




**TEST REPORT
FROM
RFI GLOBAL SERVICES LTD**

Test of: Enfora L.P
GSM2228 MiniMT

To: FCC Part 15.107 & 15.109: 2006

Test Report Serial No:
RFI/RPTE1/RP72182JD10A

This Test Report Is Issued Under The Authority Of Andrew Brown, Operations Manager:	
pp. 	
Tested By: Frank Kane 	Checked By: Michael Derby 
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RFI Global Services Ltd

Pavilion A, Ashwood Park, Ashwood Way, Basingstoke, Hampshire RG23 8BG
Telephone: +44 (0)1256 312000 Facsimile: +44 (0)1256 312001
Email: info@rfi-global.com Website: www.rfi-global.com

Registered in England and Wales. Company number:2117901

Test of: Enfora L.P
GSM2228 MiniMT
To: FCC Part 15.107 & 15.109: 2006

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Test of: Enfora L.P
GSM2228 MiniMT
To: FCC Part 15.107 & 15.109: 2006

Table of Contents

1. Client Information	4
2. Equipment Under Test (EUT).....	5
3. Test Specification, Methods and Procedures	8
4. 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
8. Measurement Uncertainty.....	27
9. Measurement Methods.....	28
Appendix 1. Test Equipment Used.....	30
Appendix 2. Test Configuration Drawings	32

Test of: Enfora L.P
GSM2228 MiniMT
To: FCC Part 15.107 & 15.109: 2006

1. Client Information

Company Name:	Enfora L.P.
Address:	661 E 18th Street Plano TX 75074 USA
Contact Name:	Mr R Holden

Test of: Enfora L.P
GSM2228 MiniMT
To: FCC Part 15.107 & 15.109: 2006

2. Equipment Under Test (EUT)

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

2.1. Identification of Equipment Under Test (EUT)

Description:	Mobile Tracking Device
Brand Name:	Enfora
Model Name or Number:	GSM2228 MiniMT
Unique Type Identification:	None stated
IMEI Number:	010754000060710
Hardware Revision:	A
Software Version Number:	0/0
Hardware Revision of GSM Module:	C
Software Revision of GSM Module:	0.7.6
FCC ID:	MIVGSM2228
Country of Manufacture:	USA
Date of Receipt:	16 November 2006

2.2. Accessories

No accessories were supplied with the EUT:

2.3. Description of EUT

The equipment under test is a quad band GSM mobile tracking device.

2.4. Modifications Incorporated in the EUT

During the course of testing the EUT was not modified.

Test of: Enfora L.P
 GSM2228 MiniMT
 To: FCC Part 15.107 & 15.109: 2006

2.5. Additional Information Related to Testing

Power Supply Requirement:	Nominal 115 V, 60 Hz AC Mains supply (used as battery charger) Internal battery supply of 3.7 V DC, 1300 mAH		
Intended Operating Environment:	Residential, Commercial, Within GSM coverage		
Equipment Category:	GSM 850/GSM 1900		
Type of Unit:	Portable (Standalone battery powered device)		
Interface Ports:	USB / Charger Port		
Receive Frequency Range:	824.0 to 849.0 MHz		
Receive Channels Tested:	Channel ID	Channel Number	Channel Frequency (MHz)
	Bottom	128	824.2
	Middle	189	836.4
	Top	251	848.6
Receive Frequency Range:	1850.0 to 1910.0 MHz		
Receive Channels Tested:	Channel ID	Channel Number	Channel Frequency (MHz)
	Bottom	512	1850.2
	Middle	189	1879.8
	Top	251	1909.8
Highest Fundamental Frequency:	1909.8 MHz		

Test of: Enfora L.P
GSM2228 MiniMT
To: FCC Part 15.107 & 15.109: 2006

2.6. Support Equipment

The following support equipment was used to exercise the EUT during testing:

Description:	Communications Test Set
Brand Name:	Will'Tek
Model Name or Number:	42028
Serial Number:	0513018
Cable Length and Type:	1.5m, Utiflex
Connected to Port:	RF (Input / Output)

Description:	AC Charger
Brand Name:	Zip-Linq
Model Name or Number:	LD3007
Serial Number:	None stated
Cable Length and Type:	1.8m, USB to Mini USB
Connected to Port:	DC Input

Test of: Enfora L.P
GSM2228 MiniMT
To: FCC Part 15.107 & 15.109: 2006

3. Test Specification, Methods and Procedures

3.1. Test Specifications

Reference:	FCC Part 15 Subpart B: 2006 (Sections 15.107 & 15.109)
Title:	Code of Federal Regulations, Part 15 (47CFR215) Radio Frequency Devices

3.2. 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 (1996)

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.

DA00-705 (2000)

Title: Filing and Frequency Measurement Guidelines for Frequency Hopping Spread Spectrum Systems.

3.3. 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 of: Enfora L.P
GSM2228 MiniMT
To: FCC Part 15.107 & 15.109: 2006

4. Deviations from the Test Specification

There were no deviations from the test specification.

Test of: Enfora L.P
GSM2228 MiniMT
To: FCC Part 15.107 & 15.109: 2006

5. Operation of the EUT During Testing

5.1. Operating Modes

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

Receiver Mode

5.2. Configuration and Peripherals

The EUT was tested in the following configuration:

Tested connected to an AC/DC supply with battery.

Test of: Enfora L.P
GSM2228 MiniMT
To: FCC Part 15.107 & 15.109: 2006

6. Summary of Test Results

Range of Measurements	Section Reference	Port Type	Compliance Status
Receiver AC Conducted Spurious Emissions (150 kHz to 30 MHz)	Section 15.107 Class B	AC Mains	Complied
Receiver Radiated Spurious Emissions (30 MHz to 12.5 GHz)	Section 15.109 Class B	Enclosure	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.

FCC Site Registration Number: 90895

IC Site Registration Number: 3485

Test of: Enfora L.P
GSM2228 MiniMT
To: FCC Part 15.107 & 15.109: 2006

7. Measurements, Examinations and Derived Results

7.1. General Comments

7.1.1. This section contains test results only.

7.1.2. 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 of: Enfora L.P
 GSM2228 MiniMT
 To: FCC Part 15.107 & 15.109: 2006

7.2. Test Results

7.2.1. Receiver AC Conducted Spurious Emissions: Section 15.107 – GSM 850

The EUT was configured for AC conducted emissions measurements, as described in Section 9 of this report.

Tests were performed to identify the maximum emission levels on the AC Mains line of the EUT.

Results:

Quasi-Peak Detector Measurements on Live and Neutral Lines

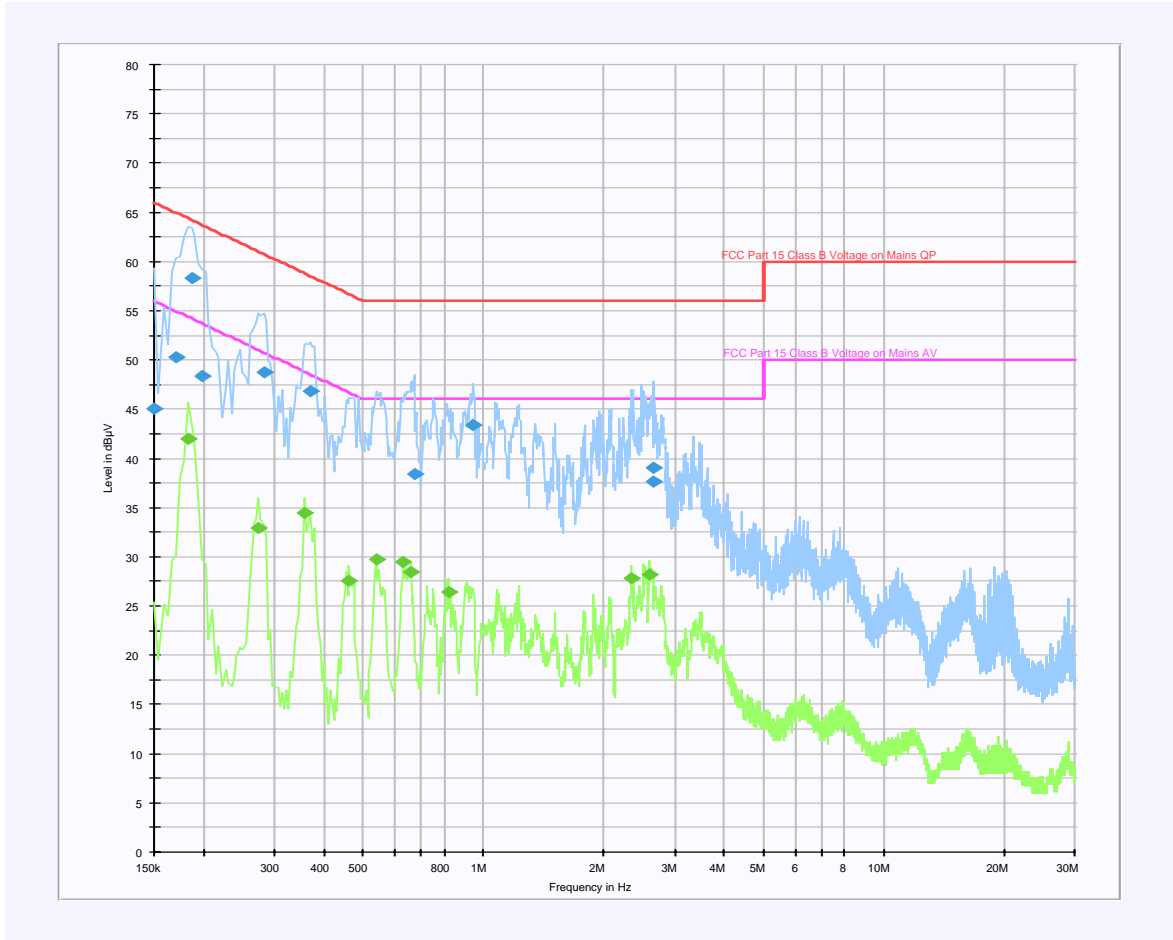
Frequency (MHz)	Line	Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Result
0.150	Live	45.1	66.0	20.9	Complied
0.170	Live	50.3	65.0	14.7	Complied
0.186	Live	58.3	64.2	5.9	Complied
0.198	Live	48.3	63.7	15.4	Complied
0.282	Live	48.8	60.8	12.0	Complied
0.370	Live	46.8	58.5	11.7	Complied
0.670	Live	38.4	56.0	17.6	Complied
0.942	Live	43.4	56.0	12.6	Complied
2.646	Live	39.0	56.0	17.0	Complied
2.670	Live	37.7	56.0	18.3	Complied

Average Detector Measurements on Live and Neutral Lines

Frequency (MHz)	Line	Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Result
0.150	Live	41.9	54.4	12.5	Complied
0.170	Live	33.0	51.0	18.0	Complied
0.186	Neutral	34.5	48.8	14.3	Complied
0.198	Neutral	27.6	46.7	19.1	Complied
0.282	Neutral	29.7	46.0	16.3	Complied
0.370	Neutral	29.4	46.0	16.6	Complied
0.670	Neutral	28.5	46.0	17.5	Complied
0.942	Neutral	26.5	46.0	19.5	Complied
2.646	Neutral	27.8	46.0	18.2	Complied
2.670	Neutral	28.2	46.0	17.8	Complied

Test of: Enfora L.P
GSM2228 MiniMT
To: FCC Part 15.107 & 15.109: 2006

Receiver AC Conducted Spurious Emissions: Section 15.107 (Continued)



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

Test of: Enfora L.P
 GSM2228 MiniMT
 To: FCC Part 15.107 & 15.109: 2006

7.2.2. Receiver AC Conducted Spurious Emissions: Section 15.107 – GSM 1900

The EUT was configured for AC conducted emissions measurements, as described in Section 9 of this report.

Tests were performed to identify the maximum emission levels on the AC Mains line of the EUT.

Results:

Quasi-Peak Detector Measurements on Live and Neutral Lines

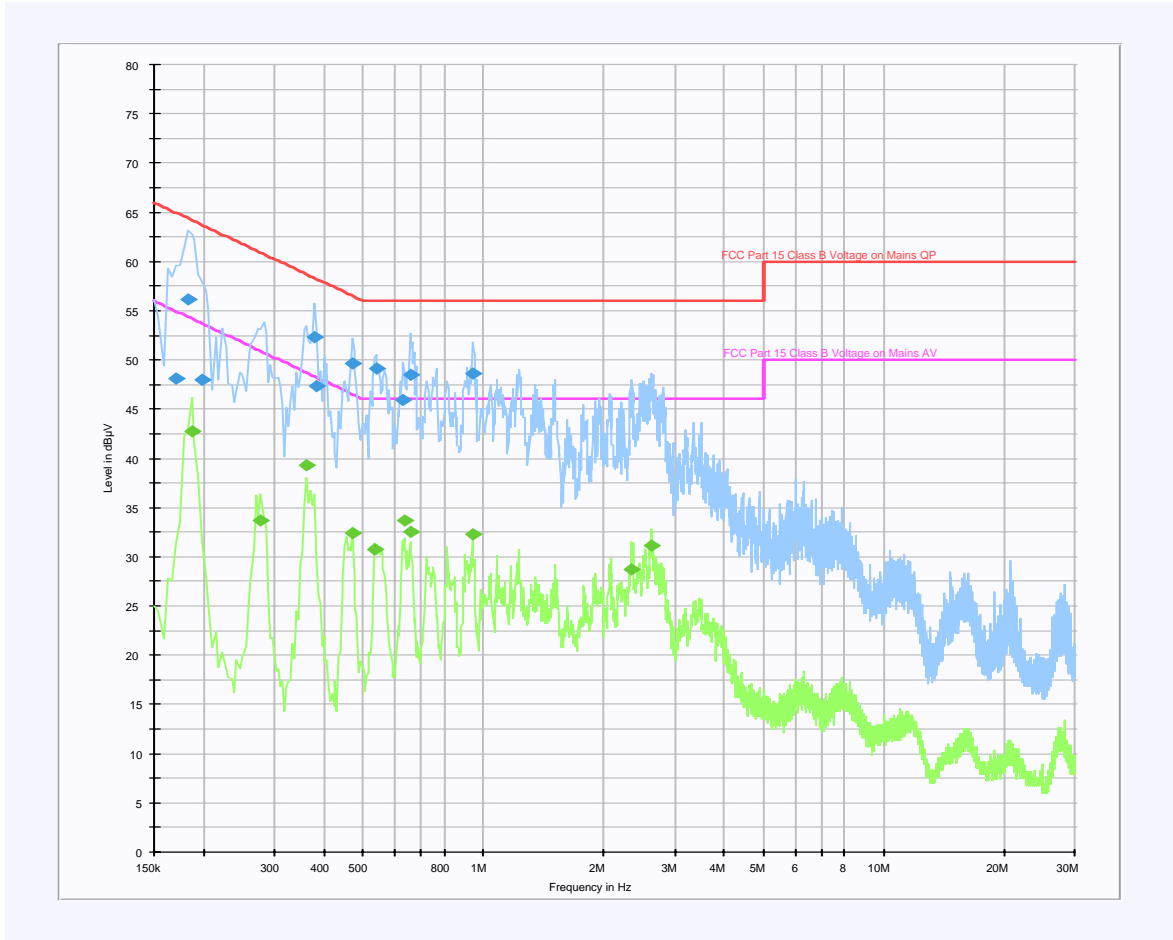
Frequency (MHz)	Line	Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Result
0.170	Live	48.1	65.0	16.9	Complied
0.182	Live	56.2	64.4	8.2	Complied
0.198	Live	48.0	63.7	15.7	Complied
0.378	Live	52.3	58.3	6.0	Complied
0.382	Live	47.4	58.2	10.8	Complied
0.470	Live	49.6	56.5	6.9	Complied
0.538	Neutral	49.1	56.0	6.9	Complied
0.630	Live	45.9	56.0	10.1	Complied
0.654	Live	48.5	56.0	7.5	Complied
0.938	Live	48.7	56.0	7.3	Complied

Average Detector Measurements on Live and Neutral Lines

Frequency (MHz)	Line	Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Result
0.170	Live	42.7	54.2	11.5	Complied
0.182	Neutral	33.7	50.9	17.2	Complied
0.198	Neutral	39.3	48.7	9.4	Complied
0.378	Live	32.5	46.5	14.0	Complied
0.382	Neutral	30.7	46.0	15.3	Complied
0.470	Neutral	33.7	46.0	12.3	Complied
0.538	Neutral	32.5	46.0	13.5	Complied
0.630	Live	32.3	46.0	13.7	Complied
0.654	Live	28.7	46.0	17.3	Complied
0.938	Live	31.2	46.0	14.8	Complied

Test of: Enfora L.P
GSM2228 MiniMT
To: FCC Part 15.107 & 15.109: 2006

Receiver AC Conducted Spurious Emissions: Section 15.107 (Continued)



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

Test of: Enfora L.P
GSM2228 MiniMT
To: FCC Part 15.107 & 15.109: 2006

7.2.3. Receiver Radiated Spurious Emissions: Section 15.109 – GSM 850

Electric Field Strength Measurements (Frequency Range: 30 MHz to 1000 MHz)

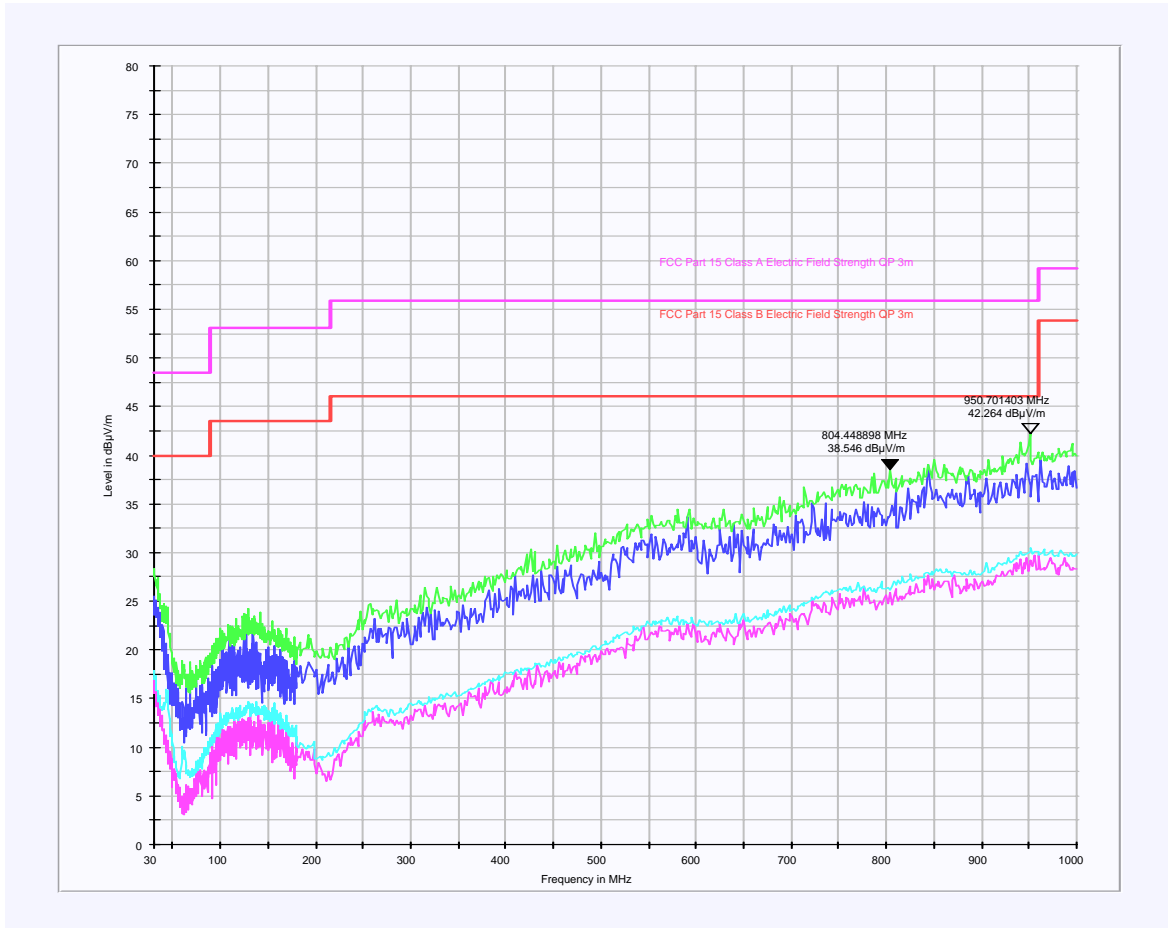
The EUT was configured for receiver radiated emissions testing, as described in Section 9 of this report. Tests were performed to identify the maximum receiver or standby radiated emission levels.

Results:

Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
804.448	Vertical	27.8	46.0	18.2	Complied
950.701	Vertical	36.4	46.0	9.6	Complied

Test of: Enfora L.P
GSM2228 MiniMT
To: FCC Part 15.107 & 15.109: 2006

Receiver Radiated Spurious Emissions: Section 15.109 (Continued)



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

Test of: Enfora L.P
 GSM2228 MiniMT
 To: FCC Part 15.107 & 15.109: 2006

Receiver Radiated Spurious Emissions: Section 15.109 (Continued)

Electric Field Strength Measurements (Frequency Range: 1 GHz to 12.5 GHz)

Results: Middle Channel

Highest Peak Level:

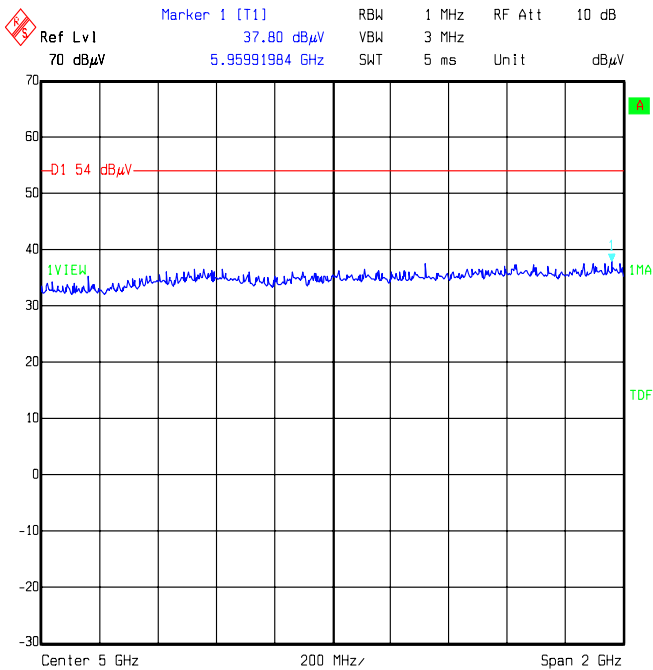
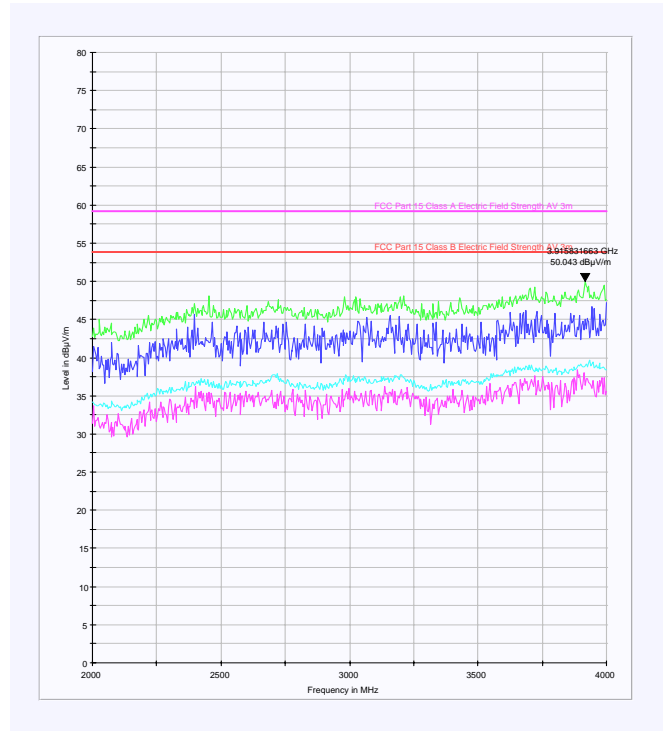
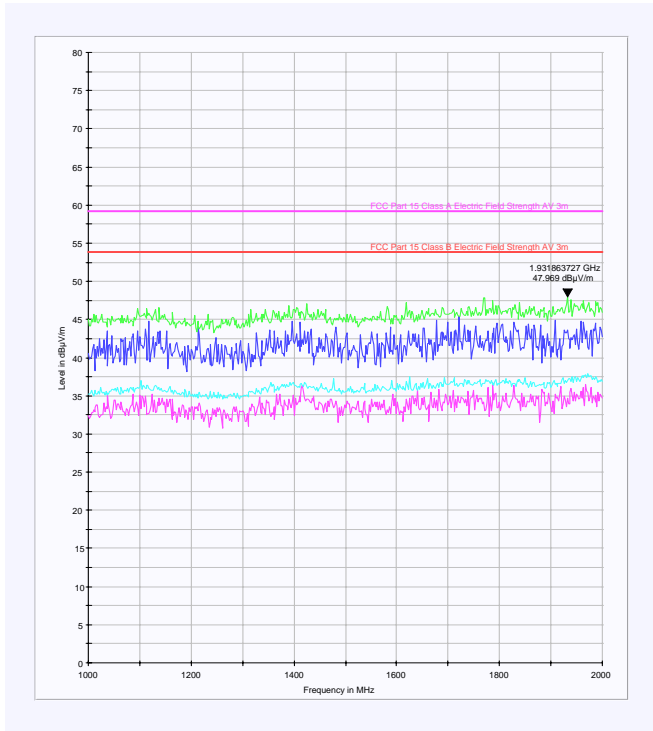
Frequency (GHz)	Antenna Polarity	Detector Level (dB μ V)	Antenna Factor (dB)	Actual Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2453.067	Horizontal	57.9	-11.2	46.7	74.0	27.3	Complied
2982.186	Horizontal	58.1	-11.4	46.7	74.0	27.3	Complied

Highest Average Level:

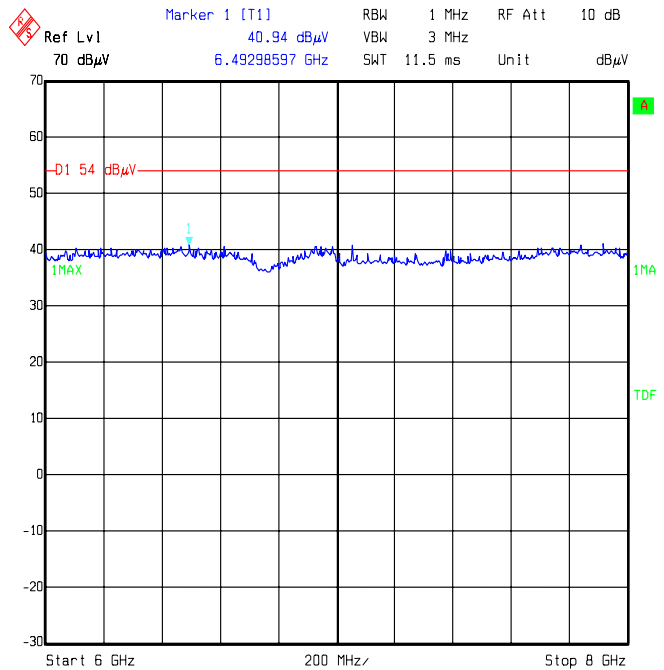
Frequency (GHz)	Antenna Polarity	Detector Level (dB μ V)	Antenna Factor (dB)	Actual Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2453.067	Horizontal	51.6	-11.2	40.4	54.0	13.6	Complied
2982.186	Horizontal	52.0	-11.4	40.6	54.0	13.4	Complied

Test of: Enfora L.P
 GSM2228 MiniMT
 To: FCC Part 15.107 & 15.109: 2006

Receiver Radiated Spurious Emissions: Section 15.109 (Continued)



Title: Radiated Spurious Emissions for Enfora JN: 72182JD10
 Comment A: Site 2 Standby Mode Scans Job No 72182JD10 GSM850MHz
 Date: 22.NOV.2006 13:31:08

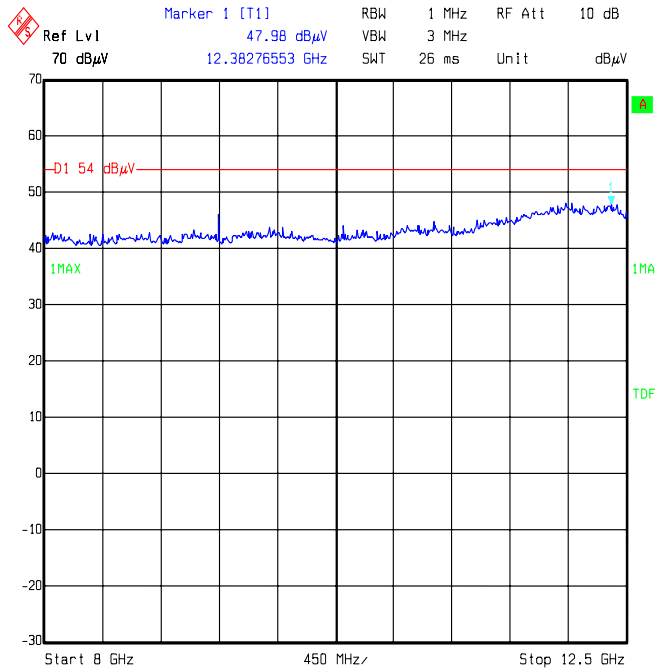


Title: Radiated Spurious Emissions for Enfora JN: 72182JD10
 Comment A: Site 2 Standby Mode Scans Job No 72182JD10 GSM850MHz
 Date: 22.NOV.2006 13:34:34

Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.

Test of: Enfora L.P
 GSM2228 MiniMT
 To: FCC Part 15.107 & 15.109: 2006

Receiver Radiated Spurious Emissions: Section 15.109 (Continued)



Title: Radiated Spurious Emissions for Enfora JN: 72182JD10
 Comment A: Site 2 Standby Mode Scans Job No 72182JD10 GSM850MHz
 Date: 22.NOV.2006 13:37:30

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

Test of: Enfora L.P
GSM2228 MiniMT
To: FCC Part 15.107 & 15.109: 2006

7.2.4. Receiver Radiated Spurious Emissions: Section 15.109 – GSM 1900

Electric Field Strength Measurements (Frequency Range: 30 MHz to 1000 MHz)

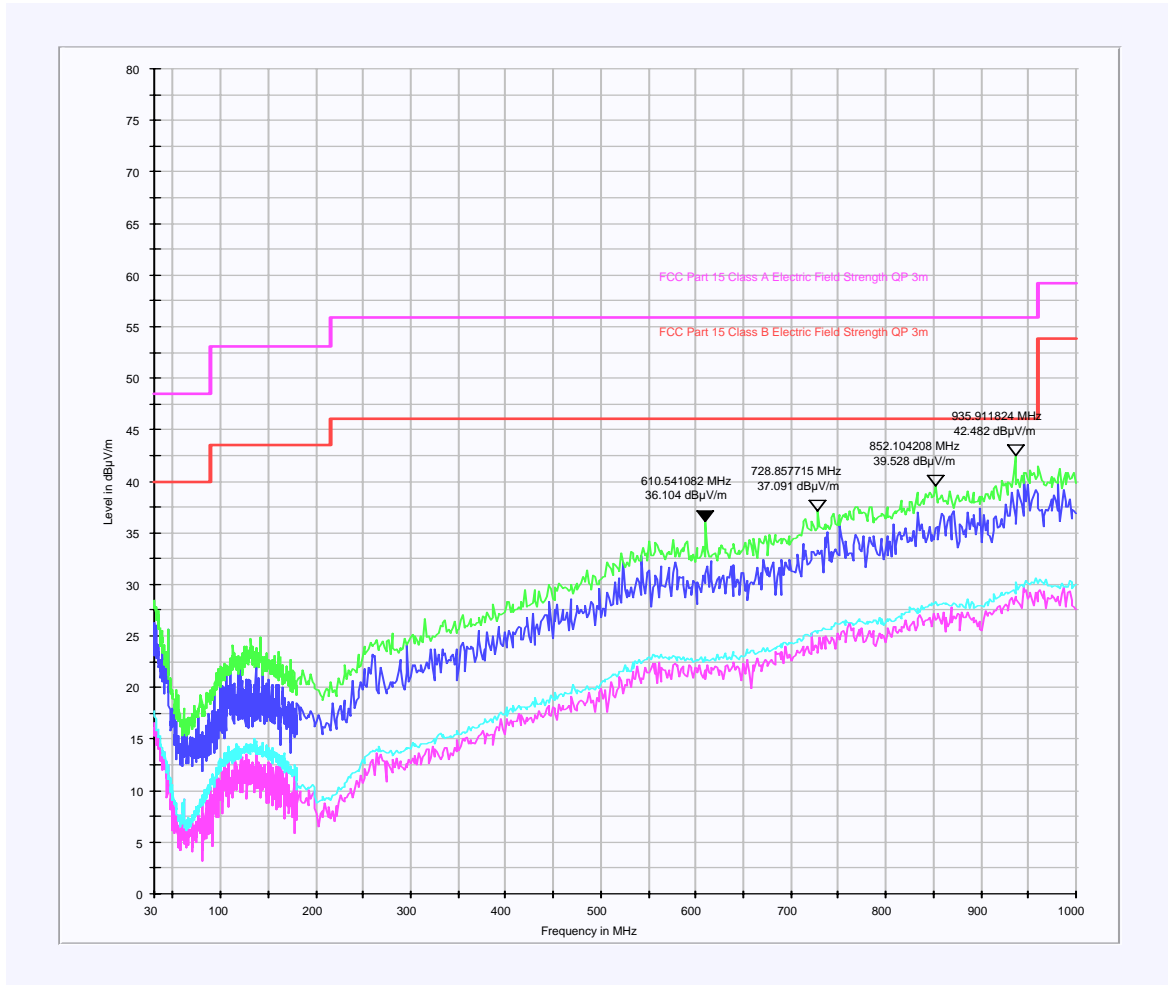
The EUT was configured for receiver radiated emissions testing, as described in Section 9 of this report. Tests were performed to identify the maximum receiver or standby radiated emission levels.

Results:

Frequency (MHz)	Antenna Polarity	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
610.543	Horizontal	36.9	46.0	9.1	Complied
728.857	Vertical	26.5	46.0	19.5	Complied
852.101	Vertical	29.3	46.0	16.7	Complied

Test of: Enfora L.P
GSM2228 MiniMT
To: FCC Part 15.107 & 15.109: 2006

Receiver Radiated Spurious Emissions: Section 15.109 (Continued)



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

Test of: Enfora L.P
 GSM2228 MiniMT
 To: FCC Part 15.107 & 15.109: 2006

Receiver Radiated Spurious Emissions: Section 15.109 (Continued)

Electric Field Strength Measurements (Frequency Range: 1 GHz to 12.5 GHz)

Results: Middle Channel

Highest Peak Level:

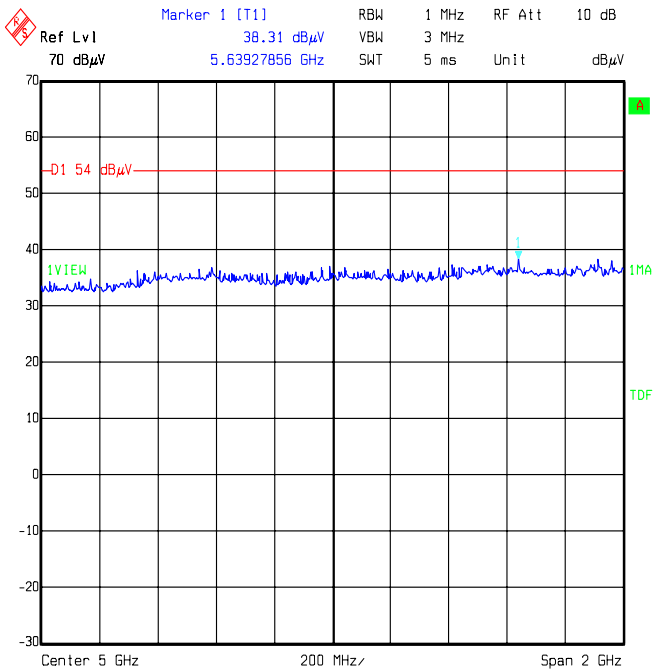
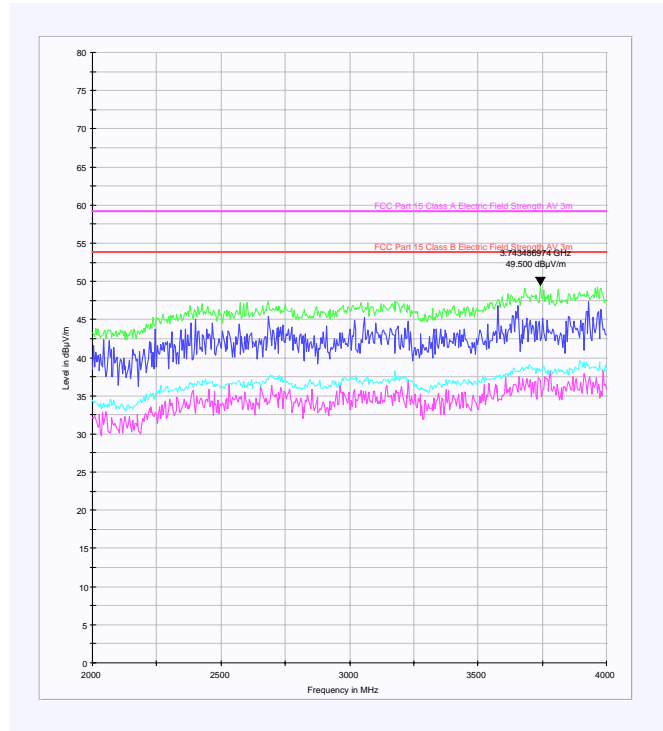
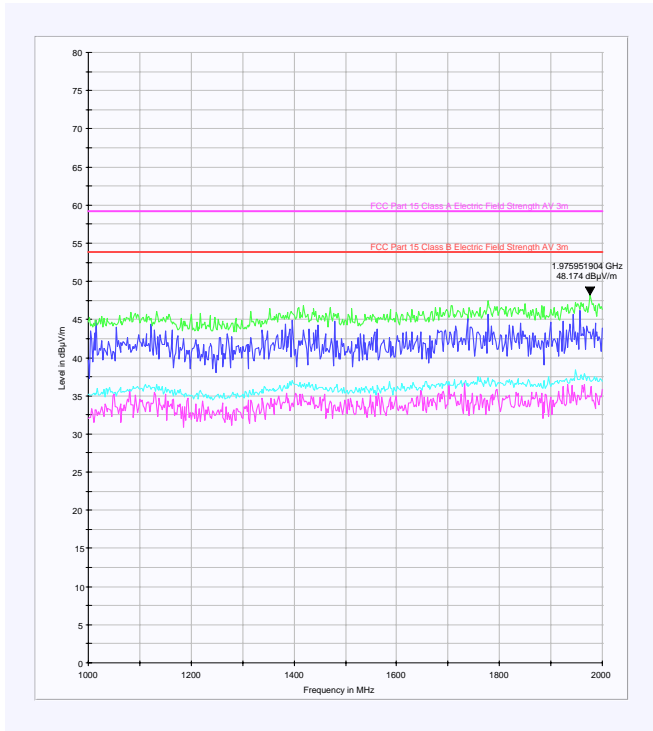
Frequency (GHz)	Antenna Polarity	Detector Level (dB μ V)	Antenna Factor (dB)	Actual Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
3683.678	Vertical	62.1	-10.2	51.9	74.0	22.1	Complied
3743.798	Vertical	62.7	-10.3	52.4	74.0	21.6	Complied

Highest Average Level:

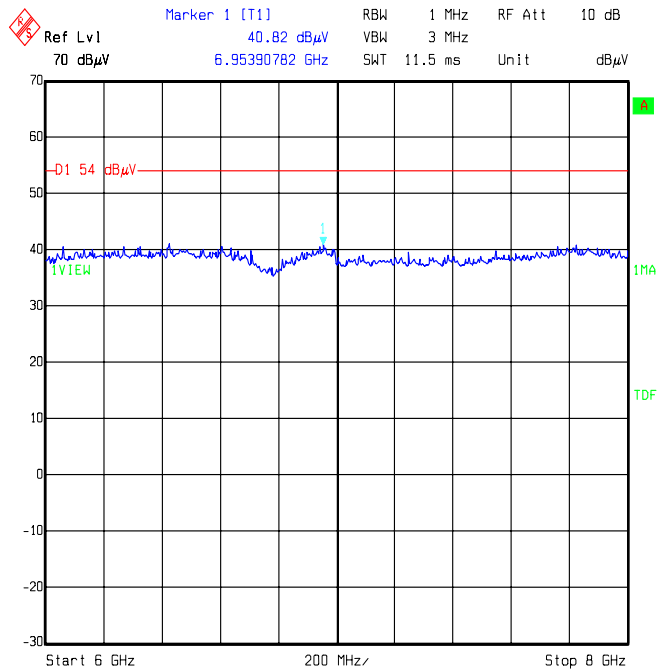
Frequency (GHz)	Antenna Polarity	Detector Level (dB μ V)	Antenna Factor (dB)	Actual Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
3683.678	Vertical	55.6	-10.2	45.4	54.0	8.6	Complied
3743.798	Vertical	56.4	-10.3	46.1	54.0	7.9	Complied

Test of: Enfora L.P
 GSM2228 MiniMT
 To: FCC Part 15.107 & 15.109: 2006

Receiver Radiated Spurious Emissions: Section 15.109 (Continued)



Title: Radiated Spurious Emissions for Enfora JN: 72182JD10
 Comment A: Site 2 Standby Mode Scans Job No 72182JD10 GSM1900MHz
 Date: 22.NOV.2006 13:46:10

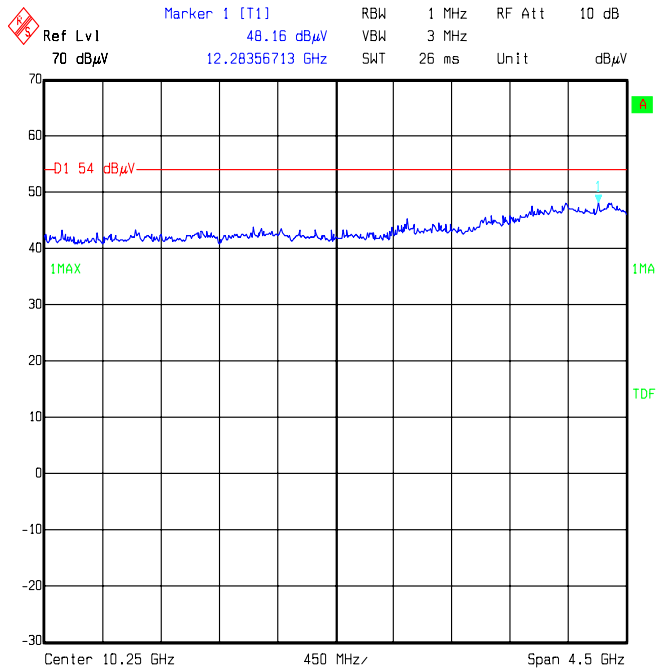


Title: Radiated Spurious Emissions for Enfora JN: 72182JD10
 Comment A: Site 2 Standby Mode Scans Job No 72182JD10 GSM1900MHz
 Date: 22.NOV.2006 13:42:53

Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.

Test of: Enfora L.P
GSM2228 MiniMT
To: FCC Part 15.107 & 15.109: 2006

Receiver Radiated Spurious Emissions: Section 15.109 (Continued)



Title: Radiated Spurious Emissions for Enfora JN: 72182JD10
Comment A: Site 2 Standby Mode Scans Job No 72182JD10 GSM1900MHz
Date: 22.NOV.2006 13:40:41

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

Test of: Enfora L.P
GSM2228 MiniMT
To: FCC Part 15.107 & 15.109: 2006

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
AC Conducted Spurious Emissions	0.15 MHz to 30 MHz	95%	+/- 3.25 dB
Radiated Spurious Emissions	30 MHz to 1000 MHz	95%	+/- 5.26 dB
Radiated Spurious Emissions	1 GHz to 18 GHz	95%	+/- 2.94 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 of: Enfora L.P
 GSM2228 MiniMT
 To: FCC Part 15.107 & 15.109: 2006

9. Measurement Methods

9.1. AC Mains Conducted Emissions

AC mains conducted emissions measurements were performed in accordance with the standard, against appropriate limits for each detector function.

The test was performed in a shielded enclosure with the equipment arranged as detailed in the standard on a wooden bench using the floor of the screened enclosure as the ground reference plane. The EUT was powered with 110V 60 Hz AC mains supplied via a Line Impedance Stabilisation Network (LISN).

Initial measurements in the form of swept scans covering the entire measurement band were performed in order to identify frequencies on which the EUT was generating interference. In order to minimise the time taken for these swept measurements, a Peak detector was used in conjunction with the appropriate detector IF measuring bandwidths (see table below). Repetitive scans were performed to allow for emissions with low repetition rates, and the duty cycle of the EUT. The test configuration was the same for the initial scans as for the final measurements.

Following the initial scans, a graph was produced giving an overview of the emissions from the EUT plotted against the appropriate specification limit. A tolerance line was set 6 dB below the specification limit and levels above the tolerance line were re-tested (at individual frequencies) using the appropriate detector function.

The test equipment settings for conducted emissions measurements were as follows:

Receiver Function	Initial Scan	Final Measurements
Detector Type:	Peak	Quasi-Peak (CISPR)/Average
Mode:	Max Hold	Not applicable
Bandwidth:	10 kHz	9 kHz
Amplitude Range:	60 dB	20 dB
Measurement Time:	Not applicable	> 1 s
Observation Time:	Not applicable	> 15 s
Step Size:	Continuous sweep	Not applicable
Sweep Time:	Coupled	Not applicable

Test of: Enfora L.P
 GSM2228 MiniMT
 To: FCC Part 15.107 & 15.109: 2006

9.2. Receiver Radiated Emissions

Radiated emissions measurements were performed in accordance with the standard, against appropriate limits for each detector function.

Initial pre-scans covering the entire measurement band from the lowest generated frequency declared up to the upper frequency detailed in Section 15.33(b) were performed within a screened chamber in order to identify frequencies on which the EUT was generating interference. This determined the frequencies from the EUT, which required further examination. In order to minimise the time taken for the swept measurements, a peak detector was used in conjunction with the appropriate detector measuring bandwidth (see table below). Repetitive scans were performed to allow for emissions with low repetition rates, and for the duty cycle of the EUT.

The initial scans were performed using an antenna height of 1.5 m and a measurement distance of 3 m. A limit line was set to the specification limit. Levels within 20 dB of this limit were measured where possible, on occasion, the receiver noise floor came within the 20 dB boundary. On these occasions, the system noise floor may have been recorded.

An open area test site using the appropriate test distance and measuring receiver with a Quasi-Peak detector was used for measurements below 1000 MHz, for measurements above 1000 MHz average and peak detectors were used.

For the final measurements the EUT was arranged on a non-conducting turn table on a standard test site compliant with ANSI C63.4 – 2001 Clause 5.4.

On the open area test site, at each frequency where a signal was found, the levels were maximised by initially rotating the turntable through 360° and then varying the antenna height between 1 m and 4 m in the horizontal polarisation. At this point, any signals found to be between the limit and a level 6 dB below it were further maximised by changing the configuration of the EUT, e.g. re-routing cables to peripherals and moving peripherals with respect to the EUT. The procedure was repeated for the vertical polarisation.

The final field strength was determined as the indicated level in dB μ V plus cable loss and antenna factor.

The test equipment settings for radiated emissions measurements were as follows:

Receiver Function	Initial Scan	Final Measurements Below 1 GHz	Final Measurements Above 1 GHz
Detector Type:	Peak	Quasi-Peak (CISPR)	Peak/Average
Mode:	Max Hold	Not applicable	Not applicable
Bandwidth:	(120 kHz < 1 GHz) (1 MHz > 1 GHz)	120 kHz	1 MHz
Amplitude Range:	100 dB	100 dB	100 dB
Step Size:	Continuous sweep	Not applicable	Not applicable
Sweep Time:	Coupled	Not applicable	Not applicable

Test of: Enfora L.P
GSM2228 MiniMT
To: FCC Part 15.107 & 15.109: 2006

Appendix 1. Test Equipment Used

RFI No.	Instrument	Manufacturer	Type No.	Serial No.	Date Last Calibrated	Cal. Interval
A027	1-2 GHz Horn Antenna	Eaton	9188-2	301	08 Jun 06	36
A031	2 to 4 GHz Eaton Horn Antenna	Eaton	91889-2	557	08 Jun 06	36
A067	Line Impedance Stabilization Network	Rohde & Schwarz	ESH3-Z5	890603/002	27 Mar 06	12
A1361	ESH3-Z2 Pulse Limiter	Rohde & Schwarz	ESH3-Z2	A1361-20112003	Cal as part of system	-
A1515	1.0 to 4.4 GHz Horn Antenna	Stoddart Aircraft Radio Co., Inc	92341-1	0436	6 Oct 06	-
A1516	Universal Radio Communications Tester	Rohde & Schwarz	CMU200	1100.0008.02	29 Sep 06	3
A1529	Antenna	AARONIA AG	7025	02460	6 Oct 06	12
A1534	Preamplifier 1-26.5 GHz	Hewlett Packard	8449B OPT H02	3008A00405	6 Oct 06	12
A1817	1-18GHz Horn Antenna	EMCO	3115	00075694	03 Nov 06	12
A255	WG 16 Microwave Horn	Flann Microwave	16240-20	519	16 Oct 06	36
A259	Bilog Antenna	Chase	CBL6111	1513	03 Mar 06	12
A288	Bilog Antenna	Chase	CBL6111 A	1589	Cal as part of system	-
A427	WG 14 Microwave Horn Antenna	Flann	14240-20	150	16 Oct 06	36
A428	WG 12 Microwave Horn Antenna	Flann	12240-20	134	16 Oct 06	36
C1057	Cable	RS	1	1	Cal before use	-
C1083	Cable	Rosenberger	001	2799	Cal before use	-
C1121	Cable	Rosenberger	FA210A10 30005050	1704 34844-02	Cal before use	-
C1162	1m N-Type Cable	Rosenberger Micro-Coax Limited	FA210A10 10007070	43187-2	Cal before use	-
C454	3m Flexy Cable	Rosenberger	RG142XX -001-RFIB	C454-10081998	Cal before use	-
C461	Cable	Rosenberger	UFA210A-1-1182-704704	98H0305	Cal before use	-

Test of: Enfora L.P
 GSM2228 MiniMT
 To: FCC Part 15.107 & 15.109: 2006

Test Equipment Used (Continued)

RFI No.	Instrument	Manufacturer	Type No.	Serial No.	Date Last Calibrated	Cal. Interval
C574	50 ohm co-ax Cable	Rosenberger	UFA210A-1-788-50x50	97E0937	Cal before use	-
M023	ESVP Receiver	Rohde & Schwarz	ESVP	872 991/027	10 Apr 06	12
M024	EZM Spectrum Monitor	Rohde & Schwarz	EZM	873 952/006	Cal before use	-
M1013	GSM Test set	Hewlett Packard	8922H	3503U00372	N/A	-
M1093	Communications Test Set	Will tek	4202S	0513018	N/A	-
M1180	Thermo-Hygro	RS	212-124	N/A	18 Feb 06	12
M1242	Spectrum Analyser	Rohde & Schwarz, Inc.	FSEM30	845986_022	8 Sept 06	12
M1273	20 Hz - 26.6 GHz EMI Test Receiver, Rhode & Schwarz	Rhode & Schwarz	ESIB 26	100275	15 Mar 06	12
M1391	Thermo Hygrometer	Oergon Scientific	BAR629H GU	N/A	23 Oct 06	12
S201	3m & 10m OATS	RFI	1	-	18 Jul 06	12
S209	Emissions Screened Room	RFI	9	-	29 May 06	12

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

Test of: Enfora L.P
GSM2228 MiniMT
To: FCC Part 15.107 & 15.109: 2006

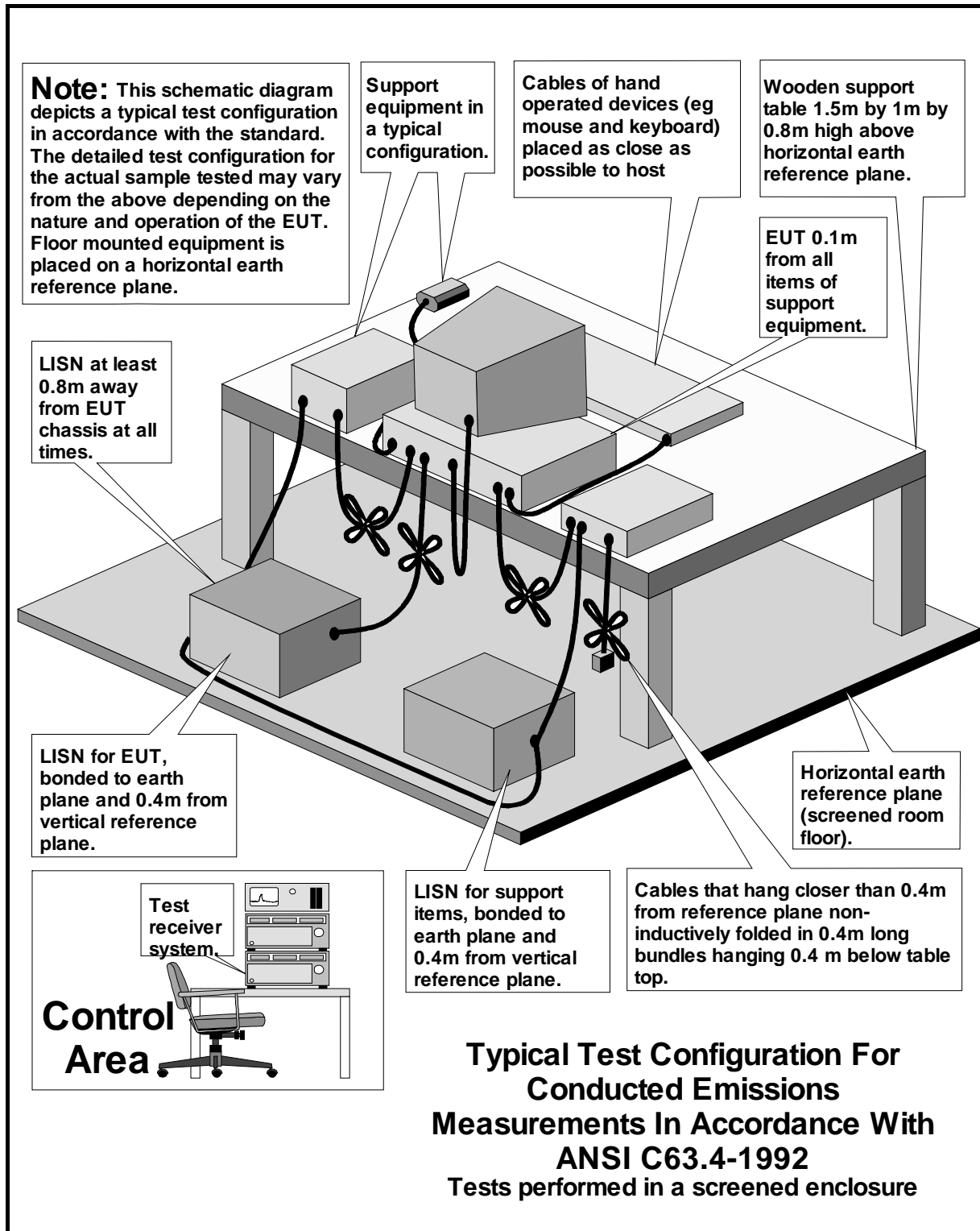
Appendix 2. Test Configuration Drawings

This appendix contains the following drawings:

Drawing Reference Number	Title
DRG\72182JD10\EMICON	Test configuration for measurement of conducted emissions.
DRG\72182JD10\EMIRAD	Test configuration for measurement of radiated emissions.

Test of: Enfora L.P
 GSM2228 MiniMT
 To: FCC Part 15.107 & 15.109: 2006

DRG\72182JD10\EMICON



Test of: Enfora L.P
 GSM2228 MiniMT
 To: FCC Part 15.107 & 15.109: 2006

DRG\72182JD10\EMIRAD

