




**TEST REPORT  
FROM  
RFI GLOBAL SERVICES LTD**

Test of: Powakaddy International Ltd.  
Robokaddy

To: FCC Part 15.249

**Test Report Serial No:**  
RFI/MPTE2/RP47810JD01A

**Supersedes Test Report Serial No:**  
RFI/MPTE1/RP47810JD01A

<b>This Test Report Is Issued Under The Authority Of Andrew Brown, Operations Manager:</b> 	
<b>Tested By: Steven Wong</b>  pp	<b>Checked By: Tony Henriques</b> 
<b>Report Copy No: PDF01</b>	
<b>Issue Date: 23 June 2006</b>	<b>Test Dates: 11 April 2006 to 18 May 2006</b>

This report is issued in Adobe Acrobat portable document format (PDF). It is only a valid copy of the report if it is being viewed in PDF format with the following security options not allowed: Changing the document, Selecting text and graphics, Adding or changing notes and form fields.

This report may be copied in full. The results in this report apply only to the sample(s) tested.

**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](mailto:info@rfi-global.com) Website: [www.rfi-global.com](http://www.rfi-global.com)

Registered in England and Wales. Company number: 2117901

**Test of:** Powakaddy International Ltd.  
**To:** Robokaddy  
FCC Part 15.249

---

This page has been left intentionally blank.

Test of: Powakaddy International Ltd.  
Robokaddy  
To: FCC Part 15.249

---

**Table of Contents**

1. Client Information .....4

2. Equipment Under Test (EUT) .....5

3. Test Specification, Methods and Procedures .....7

4. Deviations from the Test Specification .....8

5. Operation of the EUT During Testing.....9

6. Summary of Test Results .....10

7. Measurements, Examinations and Derived Results .....11

8. Measurement Methods .....22

9. Measurement Uncertainty .....25

Appendix 1. Test Equipment Used .....26

Appendix 2. Test Configuration Drawing.....27

Test of: Powakaddy International Ltd.  
Robokaddy  
To: FCC Part 15.249

---

## **1. Client Information**

<b>Company Name:</b>	Powakaddy International Limited
<b>Address:</b>	Sittingbourne International Park Sittingbourne Kent ME10 3JH
<b>Contact Name:</b>	Russell Malone

Test of: Powakaddy International Ltd.  
Robokaddy  
To: FCC Part 15.249

---

## **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)**

Brand Name:	Powakaddy Robokaddy
Model Name or Number:	Robokaddy (Transmitter)
Serial Number:	None Stated
Country of Manufacture:	UK
FCC ID Number:	UCK-1007T
Date of Receipt:	28 March 2006

Brand Name:	Powakaddy Robokaddy
Model Name or Number:	Robokaddy (Receiver)
Serial Number:	None Stated
Country of Manufacture:	UK
FCC ID Number:	UCK-1007R
Date of Receipt:	28 March 2006

### **2.2. Description of EUT**

The equipment under test is a remotely controlled electrically powered golf trolley. Functions enable the user to control the golf trolley forwards, backwards, left, right and stop.

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

During the course of testing the EUT was not modified.

Test of: Powakaddy International Ltd.  
Robokaddy  
To: FCC Part 15.249

---

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

Power Supply Requirement:	Internal battery supply of 9 V (TX) and 12 V (RX)		
Intended Operating Environment:	Golf Courses		
Equipment Category:	Transmitter and receiver		
Type of Unit:	Portable (Standalone battery powered device)		
Interface Ports:	Antenna Port on Receiver Unit (Trolley)		
Transmit Frequency Range:	Single Frequency 914.5 MHz		
Transmit Channels Tested:	Channel ID	Channel Number	Channel Frequency (MHz)
	Single Frequency	Not Applicable	914.5
Receive Frequency Range:	Single Frequency 914.5 MHz		
Receive Channels Tested:	Channel ID	Channel Number	Channel Frequency (MHz)
	Single Frequency	Not Applicable	914.5
Highest Unintentionally Generated Frequency:	914.5 MHz		
Highest Fundamental Frequency:	914.5 MHz		
Occupied Bandwidth:	33.254 kHz		

#### **2.5. Support Equipment**

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

Test of: Powakaddy International Ltd.  
Robokaddy  
To: FCC Part 15.249

---

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

#### **3.1. Test Specifications**

<b>Reference:</b>	FCC Part 15 Subpart C: 2004 (Sections 15.249).
<b>Title:</b>	Code of Federal Regulations, Part 15 (47CFR215) Radio Frequency Devices.
<b>Comments:</b>	A description of the test facility used for this test is on file with, and has been accepted by, the Federal Communications Commission as required by Section 2.948 of Federal Rules.

#### **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: Powakaddy International Ltd.  
Robokaddy  
To: FCC Part 15.249

---

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

None.



Test of: Powakaddy International Ltd.  
Robokaddy  
To: FCC Part 15.249

---

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

### **5.1. Operating Modes**

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

For transmit tests, the EUT transmitter was set to transmit continuously with modulation.

For receiver tests, the EUT receiver unit was set receive mode with the motor running at top speed.

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

The EUT was tested in the following configuration:

Both the transmitter and receiver were configured as standalone.

Test of: Powakaddy International Ltd.  
Robokaddy  
To: FCC Part 15.249

---

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

Range of Measurements	Specification Reference	Port Type	Compliance Status
Receiver Radiated Spurious Emissions	C.F.R. 47 FCC Part 15: 2004 Section 15.109	Enclosure	Complied
Transmitter Fundamental Fieldstrength	C.F.R. 47 FCC Part 15: 2004 Section 15.249(a)	Antenna	Complied
Transmitter 20 dB Bandwidth	C.F.R. 47 FCC Part 2: 2004 Section 2.1049	Antenna	Complied
Transmitter Radiated Spurious Emissions	C.F.R. 47 FCC Part 15: 2004 Section 15.249(a)(d)(e) & 15.209	Antenna	Complied
Transmitter Band Edge Radiated Emissions	C.F.R. 47 FCC Part 15: 2004 Section 15.249(d) & 15.209	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, England.

Test of: Powakaddy International Ltd.  
Robokaddy  
To: FCC Part 15.249

---

## **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: Powakaddy International Ltd.  
Robokaddy  
To: FCC Part 15.249

## 7.2. Receiver Radiated Spurious Emissions: Section 15.109

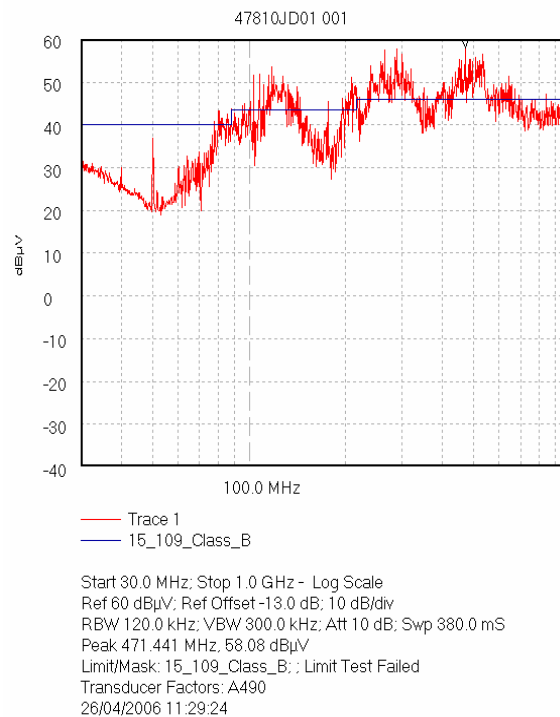
### 7.2.1. Electric Field Strength Measurements (Frequency Range: 30 to 1000 MHz)

7.2.1.1. The EUT was configured for radiated emissions testing as described in Section 8 of this report.

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

#### Results:

Frequency (MHz)	Antenna Polarity	Q-P Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
50.0	Vert.	36.8	40.0	3.2	Complied
80.0	Vert.	32.8	40.0	7.2	Complied
119.4	Vert.	30.3	40.0	9.7	Complied
210.1	Horiz.	37.1	40.0	2.9	Complied
282.7	Vert.	33.0	40.0	7.0	Complied
472.0	Vert.	30.0	43.5	13.5	Complied



*Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying tables. It should be noted that the emissions detected during the pre-scan were broadband in nature and emanated, it is believed, from the receiver's motor. The frequencies at which measurements were taken represented the highest level of each broadband emission peak.*

Test of: Powakaddy International Ltd.  
Robokaddy  
To: FCC Part 15.249

### **7.3. Receiver Radiated Spurious Emissions: Section 15.109 (Continued)**

#### **7.3.1. Electric Field Strength Measurements (Frequency Range: 1 to 5 GHz)**

##### **Results:**

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

Frequency (MHz)	Antenna Polarity	Detector Level (dB $\mu$ V)	Transducer Factor (dB)	Actual Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
1097.795	Vert.	68.1	-12.7	55.4	74.0	18.6	Complied
1224.005	Vert.	55.8	-12.4	43.4	74.0	30.6	Complied
1858.361	Vert.	48.5	-9.1	39.4	74.0	34.6	Complied
2028.493	Vert.	49.9	-12.3	27.6	74.0	36.4	Complied
2352.230	Vert.	46.5	-11.1	35.3	74.0	38.7	Complied
4880.446	Vert.	49.0	-6.2	42.8	74.0	31.2	Complied

##### **Highest Average Level:**

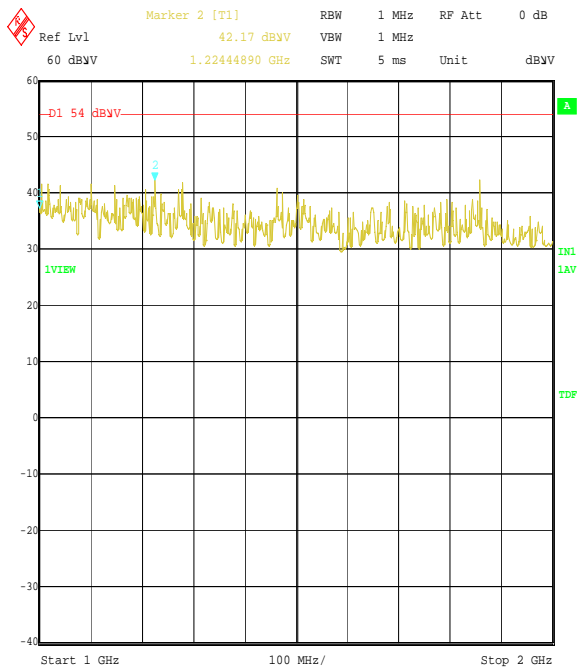
Frequency (MHz)	Antenna Polarity	Detector Level (dB $\mu$ V)	Transducer Factor (dB)	Actual Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
1097.795	Vert.	55.1	-12.7	42.4	54.0	11.6	Complied
1224.005	Vert.	30.7	-12.4	28.3	54.0	25.7	Complied
1858.361	Vert.	41.8	-9.1	32.7	54.0	21.3	Complied
2028.493	Vert.	31.1	-12.3	28.8	54.0	25.2	Complied
2352.230	Vert.	33.5	-11.2	22.3	54.0	31.7	Complied
4880.446	Vert.	27.5	-6.2	21.3	54.0	36.7	Complied

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

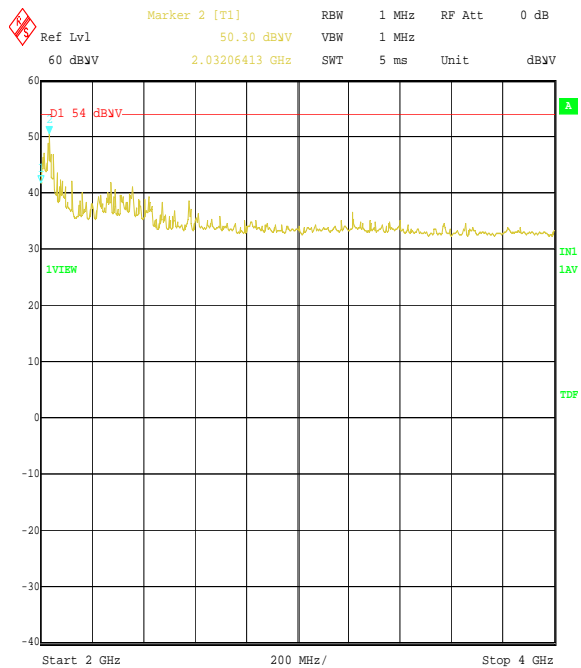
1. The transducer factor incorporates the antenna factor, cables losses, pre-amplifier gain and attenuations.

Test of: Powakaddy International Ltd.  
Robokaddy  
To: FCC Part 15.249

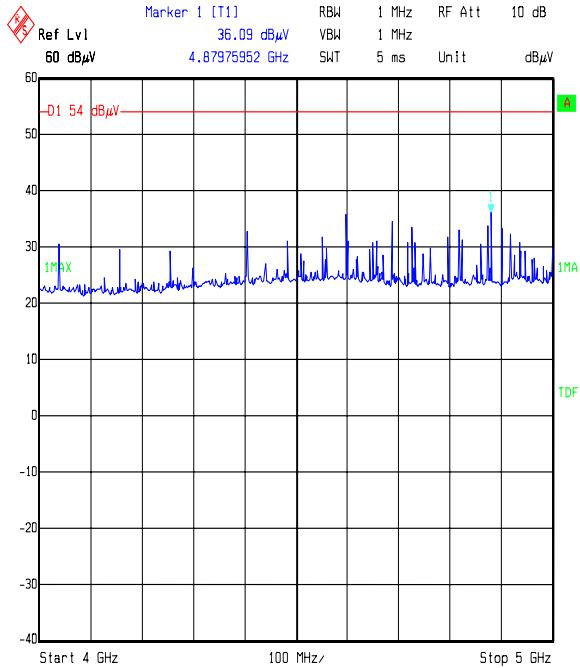
Receiver Radiated Spurious Emissions: Section 15.109 (Continued)



Title: STEWART GOLF FCC 15.249 ROBOKADDY  
Comment A: Robokaddy  
Date: 8.MAY.2006 17:03:12



Title: STEWART GOLF FCC 15.249 ROBOKADDY  
Comment A: Robokaddy  
Date: 8.MAY.2006 17:41:41



Title: Stewart Golf EUT: Robokaddy, FCC P15.249 Rad Emissions  
Comment A: 47810JD01 Receiver  
Date: 12.MAY 2006 16:25:46

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

Test of: Powakaddy International Ltd.  
Robokaddy  
To: FCC Part 15.249

---

**7.4. Transmitter Fundamental Fieldstrength Section 15.249(a)**

7.4.1. The EUT was configured for radiated emissions testing as described in Section 8 of this report.

7.4.2. Tests were performed to identify the maximum fieldstrength of the fundamental frequency.

**Results:****Battery Powered Devices**

Frequency (MHz)	Antenna Polarity	Q-P Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
914.5	Vert.	91.0	94.0	3.0	Complied

Test of: Powakaddy International Ltd.  
Robokaddy  
To: FCC Part 15.249

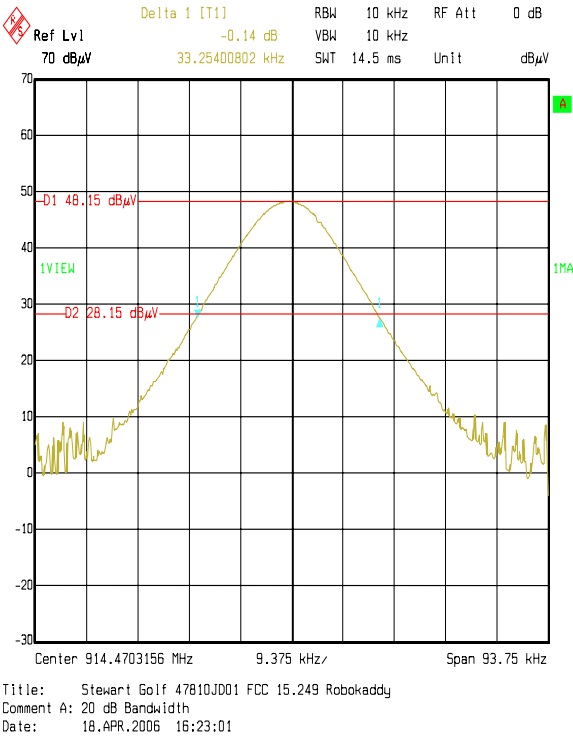
7.5. Transmitter 20 dB Bandwidth: Section 2.1049

7.5.1. The EUT was configured for 20 dB bandwidth measurements as described in Section 8 of this report.

7.5.2. Tests were performed to identify the 20 dB bandwidth.

Results:

Transmitter 20 dB Bandwidth (kHz)
33.254





Test of: Powakaddy International Ltd.  
Robokaddy  
To: FCC Part 15.249

## 7.6. Transmitter Radiated Emissions: Section 15.249(a)(d)(e) & Section 15.209

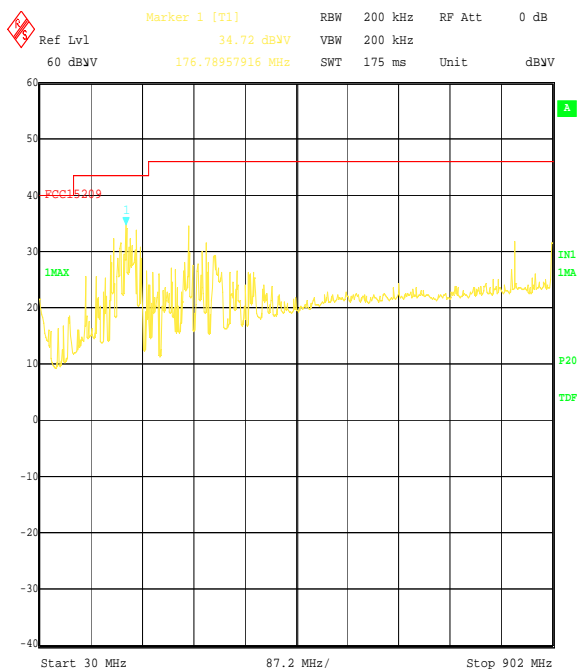
### 7.6.1. Electric Field Strength Measurements: 30 to 1000 MHz

7.6.1.1. The EUT was configured for radiated emissions testing as described in Section 8 of this report.

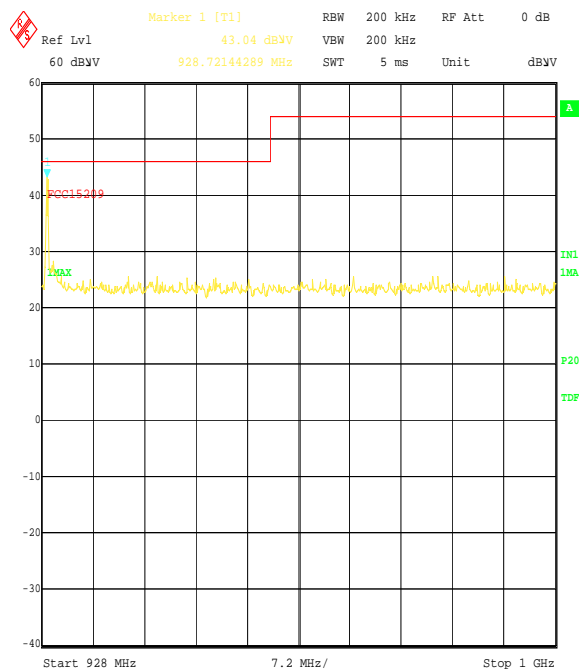
7.6.1.2. Tests were performed to identify the maximum radiated spurious emission levels.

#### Results:

Frequency (MHz)	Antenna Polarity	Q-P Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
177.146	Vert.	8.9	43.5	34.6	Complied
194.239	Vert.	9.0	43.5	34.5	Complied
283.532	Vert.	12.3	46.0	33.7	Complied
313.871	Vert.	13.2	46.0	32.8	Complied
836.637	Vert.	35.8	46.0	10.2	Complied
900.247	Vert.	31.5	46.0	14.5	Complied
928.827	Vert.	40.0	46.0	6.0	Complied



Title: Stewart Golf EUT: Robokaddy FCC P15.249. Radiated Emissions  
Comment A: 47810JD02 Tx Mode  
Date: 21.APR.2006 17:17:16



Title: Stewart Golf EUT: Robokaddy FCC P15.249. Radiated Emissions  
Comment A: 47810JD02 Tx Mode  
Date: 21.APR.2006 17:15:32

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

Test of: Powakaddy International Ltd.  
Robokaddy  
To: FCC Part 15.249

---

**Transmitter Radiated Emissions: Section 15.249(a)(d)(e) & Section 15.209 (Continued)****7.6.2. Electric Field Strength Measurements (Frequency Range: 1 to 10 GHz)****Results:****Highest Peak Level:**

Frequency (MHz)	Antenna Polarity	Detector Level (dB $\mu$ V)	Transducer Factor (dB)	Actual Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
1828.963	Vert.	55.6	-9.1	46.5	74.0	27.5	Complied
4572.270	Horiz.	47.8	-6.0	41.8	74.0	32.2	Complied
5486.706	Horiz.	42.1	-5.4	36.7	74.0	37.3	Complied

**Highest Average Level:**

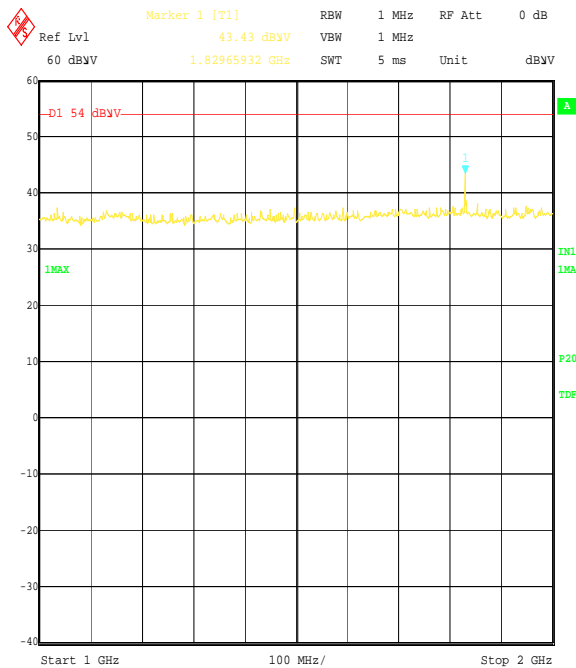
Frequency (MHz)	Antenna Polarity	Detector Level (dB $\mu$ V)	Transducer Factor (dB)	Actual Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
1828.963	Vert.	55.0	-9.1	45.9	54.0	8.1	Complied
4572.270	Horiz.	46.8	-6.0	40.8	54.0	13.2	Complied
5486.706	Horiz.	40.3	-5.4	34.9	54.0	19.1	Complied

**Note(s):**

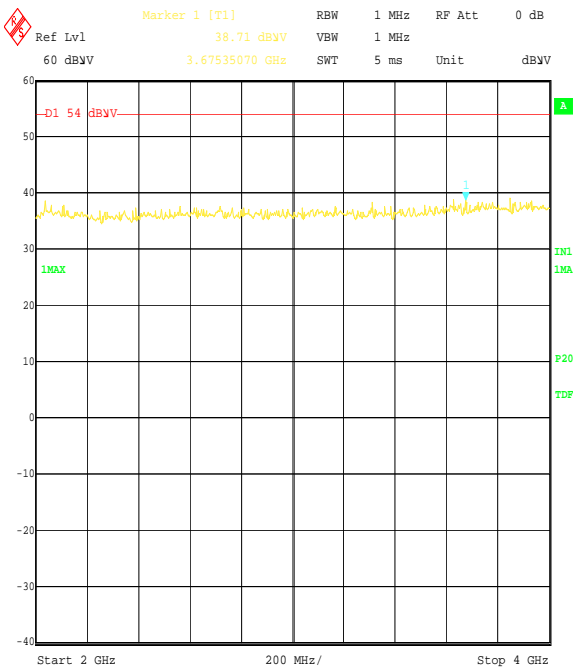
1. The transducer factor incorporates the antenna factor, cables losses, pre-amplifier gain and attenuations.

Test of: Powakaddy International Ltd.  
Robokaddy  
To: FCC Part 15.249

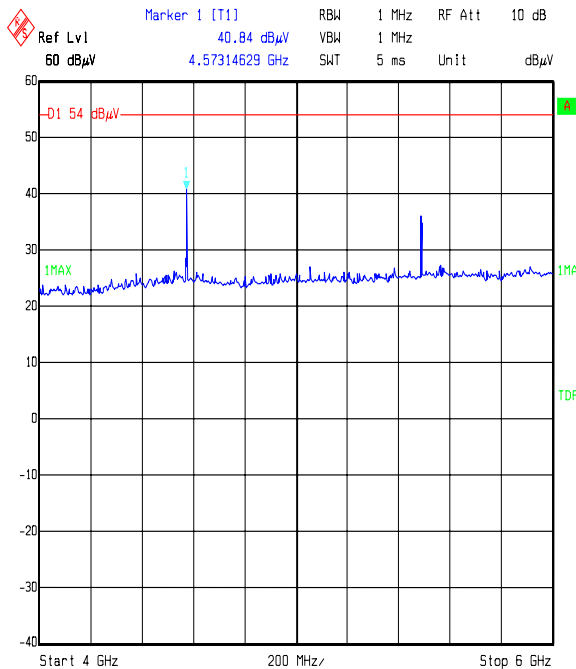
Transmitter Radiated Emissions: Section 15.249(a)(d)(e) & Section 15.209 (Continued)



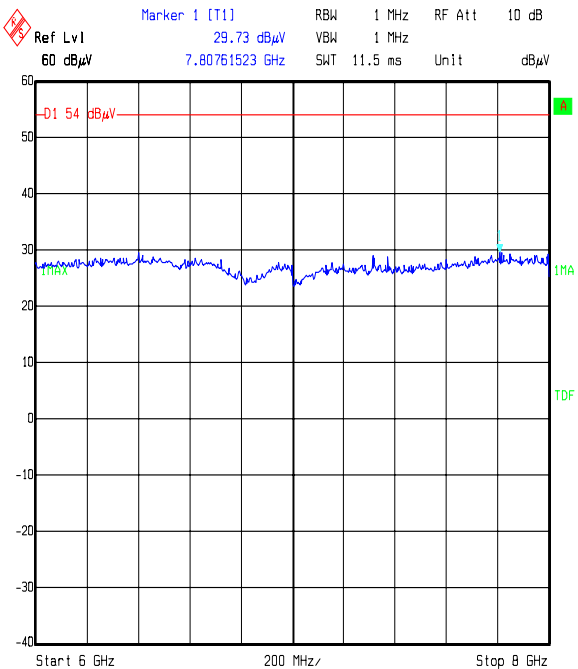
Title: Stewart Golf EUT: Robokaddy, FCC P15.249 Radiated Emissions  
Comment A: 47810JD01 Tx Mode  
Date: 21.APR.2006 18:16:55



Title: Stewart Golf EUT: Robokaddy, FCC P15.249 Radiated Emissions  
Comment A: 47810JD01 Tx Mode  
Date: 21.APR.2006 18:17:40

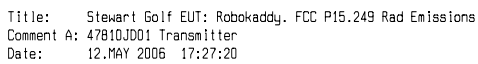


Title: Stewart Golf EUT: Robokaddy, FCC P15.249 Rad Emissions  
Comment A: 47810JD01 Transmitter  
Date: 12.MAY 2006 17:43:25



Title: Stewart Golf EUT: Robokaddy, FCC P15.249 Rad Emissions  
Comment A: 47810JD01 Transmitter  
Date: 12.MAY 2006 17:30:05

**Transmitter Radiated Emissions: Section 15.249(a)(d)(e) & Section 15.209 (Continued)**



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

Test of: Powakaddy International Ltd.  
Robokaddy  
To: FCC Part 15.249

---

### **7.7. Transmitter Radiated Emissions at Band Edges: Section 15.249(d) & 15.209**

7.7.1. The EUT was configured for transmitter radiated emissions testing described in Section 8 of this report.

7.7.2. Tests were performed to identify the maximum emissions level at the band edges of the frequency band that the EUT will operate over.

#### **Results:**

##### **Bottom Band Edge**

Frequency (MHz)	Q-P Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
902	31.1	46.0	14.9	Complied

##### **Top Band Edge**

Frequency (MHz)	Q-P Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
928	31.1	46.0	14.9	Complied

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

1. No emissions plots were taken for this test as the measurement was performed using a test receiver with Quasi Peak detector, which only indicates the measured values.

Test of: Powakaddy International Ltd.  
Robokaddy  
To: FCC Part 15.249

---

## **8. Measurement Methods**

### **8.1. Radiated Emissions**

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

Initial measurements covering the entire measurement band in the form of swept scans in a shielded enclosure were performed in order to identify frequencies on which the EUT was generating interference. This determined the frequencies on which the EUT should be re-measured in full on the open area test site. In order to minimise the time taken for the swept measurements, a Peak detector was used in conjunction with the appropriate detector IF measuring bandwidth (see table below). Repetitive scans were performed to allow for emissions with low repetition rates.

The initial scans were performed using an antenna height of 1.5 m and a measurement distance of 3 m. Following the initial scans, graphs were produced giving an overview of the emissions from the EUT plotted against the appropriate specification limit. Any emission within 20 dB of the limit were then measured on the open area test site, except in cases where the noise floor was within 20 dB of the limit, in these cases the highest point of the noise floor was measured.

In either case the measurement was made at the appropriate distance using a measuring receiver with a Quasi-Peak detector for measurements below 1000 MHz and an Average detector for measurements above 1000 MHz.

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.

All measurements on the open area test site were performed using broadband antennas.

On the open area test site, at each frequency where a signal was to be measured, the trace was maximised by rotating a turntable through 360°. The angle at which the maximum signal was observed was locked out. For frequencies below 1000 MHz the test antenna was varied in height between 1 m and 4 m in order to further maximise the target emission.

For frequencies above 1000 MHz where a horn antenna was used, height searching was performed to locate the optimal height of the horn with respect to the EUT. At this point the horn was locked off and the turntable was again rotated through 360° to maximise the target signal. It should be noted that the received signal from the EUT would diminish very quickly after it exits the beam width of the horn antenna, for this reason it may not be necessary to fully height search with the horns.

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.

Scans were performed to the upper frequency limits as stated in Section 15.33

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

Test of: Powakaddy International Ltd.  
Robokaddy  
To: FCC Part 15.249

---

**Radiated Emissions (Continued)**

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	Max Hold
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: Powakaddy International Ltd.  
Robokaddy  
To: FCC Part 15.249

---

## **8.2. Transmitter 20 dB Bandwidth**

The EUT and spectrum analyser was configured as for transmitter radiated emissions measurements.

To determine the occupied bandwidth, a resolution bandwidth of 10 kHz was used, which is greater than 1% of the 20 dB bandwidth. A video bandwidth of at least the same value was used. The analyser was set for a maximum hold scan to capture the profile of the signal. The peak level was then determined, and a reference line was drawn 20 dB below the peak level. The bandwidth was determined at the points where the 20 dB reference crossed the profile of the emission.



Test of: Powakaddy International Ltd.  
Robokaddy  
To: FCC Part 15.249

---

## **9. Measurement Uncertainty**

9.1. 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.

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

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

9.4. 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
Occupied Bandwidth	N/A	95%	+/- 0.12 %
Radiated Spurious Emissions	30 MHz to 1000 MHz	95%	+/- 5.26 dB
Radiated Spurious Emissions	1 GHz to 40 GHz	95%	+/- 1.78 dB

9.5. 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: Powakaddy International Ltd.  
Robokaddy  
To: FCC Part 15.249

### **Appendix 1. Test Equipment Used**

RFI No.	Instrument	Manufacturer	Type No.	Serial No.
A027	Horn Antenna	Eaton	9188-2	301
A028	Horn Antenna	Eaton	91888-2	304
A031	Horn Antenna	Eaton	91889-2	557
A059	Log Periodic Antenna	EMCO	3146	8902-2378
A1037	Bilog Antenna	Chase EMC	CBL6112B	2413
A1534	Preamplifier 1-26.5 GHz	Hewlett Packard	8449B OPT H02	3008A00405
A254	Horn Antenna	Flann Microwave	14240-20	139
A259	Bilog Antenna	Chase	CBL6111	1513
A392	Attenuator	Suhner	6803.17.B	None
A428	Horn Antenna	Flann	12240-20	134
A429	Horn Antenna	Flann	16240-20	561
M003	Spectrum Monitor	Rohde & Schwarz	EZM	883 580/008
M044	Test Receiver	Rohde & Schwarz	ESVP	891 845/026
M1242	Spectrum Analyser	Rohde & Schwarz	FSEM30	845986_022
M505/ M506	Test Receiver	Rohde & Schwarz	ESBI	825316/010 (DU) 827060/004 (RF)
S201	Site 1	RFI	1	
S202	Site 2	RFI	2	S202-15011990

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

Test of: Powakaddy International Ltd.  
Robokaddy  
To: FCC Part 15.249

---

**Appendix 2. Test Configuration Drawing**

This appendix contains the following drawings:

Drawing Reference Number	Title
DRG\47810JD01\EMIRAD	Test configuration for measurement of radiated emissions.

Test of: Powakaddy International Ltd.  
Robokaddy  
To: FCC Part 15.249

DRG47810JD01\EMIRAD

