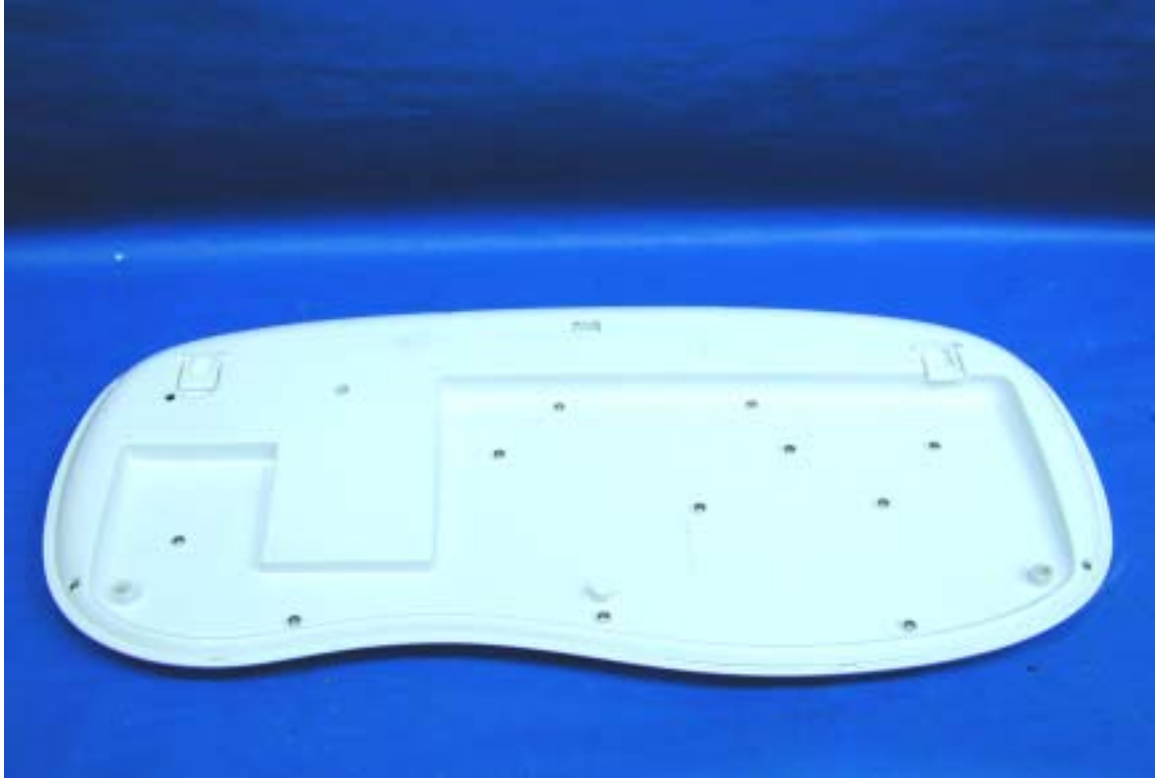
PHOTO. 1. EUT (TX + RX) TOP VIEW



PHOTO. 2. EUT (TX) FRONT VIEW



PHOTO. 3. EUT (TX) BOTTOM VIEW



19. EUT Internal Photos

PHOTO. 4. EUT (TX) INSIDE VIEW



PHOTO. 5. EUT (TX) COMPONENT SIDE VIEW

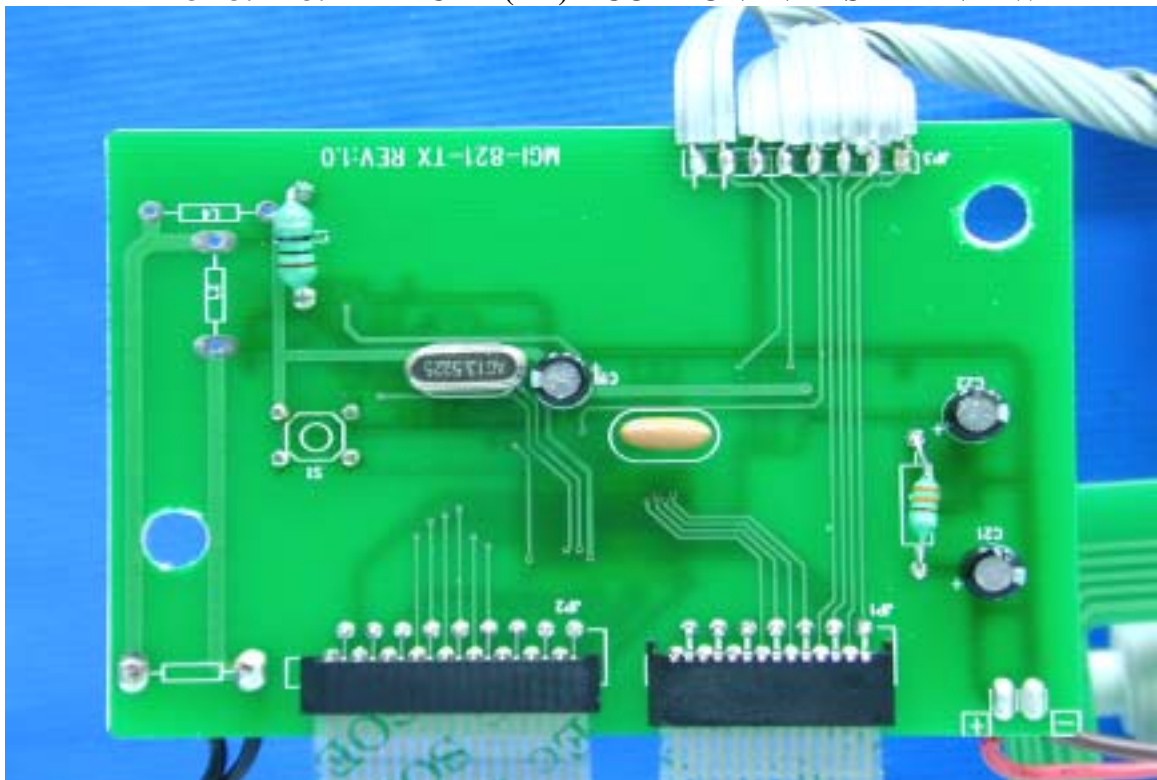


PHOTO. 6. EUT (TX) SOLDERING SIDE VIEW

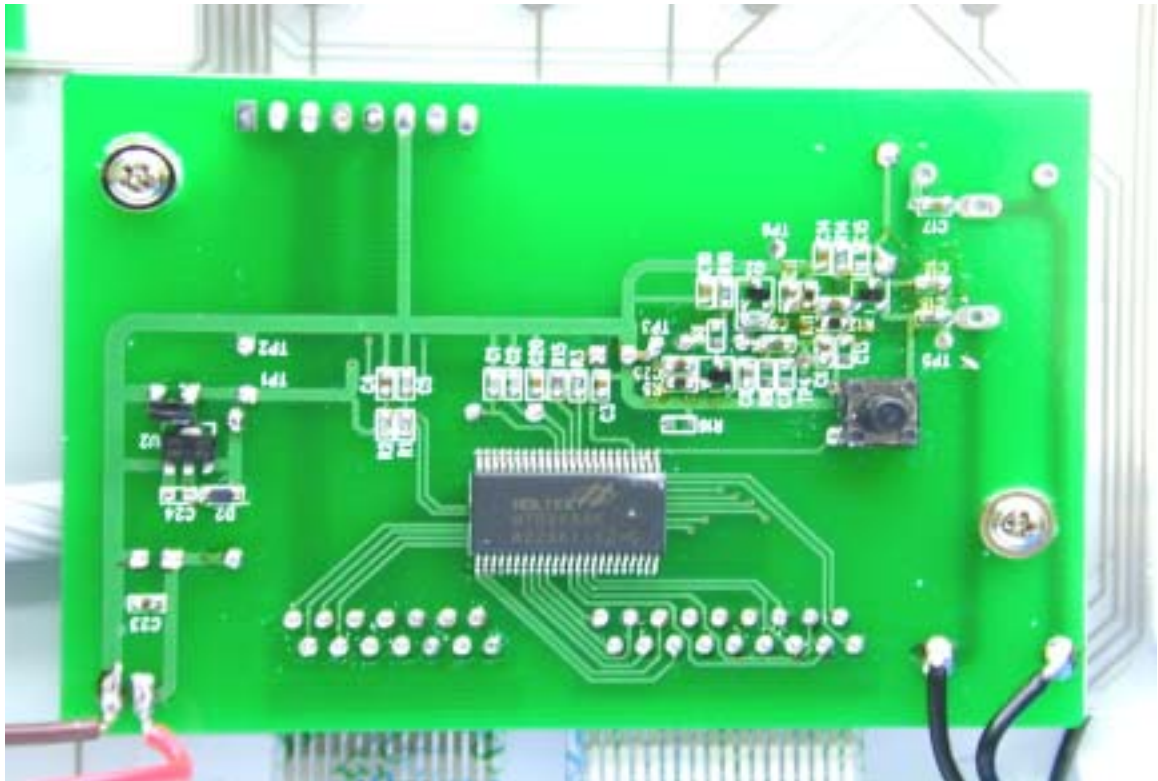
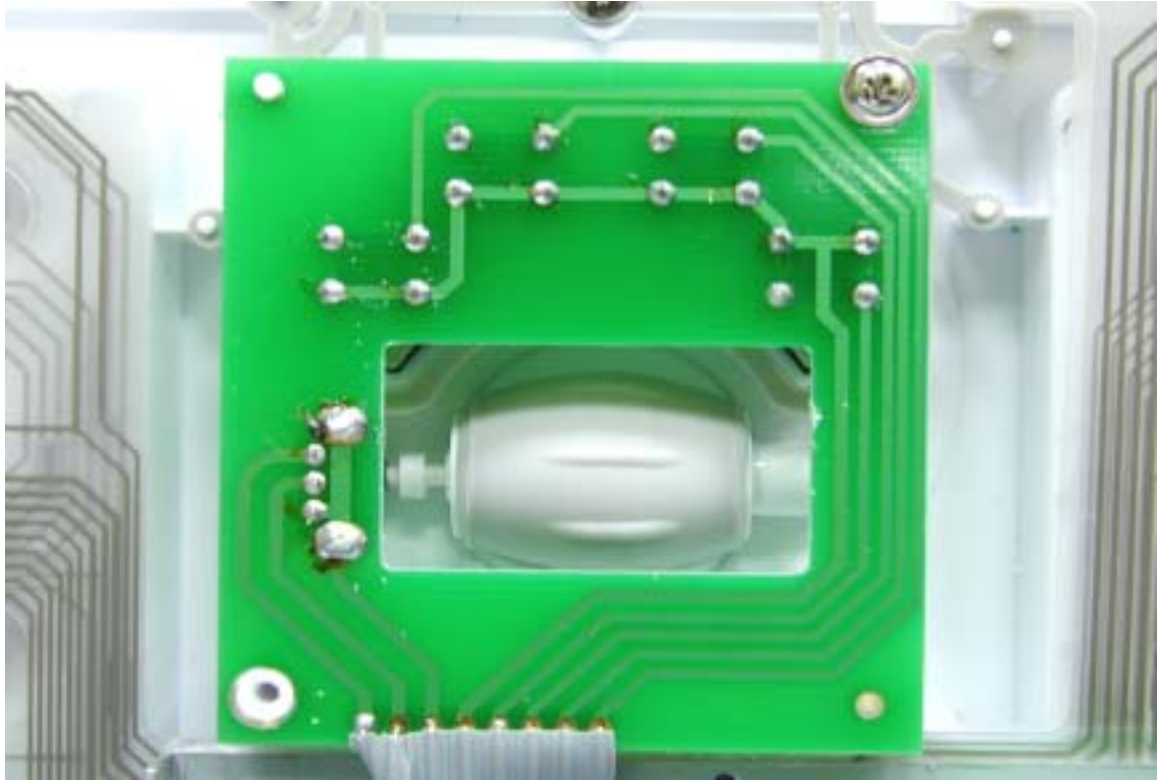


PHOTO. 7. EUT (TX) COMPONENT SIDE VIEW



FCC ID: L2BACEKEY82K

PHOTO. 8. EUT (TX) SOLDERING SIDE VIEW



VERIFICATION OF CONFORMITY FOR FCC ID

Applicant Name : SOLID YEAR CO., LTD.

Address : 2F-1, NO. 94, BAO CHUNG RD., HSIN TIEN CITY,
TAIPEI HSIEN, TAIWAN, R. O. C.

Contact Person : CHARLES LIU

EUT Type : USB Wireless Keyboard

TX Model No.: rfKEY
TX FCC ID: L2BACEKEY82K

RX Model No.: rfKEY
RX FCC ID: Under DoC

Regulation: FCC Parts 2 and 15

Limitation: Comply with Section 15.227

Date of issued: NOV. 25, 2002

Report No.: E910717

The device bearing the trade name and model specified above has been shown to comply with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-1992. (See Test Report if any modifications were made for compliance.)

PEP declare that no party to this application has been denied the NVLAP benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988 21 U.S.C. 853(a).

Peter Kao



NVLAP LAB CODE:200097-0

Peter Kao/NVLAP Signatory

DECLARATION OF CONFORMITY

EUT Model: rfKEY Receiver

To be used for EUT Model: rfKEY USB Wireless Keyboard

Responsible Party: SOLID YEAR CO., LTD.

Address: 2F-1, NO. 94, BAO CHUNG RD., HSIN TIEN CITY,
 TAIPEI HSIEN, TAIWAN, R. O. C.

Contact Person: CHARLES LIU

Tel. No.: 886-2-29156767 Fax No.: 886-2-29152525

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired

We hereby declare that the equipment bearing the trade name and model number specified above was tested conforming to the applicable FCC Rules under the most accurate measurement standards possible, and that all the necessary steps have been taken and are in force to assure that production units of the same equipment will continue to comply with the Commission's requirements.



Signature

Date