

TEST REPORT FROM RFI GLOBAL SERVICES LTD

Test of: Enfora GE ActiveKey II 1061736

Partial Testing To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

Test Report Serial No: RFI/RPT1/RP73533JD02A

This Test Report Is Issued Under The Authority Of Steve Flooks, Radio Performance Group Service Leader:		
5/100-3		
Checked By: Steve Flooks	Report Copy No: PDF01	
5/100-3		
Issue Date: 30 July 2008	Test Dates: 18 June 2008 to 20 June 2008, 30 June 2008 and 18 July 2008	

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TEST REPORT

S.No. RFI/RPT1/RP73533JD02A

Page: 2 of 2

Issue Date: 30 July 2008

Test of: Enfora

GE ActiveKey II 1061736

To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

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TEST REPORT

S.No. RFI/RPT1/RP73533JD02A

Page: 3 of 3

Issue Date: 30 July 2008

Test of: Enfora

GE ActiveKey II 1061736

To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

Table of Contents

I. Client Information	4
2. Equipment Under Test (EUT)	5
3. Test Specification, Methods and Procedures	8
1. Deviations from the Test Specification	9
5. Operation of the EUT during Testing	10
6. Summary of Test Results	11
7. Measurements, Examinations and Derived Results	12
3. Measurement Uncertainty	22
Appendix 1. Test Equipment Used	23
Appendix 2. Test Configuration Drawings	25

TEST REPORT

S.No. RFI/RPT1/RP73533JD02A

Page: 4 of 4

Issue Date: 30 July 2008

Test of: Enfora

GE ActiveKey II 1061736

To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

1. Client Information

Company Name:	Enfora Inc.
Address:	251 Renner Parkway Richardson TEXAS 75080
Contact Name:	Mr R Holden

TEST REPORT

S.No. RFI/RPT1/RP73533JD02A

Page: 5 of 5

Issue Date: 30 July 2008

Test of: Enfora

GE ActiveKey II 1061736

To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

2. Equipment Under Test (EUT)

The following information (with the exception of the Date of Receipt) has been supplied by the client:

2.1. Description of EUT

The equipment under test is a handheld GSM/GPRS device.

2.2. Identification of Equipment Under Test (EUT)

Description:	Handheld GSM/GPRS Device
Brand Name:	Enfora
Model Name or Number:	GE Active Key II 1061736
IMEI Number (if applicable):	011658000000028 for all transmitter tests 011658000000051 for all idle mode/receiver tests
FCC ID Number:	TCZ-1061736
Country of Manufacture:	USA
Date of Receipt:	20 June 2008

Description:	I.T.E. Power Supply
Brand Name:	Leader Electronics Inc
Model Name or Number:	MU12-2060080-A1
Serial Number:	None stated
Cable Length and Type:	2.0 metre / 2-Core
Connected to Port:	Charger input

Description:	Battery
Brand Name:	YOKU
Model Name or Number:	664660
Serial Number:	A807024000170
Country of Manufacture:	Not Stated
Date of Receipt:	20 June 2008

2.3. Modifications Incorporated in EUT

During the course of testing the EUT was not modified.

TEST REPORT

S.No. RFI/RPT1/RP73533JD02A

Page: 6 of 6

Issue Date: 30 July 2008

Test of: Enfora

GE ActiveKey II 1061736

To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

2.4. Additional Information Related to Testing

2.4.1. General Information

Power Supply Requirement:	Internal Battery Supply of: 3.7 V V-Nom: 110 V, V-min: 93.5 V and V-Max: 126.5 V
Intended Operating Environment:	Within GSM Coverage
Equipment Category:	GSM/GPRS
Equipment Class:	Class B
Type of Unit:	Portable (Standalone battery powered device)
Channel Spacing:	0.2 MHz
Modulation Type:	GMSK

FCC Part 22 - GSM 850

Transmit Frequency Range:	824 MHz to 849 MHz		
Transmit Channels Tested:	Channel ID	Channel Number	Channel Frequency (MHz)
	Bottom	128	824.2
	Middle	189	836.4
	Тор	251	848.8
Receive Frequency Range:	869 MHz to 894 MHz		
Receive Channels Tested:	Channel ID	Channel Number	Channel Frequency (MHz)
	Bottom	128	869.2
	Middle	189	881.4
	Тор	251	893.8
Maximum Power Output (ERP):	30.5 dBm		

TEST REPORT

S.No. RFI/RPT1/RP73533JD02A

Page: 7 of 7

Issue Date: 30 July 2008

Test of: Enfora

GE ActiveKey II 1061736

To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

Additional Information Related to Testing (Continued)

FCC Part 24 - PCS 1900

Transmit Frequency Range:	1850 MHz to 1910 MHz	Z	
Transmit Channels Tested:	Channel ID	Channel Number	Channel Frequency (MHz)
	Bottom	512	1850.2
	Middle	660	1879.8
	Тор	810	1909.8
Receive Frequency Range:	1930 MHz to 1990 MHz	7	
Receive Channels Tested:	Channel ID	Channel Number	Channel Frequency (MHz)
	Bottom	512	1930.2
	Middle	660	1959.8
	Тор	810	1989.8
Maximum Power Output (EIRP):	21.8 dBm		

2.4.2. Port Identification

Port	Description	Type/Length
1	Enclosure	Not Applicable
2	AC Mains	110V/60Hz, 2m

TEST REPORT

S.No. RFI/RPT1/RP73533JD02A

Page: 8 of 8

Issue Date: 30 July 2008

Test of: Enfora

GE ActiveKey II 1061736

To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

3. Test Specification, Methods and Procedures

Reference: FCC Part 22: 2007 Subpart H (Cellular Radiotelephone Service)	
Title:	Code of Federal Regulations, Part 22 (47CFR22) Personal Communication Services.

Reference:	FCC Part 24: 2007 Subpart E (Broadband PCS)
Title:	Code of Federal Regulations, Part 24 (47CFR24) Personal Communication Services.

Reference:	FCC Part 15: 2007 Subpart B Clause 15.107 Conducted Emissions and Clause 15.109 Radiated Emissions
Title:	Code of Federal Regulations, Part 15 (47CFR15) Radio Frequency Devices: Digital Devices.

3.1. Methods and Procedures

The methods and procedures used were as detailed in:

ANSI/TIA-603-B-2003

Land Mobile Communications Equipment, Measurements and performance Standards

ANSI C63.2 (1987)

Title: American National Standard for Instrumentation - Electromagnetic noise and field strength.

ANSI C63.4 (2003)

Title: American National Standard Methods of Measurement of Electromagnetic Emissions from Low Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

ANSI C63.5 (1988)

Title: American National Standard for the Calibration of antennas used for Radiated Emission measurements in Electromagnetic Interference (EMI) control.

ANSI C63.7 (1988)

Title: American National Standard Guide for Construction of Open Area Test Sites for performing Radiated Emission Measurements.

CISPR 16-1: (1999)

Title: Specification For Radio Disturbance and Immunity Measuring Apparatus and Methods. Part 1: Radio Disturbance and Immunity Measuring Apparatus.

3.2. Definition of Measurement Equipment

The measurement equipment used complied with the requirements of the standards referenced in the methods & procedures Section above. Appendix 1 contains a list of the test equipment used.

TEST REPORT

S.No. RFI/RPT1/RP73533JD02A

Page: 9 of 9

Issue Date: 30 July 2008

Test of: Enfora

GE ActiveKey II 1061736

To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

4. Deviations from the Test Specification

This report covers partial testing only as detailed in section 6.

TEST REPORT

S.No. RFI/RPT1/RP73533JD02A

Page: 10 of 10

Issue Date: 30 July 2008

Test of: Enfora

GE ActiveKey II 1061736

To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

5. Operation of the EUT during Testing

5.1. Operating Modes

The EUT was tested in the following operating modes, unless otherwise stated:

- Idle Mode.
- GSM Transceiver mode at maximum output power, on bottom, middle and top channels.

5.2. Configuration and Peripherals

The EUT was tested in the following configuration unless otherwise stated:

- Standalone Battery powered connected to the AC Mains charger for AC Conducted emissions testing and GSM Transceiver mode Radiated Spurious Emissions.
- Standalone Battery powered for idle mode Radiated Spurious emissions.

TEST REPORT

S.No. RFI/RPT1/RP73533JD02A

Page: 11 of 11

Issue Date: 30 July 2008

Test of: Enfora

GE ActiveKey II 1061736

To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

6. Summary of Test Results

Range of Measurements	Specification Reference	Port Type	Compliancy Status
Receiver/Idle AC Conducted Spurious Emissions (150 kHz to 30 MHz)	FCC 15.107	AC Mains Input	Complied
Radiated Emissions Electric Field Strength	FCC 15.109	Enclosure	Complied
Transmitter Effective Radiated Power (ERP)	FCC 22.913(a)	Integral Antenna	Complied
Transmitter Effective Isotropic Radiated Power (EIRP)	FCC 24.232	Integral Antenna	Complied

6.1. Location of Tests

All the measurements described in this report were performed at the premises of RFI Global Services Ltd, Ewhurst Park, Ramsdell, Basingstoke, Hampshire, RG26 5RQ.

6.2. Site Registration Numbers

FCC: 90895 IC: 3485

TEST REPORT

S.No. RFI/RPT1/RP73533JD02A

Page: 12 of 12

Issue Date: 30 July 2008

Test of: Enfora

GE ActiveKey II 1061736

To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

7. Measurements, Examinations and Derived Results

7.1. General Comments

This Section contains test results only.

Measurement uncertainties are evaluated in accordance with current best practice. Our reported expanded uncertainties are based on standard uncertainties, which are multiplied by an appropriate coverage factor to provide a statistical confidence level of approximately 95%. Please refer to Section 8 for details of measurement uncertainties.

TEST REPORT

S.No. RFI/RPT1/RP73533JD02A

Page: 13 of 13

Issue Date: 30 July 2008

Test of: Enfora

GE ActiveKey II 1061736

To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

7.2. Test Results – FCC Part 15.107

7.2.1. Receiver/Idle Mode AC Conducted Spurious Emissions: Section 15.107 - GSM 850 Idle

Ambient Temperature: 19°C Relative Humidity: 71%

Tests were performed using the test methods detailed in ANSI C63.4 Section 7.

Results:

Quasi-Peak Detector Measurements on Live and Neutral Lines

Frequency (MHz)	Line	Level (dBμV)	Limit (dB _µ V)	Margin (dB)	Result
0.159000	Live	42.8	65.5	22.7	Complied
0.172500	Live	40.2	64.8	24.6	Complied
0.208500	Live	36.6	63.3	26.7	Complied
0.231000	Live	35.2	62.4	27.2	Complied
0.262500	Live	32.3	61.4	29.1	Complied
0.294000	Live	29.7	60.4	30.7	Complied
0.339000	Neutral	25.5	59.2	33.7	Complied
0.384000	Neutral	24.9	58.2	33.3	Complied
0.469500	Live	28.1	56.5	28.4	Complied
0.501000	Live	29.2	56.0	26.8	Complied

Average Detector Measurements on Live and Neutral Lines

Frequency (MHz)	Line	Level (dBμV)	Limit (dBµV)	Margin (dB)	Result
0.159000	Live	25.0	55.5	30.5	Complied
0.177000	Live	24.4	54.6	30.2	Complied
0.204000	Live	21.7	53.4	31.7	Complied
0.240000	Live	20.7	52.1	31.4	Complied
0.429000	Live	18.8	47.3	28.5	Complied
0.483000	Live	23.0	46.3	23.3	Complied
0.501000	Live	23.5	46.0	22.5	Complied
4.992000	Live	16.6	46.0	29.4	Complied
5.365500	Neutral	19.7	50.0	30.3	Complied
13.510500	Live	18.6	50.0	31.4	Complied

TEST REPORT

S.No. RFI/RPT1/RP73533JD02A

Page: 14 of 14

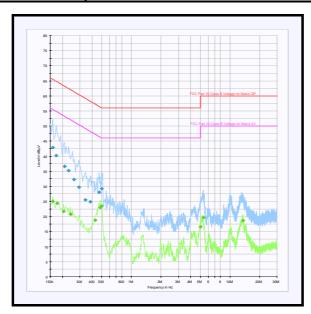
Issue Date: 30 July 2008

Test of: Enfora

GE ActiveKey II 1061736

To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

Receiver/Idle Mode AC Conducted Spurious Emissions: Section 15.107 - GSM 850 Idle (Continued)



Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying tables.

TEST REPORT

S.No. RFI/RPT1/RP73533JD02A

Page: 15 of 15

Issue Date: 30 July 2008

Test of: Enfora

GE ActiveKey II 1061736

To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

7.2.2. Receiver/Idle Mode AC Conducted Spurious Emissions: Section 15.107 - GSM 1900 Idle

Ambient Temperature: 19°C Relative Humidity: 71%

Tests were performed using the test methods detailed in ANSI C63.4 Section 7.

Results:

Quasi-Peak Detector Measurements on Live and Neutral Lines

Frequency (MHz)	Line	Level (dBμV)	Limit (dB _µ V)	Margin (dB)	Result
0.168000	Neutral	59.6	65.1	5.5	Complied
0.177000	Live	57.9	64.6	6.7	Complied
0.213000	Live	52.9	63.1	10.2	Complied
0.249000	Neutral	47.7	61.8	14.1	Complied
0.267000	Live	44.6	61.2	16.6	Complied
0.298500	Live	41.8	60.3	18.5	Complied
0.334500	Live	37.9	59.3	21.4	Complied
0.424500	Live	34.0	57.4	23.4	Complied
0.433500	Live	34.0	57.2	23.2	Complied
0.528000	Live	34.1	56.0	21.9	Complied

Average Detector Measurements on Live and Neutral Lines

Frequency (MHz)	Line	Level (dB _µ V)	Limit (dB _µ V)	Margin (dB)	Result
0.168000	Live	40.5	55.1	14.6	Complied
0.213000	Live	35.5	53.1	17.6	Complied
0.253500	Live	30.3	51.6	21.3	Complied
0.258000	Live	30.2	51.5	21.3	Complied
0.460500	Live	22.3	46.7	24.4	Complied
0.505500	Live	23.0	46.0	23.0	Complied
3.813000	Neutral	21.7	46.0	24.3	Complied
4.654500	Neutral	23.9	46.0	22.1	Complied
4.987500	Neutral	24.2	46.0	21.8	Complied

TEST REPORT

S.No. RFI/RPT1/RP73533JD02A

Page: 16 of 16

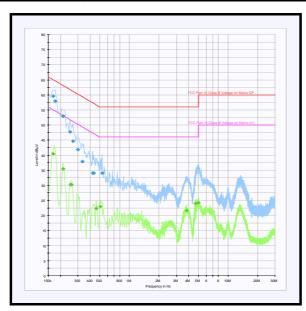
Issue Date: 30 July 2008

Test of: Enfora

GE ActiveKey II 1061736

To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

Receiver/Idle Mode AC Conducted Spurious Emissions: Section 15.107 - GSM 1900 Idle (Continued)



Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying tables.

TEST REPORT

S.No. RFI/RPT1/RP73533JD02A

Page: 17 of 17

Issue Date: 30 July 2008

Test of: Enfora

GE ActiveKey II 1061736

To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

7.3. Test Results – FCC Part 15.109

7.3.1. Receiver/Idle Mode Radiated Spurious Emissions - GSM 850/1900

Ambient Temperature: 19°C Relative Humidity: 57%

Tests were performed using the test methods detailed in ANSI C63.4 Section 8.

Electric Field Strength Measurements

Results:

Frequency (MHz)	Antenna Polarity	Quasi Peak Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Note(s)	Result
30.420	Vertical	18.3	40.0	21.7	1	Complied
105.20	Horizontal	12.7	43.5	30.8	1	Complied
199.20	Vertical	8.7	43.5	34.8	1	Complied
260.520	Vertical	14.8	46.0	31.2	1	Complied
510.500	Horizontal	25.5	46.0	20.5	1	Complied
880.000	Vertical	32.6	46.0	13.4	1	Complied

Note(s):

1. Noise floor measurements performed with EUT on open area test site.

TEST REPORT

S.No. RFI/RPT1/RP73533JD02A

Page: 18 of 18

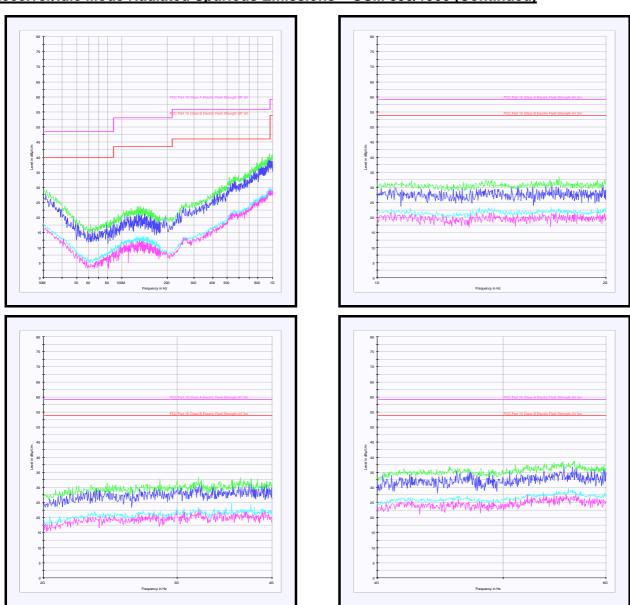
Issue Date: 30 July 2008

Test of: Enfora

GE ActiveKey II 1061736

To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

Receiver/Idle Mode Radiated Spurious Emissions - GSM 850/1900 (Continued)



Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying tables.

TEST REPORT

S.No. RFI/RPT1/RP73533JD02A

Page: 19 of 19

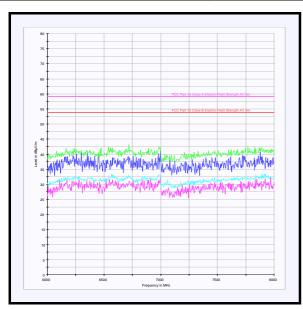
Issue Date: 30 July 2008

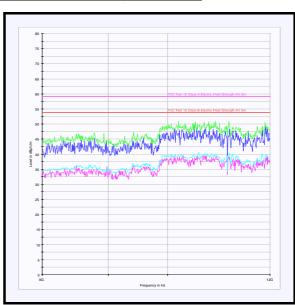
Test of: Enfora

GE ActiveKey II 1061736

To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

Receiver/Idle Mode Radiated Spurious Emissions - GSM 850/1900 (Continued)





Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying tables.

TEST REPORT

S.No. RFI/RPT1/RP73533JD02A

Page: 20 of 20

Issue Date: 30 July 2008

Test of: Enfora

GE ActiveKey II 1061736

To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

7.4. Test Results - FCC Part 22 (Subpart H)

7.4.1. Transmitter Effective Radiated Power (ERP)

Ambient Temperature: 22°C Relative Humidity: 42%

Tests were performed using the test methods detailed in ANSI TIA-603-C-2004 referencing FCC CFR Part 2.

Results:

Channel	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	824.2	27.7	38.4	10.7	Complied
Middle	836.6	28.8	38.4	9.6	Complied
Тор	848.8	30.5	38.4	7.9	Complied

TEST REPORT

S.No. RFI/RPT1/RP73533JD02A

Page: 21 of 21

Issue Date: 30 July 2008

Test of: Enfora

GE ActiveKey II 1061736

To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

7.5. Test Results - FCC Part 24 (Subpart E)

7.5.1. Transmitter Effective Isotropic Radiated Power (EIRP)

Ambient Temperature: 21°C Relative Humidity: 40%

Tests were performed using the test methods detailed in ANSI TIA-603-C-2004 referencing FCC CFR Part 2.

Results:

Channel	Measured Frequency (MHz)	Antenna Polarity	Maximum Transmitter EIRP (dBm)	Limit EIRP (dBm)	Margin (dB)	Result
Bottom	1850.2	Horizontal	20.7	33.0	12.3	Complied
Middle	1879.8	Horizontal	21.0	33.0	12.0	Complied
Тор	1909.8	Horizontal	21.8	33.0	11.2	Complied

TEST REPORT

S.No. RFI/RPT1/RP73533JD02A

Page: 22 of 22

Issue Date: 30 July 2008

Test of: Enfora

GE ActiveKey II 1061736

To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

8. Measurement Uncertainty

No measurement or test can ever be perfect and the imperfections give rise to error of measurement in the results. Consequently, the result of a measurement is only an approximation to the value of the measurand (the specific quantity subject to measurement) and is only complete when accompanied by a statement of the uncertainty of the approximation.

The expression of uncertainty of a measurement result allows realistic comparison of results with reference values and limits given in specifications and standards.

The uncertainty of the result may need to be taken into account when interpreting the measurement results.

The reported expanded uncertainties below are based on a standard uncertainty multiplied by an appropriate coverage factor, such that a confidence level of approximately 95% is maintained. For the purposes of this document "approximately" is interpreted as meaning "effectively" or "for most practical purposes".

Measurement Type	Range	Confidence Level (%)	Calculated Uncertainty
Effective Radiated Power (ERP)	Not applicable	95%	±2.94 dB
Effective Isotropic Radiated Power (EIRP)	Not applicable	95%	±2.54 dB
AC Conducted Emissions	150 kHz to 30 MHz	95%	±3.72 dB
Radiated Spurious Emissions	30 MHz to 1000 MHz	95%	±4.68 dB
Radiated Spurious Emissions	1 GHz to 12 GHz	95%	±4.93 dB

The methods used to calculate the above uncertainties are in line with those recommended within the various measurement specifications. Where measurement specifications do not include guidelines for the evaluation of measurement uncertainty, the published guidance of the appropriate accreditation body is followed.

TEST REPORT

S.No. RFI/RPT1/RP73533JD02A

Page: 23 of 23

Issue Date: 30 July 2008

Test of: Enfora

GE ActiveKey II 1061736

To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

Appendix 1. Test Equipment Used

RFI No.	Instrument	Manufacturer	Туре No.	Serial No.	Date Last Calibrated	Cal. Interval (Months)
A028	Antenna	Eaton	91888-2	304	08 Jun 2006	36
A059	Antenna	EMCO	3146	8902-2378	07 Feb 2008	12
A1069	Single Phase LISN	Rohde & Schwarz	ESH3-Z5	837469/012	07 Mar 2008	12
A1227	Pre Amplifier	Agilent	8449B	3008A01566	03 Sep 2007	12
A1362	Antenna	Stoddart Aircraft Radio Co., Inc.	91889-1	N/A	Link antenna Cal not required	-
A1516	Universal Radio Communications Tester	Rohde & Schwarz	CMU200	1100.0008.02	Calibration not required	-
A1817	Antenna	EMCO	3115	00075694	Link antenna Cal not required	-
A1830	Pulse Limiter	Rhode & Schwarz	ESH3-Z2	100668	16 Jan 2008	12
A276	OATS Positioning Controller	Rohde & Schwarz	HCC	None	Calibration not required	-
A427	Antenna	Flann	14240-20	150	17 Nov 2006	36
A428	Antenna	Flann	12240-20	134	17 Nov 2006	36
A490	Antenna	Chase	CBL6111A	1590	07 Feb 2008	12
A553	Antenna	Chase	CBL6111A	1593	04 Jun 2008	12
C1082	Rosenberger Cable 2m	Rosenberger	FA210A1020M5 050	28463-1	Calibrated before use	-
C1083	Cable	Rosenberger	001	2799	24 Apr 2008	12
C1086	Cable	Radio Frequency Investigation Ltd	C1086	C1086-14072003	Calibrated before use	-
C1140	Cable	Suhner	SUCOFLEX 104A	37016 14A	Calibrated as part of system	-
C1158	Cable	Rosenberger	FA210A1010005 G5G	3305 42447-1	20 Apr 2008	12
C1165	Cable	Rosenberger Micro-Coax	FA210A1020007 070	43189-1	Calibrated before use	-
C1226	Cable	Rosenberger	FB197C1020003 038	48799-01	Calibrated before use	-

TEST REPORT

S.No. RFI/RPT1/RP73533JD02A

Page: 24 of 24

Issue Date: 30 July 2008

Test of: Enfora

GE ActiveKey II 1061736

To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

RFI No.	Instrument	Manufacturer	Туре No.	Serial No.	Date Last Calibrated	Cal. Interval (Months)
C1262	Cable	Rosenberger	FA210A0075008 080	49356-2	20 Apr 2008	12
C1265	Cable	Rosenberger	FA210A1020007 070	49317-01	20 Apr 2008	12
C1268	Cable	Rosenberger	FA210A0075008 080	49356-1	20 Apr 2008	12
C151	Cable	Rosenberger	UFA210A-1- 1181-70x70	None	20 Apr 2008	12
C160	Cable	Rosenberger	UFA210A-1- 1181-70x70	None	20 Apr 2008	12
C348	Cable	Rosenberger	UFA210A-1- 1181-70x70	2993	20 Apr 2008	12
C363	Cable	Rosenberger	RG142	None	20 Apr 2008	12
C454	Cable	Rosenberger	RG142XX-001- RFIB	C454-10081998	20 Apr 2008	12
C460	Cable	Rosenberger	UFA210A-1- 1182-704704	98H0304	20 Apr 2008	12
C461	Cable	Rosenberger	UFA210A-1- 1182-704704	98H0305	20 Apr 2008	12
M023	Test Receiver	Rohde & Schwarz	ESVP	872 991/027	28 May 2008	12
M024	Spectrum Monitor	Rohde & Schwarz	EZM	873 952/006	Calibrated before use	-
M1093	Communications Test Set	Will tek	4202S	0513018	Calibration not required	-
M1138	CMU 200	Rohde & Schwarz	CMU200 - 1100.0008.02	836202/093	16 Nov 2007	12
M1242	Spectrum Analyser	Rohde & Schwarz, Inc.	FSEM30	845986/022	29 Nov 2007	12
M1263	Test Receiver	Rohde & Schwarz	ESIB7	100265	06 Feb 2008	12
M1379	Test Receiver	Rohde and Schwarz	ESIB7	100330	02 Aug 2007	12
M173	Turntable Controller	R.H.Electrical Services	RH351	3510020	Calibration not required	0
S202	Site 2	RFI	2	S202-15011990	28 Jan 2008	12
S209	Anechoic Chamber	RFI	9	None	Verified before use	-
S212	Emissions Screened Room	RFI	12	None	Verified before use	-

NB In accordance with UKAS requirements, all the measurement equipment is on a calibration schedule.

TEST REPORT

S.No. RFI/RPT1/RP73533JD02A

Page: 25 of 25

Issue Date: 30 July 2008

Test of: Enfora

GE ActiveKey II 1061736

To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

Appendix 2. Test Configuration Drawings

This appendix contains the following drawings:

Drawing Reference Number	Title
DRG\73533JD02\EMICON	Test configuration for measurement of conducted emissions.
DRG\73533JD02\EMIRAD	Test configuration for measurement of radiated emissions.

TEST REPORT

S.No. RFI/RPT1/RP73533JD02A

Page: 26 of 26

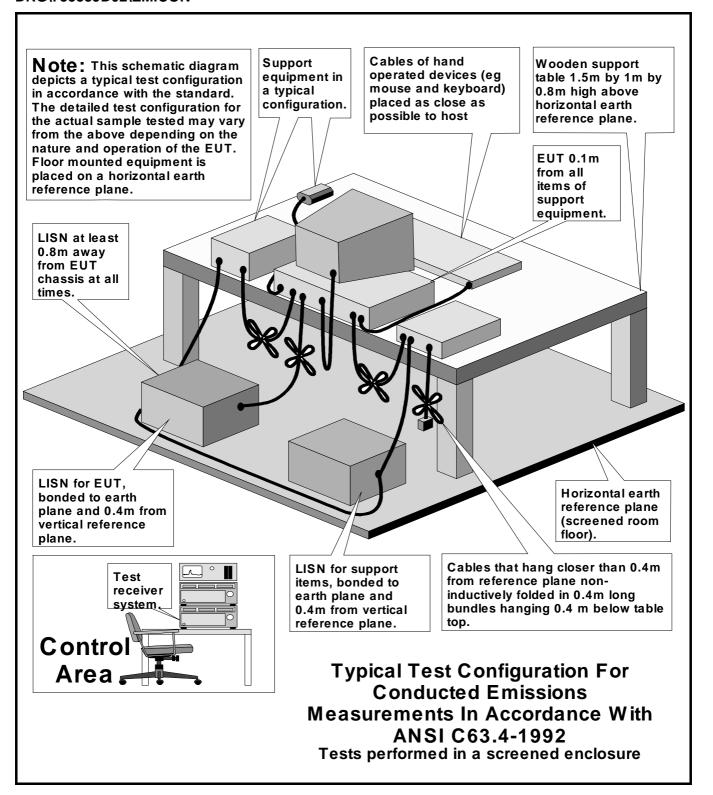
Issue Date: 30 July 2008

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GE ActiveKey II 1061736

To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

DRG\73533JD02\EMICON



TEST REPORT

S.No. RFI/RPT1/RP73533JD02A

Page: 27 of 27

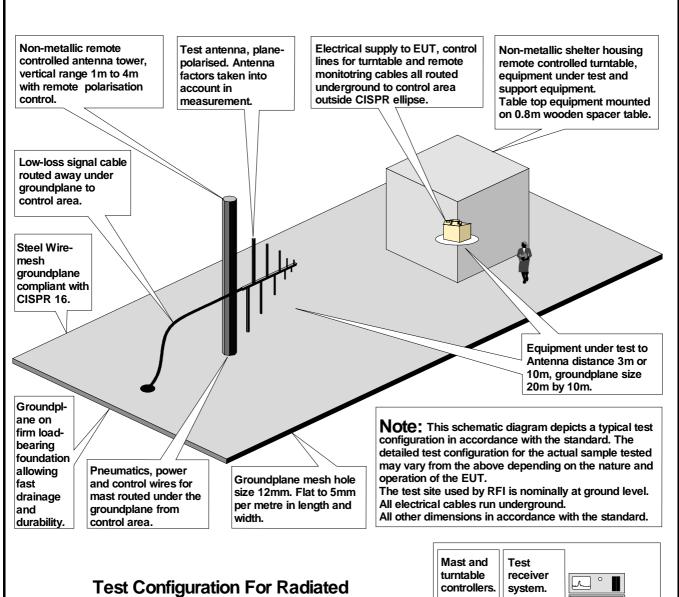
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GE ActiveKey II 1061736

To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

DRG\73533JD02\EMIRAD



Test Configuration For Radiated Emissions Measurements

Reflection-free area: >60m by 52m (CISPR ellipse) Groundplane Earthed Control room outside CISPR ellipse

