

# TEST REPORT FROM RFI GLOBAL SERVICES LTD

Test of: MiLife Coaching Ltd  
PAM

To: FCC Part 15.247: 2006 (Subpart C)  
RSS-210 Issue 7 June 2007 and RSS-Gen Issue 2 June 2007

**Test Report Serial No:**  
RFI/RPTE6/RP49779JD01A

**Supersedes Test Report Serial No:**  
RFI/RPTE5/RP49779JD01A

**This Test Report Is Issued Under The Authority  
Of Steve Flooks, Radio Performance Service Leader:**



Checked By: Steve Flooks	 Report Copy No: PDF01
Issue Date: 22 July 2008	Test Dates: 04 May 2008 to 06 May 2008

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## **1. Client Information**

<b>Company Name:</b>	MiLife Coaching Ltd
<b>Address:</b>	Suite 22 Colworth House Annexe Colworth Science Park Sharnbrook Bedford MK44 1LQ
<b>Contact Name:</b>	Mr S Jackson

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## **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)**

<b>Description:</b>	MiBand Activity Monitor
<b>Brand Name:</b>	Milife Coaching Ltd
<b>Model Name or Number:</b>	miab-001
<b>Unique Type Identification:</b>	C7796-001b
<b>Serial Number:</b>	001857000ABD
<b>Hardware Version:</b>	Revision B
<b>Software Version:</b>	V211
<b>FCC ID Number:</b>	WFC000001
<b>Country of Manufacture:</b>	EU
<b>Date of Receipt:</b>	26 February 2008

<b>Description:</b>	MiBand Charging Cradle
<b>Brand Name:</b>	None Stated
<b>Model Name or Number:</b>	mic-001
<b>Unique Type Identification:</b>	C7796-GA-002
<b>Serial Number:</b>	None Stated
<b>Hardware Version:</b>	3.0
<b>Software Version:</b>	None Stated
<b>FCC ID Number:</b>	WFC000001
<b>Country of Manufacture:</b>	EU
<b>Date of Receipt:</b>	26 February 2008

<b>Description:</b>	Power Supply
<b>Brand Name:</b>	GS
<b>Model Name or Number:</b>	HK-JP05-A05
<b>Unique Type Identification:</b>	None Stated
<b>Serial Number:</b>	0707CLF
<b>Country of Manufacture:</b>	None Stated
<b>Date of Receipt:</b>	26 February 2008

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## **2.2. Description of EUT**

The equipment under test is an online coaching system to help individuals to manage their activity, weight and nutrition.

## **2.3. Modifications Incorporated in EUT**

During the course of testing the EUT was not modified.

## **2.4. Accessories**

No accessories were supplied with the EUT.

## **2.5. Support Equipment**

No support equipment was used to exercise the EUT during testing.

## **2.6. Additional Information Related to Testing**

<b>Power Supply Requirement:</b>	Nominal 110 V, 60 Hz AC Mains Supply (Idle Mode) Internal battery Supply of: 3.7V (Transmit mode)		
<b>Intended Operating Environment:</b>	Residential within Bluetooth coverage		
<b>Equipment Category:</b>	<i>Bluetooth</i>		
<b>Type of Unit:</b>	Portable (Standalone battery powered device) (Transmit Mode) Transceiver		
<b>Transmit Frequency Range:</b>	2.402 GHz – 2.480 GHz		
<b>Transmit Channels Tested:</b>	<b>Channel ID</b>	<b>Channel Number</b>	<b>Channel Frequency (GHz)</b>
	Bottom	0	2.402
	Middle	39	2.441
	Top	78	2.480
<b>Receive Frequency Range:</b>	2.402 GHz – 2.480 GHz		
<b>Receive Channels Tested:</b>	<b>Channel ID</b>	<b>Channel Number</b>	<b>Channel Frequency (GHz)</b>
	Bottom	0	2.402
	Middle	39	2.441
	Top	78	2.480
<b>Maximum Peak Power Output (EIRP)</b>	-14.5 dBm		

## **2.7. Port Identification**

<b>Port</b>	<b>Description</b>	<b>Type/Length</b>	<b>Applicable</b>
1	Enclosure	N/A	Y
2	Charging Point	N/A	Y

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### **3. Test Specification, Methods and Procedures**

<b>Reference:</b>	FCC Part 15.247: 2006 Subpart C
<b>Title:</b>	Code of Federal Regulations, Part 15.247 (47CFR22) (Intentional Radiators operating within the bands 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz)

<b>Reference:</b>	RSS-210 Issue 7 June 2007
<b>Title:</b>	Low-power Licence-exempt Radio communication Devices (All Frequency Bands): Category Equipment.

<b>Reference:</b>	RSS-Gen Issue 2 June 2007
<b>Title:</b>	General Requirements and Information for the Certification of Radio communication Equipment.

#### **3.1. Methods and Procedures**

The methods and procedures used were as detailed in:

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.

DA00-705 (2000)

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

#### **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.

### **4. Deviations from the Test Specification**

There were no deviations from the test specifications.

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## **5. Operation of the EUT during Testing**

### **5.1. Operating Modes**

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

- Idle (Charging in the cradle)
- Transmit (Not in Cradle as EUT cannot transmit while charging)

### **5.2. Configuration and Peripherals**

The EUT was tested in the following configuration:

- Located in the charging cradle which was connected to the 110 V, 60 Hz AC Mains Supply (Idle Mode).
- In Bluetooth Test Mode and in a link with a Bluetooth test set (Transmit Mode).

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## **6. Summary of Test Results**

Range of Measurements	FCC Part 15 Reference	IC RSS Reference	Port Type	Compliance Status
Idle Mode AC Conducted Emissions (150 kHz to 30 MHz)	15.107	RSS-Gen 7.2.2	AC Mains	Complied
Idle Mode Radiated Spurious Emissions	15.109	RSS-Gen 6.0	Antenna	Complied
Transmitter 20 dB Bandwidth	15.247(a)(1)	RSS-210 A8.1(a)	Antenna	Complied
Transmitter Carrier Frequency Separation	15.247(a)(1)	RSS-210 A8.1(b)	Antenna	Complied
Transmitter Average Time of Occupancy	15.247(a)(1)(iii)	RSS-210 A8.1(d)	Antenna	Complied
Transmitter Maximum Peak Output Power	15.247(b)(1)	RSS-210 A8.4(2)	Antenna	Complied
Transmitter Radiated Emissions	15.247(d) & 15.209(a)	RSS-210 A8.5	Antenna	Complied
Transmitter Band Edge Radiated Emissions	15.247(d) & 15.209(a)	RSS-210 A8.5	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

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## **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.

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## **7.2. Test Results**

### **7.2.1. Idle Mode AC Conducted Spurious Emissions**

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

Tests were performed to identify the maximum emission levels present on the ac mains line of the EUT.

#### **Quasi-Peak Detector Measurements on Live and Neutral Lines**

Frequency (MHz)	Line	Level (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Result
0.195000	Live	43.5	63.8	20.3	Complied
0.204000	Live	44.3	63.4	19.1	Complied
0.298500	Live	40.0	60.3	20.3	Complied
0.514500	Live	34.8	56.0	21.2	Complied
0.591000	Live	34.4	56.0	21.6	Complied
0.613500	Neutral	34.0	56.0	22.0	Complied
0.708000	Neutral	31.3	56.0	24.7	Complied
0.793500	Live	30.5	56.0	25.5	Complied
0.807000	Live	31.5	56.0	24.5	Complied
4.960500	Neutral	28.7	56.0	27.3	Complied

#### **Average Detector Measurements on Live and Neutral Lines**

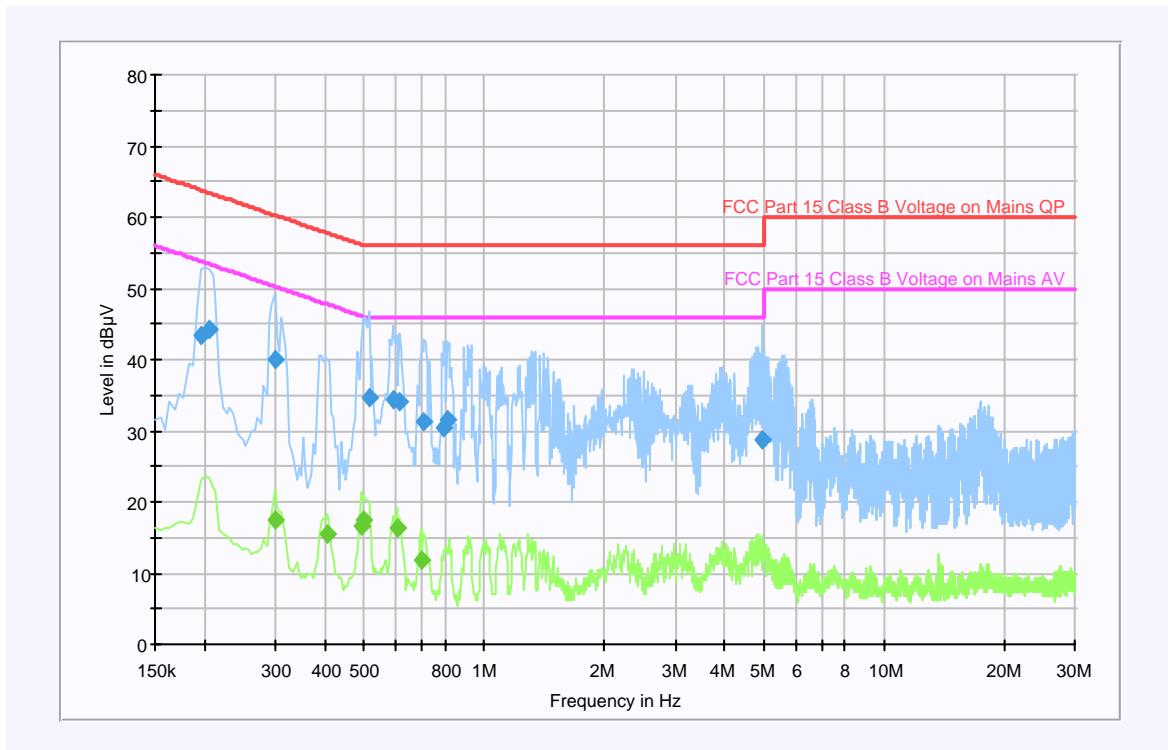
Frequency (MHz)	Line	Level (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Result
0.298500	Neutral	17.6	32.7	50.3	Complied
0.406500	Neutral	15.5	32.2	47.7	Complied
0.492000	Neutral	16.7	29.4	46.1	Complied
0.501000	Neutral	17.5	28.5	46.0	Complied
0.604500	Neutral	16.5	29.5	46.0	Complied
0.694500	Neutral	11.9	34.1	46.0	Complied

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Idle Mode AC Conducted Spurious Emissions (continued)

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

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### **7.2.2. Idle Mode Radiated Spurious Emissions**

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

Tests were performed to identify the maximum receiver or standby radiated emission levels.

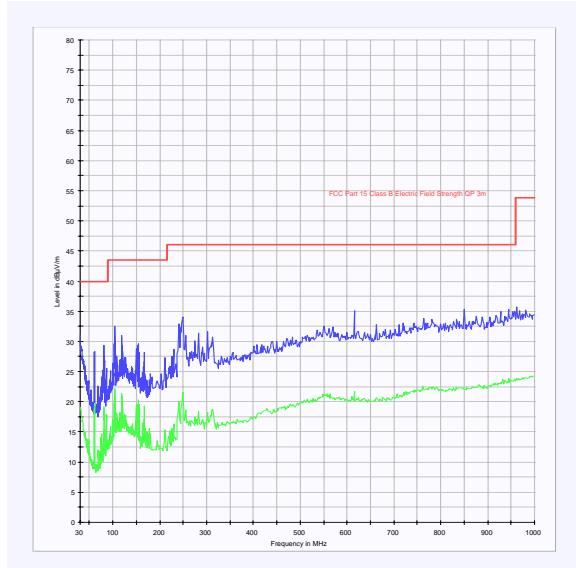
#### **Electric Field Strength Measurements (Frequency Range: 30 to 1000 MHz)**

Frequency (MHz)	Antenna Polarity	Q-P Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
60.891	Vertical	14.7	40.0	25.3	Complied
109.710	Vertical	29.3	43.5	14.2	Complied
136.984	Horizontal	25.5	43.5	18.0	Complied
164.745	Horizontal	26.4	43.5	17.1	Complied
177.917	Vertical	19.2	43.5	24.3	Complied
207.645	Vertical	19.5	43.5	24.0	Complied
230.541	Vertical	21.2	46.0	24.8	Complied

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**Idle Mode Radiated Spurious Emissions (continued)**



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

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### **7.2.3. Idle Mode Radiated Spurious Emissions**

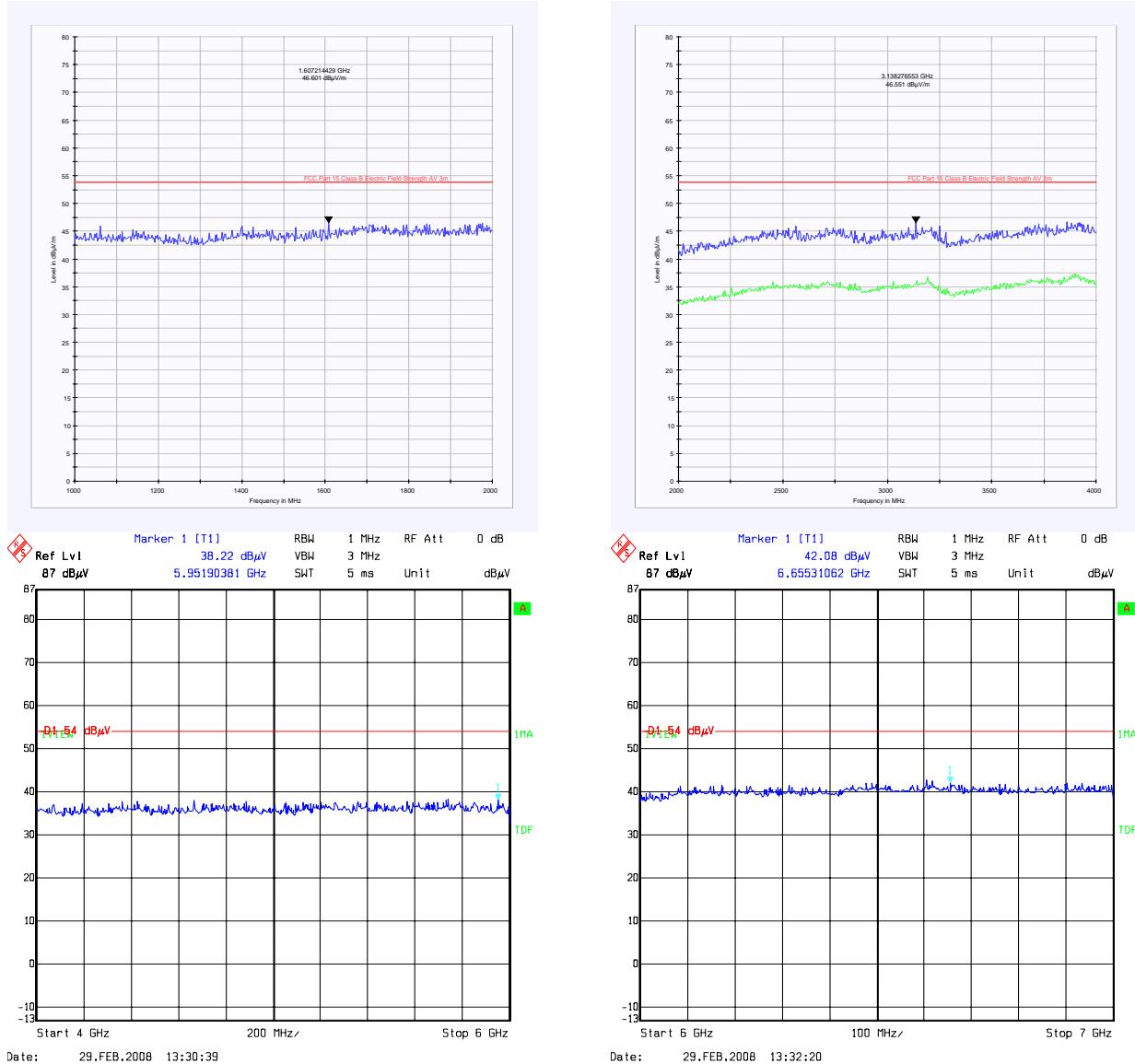
#### **Electric Field Strength Measurements (Frequency Range: 1 to 12.5 GHz)**

##### **Highest Peak Level:**

Frequency (GHz)	Antenna Polarity	Detector Level (dB $\mu$ V)	Transducer Factor (dB)	Actual Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
3.87975	Vertical	53.9	-6.1	47.8	54.0	6.2	Complied

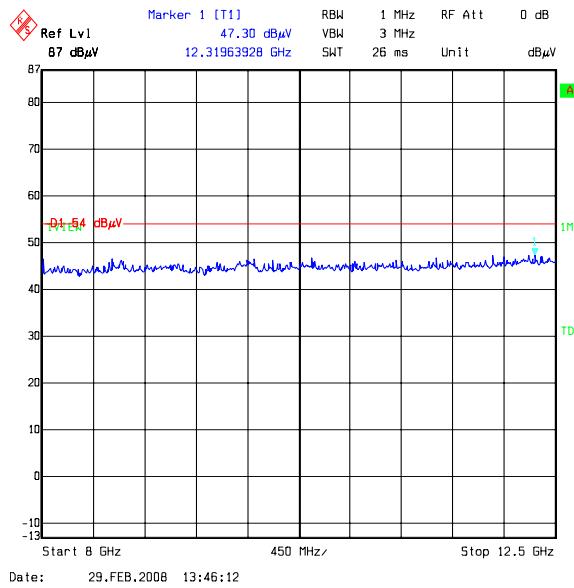
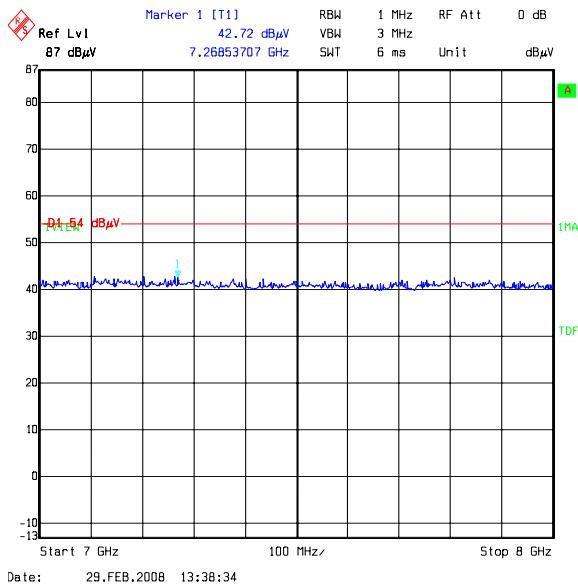
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### Idle Mode Radiated Spurious Emissions (continued)



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### Idle Mode Radiated Spurious Emissions (continued)



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

### Note(s):

1. \*Note: No spurious emissions were detected above the noise floor of the measuring receiver; therefore, the highest peak noise floor reading of the measuring receiver was recorded as shown in the table above.
- \*\*Note: The peak level was compared to the average limit as opposed to being compared to the peak limit because this is the more onerous limit.

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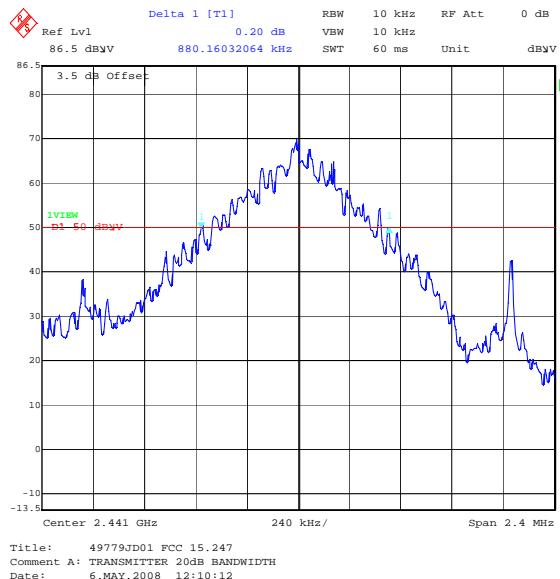
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#### **7.2.4. Transmitter 20 dB Bandwidth**

Tests were performed using the test methods detailed in Public Notice DA 00-705 (March 30, 2000).

Tests were performed to identify the 20 dB bandwidth.

Transmitter 20 dB Bandwidth (kHz)	Limit (kHz)
880.160	None Stated



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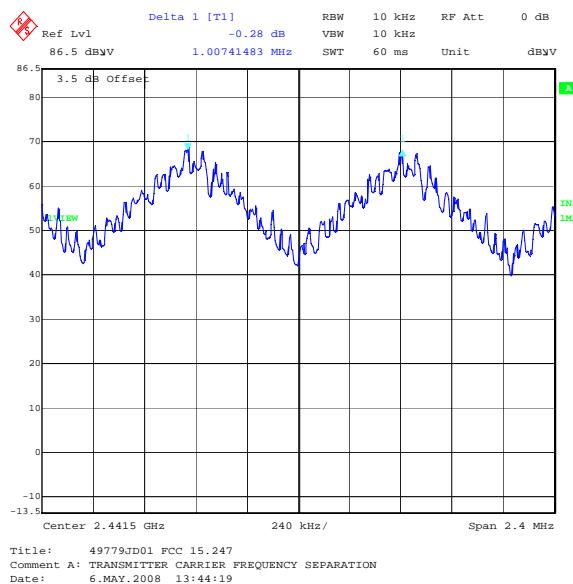
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### **7.2.5. Transmitter Carrier Frequency Separation**

Tests were performed using the test methods detailed in Public Notice DA 00-705 (March 30, 2000).

Tests were performed to identify the carrier frequency separation.

Transmitter Carrier Frequency Separation (kHz)	Limit ( $\geq \frac{2}{3}$ of 20 dB BW) (kHz)	Margin (kHz)	Result
1007.414	586.773	420.641	Complied



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#### 7.2.6. Transmitter Average Time of Occupancy

Tests were performed using the test methods detailed in Public Notice DA 00-705 (March 30, 2000).

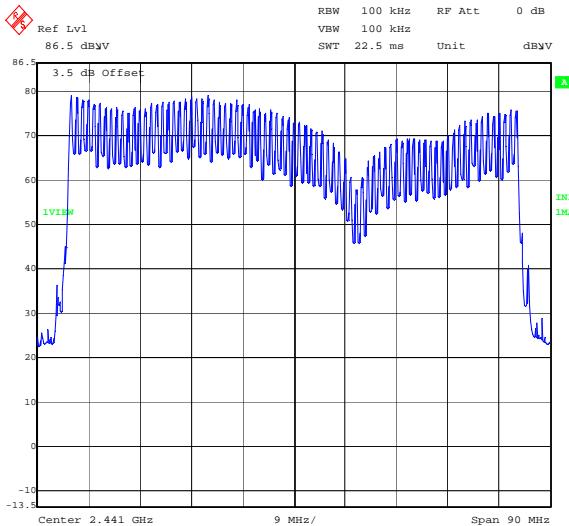
Emission Width (μs)	Number of Hopping Channels	Number of Hops in Seconds	Average Time of Occupancy (s)	Limit (s)	Margin (s)	Result
2935.872	77	0.2260	0.4	0.1740	Complied	2935.872

#### Note(s):

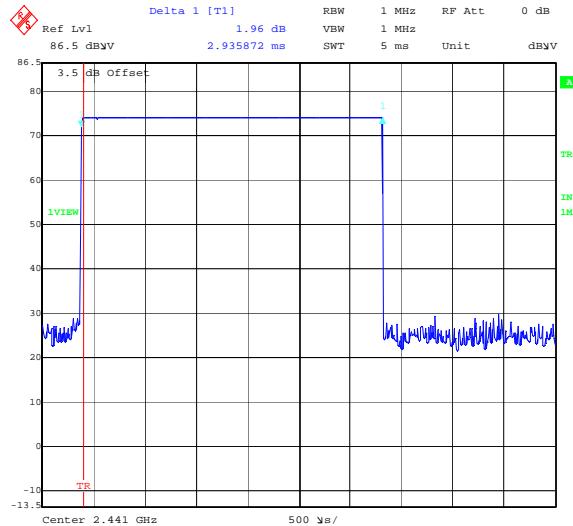
1. *Tests were performed to identify the average time of occupancy (≤0.4 seconds) and the number of channels used (which must be ≥15) in a period of 0.4 seconds multiplied by number of hopping channels employed.*

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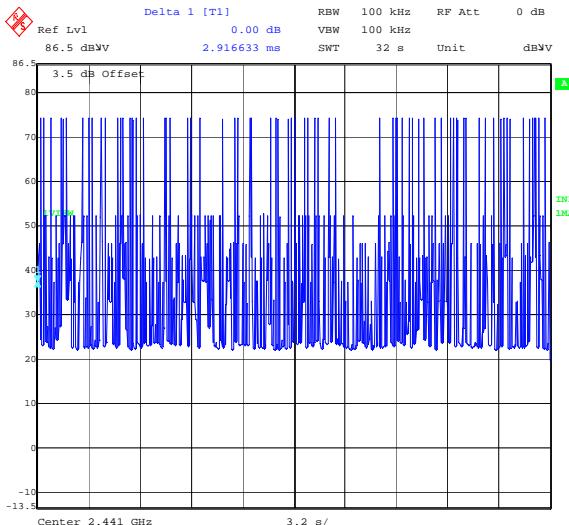
**Transmitter Average Time of Occupancy (continued)**



Title: 49779JD01 FCC 15.247  
Comment A: AVERAGE TIME OF OCCUPANCY, NUMBER OF CHANNELS  
Date: 6.MAY.2008 13:53:55



Title: 49779JD01 FCC 15.247  
Comment A: AVERAGE TIME OF OCCUPANCY, PULSE LENGTH  
Date: 6.MAY.2008 13:57:08



Title: 49779JD01 FCC 15.247  
Comment A: AVERAGE TIME OF OCCUPANCY, NUMBER OF HOPS  
Date: 6.MAY.2008 14:03:39

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#### **7.2.7. Transmitter Maximum Peak Output Power: (EIRP)**

Tests were performed using the test methods detailed in Public Notice DA 00-705 (March 30, 2000), FCC CFR Part 2.

Tests were performed to identify the transmitter maximum peak output power (EIRP) of the EUT.

#### **Battery Powered Devices**

Channel	EIRP (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	-14.5	30.0	44.5	Complied
Middle	-16.3	30.0	46.3	Complied
Top	-17.0	30.0	47.0	Complied

#### **Note(s):**

1. *These tests were performed radiated; therefore the EUT antenna gain is encompassed in the final result and not measurable.*

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### **7.2.8. Transmitter Radiated Emissions**

Tests were performed using the test methods detailed in ANSI C63.4 Section 8 and Public Notice DA 00-705 (March 30, 2000).

Tests were performed to identify the maximum transmitter radiated emission levels.

#### **Electric Field Strength Measurements: 30 to 1000 MHz (emissions occurring in the restricted bands)**

##### **Top Channel**

Frequency (MHz)	Antenna Polarity	Q-P Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
991.783	Horizontal	34.4	54.0	19.6	Complied

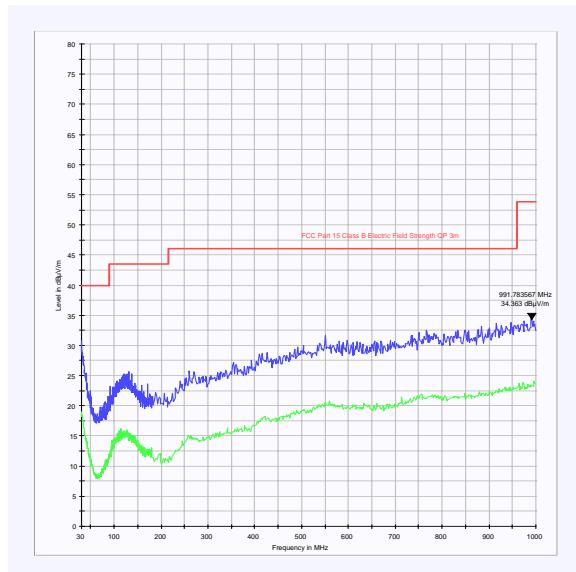
##### **Note(s):**

1. *The preliminary scans showed similar emission levels for each mode below 1 GHz, therefore final radiated emissions measurements were performed with the EUT set to the top channel only.*
2. *\*Note: No spurious emissions were detected above the noise floor of the measuring receiver; therefore, the highest peak noise floor reading of the measuring receiver was recorded as shown in the table above.*  
*\*\*Note: The peak level was compared to the average limit as opposed to being compared to the peak limit because this is the more onerous limit.*

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**Transmitter Radiated Emissions (continued)**



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

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**7.2.9. Transmitter Radiated Emissions (continued)**

Tests were performed using the test methods detailed in ANSI C63.4 Section 8 and Public Notice DA 00-705 (March 30, 2000).

Tests were performed to identify the maximum transmitter radiated emission levels.

**Electric Field Strength Measurements (Frequency Range: 1 to 12 GHz) (emissions occurring in the restricted bands)****Highest Peak Level: Bottom Channel**

Frequency (GHz)	Antenna Polarity	Detector Level (dB $\mu$ V)	Transducer Factor (dB)	Actual Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
4.8030	Horizontal	57.5	-3.3	54.2	74.0	19.8	Complied

**Highest Average Level: Bottom Channel**

Frequency (GHz)	Antenna Polarity	Detector Level (dB $\mu$ V)	Transducer Factor (dB)	Actual Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
4.8030	Horizontal	50.2	-3.3	46.9	54.0	7.1	Complied

**Highest Peak Level: Middle Channel**

Frequency (GHz)	Antenna Polarity	Detector Level (dB $\mu$ V)	Transducer Factor (dB)	Actual Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
4.8820	Horizontal	58.8	-3.5	55.3	74.0	18.7	Complied

**Highest Average Level: Middle Channel**

Frequency (GHz)	Antenna Polarity	Detector Level (dB $\mu$ V)	Transducer Factor (dB)	Actual Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
4.8820	Horizontal	51.0	-3.5	47.5	54.0	6.5	Complied

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**Transmitter Radiated Emissions (continued)****Highest Peak Level: Top Channel**

Frequency (GHz)	Antenna Polarity	Detector Level (dB $\mu$ V)	Transducer Factor (dB)	Actual Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
4.9600	Horizontal	59.8	-3.7	56.1	74.0	17.9	Complied

**Highest Average Level: Top Channel**

Frequency (GHz)	Antenna Polarity	Detector Level (dB $\mu$ V)	Transducer Factor (dB)	Actual Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
4.9600	Horizontal	52.3	-3.7	48.6	54.0	5.4	Complied

**Highest Peak Level: Hopping Channel**

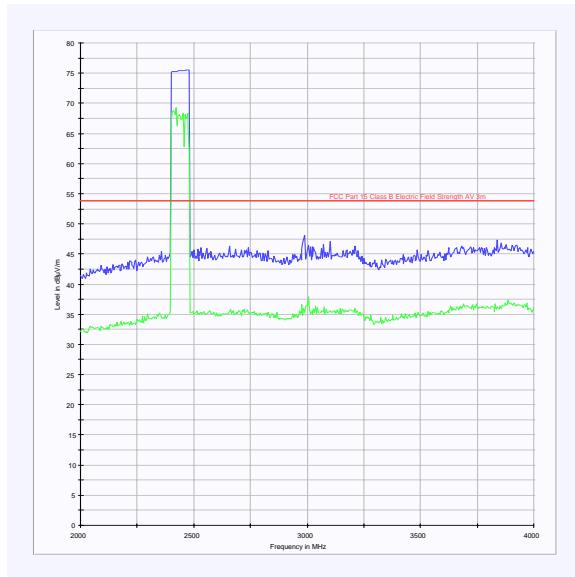
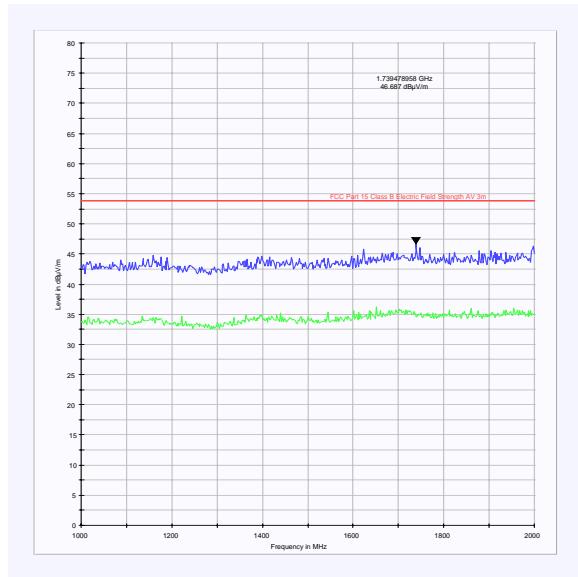
Frequency (GHz)	Antenna Polarity	Detector Level (dB $\mu$ V)	Transducer Factor (dB)	Actual Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
4.9558	Horizontal	59.2	-3.7	55.5	74.0	18.5	Complied

**Highest Average Level: Hopping Channel**

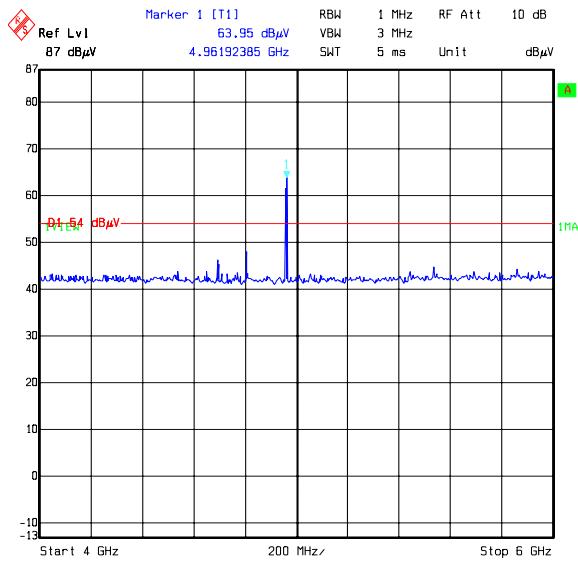
Frequency (GHz)	Antenna Polarity	Detector Level (dB $\mu$ V)	Transducer Factor (dB)	Actual Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
4.9558	Horizontal	40.8	-3.7	37.1	54.0	16.9	Complied

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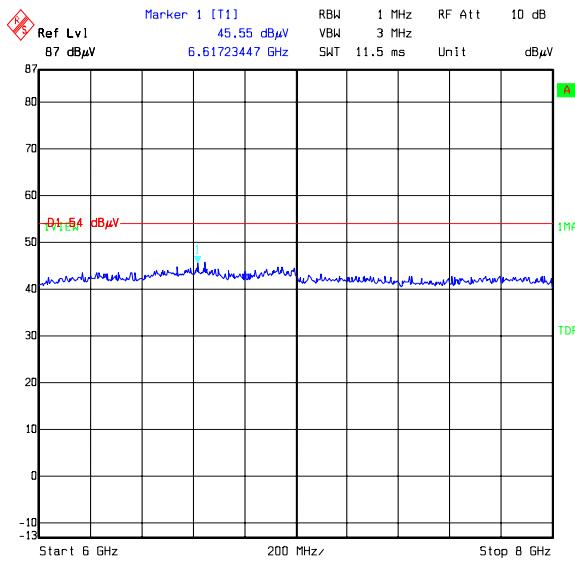
### Transmitter Radiated Emissions (continued)



NOTE: The carrier is shown on the above plot



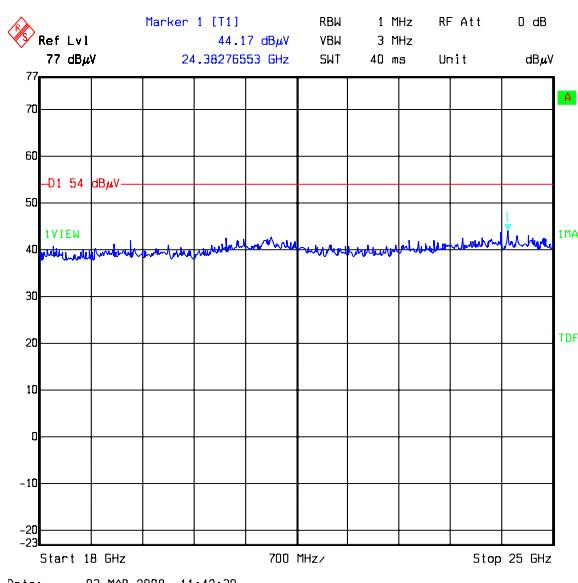
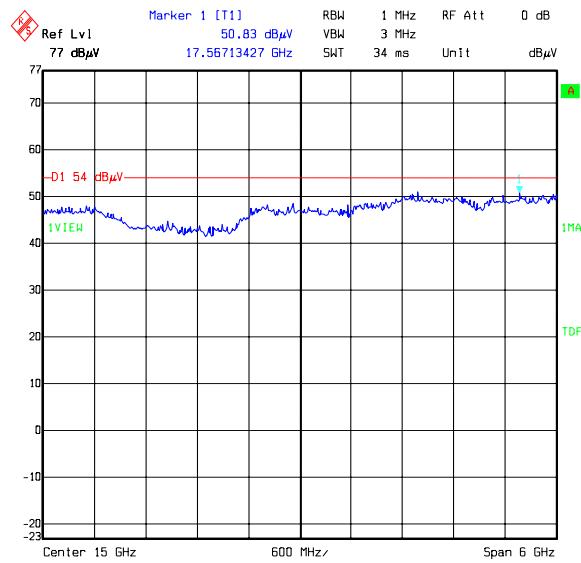
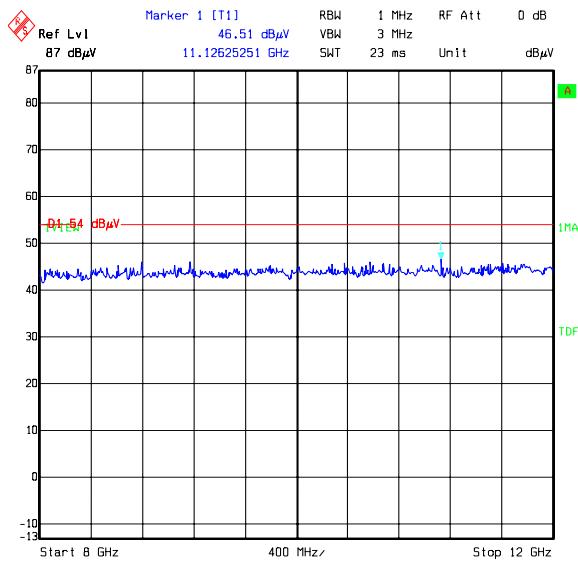
Date: 03.MAR.2008 09:47:05



Date: 03.MAR.2008 10:33:41

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### Transmitter Radiated Emissions (continued)



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

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### **7.2.10. Transmitter Band Edge Radiated Emissions**

Tests were performed using the test methods detailed in ANSI C63.4 Section 8 and Public Notice DA 00-705 (March 30, 2000).

Tests were performed to identify the maximum radiated band edge emissions.

#### **Electric Field Strength Measurements**

##### **Peak Power Level Hopping Mode:**

Frequency (GHz)	Antenna Polarity	Detector Level (dB $\mu$ V)	Transducer Factor (dB)	Actual Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
2.4000	Vertical	34.0	-6.5	27.5	*60.7	33.2	Complied
2.4835	Vertical	45.7	-8.0	37.7	74.0	36.3	Complied

##### **Average Power Level Hopping Mode:**

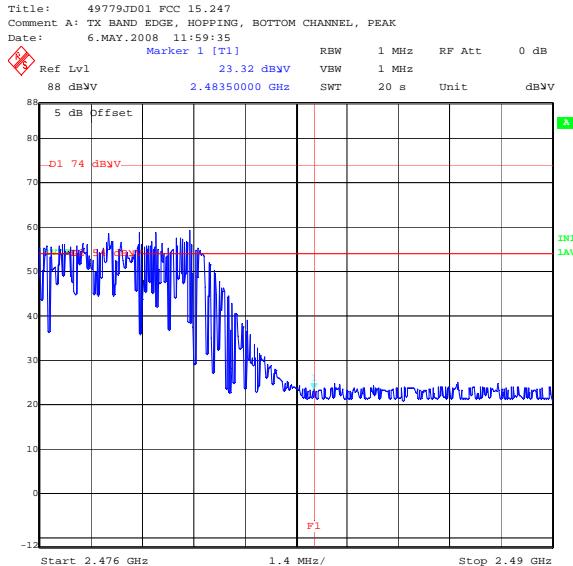
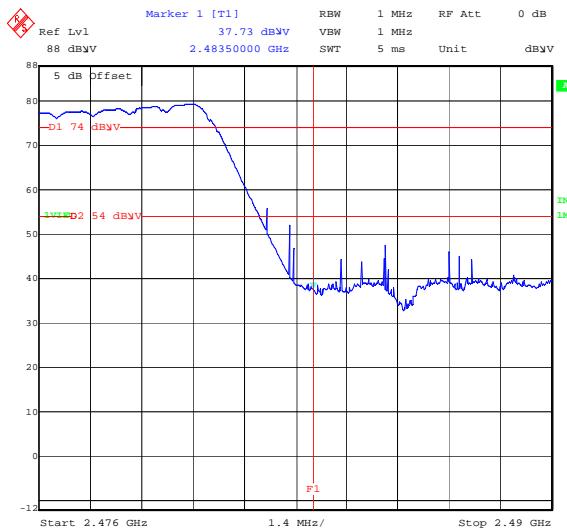
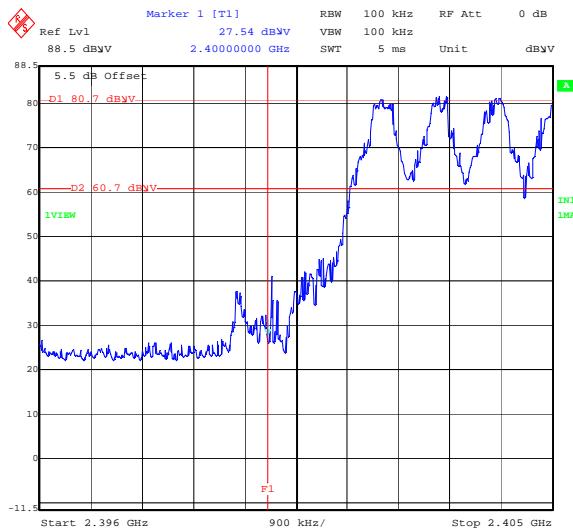
Frequency (GHz)	Antenna Polarity	Detector Level (dB $\mu$ V)	Transducer Factor (dB)	Actual Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
2.4835	Vertical	31.3	-8.0	23.3	54.0	30.7	Complied

#### **Note(s):**

\* -20 dBc Limit

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### Transmitter Band Edge Radiated Emissions (continued)



Title: 49779JD01 FCC 15.247  
Comment A: TX BAND EDGE, HOPPING, TOP CHANNEL, AVERAGE  
Date: 6.MAY.2008 11:45:03

**Test of:** MiLife Coaching Ltd  
**PAM**  
**To:** FCC Part 15.247: 2006 (Subpart C)  
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### **7.2.11. Transmitter Band Edge Radiated Emissions**

Tests were performed using the test methods detailed in ANSI C63.4 Section 8 and Public Notice DA 00-705 (March 30, 2000).

Tests were performed to identify the average radiated band edge emissions.

#### **Peak Power Level Static Mode:**

Frequency (GHz)	Antenna Polarity	Detector Level (dB $\mu$ V)	Transducer Factor (dB)	Actual Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
2.4000	Vertical	40.9	-6.5	34.4	*60.7	26.3	Complied
2.4835	Vertical	44.4	-8.0	36.4	74.0	37.6	Complied

#### **Average Power Level Static Mode:**

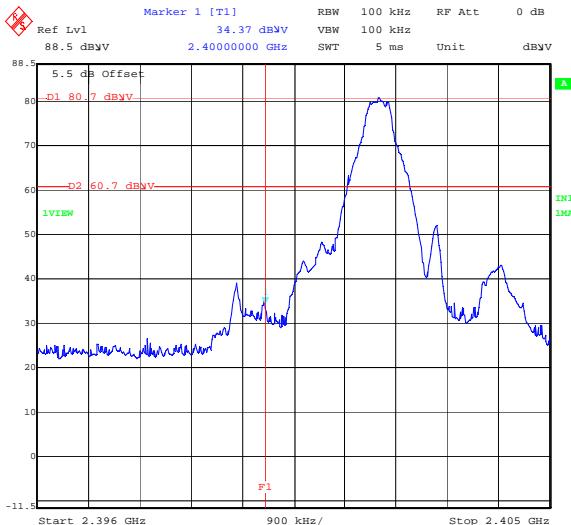
Frequency (GHz)	Antenna Polarity	Detector Level (dB $\mu$ V)	Transducer Factor (dB)	Actual Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
2.4835	Vertical	34.8	-8.0	26.8	54.0	27.2	Complied

#### **Note(s):**

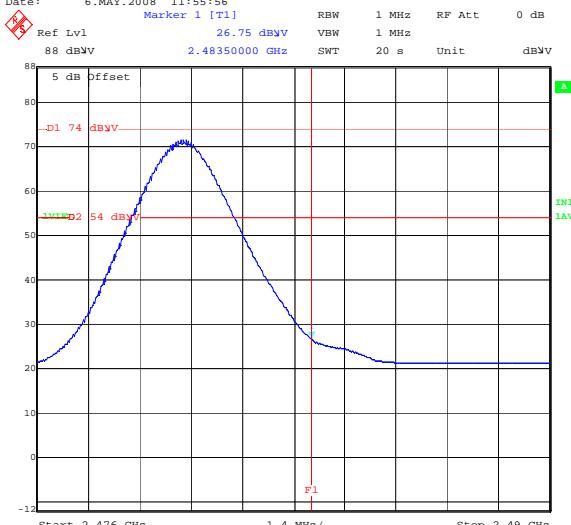
\* -20 dBc limit.

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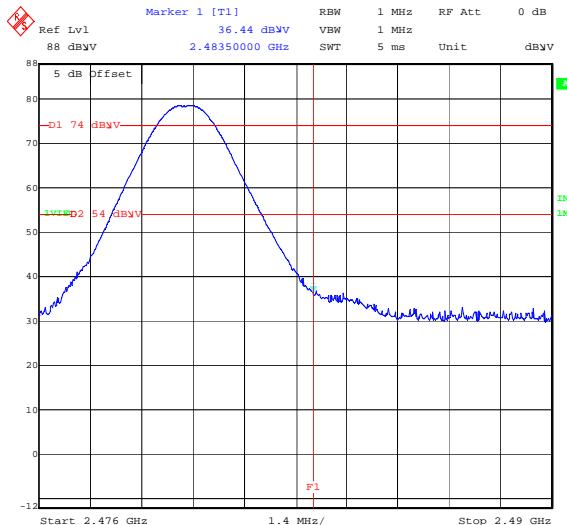
### Transmitter Band Edge Radiated Emissions (continued)



Title: 49779JD01 FCC 15.247  
Comment A: TX BAND EDGE, STATIC, BOTTOM CHANNEL, PEAK  
Date: 6.MAY.2008 11:55:56



Title: 49779JD01 FCC 15.247  
Comment A: TX BAND EDGE, STATIC, TOP CHANNEL, AVERAGE  
Date: 6.MAY.2008 11:21:36



Title: 49779JD01 FCC 15.247  
Comment A: TX BAND EDGE, STATIC, TOP CHANNEL, PEAK  
Date: 6.MAY.2008 11:16:39

**Test of:** MiLife Coaching Ltd  
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## **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”.

<b>Measurement Type</b>	<b>Range</b>	<b>Confidence Level (%)</b>	<b>Calculated Uncertainty</b>
AC Conducted Spurious Emissions	0.15 MHz to 30 MHz	95%	+/- 3.25 dB
Transmitter Maximum Peak Output Power	Not applicable	95%	+/- 2.94 dB
Conducted Emissions Antenna Port	30 MHz to 40 GHz	95%	+/- 2.62 dB
Transmitter Carrier Frequency Separation	Not applicable	95%	+/- 0.01 ppm
Transmitter Average Time of Occupancy	Not applicable	95%	+/- 10 %
20 dB Bandwidth	Not applicable	95%	+/- 0.12 %
Radiated Spurious Emissions	30 MHz to 1000 MHz	95%	+/- 5.26 dB
Radiated Spurious Emissions	1 GHz to 40 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.

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## Appendix 1. Test Equipment Used

RFI No.	Instrument	Manufacturer	Type No.	Serial No.	Date Last Calibrated	Cal. Interval (Months)
A031	Antenna	Eaton	91889-2	557	08 Jun 2006	36
A1037	Antenna	Chase EMC Ltd	CBL6112B	2413	13 Feb 2008	12
A1069	Single Phase LISN	Rohde & Schwarz	ESH3-Z5	837469/012	07 Mar 2008	12
A253	Antenna	Flann Microwave	12240-20	128	17 Nov 2006	36
A254	Antenna	Flann Microwave	14240-20	139	17 Nov 2006	36
A255	Antenna	Flann Microwave	16240-20	519	17 Nov 2006	36
A256	Antenna	Flann Microwave	18240-20	400	17 Nov 2006	36
A259	Antenna	Chase	CBL6111	1513	30 May 2008	12
A276	OATS Positioning Controller	Rohde & Schwarz	HCC	None	Calibration not required	-
A392	Attenuator	Suhner	6803.17.B	None	Calibration not required	-
A436	Antenna	Flann	20240-20	330	24 Apr 2006	36
C1065	Cable	Rosenberger	UFA210-1-7872	0985	Calibrated before use	-
C1191	SMA Cable	Rosenburg	FA210A1015M30 30	27141-06	Calibrated before use	-
C1192	Cable	Rosenburg	FA210A1015M30 30	27141-07	Calibrated before use	-
C151	Cable	Rosenberger	UFA210A-1-1181-70x70	None	Calibrated before use	-
C160	Cable	Rosenberger	UFA210A-1-1181-70x70	None	Calibrated before use	-
C348	Cable	Rosenberger	UFA210A-1-1181-70x70	2993	Calibrated before use	-
C363	Cable	Rosenberger	RG142	None	Calibrated before use	-
C461	Cable	Rosenberger	UFA210A-1-1182-704704	98H0305	Calibrated before use	-
C468	Cable	Rosenberger	UFA210A-1-3937-504504	98L0440	Calibrated before use	-
M023	Test Receiver	Rohde & Schwarz	ESVP	872 991/027	28 May 2008	12

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RFI No.	Instrument	Manufacturer	Type No.	Serial No.	Date Last Calibrated	Cal. Interval (Months)
M024	Spectrum Monitor	Rohde & Schwarz	EZM	873 952/006	Calibration not required	-
M1124	Spectrum Analyser	Rohde & Schwarz	ESIB26	100046K	19 Feb 2008	12
M1239	N4010A	Agilent	N4010A	GB45140361	Calibration not required	-
M1242	Spectrum Analyser	Rohde & Schwarz, Inc.	FSEM30	845986/022	29 Nov 2007	12
M1263	Test Receiver	Rohde & Schwarz	ESIB7	100265	06 Feb 2008	12
M1362	MN7464A2	Anritsu	MN7464A2	6200449361	Calibration not required	-
M173	Turntable Controller	R.H.Electrical Services	RH351	3510020	Calibration not required	-
S201	Open Area Test Site	RFI	1	None	25 May 2007	12
S202	Site 2	RFI	2	S202-15011990	28 Jan 2008	12
S207	Site 7	RFI	7	None	Calibration not required	-
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.

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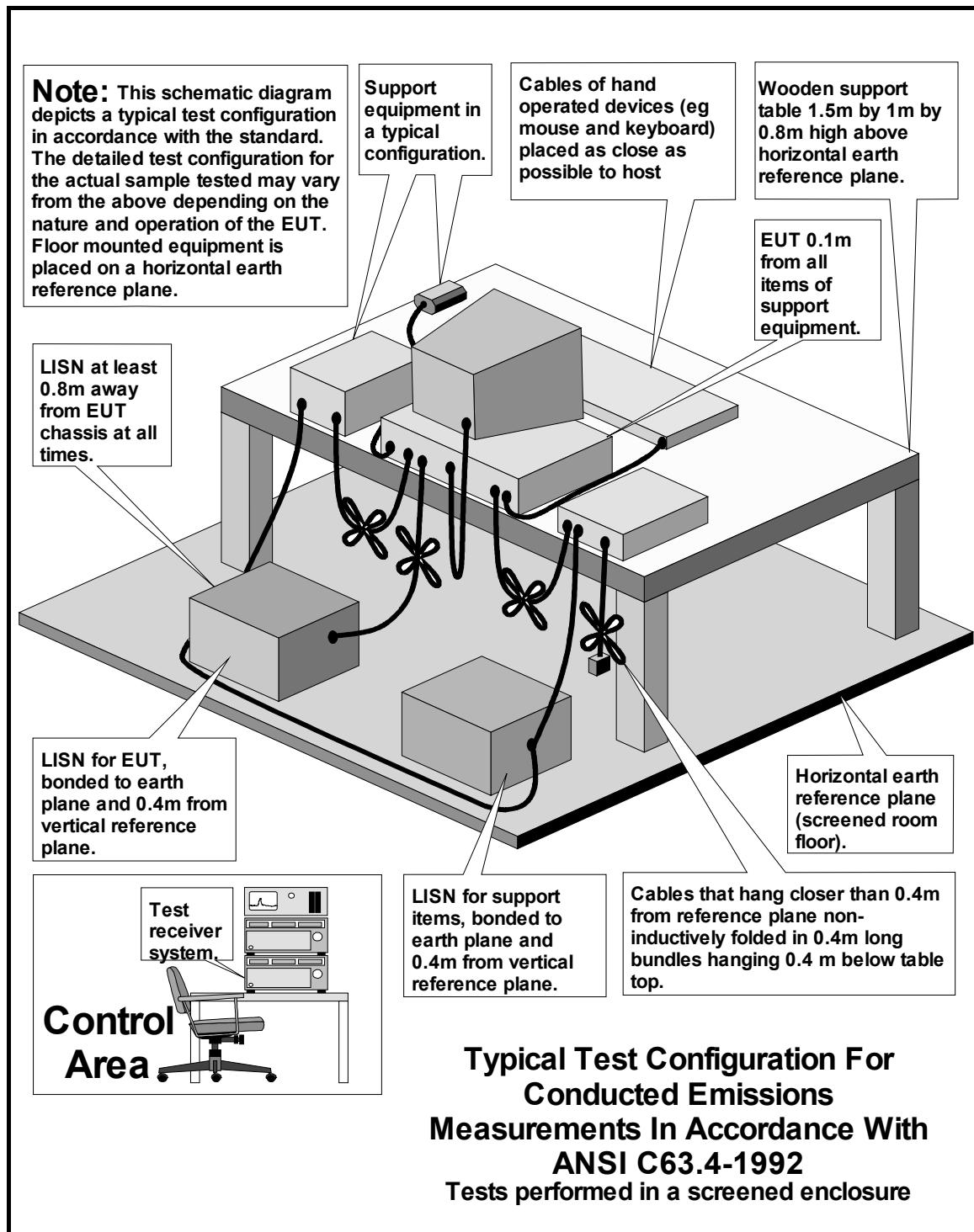
## **Appendix 2. Test Configuration Drawings**

This appendix contains the following drawings:

Drawing Reference Number	Title
DRG\49779JD01\EMICON	Test configuration for measurement of conducted emissions.
DRG\49779JD01\EMIRAD	Test configuration for measurement of radiated emissions.

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