TEST REPORT

Your Ref: Date: 27 Oct 2005

Our Ref: 56S050914/01_CORR01 Page: 1 of 20

DID: +65-6885 1459 Fax: +65-6774 1459

PSB Corporation

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FORMAL REPORT ON TESTING IN ACCORDANCE WITH

FCC Parts 15B & C : 2005

OF A

RF REMOTE CONTROL [Model : RC1534802/00] [FCC ID : RCSBC15348]

TEST FACILITY Telecoms & EMC, Testing Group, PSB Corporation Pte Ltd

1 Science Park Drive, Singapore 118221

FCC REG. NO. 90937 (3m & 10m OATS)

99142 (10m Anechoic Chamber) 871638 (5m Anechoic Chamber) 325572 (10m Anechoic Chamber) IC 4257 (10m Anechoic Chamber)

IND. CANADA REG. NO. IC 4257 (10m Anechoic Chamber)

PREPARED FOR Philips Electronics Singapore Pte Ltd

Remote Control Systems 620A Lorong 1 Toa Payoh

Singapore 319762

Tel: 6882 3321 Fax: 6254 1691

JOB NUMBER 56S050914

TEST PERIOD 17 Oct 2005 – 20 Oct 2005

PREPARED BY APPROVED BY

M

Lim Cher Hwee Product Manager





Quek Keng Hua

Associate Engine





The results reported herein have been performed in accordance with the laboratory's terms of accreditation under the Singapore Accreditation Council - Singapore Laboratory Accreditation Scheme. Tests marked "Not SAC-SINGLAS Accredited" in this Report are not included in the SAC-SINGLAS Accreditation Schedule for our laboratory.



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The product was tested in accordance with the customer's specifications.

Test Results Summary

Test Standard	Description	Pass / Fail
FCC Part 15: 2005		
15.107(a), 15.207	Conducted Emissions	Not Applicable *See Note 2
15.109(a), 15.205, 15.209	Radiated Emissions (Spurious Emissions inclusive Restricted Bands Requirement)	Pass
15.231(b)	Radiated Emissions (Fundamental and Harmonics)	Pass
15.231(c)	20dB Bandwidth	Pass
15.231(d)	Band Edge Compliance	Not Applicable *See Note 3
15.231(d)	Frequency Stability Versus Temperature	Not Applicable *See Note 3
15.231(d)	Frequency Stability Versus Input Voltage	Not Applicable *See Note 3
15.35(c)	Duty Cycle Factor Computation	Refer to page 19-20 for details



Notes

- The EUT is a Class B device when in non-transmitting state and meets the FCC Part15B Class B requirements.
- 2. The Equipment Under Test (EUT) is a battery-operated device and contains no provision for public utility connections.
- 3. The Band Edge and Frequency Tolerance tests are not applicable, as the carrier of the Equipment Under Test (EUT) is no in 40.66MHz 40.70MHz band.
- 4. The declaration of Philips Electronics Singapore Pte Ltd is as following:

The models **RC1534802/00**, **RC1534804/00** and **RC1534806/00** are identical models in term of components, circuitry design, PCB layout and mechanical structure, and the difference between the these models are:

a. Printing on textplate, keymat and top part

The model RC1534802/00 is the worse case model between the two declared models in view of EMC, and if model RC1534802/00 pass the EMC test, the model RC1534804/00 and RC1534806/00 can be deemed to pass the same test.

5. Model RC1534802/00 was tested and passed the EMC tests listed in the above table, therefore, the model RC1534804/00 and RC1534806/00 can be deemed to pass the same tests based on the manufacturer's declaration.

Modifications

1. No modifications were made.



PRODUCT DESCRIPTION

Description : The Equipment Under Test (EUT) is a **RF Remote Control**.

Manufacturer : Philips Electronics Singapore Pte Ltd – Remote Control Systems

Model Number : RC1534802/00

FCC ID : RCSBC15348

Serial Number : 3139 228 67401

Microprocessor : Refer To Manufacturer

Operating / Transmitting

Frequency

RF – 433.92MHz ± 14kHz

Clock / Oscillator Frequency : 8MHz & 13.56MHz

Modulation : Frequency Shift Keying (FSK)

Port / Connectors : Refer to manufacturers' user manual / operating manual.

Rated Input Power : 2.4VDC – 3.3VDC

Accessories : Nil



SUPPORTING EQUIPMENT DESCRIPTION

Equipment Description	Model, Serial & FCC ID Number	Cable Description
(Including Brand Name)		(List Length, Type & Purpose)
Dell Laptop	M/N: D400	100m unshielded power cable
	S/N: 9741415168	
	FCC ID: E2K24GBRL	
Power Adapter (Laptop)	M/N: PA1650 05D	1.00m unshielded power cable
	S/N: CN-05U092-71615-4B	
	FCC ID: DoC	
Dell Mouse	M/N: M-UVDEL1	1.80m standard mouse cable
	S/N: LNA44055721	
	FCC ID: DoC	
RF Dongle	M/N: OVU 500201/00RE	1.50m standard USB cable
	S/N: 05063360	
	FCC ID: DoC	

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EUT OPERATING CONDITIONS

FCC Part 15

- 1. Radiated Emissions (Spurious Emissions inclusive Restricted Bands Requirement)
- 2. Radiated Emissions (Fundamental and Harmonics)
- 3. 20dB Bandwidth
- 4. Duty Cycle Factor Computation

The EUT was exercised by operating in following modes:

1. RF mode with maximum continuous transmission in test mode, i.e transmitting at 433.92MHz

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FCC Part 15.205 Restricted Bands

N	ЛHz	<u>.</u>	I	ИΗ	Z		МН	Z	(3Hz	Z
0.090	-	0.110	16.42	-	16.423	399.9	-	410	4.5	-	5.15
0.495	-	0.505	16.69475	-	16.69525	608	-	614	5.35	-	5.46
2.1735	-	2.1905	16.80425	-	16.80475	960	-	1240	7.25	-	7.75
4.125	-	4.128	25.5	-	25.67	1300	-	1427	8.025	-	8.5
4.17725	-	4.17775	37.5	-	38.25	1435	-	1626.5	9.0	-	9.2
4.20725	-	4.20775	73	-	74.6	1645.5	-	1646.5	9.3	-	9.5
6.215	-	6.218	74.8	-	75.2	1660	-	1710	10.6	-	12.7
6.26775	-	6.26825	108	-	121.94	1718.8	-	1722.2	13.25	-	13.4
6.31175	-	6.31225	123	-	138	2200	-	2300	14.47	-	14.5
8.291	-	8.294	149.9	-	150.05	2310	-	2390	15.35	-	16.2
8.362	-	8.366	156.52475	-	156.52525	2483.5	-	2500	17.7	-	21.4
8.37625	-	8.38675	156.7	-	156.9	2690	-	2900	22.01	-	23.12
8.41425	-	8.41475	162.0125	-	167.17	3260	-	3267	23.6	-	24.0
12.29	-	12.293	167.72	-	173.2	3332	-	3339	31.2	-	31.8
12.51975	-	12.52025	240	-	285	3345.8	-	3358	36.43	-	36.5
12.57675	-	12.57725	322	-	335.4	3600	-	4400	Abo	ve :	38.6
13.36	-	13.41									

FCC Parts 15.109(a) and 15.209 Radiated Emission Limits

Frequency Range (MHz)	Quasi-Peak Limit Values (dBµV/m) @ 3m			
30 - 88	40.0			
88 - 216	43.5			
216 - 960	46.0			
Above 960	54.0*			
* Above 1GHz, average detector was used. A peak limit of 20dB above the average limit does apply.				

FCC Parts 15.109(a) and 15.209 Radiated Emission Test Instrumentation

Instrument	Model	S/No	Cal Due Date
R&S Test Receiver (20Hz-26.5GHz) –	ESMI	829214/006	18 Apr 2006
ESMIE		829550/001	
Agilent Preamplifier (0.01-4GHz) – PA6	87405B	MY39500338	02 Aug 2006
Schaffner Bilog Antenna – BL9	CBL6143	5045	19 May 2006

RADIATED EMISSION TEST

FCC Parts 15.109(a) and 15.209 Radiated Emission Test Setup

- 1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m X 1.0m X 0.8m high, non-metallic table.
- The filtered power supply for the EUT and supporting equipment were tapped from the appropriate power sockets located on the turntable. 2.
- The relevant broadband antenna was set at the required test distance away from the EUT and 3. supporting equipment boundary.

FCC Parts 15.109(a) and 15.209 Radiated Emission Test Method

- 1. The EUT was switched on and allowed to warm up to its normal operating condition.
- A prescan was carried out to pick the worst emission frequencies from the EUT. For EUT which 2. is a portable device, the prescan was carried out by rotating the EUT through three orthogonal axes to determine which attitude and equipment arrangement produces such emissions.
- 3. The test was carried out at the selected frequency points obtained from the prescan in step 2. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner:
 - Vertical or horizontal polarisation (whichever gave the higher emission level over a full a. rotation of the EUT) was chosen.
 - b. The EUT was then rotated to the direction that gave the maximum emission.
- c. Finally, the antenna height was adjusted to the height that gave the maximum emission. A Quasi-peak measurement was made for that frequency point if it was less than or equal to 1GHz. For frequency point that above 1GHz, both Peak and Average measurements were 4.
- 5. Steps 3 and 4 were repeated for the next frequency point, until all selected frequency points were measured.
- The frequency range covered was from 30MHz to 10th harmonics of the EUT fundamental 6. frequency, using the Bi-log antenna for frequencies from 30MHz up to 3GHz, and the Horn antenna above 3GHz.

Sample Calculation Example

At 300 MHz

Q-P limit (Class B) = 200 μ V/m = 46.0 dB μ V/m

Log-periodic antenna factor & cable loss at 300 MHz = 18.5 dB

Q-P reading obtained directly from EMI Receiver = 40.0 dB_µV/m

(Calibrated level including antenna factors & cable losses)

Therefore, Q-P margin = 40.0 - 46.0 = -6.0

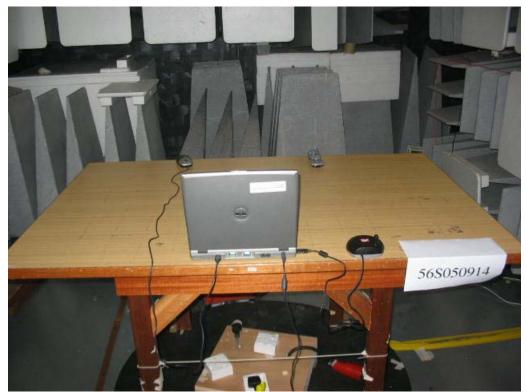
i.e. 6 dB below Q-P limit

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[FCC ID: RCSBC15348]



Radiated Emissions Test Setup (Front View)



Radiated Emissions Test Setup (Rear View)

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RADIATED EMISSION TEST

FCC Parts 15.109(a), 15.205 and 15.209 Radiated Emission Results

Test Input Power	2 x 1.5V DC Battery	Temperature	22°C
Test Distance	3m	Relative Humidity	55%
Operating Mode	RF Mode	Atmospheric Pressure	1030mbar
		Tested By	Chua Choon Meng

Spurious Emissions ranging from 30MHz – 1GHz

Frequency (MHz)	Q-P Value (dBμV/m)	Q-P Margin (dB)	Azimuth (Degrees)	Height (cm)	Polarisation (H/V)
486.1180	31.6	-14.4	28	100	V
569.2003	34.7	-11.3	0	100	V
601.9998	30.6	-15.4	303	100	V
632.0174	30.2	-15.8	267	100	V
876.4213	31.8	-14.2	175	100	V
903.0174	30.2	-15.8	267	100	V

Spurious Emissions above 1GHz

Frequency (GHz)	Peak Value (dBμV/m)	Average Value (dBμV/m)	Average Margin (dB)	Azimuth (Degrees)	Height (cm)	Pol (H/V)
		-				

<u>Notes</u>

- 1. All possible modes of operation were investigated. Only the worst case emissions measured, using the correct CISPR detectors, are reported. All other emissions were relatively insignificant.
- 2. "--" indicates no emissions were found and shows compliance to the limits.
- 3. Quasi-peak measurement was used for frequency measurement up to 1GHz. Average and peak measurements were used for emissions above 1GHz. The average measurement was done by averaging over a complete cycle of the pulse train, including the blanking interval as the pulse train duration does not exceed 0.1 second.
- 4. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
- 5. EMI receiver Resolution Bandwidth (RBW) and Video Bandwidth (VBW) settings:

30MHz - 1GHz

RBW: 120kHz VBW: 1MHz

>1GHz

RBW: 1MHz VBW: 1MHz

- 6. The upper frequency of radiated emission investigations was according to requirements stated in Section 15.33(a) for intentional radiators & Section 15.33(b) for unintentional radiators.
- 7. Radiated Emissions Measurement Uncertainty
 All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95%, with a coverage factor of 2, in the range 30MHz 25GHz (QP only @ 3m & 10m) is ±4.3dB (for EUTs < 0.5m X 0.5m X 0.5m).

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RADIATED EMISSION (FUNDAMENTAL AND HARMONICS) TEST

FCC Part 15.231(b) Radiated Emission (Fundamental and Harmonics) Limits

Field Strength of Fundamental Limit Values @ 3m (dBµV/m) *	Field Strength of Harmonics Limit Values @ 3m (dBµV/m) *
67.0	47.0
62.0	42.0
62.0 to 71.5 **	42.0 to 51.5 **
71.5	51.5
71.5 to 82.0 **	51.5 to 62.0 **
82.0	62.0
	Limit Values @ 3m (dBμV/m) * 67.0 62.0 62.0 to 71.5 ** 71.5 71.5 to 82.0 **

^{*} Average detector employed. A peak limit of 20dB above the average limit does apply.

Note:

Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows. The maximum permitted unwanted emission level (harmonic) is 20dB below the maximum permitted fundamental level.

- Band 130MHz 174MHz
 20 log [56.81818(F) 6136.3636]
- Band 260MHz 470MHz
 20 log [41.6667(F) 7083.3333]

FCC Parts 15.231(b) Radiated Emission (Fundamental and Harmonics) Test Instrumentation

Instrument	Model	S/No	Cal Due Date
R&S Test Receiver (20Hz-26.5GHz) –	ESMI	829214/006	18 Apr 2006
ESMIE		829550/001	
Agilent Preamplifier (0.01-4GHz) – PA6	87405B	MY39500338	02 Aug 2006
Schaffner Bilog Antenna – BL9	CBL6143	5045	19 May 2006
MITEQ Preamplifier (0.1-26.5GHz) – PA11	NSP2650-N	728231	01 Apr 2006
EMCO Horn Antenna – H15	3115	0003-6088	19 May 2006

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^{**} Liner interpolations (in μV/m).



RADIATED EMISSION (FUNDAMENTAL AND HARMONICS) TEST

FCC Part 15.231(b) Radiated Emission (Fundamental and Harmonics) Test Setup

1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m X 1.0m X 0.8m high, non-metallic table.

The filtered power supply for the EUT and supporting equipment were tapped from the appropriate power sockets located on the turntable. 2.

The relevant broadband antenna was set at the required test distance away from the EUT and 3. supporting equipment boundary.

FCC Part 15.231(b) Radiated Emission (Fundamental and Harmonics) Test Method

The EUT was switched on and allowed to warm up to its normal operating condition. 1.

2. A prescan was carried out to pick the fundamental and harmonics emission frequencies from the EUT. For EUT which is a portable device, the prescan was carried out by rotating the EUT through three orthogonal axes to determine which attitude and equipment arrangement produces such emissions.

3. The test was carried out at the selected frequency points obtained from the prescan in step 2. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner:

Vertical or horizontal polarisation (whichever gave the higher emission level over a full

rotation of the EUT) was chosen.

b. The EUT was then rotated to the direction that gave the maximum emission.

Finally, the antenna height was adjusted to the height that gave the maximum emission.

A Quasi-peak measurement was made for that frequency point if it was less than or equal to 1GHz. For frequency point that above 1GHz, both Peak and Average measurements were 4. carried out.

5. Steps 3 and 4 were repeated for the next frequency point, until all selected frequency points were measured.

The frequency range covered was from the EUT fundamental frequency until its 10th harmonics, 6. using the Bi-log antenna for frequencies from 30MHz up to 3GHz, and the Horn antenna above 3GHz.

Sample Calculation Example

At 300 MHz

a.

Q-P limit (Class B) = 200 μ V/m = 46.0 dB μ V/m

Log-periodic antenna factor & cable loss at 300 MHz = 18.5 dB

Q-P reading obtained directly from EMI Receiver = 40.0 dB_µV/m

(Calibrated level including antenna factors & cable losses)

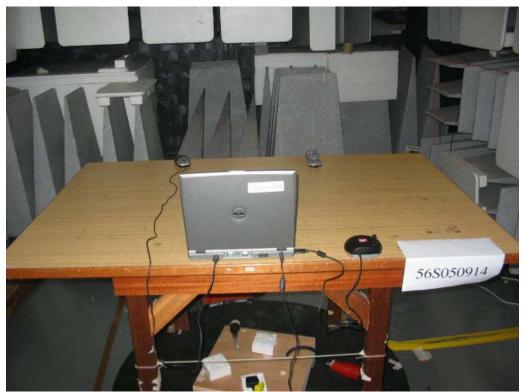
Therefore, Q-P margin = 40.0 - 46.0 = -6.0

i.e. 6 dB below Q-P limit

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Radiated Emissions Test Setup (Front View)



Radiated Emissions Test Setup (Rear View)

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RADIATED EMISSION (FUNDAMENTAL AND HARMONICS) TEST

FCC Part 15.231(b) Radiated Emission (Fundamental and Harmonics) Results

Test Input Power	2 x 1.5V DC Battery	Temperature	22°C
Test Distance	3m	Relative Humidity	55%
Operating Mode	RF mode	Atmospheric Pressure	1030mbar
		Tested By	Chua Choon Meng

Frequency (GHz)	Peak Value	Average Value	Average Margin	Azimuth (Degrees)	Height (cm)	Pol (H/V)	Note
	(dBμV/m)	(dBμV/m)	(dB)				
433.9097	80.5	66.3	-9.9	153	158	V	Fundamental
867.7489	46.1	31.9	-22.8	315	100	V	Harmonics
1301.6498	56.0	41.8	-12.1	305	100	V	Harmonics
1735.8505	52.9	38.7	-14.5	233	100	V	Harmonics
2603.4203	53.8	39.6	-12.8	320	100	V	Harmonics
3037.2498	56.0	41.8	-10.2	280	100	V	Harmonics

Notes

- 1. All possible modes of operation were investigated. Only the worst case emissions measured, using the average and peak detectors, are reported. All other emissions were relatively insignificant.
- 2. The average measurement was done by averaging over a complete cycle of the pulse train, including the blanking interval as the pulse train duration does not exceed 0.1 second.
- 3. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
- 4. EMI receiver Resolution Bandwidth (RBW) and Video Bandwidth (VBW) settings:

30MHz - 1GHz

RBW: 120kHz VBW: 1MHz

>1GHz

RBW: 1MHz VBW: 1MHz

- 5. The upper frequency of radiated emission investigations was according to requirements stated in Section 15.33(a) for intentional radiators & Section 15.33(b) for unintentional radiators.
- 6. Radiated Emissions Measurement Uncertainty
 All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95%, with a coverage factor of 2, in the range 30MHz 25GHz (QP only @ 3m & 10m) is ±4.3dB (for EUTs < 0.5m X 0.5m X 0.5m).

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FCC Part 15.231(c) 20dB Bandwidth Limits

The EUT shows compliance to the requirements of this section, which states that the bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70MHz and below 900MHz. For devices operating above 900MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20dB down from the modulated carrier.

FCC Part 15.231(c) 20dB Bandwidth Test Instrumentation

Instrument	Model	S/No	Cal Due Date
R&S Test Receiver (20Hz-26.5GHz) –	ESMI	829214/006	18 Apr 2006
ESMIE		829550/001	
Agilent Preamplifier (0.01-4GHz) – PA6	87405B	MY39500338	02 Aug 2006
Schaffner Bilog Antenna – BL9	CBL6143	5045	19 May 2006

FCC Part 15.231(c) 20dB Bandwidth Test Setup

- 1. The EUT and supporting equipment were set up as shown in the setup photo.
- The power supply for the EUT was connected to a filtered mains.
- 3. The resolution bandwidth (RBW) and the video bandwidth (VBW) of the spectrum analyser were respectively set to 120kHz and 1MHz.
- 4. All other supporting equipment were powered separately from another filtered mains.

FCC Part 15.231(c) 20dB Bandwidth Test Method

- 1. The EUT was switched on and allowed to warm up to its normal operating condition. The EUT was then configured to operate in the test mode, non-hopping with transmitting frequency at 433.92MHz.
- 2. The center frequency of the spectrum analyser was set to the transmitting frequency with the frequency span wide enough to capture the 20dB bandwidth of the transmitting frequency.
- 3. The spectrum analyser was set to max hold to capture the transmitting frequency. The signal capturing was continuous until no further changes were observed.
- 4. The peak of the transmitting frequency was detected with the marker peak function of the spectrum analyser. The frequencies below the 20dB peak frequency at lower (f_L) and upper (f_H) sides of the transmitting frequency were marked and measured by using the marker-delta function of the spectrum analyser.
- 5. The 20dB bandwidth of the transmitting frequency is the frequency difference between the marked lower and upper frequencies, $|f_H f_L|$.

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20dB Bandwidth Test Setup

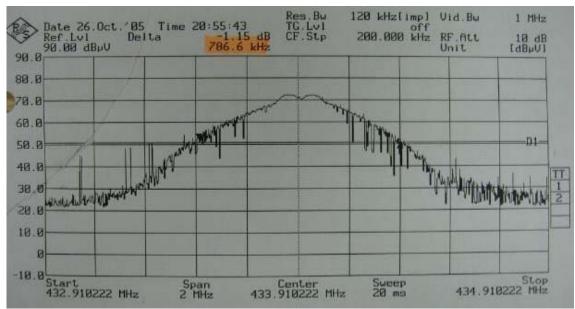
FCC Part 15.231(c) 20dB Bandwidth Results

Test Input Power	110V 60Hz	Temperature	22°C
Test Distance	3m	Relative Humidity	55%
		Atmospheric Pressure	1030mbar
		Tested By	Chua Choon Meng

Channel Frequency (MHz)	20dB Bandwidth (MHz)	
433.92	0.7866	

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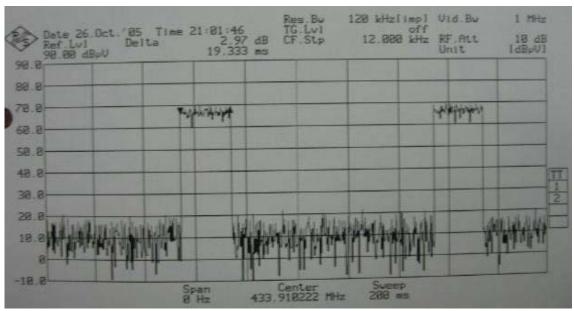
20dB Bandwidth Plots



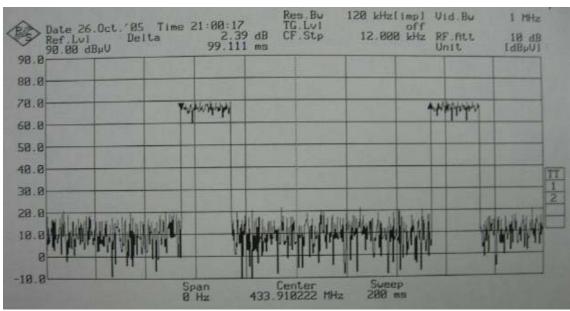
Channel Frequency 433.9MHz

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FCC Part 15.35(c) Duty Cycle Correction Factor



On Time



Period

Duty Cycle Factor (worst-case)

- = 20 log [Total On time / Period] = 20 log [(19.3330 / 99.1110)]
- = <u>-14.2d</u>B



This Report is issued under the following conditions:

- Results of the testing/calibration in the form of a report will be issued immediately after the service has been completed or terminated.
- Unless otherwise requested, a report shall contain only technical results. Analysis and interpretation of the results and professional opinion and recommendations expressed thereupon, if required, shall be clearly indicated and additional fee paid for, by the Client.
- 3. This report applies to the sample of the specific product/equipment given at the time of its testing/calibration. The results are not used to indicate or imply that they are applicable to other similar items. In addition, such results must not be used to indicate or imply that PSB Corporation approves, recommends or endorses the manufacturer, supplier or user of such product/equipment, or that PSB Corporation in any way "guarantees" the later performance of the product/equipment.
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- Unless otherwise stated, the tests are carried out in PSB Corporation Pte Ltd, No.1 Science Park Drive Singapore 118221.

May 2005



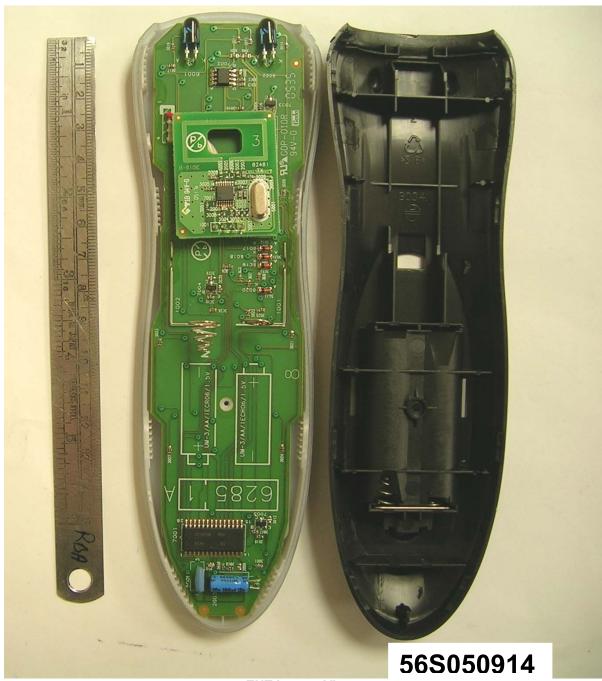
ANNEX A EUT PHOTOGRAPHS / DIAGRAMS



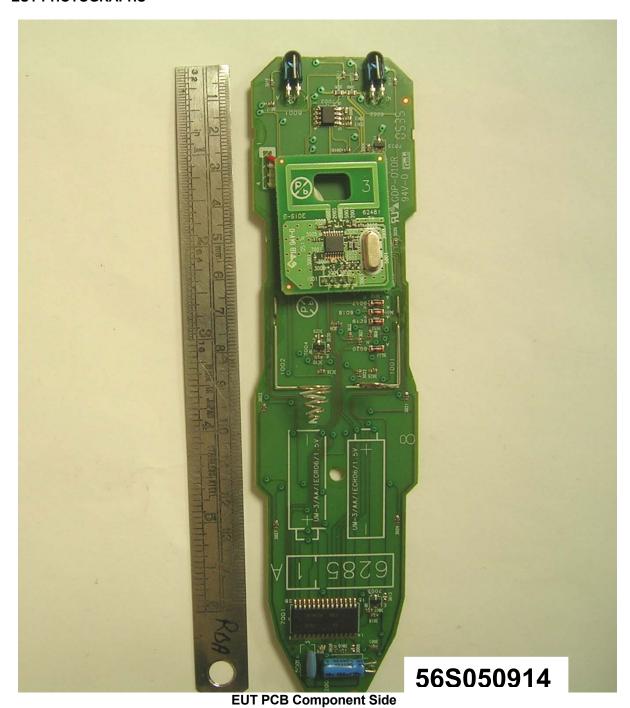
Front View



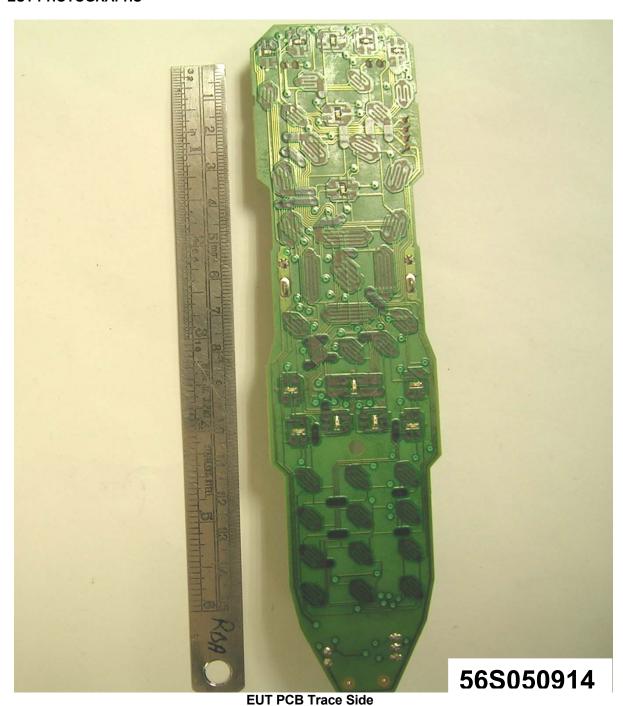
Rear View



EUT Layout View



56S050914/01_CORR01





RF Module Circuit



ANNEX B FCC LABEL & POSITION



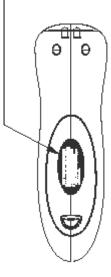
Labelling requirements per Section 2.925 & 15.19

The label shown will be permanently affixed at a conspicuous location on the device and be readily visible to the user at the time of purchase.

FCC ID: RCSBC15348

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
2. This device must accept any interference received, including interference that may cause undesired operation.

Sample Label



Physical Location of FCC Label on EUT

ANNEX C

ANNEX C

USER MANUAL TECHNICAL DESCRIPTION BLOCK & CIRCUIT DIAGRAMS

(Please refer to manufacturer for details)