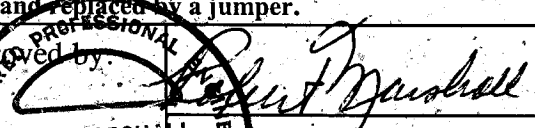
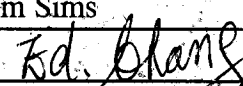


Marstech Limited

11 Kelfield Street, Etobicoke, Ontario, Canada, M9W 5A1
 Telephone (416) 246-1116, Fax (416) 246-1020

TEST REPORT		
REPORT DATE:	6 January 1999	REPORT NO: 98516D
CONTENTS:	See Table of Contents	
SUBMITTOR:	THOMSON CONSUMER ELECTRONICS, INC. Audio & Communications Product Dev. 101 West 103rd Street Indianapolis, IN 46290-1102 USA	
SUBJECT:	Model No:	26700XXX-A (New Version of 2-9750(XXXX))
	FCC ID:	G9H2-9750
TEST SPECIFICATION	FCC CFR 47 15.233 AND 2.989 Sections: 15.35, 15.107, 15.109, 15.207 and 15.209 NOTE: Tests Conducted Are "Type" Tests.	
DATE SAMPLE RECEIVED:	7 December 1998	DATE TESTED: 16 & 17 December 1998
	RESULTS: Equipment tested complies with referenced specification.	
ALTERATIONS	The following alterations are required for compliance with referenced specification: Base Unit: 1. C36, 68pF capacitor was changed to 150pF. 2. R57, 2.2KΩ resistor was changed to 3.3KΩ. 3. F1, 10 Ω 1/2W resistor was changed to Polyswitch (TR600-150) or 350mA slow blow fuse. 4. R33, 47Ω 1/2W resistor was deleted and replaced by a jumper.	
Tested by:	Original signed by:	Approved by:
	Jim Sims	
		R. G. MARSHALL Robert G. Marshall, P. Eng.
	Edward Chang	Date: 7 Jan 26/99
THIS REPORT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF MARSTECH LIMITED. This report was prepared by Marstech Limited for the account of the "Submittor". The material in it reflects Marstech's judgement in light of the information available to it at the time of preparation. Any use which a Third Party makes of this report, or any reliance on decisions to be made based on it, are the responsibility of such Third Parties. Marstech accepts no responsibility for damages, if any, suffered by any Third Party as a result of decisions made or actions based on this report.		

Authorized by:
 Professional Engineers
 Ontario

Engineering &
 Administrative



Testing For FCC
 Submissions/Verifications

Approved Test Facility



TECHNICAL REPORT - FCC 2.1033(b)

Applicant

Thomson Consumer Electronics, Inc.
Audio & Communications Product Dev.
101 West 103rd Street
Indianapolis, IN
46290-1102 USA

FCC Identifier

G9H2-9750

Manufacturer

Dongguan CCT Telecommunications Products Co. Ltd.
No. 13 - 16, Hong Yie Dong San Road
Hong Yie Economic Development Zone, Tang Xia Zhen
Dongguan, Guangdong Province, The PRC

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A Installation and Operating Instructions Furnished to the User.	2.1033(b)(3)	Exhibit A Exhibit A(1)-1
B Description of Circuit Functions	2.1033(b)(4)	Exhibit B Exhibit B(1)-1 to -4
C Block Diagram Schematic Diagram	2.1033(b)(5)	Exhibit C Exhibit C(1)-1 to -2 Exhibit C(2)-1 to -2
D Report of Measurements Device Measured Test Facility and Equipment Test Results and Methods	2.1033(b)(6)	Exhibit D Exhibit D(1)-1 Exhibit D(2)-1 to -2 Exhibit D(3)-1 to -5
E Photographs Label Equipment	2.1033(b)(7)	Exhibit E Exhibit E(1)-1 to -2 Exhibit E(2)-1 to -6

EXHIBIT D

[FCC Ref. 2.1033(b)(6)]

"Report of Measurements"

EXHIBIT D(1)

DEVICE MEASURED

(FCC Ref. 2.1033(b)(6))

APPLICANT:

Thomson Consumer Electronics, Inc.
Audio & Communications Product Dev.
101 West 103rd Street
Indianapolis, IN
46290-1102 USA

MANUFACTURER:

Dongguan CCT Telecommunications Products Co. Ltd.
No. 13 - 16, Hong Yie Dong San Road
Hong Yie Economic Development Zone, Tang Xia Zhen
Dongguan, Guangdong Province, The PRC

FCC IDENTIFIER:

G9H2-9750

MODEL NUMBER:

26700XXX-A [New Version of 2-9750(XXXX)]

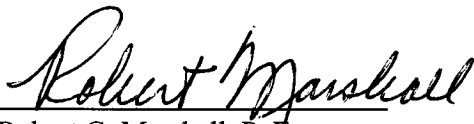
SERIAL NO.:

R&D9801347

Marstech Limited
11 Kelfield Street
Etobicoke, Ontario
M9W 5A1 CANADA

TECHNICIANS:

Jim Sims - Com-Serve Corp.
Edward Chang - Marstech Limited


Robert G. Marshall, P. Eng.

Date: Jan 26/99

EXHIBIT D(2)

TEST FACILITY AND EQUIPMENT LIST

FACILITIES

- Radiated ANSI C63.4 (FCC OET/55) open field 3 meter test range. This test range is protected from the cold and moisture by a non-conductive enclosure.
- Conducted 2.5m Anechoic Chamber

EQUIPMENT

- Hewlett-Packard spectrum analyzer # 8554 RF & 141T video.
- Anritsu 2601 A spectrum analyzer.
- Advantest R3261A Spectrum Analyzer
- Hewlett-Packard RF generator # 8640 B with an 002 doubler
- Hewlett-Packard attenuator 30 dB # 11708A.
- Narda 20 watt (20 dB) attenuator
- Compliance Design P950 Preamp (16 dB)..... 25 MHZ -1.0 GHz
- A.H. Systems biconical antenna;20 MHZ - 330 MHZ
- A.H. Systems log periodic antenna;300 MHZ - 1.8 GHz
- Eaton dipole antennas; T1, T2, T325 MHZ - 1.0 GHz
- CDI Roberts dipole antennas; T1, T2, T3 & T4.....25 MHZ - 1.0 GHz

NOTE:

The Anritsu 2601 A spectrum analyzer, the Hewlett-Packard spectrum analyzer and the Advantest R3261A spectrum analyzer are calibrated annually, and that calibration is directly traceable to the National Research Council of Canada (NRC). This equipment is only used by qualified technicians and only for the purpose of EMI measurements. The three meter test range has been carefully evaluated to the ANSI document C63.4 and will be remeasured for reflections and losses every three years.

FEDERAL COMMUNICATIONS COMMISSION

7435 Oakland Mills Road
Columbia, MD 21046
Telephone: 301-725-1585 (ext-218)
Facsimile: 301-344-2050

September 23, 1997

IN REPLY REFER TO
31040/SIT
1300F2

Electrohome Electronics Ltd
809 Wellington Street, North
Kitchener, Ontario N2G 4J6, Canada

Attention: Gerry Gallagher

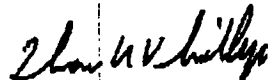
Re: Measurement facility located at Roseville
(3 meter site)

Gentlemen:

Your submission of the description of the subject measurement facility has been reviewed and found to be in compliance with the requirements of Section 2.948 of the FCC Rules. The description has, therefore, been placed on file and the name of your organization added to the Commission's list of facilities whose measurement data will be accepted in conjunction with applications for certification or notification under Parts 15 or 18 of the Commission's Rules. Our list will also indicate that the facility complies with the radiated and AC line conducted test site criteria in ANSI C63.4-1992. Please note that this filing must be updated for any changes made to the facility, and at least every three years the data on file must be certified as current.

Per your request, the above mentioned facility has been also added to our list of those who perform these measurement services for the public on a fee basis. This list is published periodically and is also available on the Laboratory's Public Access Link as described in the enclosed Public Notice.

Sincerely,



Thomas W. Phillips
Electronics Engineer
Customer Service Branch

FCC ID: G9H2-9750
Marstech Report No. 98516D
EXHIBIT D(2)-2

SUMMARY OF RESULTS

COMPLIANCE
(yes) (no)

FIELD STRENGTH OF THE CARRIER FREQUENCIES

Handset: 48 MHz and 49 MHz bands (x) ()
Base Station: 43/44 MHz and 46 MHz bands (x) ()

OCCUPIED BANDWIDTH

Handset: 48 MHz and 49 MHz bands (N/T) ()
Base Station: 43/44 MHz and 46 MHz bands (N/T) ()

SPURIOUS RADIATED EMISSIONS

Handset: 48 MHz and 49 MHz bands (x) ()
Base Station: 43/44 MHz and 46 MHz bands (x) ()

LINE CONDUCTED SPURIOUS EMISSIONS

Base Station: Telephone Mode: (N/T) ()
43/44 MHz and 46 MHz bands

TRANSMITTER ENVIRONMENTAL TESTS

Handset: (N/T) ()
Base Station: (N/T) ()

EQUIPMENT REQUIREMENTS AND IDENTIFICATION

a) Manufacturers or applicants name: (x) ()
b) FCC ID: (x) ()
c) Serial number: (N/M) ()
d) Antenna: (x) ()
e) Operator controls: (x) ()
f) Security Coding (x) ()
g) Equipment/Packaging Marking (x) ()

CARRIER FREQUENCY FIELD STRENGTH

RESULTS

Handset: **Maximum field strength of 4,433 μ V/M: Channel # 02**

Handset: **Maximum field strength of 5,307 μ V/M: Channel # 25**

Base Station:

Modes:

Telephone: **Maximum field strength of 9,314 μ V/M: Channel # 02**

Telephone: **Maximum field strength of 9,928 μ V/M: Channel # 25**

TEST CONDITIONS

Equipment Positioning:

Handset: vertical or upright

Base Station: standing vertically with the antenna extended in the vertical plane

Antenna Polarization:

Handset: vertical

Base Station: vertical

Antenna Type: T.1; tuned half wave dipole

Measurement Bandwidth: 100 KHz (IF)

Supply Voltages:

Handset: 3.6 VDC from an internal battery.

Base Station: 120 VAC/60 Hz to 09 VDC (adapter)

METHODS OF MEASUREMENT

The cordless phone components were placed in turn on a one metre high, non-metallic turntable. Measurements were made in a minimum of 3 positions for the handset and 2 for the base station. If adjustable, the whip antennas were fully extended.

For each of the above conditions the turntable was rotated through 360 degrees while the receiving antenna, at three (3) metres from the EUT, was varied in height from 1 to 4 metres and set in both planes of polarization to find the maximum signal strength. The unmodulated carrier level was measured using a spectrum analyzer and a substitution signal from an RF generator. The measured level was converted to a field strength using the antenna correction factors and cable losses.

All base station measurements were made with the equipment under test connected to an artificial telephone line network, with 48 VDC applied.

SPURIOUS RADIATED EMISSIONS

RESULTS

The maximum field strength of any spurious emission, with respect to the applicable limit, to 1,000 MHz, while transmitting or receiving was:

**Handset: Maximum field strength of 78.5 μ V/M at 244.12 MHz; Channel 02
Maximum field strength of 112.0 μ V/M at 749.53 MHz; Channel 25**

**Base Station: Maximum field strength of 95.4 μ V/M at 306.14 MHz; Channel 02
Maximum field strength of 66.0 μ V/M at 140.91 MHz; Channel 25
Maximum field strength of: NONE FOUND RECEIVE**

TEST CONDITIONS

Equipment Positioning:

Handset: laying on its side
Base Station: standing on its back with the antenna extended in the vertical plane.

Antenna Polarization:

Handset: horizontal
Base Station: vertical (25) and horizontal (2)
Base Station: Receive vertical and horizontal

Measurement Bandwidth: 100 KHz/120 KHz Q.P. (IF)

Supply Voltages:

Handset: 3.6 VDC from an internal battery.
Base Station: 120 VAC/60 Hz to 09 VDC (adaptor)

METHODS OF MEASUREMENT

The cordless phone components were placed in turn on a one metre high, non-metallic turntable. Measurements were made in a minimum of 3 positions for the handset and 2 for the base station. If adjustable, the whip antennas were fully extended.

For each of the above conditions the turntable was rotated through 360 degrees while the receiving antenna, at three (3) metres from the EUT, was varied in height from 1 to 4 metres and set in both planes of polarization to find the maximum signal strength. The level was measured using a spectrum analyzer and a substitution signal from an RF generator. The measured level was converted to a field strength using the antenna correction factors and cable losses.

All base station measurements were made with the equipment under test connected to an artificial telephone line network, with 48 VDC applied.

MARSTECH LIMITED

RADIATED EMISSION RESULTS

BW: 100/120 KHz
Span: 5 to 50 MHz

BASE STATION

TEST #	MODE	FREQ MHz BAND	LEVEL μ V	ANT. TYPE (PZ)	ANT. FACT.	F.S. μ V/M	LIMIT μ V/M	DIFF. TO LIMIT; dB
	CARRIER	43.740	7,110.0	RT.1 V	1.31	9314.1	10,000	-0.62
01	TX	131.17	10.1	B/C V	5.6	56.6	150	-8.47
02	TX	174.90	07.0	B/C H	7.6	53.2	150	-9.00
03	TX	218.66	04.6	B/C H	7.3	33.6	200	-15.50
04	TX	306.14	04.7	L/P H	20.3	95.4	200	-6.43
	CARRIER	46.970	7,300.0	RT.1 V	1.36	9928.0	10,000	-0.06
05	TX	140.91	11.0	B/C V	6.0	66.0	150	-7.13
06	TX	187.88	06.3	B/C H	7.4	46.6	150	-10.15
07	TX	234.80	05.2	B/C H	9.2	47.8	200	-12.42
08	TX	281.82	04.6	B/C H	16.2	74.5	200	-8.58
09	TX	328.74	05.0	L/P H	14.5	72.5	200	-8.81

RADIATED EMISSION RESULTS

BW: 100/120 KHz
Span: 5 to 50 MHz

HANDSET

TEST #	MODE	FREQ MHz BAND	LEVEL μ V	ANT. TYPE (PZ)	ANT. FACT.	F.S. μ V/M	LIMIT μ V/M	DIFF. TO LIMIT; dB
	CARRIER	48.840	3,100.0	RT.1 V	1.43	4433.0	10,000	-7.07
01	TX	195.30	05.0	B/C H	7.2	36.0	150	-12.40
02	TX	244.12	07.2	B/C H	10.9	78.5	200	-8.13
03	TX	781.39	03.0	L/P H	25.4	76.2	200	-8.38
	CARRIER	49.970	3,610.0	RT.1 V	1.47	5306.7	10,000	-5.50
04	TX	249.82	08.1	B/C H	12.0	97.2	200	-6.27
05	TX	749.53	05.0	L/P H	22.4	112.0	200	-5.04