



**SGS-CSTC Standards
Technical Services Ltd.**

1/F., Building No. 1 Building, Agriculture Machinery Materials Co. Wushan
Road, Shipai, Tianhe District, Guangzhou, China
Telephone: +86 (0) 20 3848 1001 Fax: +86 (0) 20 3848 1006
kent_hsu@sgs.com



FEDERAL COMMUNICATIONS COMMISSION
Registration number: 282399

Report No.: **GLEMO040600420RFF**
Page: 1 of 10
FCC ID: HQZ9434

FCC TEST REPORT

Application No. : GLEMO040600420RF (SGS SZ NO. SZTYR040603650/TS)

Applicant : GOLDMEN ELECTRONIC CO., LTD. (HK)

FCC ID : HQZ9434

Fundamental Frequency: 49.860MHz

Equipment under Test (EUT):

Name : Talk-Line Walkie-Talkie (Watch)

Model : 9434 (REF: 009434, 9440, 9434F, 9434U, 9440F, 9440U) *

* Please refer to section 3.5 of this report which indicates which model was actually tested and which models are electrically identical.

Standards : FCC PART 15, SUBPART C: 2003
Section 15.235

Date of Receipt : 25 June 2004

Date of Test : 05 July 2004

Date of Issue : 15 July 2004

Test Result :	PASS *
----------------------	---------------

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Kent Hsu
Laboratory Manager

This report refers to the General Conditions for Inspection and Testing Services, printed overleaf. This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the SGS PRODUCT CERTIFICATION MARK. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

2 Contents

	Page
1 COVER PAGE.....	1
2 CONTENTS	2
3 GENERAL INFORMATION.....	3
3.1 CLIENT INFORMATION	3
3.2 DETAILS OF E.U.T.	3
3.3 DESCRIPTION OF SUPPORT UNITS.....	3
3.4 TEST LOCATION	3
3.5 OTHER INFORMATION REQUESTED BY THE CUSTOMER.....	3
3.6 TEST FACILITY.....	4
4 TEST RESULTS.....	5
4.1 TEST INSTRUMENTS	5
4.2 E.U.T. OPERATION	5
4.3 TEST PROCEDURE & MEASUREMENT DATA.....	5
4.3.1 <i>Radiated Emissions</i>	5
4.3.2 <i>Occupied Bandwidth</i>	7
4.3.3 <i>Photographs - Radiated Emission Test Setup in Chamber</i>	8
5 PHOTOGRAPHS - EUT CONSTRUCTIONAL DETAILS	9-10

3 General Information

3.1 Client Information

Applicant: GOLDMEN ELECTRONIC CO., LTD. (HK)
Address of Applicant: Unit 7-10, 12/F Harbour Crystal Ctr
100 Granville Road. TST. KW. HK.

3.2 Details of E.U.T.

Product Name: Talk-Line Walkie-Talkie (Watch)
Model: 9434 (REF: 009434, 9440, 9434F, 9434U, 9440F, 9440U) ♦
♦ Please refer to section 3.5 of this report which indicates which model was actually tested and which models are electrically identical.
Power Supply: 3V DC (2 x 'AAA' Battery) and 1.5V DC (1 x 'LR44')
Power Cord: N/A-

3.3 Description of Support Units

The EUT was tested as an independent unit: a 49MHz radio transmitter.

3.4 Test Location

All tests were performed at:-

SGS-CSTC Standards Technical Services Ltd., Guangzhou Safety & EMC Laboratory, 1/F, Building No. 1, Agriculture Machinery Materials Company Warehouse Ltd., Wushan Road Shipai, Tianhe District, Guangzhou, China. P.C. 510630.

Tel: +86 20 3848 1001

Fax: +86 20 3848 1006

3.5 Other Information Requested by the Customer

Only one model was tested since all models listed in page 1 of this report had the same inner circuit and PCB with the only difference being the outer shape and color. For further details please refer to the facsimile from Winnie Pang of Goldmen Electronic Co., Ltd., dated 29 April 2004.

3.6 Test Facility

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

- **NVLAP – Lab Code: 200611-0**
SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is recognized under the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0. Effective through December 31, 2004.
- **ACA**
SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.
- **VCCI**
The 3m Semi-anechoic chamber and Shielded Room (11.5m x 4m x 4m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-1599 and C-1706 respectively.
Date of Registration: February 28, 2003. Valid until May 30, 2005
- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**
Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.
- **CNAL – LAB Code: L0141**
SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAL/AC01: 2002 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of Testing Laboratories.
- **FCC – Registration No.: 282399**
SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002. With the above and NVLAP's accreditation, SGS-CSTC is an authorised test laboratory for the DoC process.
SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAL/AC01: 2002 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of Testing Laboratories.
- **Industry Canada (IC)**
The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5169.

4 Test Results

4.1 Test Instruments

Test Equipment	Manufacturer	Model	Serial No.	Cal. Due Date
3m Semi- Anechoic Chamber	Frankonia	N/A	N/A	15-02-2005
EMI Test Receiver	Rohde & Schwarz	ESCS30	100085	04-11-2004
EMI Test Software	Rohde & Schwarz	ES-K1	N/A	N/A
Coaxial cable	SGS	N/A	N/A	04-12-2004
Bilog Type Antenna	Schaffner -Chase	CBL6143	5070	17-01-2005
Horn Antenna	Rohde & Schwarz	HF906	100095	01-04-2005
Spectrum Analyzer	Rohde & Schwarz	FSP30	100324	22-12-2004
0.1-1300 MHz Pre-Amplifier	HP	8447D OPT 010	2944A0625 2	30-05-2005
1-26.5 GHz Pre-Amplifier	Agilent	8449B	3008A0164 9	25-01-2005

4.2 E.U.T. Operation

Input voltage: 3V DC (2 x 'AAA' Battery) and 1.5V DC (1 x 'LR44')

Operating Environment:

Temperature: 24.0 °C

Humidity: 56 % RH

Atmospheric Pressure: 1012 mbar

EUT Operation:

Test the EUT in transmitting and receiving mode.

4.3 Test Procedure & Measurement Data

4.3.1 Radiated Emissions

Test Requirement: FCC Part15 C

Test Method: Based on ANSI C63.4

Test Date: 05 July 2004

Measurement Distance: 3m (Semi-Anechoic Chamber)

Requirements: Carrier frequency will not exceed 80dB_uV/m AT 3m.

Out of band emissions shall not exceed:

40.0 dB_uV/m between 30MHz & 88MHz

43.5 dB_uV/m between 88MHz & 216MHz

46.0 dB_uV/m between 216MHz & 960MHz

54.0 dB_uV/m above 960MHz

Detector: Peak Scan (120kHz resolution bandwidth)

Test Procedure: The procedure used was ANSI Standard C63.4-2001. The receiver was scanned from 30MHz to 1000MHz. When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. The worst case emissions were reported.

An initial pre-scan was performed in the 3m chamber using the spectrum analyser in peak detection mode. The EUT was measured by Bilog antenna with 2 orthogonal polarities and peak emissions from the EUT were detected within 6dB of the class B limit line.

The following measurements were performed on the EUT on 05 July 2004:

Test the EUT in transmitting and receiving mode.

Intentional emission

Test Frequency (MHz)	Peak (dBuV/m)		Limits (dBuV/m)	Margin (dB)	
	Vertical	Horizontal		Vertical	Horizontal
49.860	43.5	39.6	100.0	56.5	60.4

Test Frequency (MHz)	Average (dBuV/m)		Limits (dBuV/m)	Margin (dB)	
	Vertical	Horizontal		Vertical	Horizontal
49.860	43.4	38.7	80.0	36.6	41.3

Other emissions

Test Frequency (MHz)	Quasi-Peak (dBuV/m)		Limits (dBuV/m)	Margin (dB)	
	Vertical	Horizontal		Vertical	Horizontal
99.720	28.3	17.3	40.0	11.7	22.7
149.580	29.6	16.5	40.0	10.4	23.5
199.440	26.3	19.9	43.5	17.2	23.6
249.300	24.3	22.1	43.5	19.2	21.4
299.160	23.5	23.2	43.5	20.0	20.3
349.020	26.3	23.5	43.5	17.2	20.0
398.880	27.6	22.3	46.0	18.4	23.7
448.740	28.5	22.3	46.0	17.5	23.7
498.600	39.5	24.8	46.0	6.5	21.2

Remark:

According to 15.35 (b) When average radiated emission measurements are specified in the regulations, including emission measurements below 1000 MHz, there is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules, e.g., see Section 15.255.

Test Results: The unit does meet the FCC Part 15 C Section 15.235 requirements.

4.3.2 Occupied Bandwidth

Test Requirement:

FCC Part15 C

Test Method:

Based on ANSI C63.4

Test Date:

Operation within the band 49.82 – 49.90 MHz

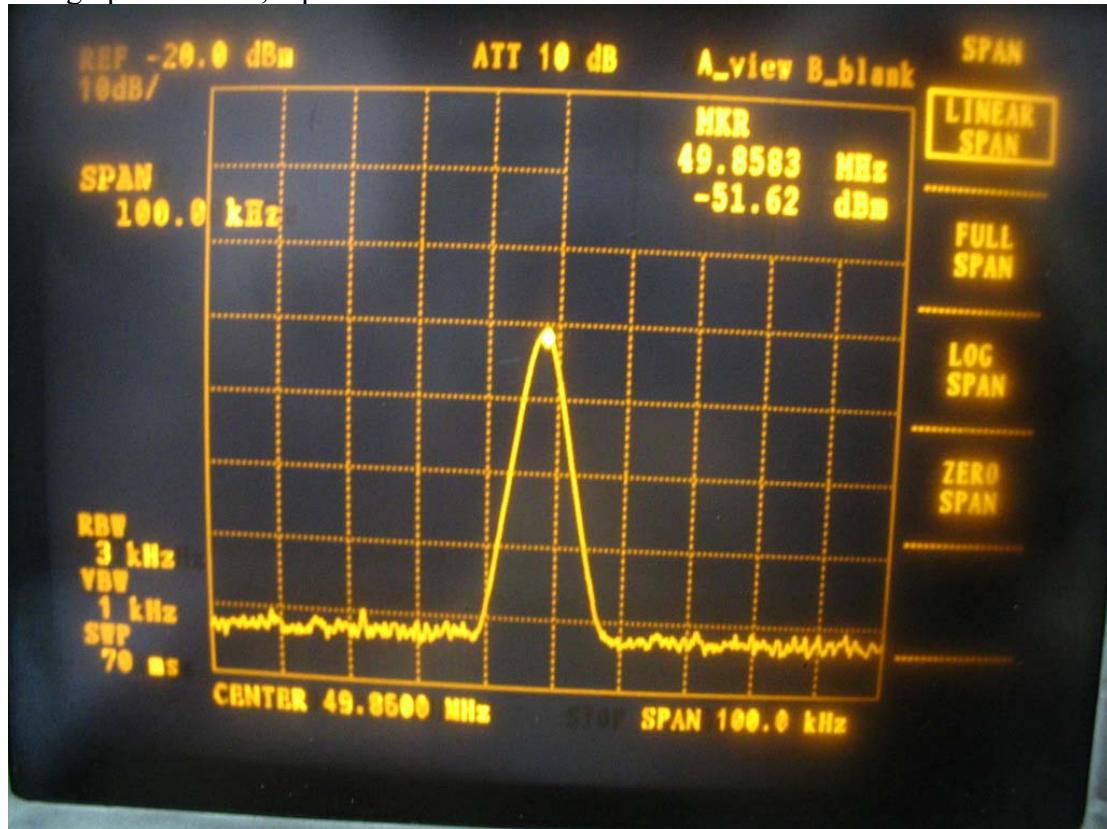
05 July 2004

Requirements:

The field strength of any emissions appearing between the band edges and up to 10 kHz above and below the band edges shall be attenuated at least 26 dB below the level of the unmodulated carrier or to the general limits in Section 15.209, whichever permits the higher emission levels. The field strength of any emissions removed by more than 10 kHz from the band edges shall not exceed the general radiated emission limits in Section 15.209.

Method of measurement: The useful radiated emission from the EUT was detected by the spectrum analyer with peak detector. The vertical Scale is set to – 10dB per division. The horizontal scale is set to 5KHz per division.

The graph as below, represents the emissions take for this device.



The results: The unit does meet the FCC Part 15 C Section 15.235 requirements.