



**HID GLOBAL CORPORATION TEST REPORT**  
**FOR THE**  
**1351 PROXPASS II**  
**FCC PART 15 SUBPART C SECTION 15.209**  
**COMPLIANCE**

**DATE OF ISSUE: NOVEMBER 29, 2006**

**PREPARED FOR:**

HID Global Corporation  
9292 Jeromino Road  
Irvine, CA 92618-1905

P.O. No.: 11008315  
W.O. No.: 85557

**PREPARED BY:**

Mary Ellen Clayton  
CKC Laboratories, Inc.  
5046 Sierra Pines Drive  
Mariposa, CA 95338

Date of test: November 17-20, 2006

**Report No.: FC06-074**

This report contains a total of 24 pages and may be reproduced in full only. Partial reproduction may only be done with the written consent of CKC Laboratories, Inc. The results in this report apply only to the items tested, as identified herein.

## TABLE OF CONTENTS

Administrative Information .....	3
FCC to Canada Standard Correlation Matrix.....	4
Conditions for Compliance .....	4
Approvals.....	4
FCC 15.31(e) Voltage Variation.....	5
FCC 15.31(m) Number Of Channels .....	5
FCC 15.33(a) Frequency Ranges Tested .....	5
FCC 15.35 Analyzer Bandwidth Settings.....	5
FCC 15.203 Antenna Requirements .....	5
FCC 15.205 Restricted Bands.....	5
EUT Operating Frequency.....	5
Temperature And Humidity During Testing.....	5
Equipment Under Test (EUT) Description.....	6
Equipment Under Test .....	6
Peripheral Devices .....	6
Report of Measurements .....	7
Table 1: FCC 15.209 Carrier Emission Levels.....	7
Table 2: FCC 15.209 Six Highest Radiated Emission Levels .....	8
Occupied Bandwidth.....	9
EUT Setup.....	10
Correction Factors.....	10
Table A: Sample Calculations .....	10
Test Instrumentation and Analyzer Settings.....	11
Spectrum Analyzer Detector Functions .....	11
Peak.....	11
Quasi-Peak .....	11
Average.....	11
EUT Testing.....	12
Radiated Emissions.....	12
Appendix A: Test Setup Photographs.....	13
Photograph Showing Radiated Emissions .....	14
Photograph Showing Radiated Emissions .....	15
Photograph Showing Radiated Emissions .....	16
Photograph Showing Radiated Emissions .....	17
Appendix B: Test Equipment List .....	18
Appendix C: Measurement Data Sheets .....	19

## ADMINISTRATIVE INFORMATION

**DATE OF TEST:** November 17-20, 2006

**DATE OF RECEIPT:** November 17, 2006

**MANUFACTURER:** HID Global Corporation  
9292 Jeromino Road  
Irvine, CA 92618-1905

**REPRESENTATIVE:** Frank de Vall

**TEST LOCATION:** CKC Laboratories, Inc.  
5046 Sierra Pines Drive  
Mariposa, CA 95338

**TEST METHOD:** ANSI C63.4 (2003)

**PURPOSE OF TEST:** To demonstrate the compliance of the 1351 ProxPass II with the requirements for FCC Part 15 Subpart C Section 15.209 devices.

**FCC TO CANADA STANDARD CORRELATION MATRIX**

Canadian Standard	Canadian Section	FCC Standard	FCC Section	Test Description
RSS GEN	7.1.4	47CFR	15.203	Antenna Connector Requirements
RSS GEN	7.2.1	47CFR	15.35(c)	Pulsed Operation
RSS GEN	7.2.2	47CFR	15.207	AC Mains Conducted Emissions Requirement
RSS 210	2.1	47CFR	15.215(c)	Frequency Stability Recommendation
RSS 210	2.2	47CFR	15.205	Restricted Bands of Operation
RSS 210	2.6	47CFR	15.209	General Radiated Emissions Requirement
	IC 3082A-1		784962	Site File No.

**CONDITIONS FOR COMPLIANCE**

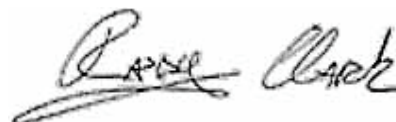
No modifications to the EUT were necessary to comply. Conducted emissions not required for this device because it is battery powered.

**APPROVALS**

Steve Behm, Director of Engineering Services

**QUALITY ASSURANCE:**

**TEST PERSONNEL:**

\_\_\_\_\_  
Joyce Walker, Quality Assurance Administrative Manager

\_\_\_\_\_  
Randy Clark, EMC Engineer



\_\_\_\_\_  
Mike Wilkinson, EMC Engineer/Lab Manager

**FCC 15.31(e) Voltage Variations**

Not applicable to this device because it is battery powered.

**FCC 15.31(m) Number Of Channels**

This device operates on a single channel.

**FCC 15.33(a) Frequency Ranges Tested**

15.209 Radiated Emissions: 9 kHz – 1000 MHz

<b>FCC SECTION 15.35: ANALYZER BANDWIDTH SETTINGS PER FREQUENCY RANGE</b>			
<b>TEST</b>	<b>BEGINNING FREQUENCY</b>	<b>ENDING FREQUENCY</b>	<b>BANDWIDTH SETTING</b>
RADIATED EMISSIONS	9 kHz	150 kHz	200 Hz
RADIATED EMISSIONS	150 kHz	30 MHz	9 kHz
RADIATED EMISSIONS	30 MHz	1000 MHz	120 kHz

**FCC 15.203 Antenna Requirements**

The antenna is an integral part of the EUT and is non-removable; therefore the EUT complies with Section 15.203 of the FCC rules.

**FCC 15.205 Restricted Bands**

The fundamental operating frequency lies outside the restricted bands and therefore complies with the requirements of Section 15.205 of the FCC rules. Any spurious emission coming from the EUT was investigated to determine if any portion lies inside the restricted band. If any portion of a spurious emissions signal was found to be within a restricted band, investigation was performed to ensure compliance with Section 15.209.

**EUT Operating Frequency**

The EUT was operating at 139.6 kHz.

**Temperature And Humidity During Testing**

The temperature during testing was within +15°C and + 35°C.

The relative humidity was between 20% and 75%.

## **EQUIPMENT UNDER TEST (EUT) DESCRIPTION**

The customer declares the EUT tested by CKC Laboratories was representative of a production unit.

## **EQUIPMENT UNDER TEST**

### **ProxPass II**

Manuf: HID Global Corporation  
Model: 1351  
Serial: 111706  
FCC ID: JQ61351

## **PERIPHERAL DEVICES**

The EUT was not tested with peripheral devices.

## REPORT OF MEASUREMENTS

The following tables report the worst case emissions levels recorded during the tests performed on the EUT. All readings taken were peak readings unless otherwise stated. The data sheets from which the emissions tables were compiled are contained in Appendix C.

Table 1: FCC 15.209 Carrier Emission Levels									
FREQUENCY MHz	METER READING dB $\mu$ V	CORRECTION FACTORS			CORRECTED READING dB $\mu$ V/m	SPEC LIMIT dB $\mu$ V/m	MARGIN dB	NOTES	
		Cable dB	Ant dB	Corr dB					
0.138	53.8	0.2	10.1		-80.0	-15.9	24.8	-40.7	V
0.138	53.2	0.2	10.1		-80.0	-16.5	24.8	-41.3	V
0.139	53.0	0.2	10.1		-80.0	-16.7	24.7	-41.4	V
0.139	52.7	0.2	10.1		-80.0	-17.0	24.7	-41.7	V
0.140	53.9	0.2	10.1		-80.0	-15.8	24.7	-40.5	V
0.140	53.6	0.2	10.1		-80.0	-16.1	24.7	-40.8	V

Test Method: ANSI C63.4 (2003)  
 Spec Limit: FCC Part 15 Subpart C Section 15.209  
 Test Distance: 3 Meters

NOTES: V = Vertical Polarization

COMMENTS: EUT is a hand held card transmitting at 139.6 kHz and is battery operated only. The EUT is transmitting continuously with duty cycle during the test. Fresh batteries were installed prior to test. Test distance correction factor applied in accordance with 15.31 of 40dB per decade to correct test data for comparison to the limit. Measurements were performed over a ground plane. Measurements include peak data for all modulation products within the 20dB bandwidth of the device. EUT Testing in three orthogonal positions, indicated by X, Y and Z notes. **No EUT Emissions detected within 40dB of the limit.** Frequency Range Investigated: Carrier Upper Sideband (centered on 139 kHz). Temperature: 21.1°C, Relative Humidity: 32%.

**Table 2: FCC 15.209 Six Highest Radiated Emission Levels**

FREQUENCY MHz	METER READING dB $\mu$ V	CORRECTION FACTORS			CORRECTED READING dB $\mu$ V/m	SPEC LIMIT dB $\mu$ V/m	MARGIN dB	NOTES	
		Cable dB	Ant dB	Corr dB					
0.110	44.9	0.2	10.3		-40.0	-24.6	26.8	-51.4	V
0.112	44.8	0.2	10.3		-40.0	-24.7	26.6	-51.3	V
0.112	44.3	0.2	10.3		-40.0	-25.2	26.6	-51.8	V
4.000	13.9	0.6	10.0		-40.0	-15.5	29.5	-45.0	H
8.000	8.5	0.8	9.8		-40.0	-20.9	29.5	-50.4	H
16.000	7.2	1.0	9.3		-40.0	-22.5	29.5	-52.0	H

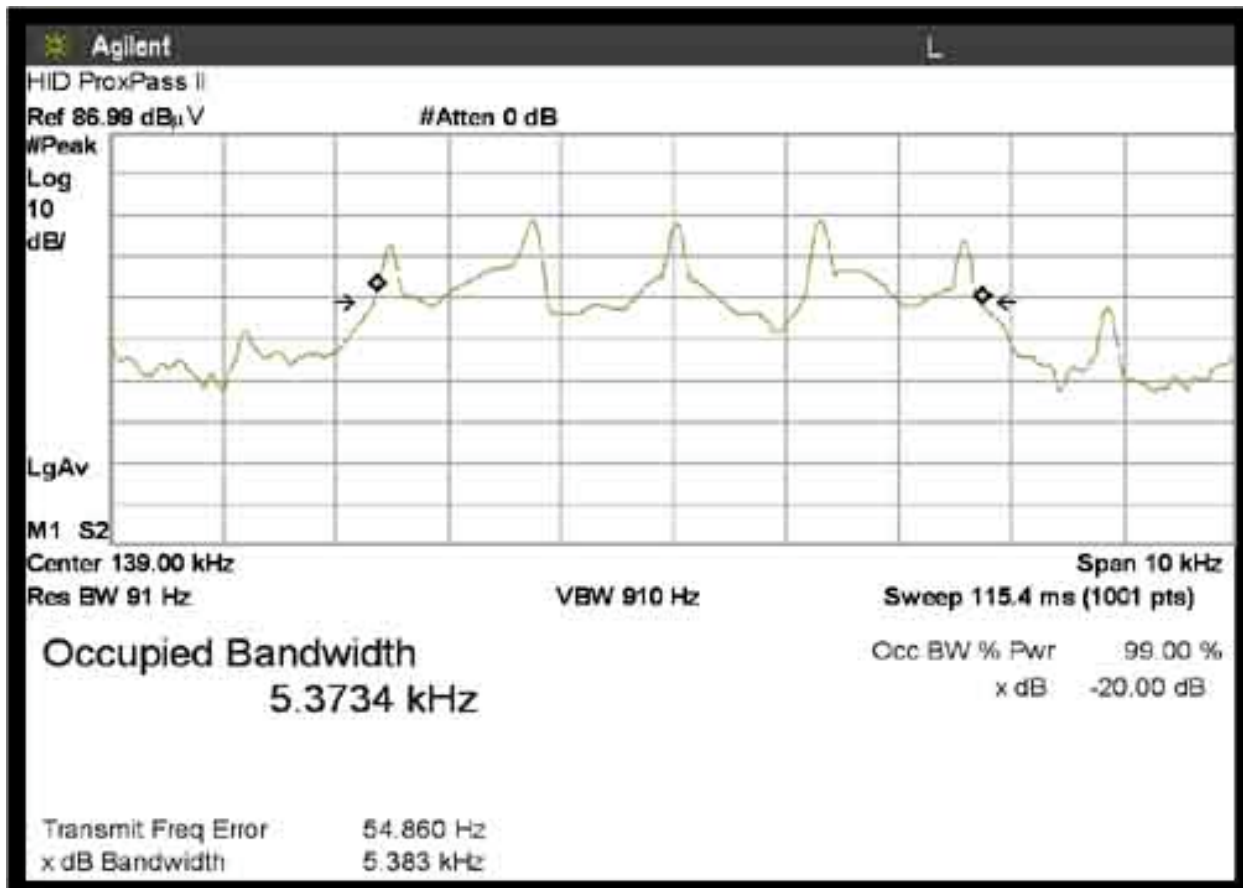
Test Method: ANSI C63.4 (2003)  
 Spec Limit: FCC Part 15 Subpart C Section 15.209  
 Test Distance: 3 Meters

NOTES: H = Horizontal Polarization  
 V = Vertical Polarization

COMMENTS: EUT is a hand held card transmitting at 139.6 kHz and is battery operated only. The EUT is transmitting continuously with duty cycle during the test. Fresh batteries were installed prior to test. Test distance correction factor applied in accordance with 15.31 of 40dB per decade to correct test data for comparison to the limit. Measurements were performed over a ground plane. Frequency Range Investigated: 9 kHz – 1000 MHz. **No EUT emissions detected in the frequency range of 30-1000 MHz.** Temperature: 21.1°C, Relative Humidity: 32%.



### OCCUPIED BANDWIDTH



**EUT SETUP**

The equipment under test (EUT) was set up in a manner that represented its normal use, as shown in the photographs in Appendix A. Any special conditions required for the EUT to operate normally are identified in the comments that accompany the emissions tables. The corrected data was then compared to the applicable emission limits to determine compliance.

The cables were routed consistent with the typical application by varying the configuration of the test sample. Interface cables were connected to the available I/O ports of the test unit. The effect of varying the position of the cables was investigated to find the configuration that produced maximum emissions. I/O cables were of the type and length specified in the individual requirements. The length of cable that produced maximum emissions was selected.

The radiated emissions data of the EUT was taken with the HP Spectrum Analyzer. Incorporating the applicable correction factors for distance, antenna, cable loss and amplifier gain, the data was reduced as shown in Table A.

Preliminary and final measurements were taken in order to ensure that all emissions from the EUT were found and maximized.

**CORRECTION FACTORS**

The basic spectrum analyzer reading was converted using correction factors as shown in the highest emissions readings in the tables. For radiated emissions in dBμV/m, the spectrum analyzer reading in dBμV was corrected by using the following formula in Table A. This reading was then compared to the applicable specification limit to determine compliance.

<b>TABLE A: SAMPLE CALCULATIONS</b>		
	Meter reading	(dBμV)
+	Antenna Factor	(dB)
+	Cable Loss	(dB)
-	Distance Correction	(dB)
-	Preamplifier Gain	(dB)
=	Corrected Reading	(dBμV/m)

## **TEST INSTRUMENTATION AND ANALYZER SETTINGS**

The test instrumentation and equipment listed in Appendix B were used to collect the radiated emissions data. For radiated measurements from 9 kHz to 30 MHz, the magnetic loop antenna was used. For frequencies from 30 to 1000 MHz, the biconilog antenna was used. The horn antenna was used for frequencies above 1000 MHz.

The HP spectrum analyzer was used for all measurements. Table B shows the analyzer bandwidth settings that were used in designated frequency bands. During radiated testing, the measurements were made with 0 dB of attenuation, a reference level of 97 dB $\mu$ V, and a vertical scale of 10 dB per division.

## **SPECTRUM ANALYZER DETECTOR FUNCTIONS**

The notes that accompany the measurements contained in the Tables indicate the type of detector function used to obtain the given readings. Unless otherwise noted, all readings were made in the "Peak" mode. Whenever a "Quasi-Peak" or "Average" reading is listed as one of the six highest readings, this is indicated as a "Q" or an "A" in the appropriate table. The following paragraphs describe in more detail the detector functions and when they were used to obtain the emissions data.

### **Peak**

In this mode, the Spectrum Analyzer or test engineer recorded all emissions at their peak value as the frequency band selected was scanned. By combining this function with another feature of the analyzer called "peak hold," the analyzer had the ability to measure transients or low duty cycle transient emission peak levels. In this mode the analyzer made a slow scan across the frequency band selected and measured the peak emission value found at each frequency across the band.

### **Quasi-Peak**

When the true peak values exceeded or were within 2 dB of the specification limit, quasi-peak measurements were taken using the HP Quasi-Peak Adapter for the HP Spectrum Analyzer. The detailed procedure for making quasi peak measurements contained in the HP Quasi-Peak Adapter manual were followed.

### **Average**

For certain frequencies, average measurements may be made using the spectrum analyzer. To make these measurements, the test engineer reduces the video bandwidth on the analyzer until the modulation of the signal is filtered out. At this point the analyzer is set into the linear mode and the scan time is reduced.

## **EUT TESTING**

### **Radiated Emissions**

The EUT was mounted on a nonconductive, rotating table 80 cm above the conductive grid. The nonconductive table dimensions were 1 meter by 1.5 meters.

During the preliminary radiated scan, the EUT was powered up and operating in its defined FCC test mode. For radiated measurements from 9 kHz to 30 MHz, the magnetic loop antenna was used. The frequency range of 30 MHz to 1000 MHz was scanned with the biconilog antenna located about 1.5 meter above the ground plane in the vertical polarity. During this scan, the turntable was rotated and all peaks at or near the limit were recorded. A scan of the FM band from 88 to 110 MHz was then made using a reduced resolution bandwidth and frequency span. The biconilog antenna was changed to the horizontal polarity and the above steps were repeated. Care was taken to ensure that no frequencies were missed within the FM and TV bands. An analysis was performed to determine if the signals that were at or near the limit were caused by an ambient transmission. If unable to determine by analysis, the equipment was powered down to make the final determination if the EUT was the source of the emission.

A thorough scan of all frequencies was made manually using a small frequency span, rotating the turntable and raising and lowering the antenna from one to four meters as needed. The test engineer maximized the readings with respect to the table rotation, antenna height, and configuration of EUT. Maximizing of the EUT was achieved by monitoring the spectrum analyzer on a closed circuit television monitor.

**APPENDIX A**

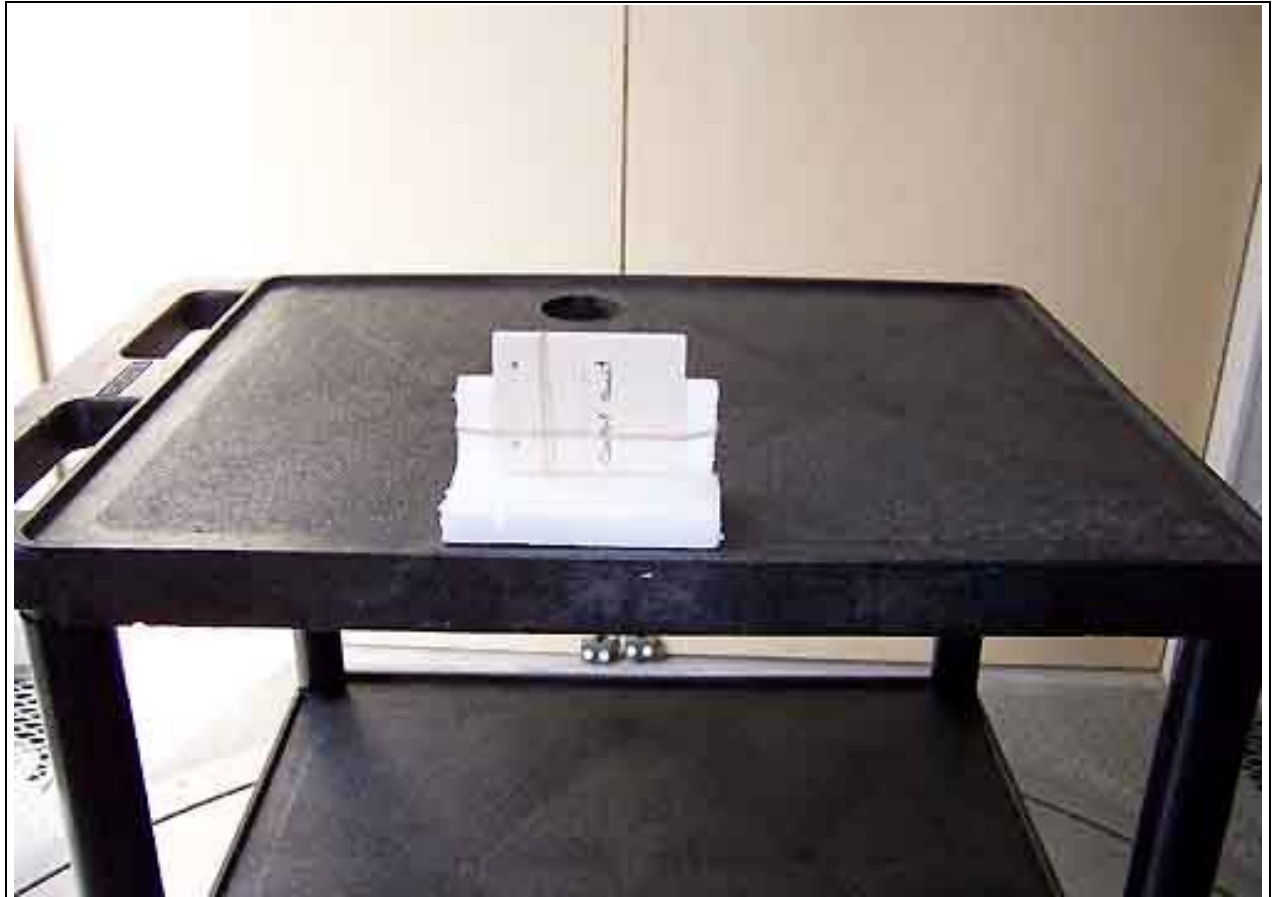
**TEST SETUP PHOTOGRAPHS**

**PHOTOGRAPH SHOWING RADIATED EMISSIONS**



Radiated Emissions – Test Setup

**PHOTOGRAPH SHOWING RADIATED EMISSIONS**



Radiated Emissions - X

**PHOTOGRAPH SHOWING RADIATED EMISSIONS**



Radiated Emissions - Y



**PHOTOGRAPH SHOWING RADIATED EMISSIONS**



Radiated Emissions - Z

**APPENDIX B**

**TEST EQUIPMENT LIST**

*FCC 15.209 9 kHz – 30 MHz and Carrier*

Function	S/N	Calibration Date	Cal Due Date	Asset #
Agilent E4446A SA	US44300407	01/12/2005	01/12/2007	02660
EMCO Loop Antenna	1074	05/13/2005	05/13/2007	00226

*FCC 15.209 30-1000 MHz*

Function	S/N	Calibration Date	Cal Due Date	Asset #
Agilent E4446A SA	US44300407	01/12/2005	01/12/2007	02660
Chase CBL6111C Bilog	2456	06/07/2005	06/07/2007	01991
HP 8447D Preamp	1937A02604	03/11/2005	03/11/2007	00099

**APPENDIX C:**  
**MEASUREMENT DATA SHEETS**

Test Location: CKC Laboratories •4933 Sierra Pines Dr. • Mariposa, CA 95338 • 1-800-500-4EMC (4362)  
 Customer: **HID Global**  
 Specification: **FCC 15.209**  
 Work Order #: **85557** Date: 11/20/2006  
 Test Type: **Maximized Emissions** Time: 14:13:14  
 Equipment: **ProxPass II** Sequence#: 3  
 Manufacturer: HID Global Tested By: Randal Clark  
 Model: 1351  
 S/N: 111706

**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
ProxPass II*	HID Global	1351	111706

**Support Devices:**

Function	Manufacturer	Model #	S/N
----------	--------------	---------	-----

**Test Conditions / Notes:**

EUT is a hand held card transmitting at 139.6 kHz and is battery operated only. The EUT is transmitting continuously with duty cycle during the test. Fresh batteries were installed prior to test. Test distance correction factor applied in accordance with 15.31 of 40dB per decade to correct test data for comparison to the limit. Measurements were performed over a ground plane. Measurements include peak data for all modulation products within the 20dB bandwidth of the device. EUT Testing in three orthogonal positions, indicated by X, Y and Z notes. No EUT Emissions detected within 40dB of the limit. Frequency Range Investigated: Carrier Upper Sideband (centered on 139 kHz). Temperature: 21.1°C, Relative Humidity: 32%.

**Transducer Legend:**

T1=Cable - Site D 10m 9k-1G	T2=Mag Loop - AN 00226 - 9kHz-30M
T3=15.31 3m 40dB/Dec Correction	

**Measurement Data:** Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	140.316k	53.9	+0.2	+10.1	-80.0		+0.0	-15.8	24.7	-40.5	Verti 100
									X		
2	137.754k	53.8	+0.2	+10.1	-80.0		+0.0	-15.9	24.8	-40.7	Verti 100
									X		
3	140.309k	53.6	+0.2	+10.1	-80.0		+0.0	-16.1	24.7	-40.8	Verti 100
									Z		
4	137.740k	53.2	+0.2	+10.1	-80.0		+0.0	-16.5	24.8	-41.3	Verti 100
									Z		
5	139.042k	53.0	+0.2	+10.1	-80.0		+0.0	-16.7	24.7	-41.4	Verti 100
									X		
6	139.028k	52.7	+0.2	+10.1	-80.0		+0.0	-17.0	24.7	-41.7	Verti 100
									Z		
7	140.295k	49.3	+0.2	+10.1	-80.0		+0.0	-20.4	24.7	-45.1	Horiz 100
									X		
8	137.747k	49.2	+0.2	+10.1	-80.0		+0.0	-20.5	24.8	-45.3	Horiz 100
									X		
9	141.590k	48.7	+0.2	+10.1	-80.0		+0.0	-21.0	24.6	-45.6	Verti 100
									X		
10	141.590k	48.5	+0.2	+10.1	-80.0		+0.0	-21.2	24.6	-45.8	Verti 100
									Z		

11	140.309k	48.6	+0.2	+10.1	-80.0	+0.0	-21.1	24.7	-45.8	Horiz 100
								Z		
12	137.754k	48.5	+0.2	+10.1	-80.0	+0.0	-21.2	24.8	-46.0	Horiz 100
								Z		
13	139.042k	48.3	+0.2	+10.1	-80.0	+0.0	-21.4	24.7	-46.1	Horiz 100
								X		
14	139.035k	47.8	+0.2	+10.1	-80.0	+0.0	-21.9	24.7	-46.6	Horiz 100
								Z		
15	136.487k	47.9	+0.2	+10.1	-80.0	+0.0	-21.8	24.9	-46.7	Verti 100
								X		
16	136.494k	47.4	+0.2	+10.1	-80.0	+0.0	-22.3	24.9	-47.2	Verti 100
								Z		
17	141.583k	44.8	+0.2	+10.1	-80.0	+0.0	-24.9	24.6	-49.5	Horiz 100
								X		
18	141.583k	44.2	+0.2	+10.1	-80.0	+0.0	-25.5	24.6	-50.1	Horiz 100
								Z		
19	136.466k	43.8	+0.2	+10.1	-80.0	+0.0	-25.9	24.9	-50.8	Horiz 100
								X		
20	136.480k	43.4	+0.2	+10.1	-80.0	+0.0	-26.3	24.9	-51.2	Horiz 100
								Z		
21	137.740k	40.7	+0.2	+10.1	-80.0	+0.0	-29.0	24.8	-53.8	Verti 100
								Y		
22	140.309k	40.3	+0.2	+10.1	-80.0	+0.0	-29.4	24.7	-54.1	Verti 100
								Y		
23	139.028k	40.0	+0.2	+10.1	-80.0	+0.0	-29.7	24.7	-54.4	Verti 100
								Y		
24	141.597k	36.7	+0.2	+10.1	-80.0	+0.0	-33.0	24.6	-57.6	Verti 100
								Y		
25	136.473k	36.3	+0.2	+10.1	-80.0	+0.0	-33.4	24.9	-58.3	Verti 100
								Y		
26	139.000k	31.6	+0.2	+10.1	-80.0	+0.0	-38.1	24.7	-62.8	Horiz 100
								Y - No EUT signals detected in this configuration.		

Test Location: CKC Laboratories •4933 Sierra Pines Dr. • Mariposa, CA 95338 • 1-800-500-4EMC (4362)

Customer: **HID Global**

Specification: **FCC 15.209**

Work Order #: **85557**

Date: 11/20/2006

Test Type: **Maximized Emissions**

Time: 12:30:09

Equipment: **ProxPass II**

Sequence#: 2

Manufacturer: HID Global

Tested By: Randal Clark

Model: 1351

S/N: 111706

**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
ProxPass II*	HID Global	1351	111706

**Support Devices:**

Function	Manufacturer	Model #	S/N
----------	--------------	---------	-----

**Test Conditions / Notes:**

EUT is a hand held card transmitting at 139.6 kHz and is battery operated only. The EUT is transmitting continuously with duty cycle during the test. Fresh batteries were installed prior to test. Test distance correction factor applied in accordance with 15.31 of 40dB per decade to correct test data for comparison to the limit. Measurements were performed over a ground plane. Frequency Range Investigated: 9 kHz – 30 MHz Temperature: 21.1°C, Relative Humidity: 32%.

**Transducer Legend:**

T1=Cable - Site D 10m 9k-1G	T2=Mag Loop - AN 00226 - 9kHz-30M
T3=15.31 3m 40dB/Dec Correction	

**Measurement Data:** Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	Dist Table dB	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	4.000M	13.9	+0.6	+10.0	-40.0	+0.0	-15.5	29.5	-45.0	Horiz
2	8.000M	8.5	+0.8	+9.8	-40.0	+0.0	-20.9	29.5	-50.4	Horiz
3	112.225k	44.8	+0.2	+10.3	-80.0	+0.0	-24.7	26.6	-51.3	Verti
								X		
4	109.695k	44.9	+0.2	+10.3	-80.0	+0.0	-24.6	26.8	-51.4	Verti
								Z		
5	112.245k	44.3	+0.2	+10.3	-80.0	+0.0	-25.2	26.6	-51.8	Verti
								Z		
6	16.000M	7.2	+1.0	+9.3	-40.0	+0.0	-22.5	29.5	-52.0	Horiz
7	12.000M	6.7	+1.0	+9.7	-40.0	+0.0	-22.6	29.5	-52.1	Horiz
8	109.685k	43.8	+0.2	+10.3	-80.0	+0.0	-25.7	26.8	-52.5	Verti
								X		

9	110.970k	43.7	+0.2	+10.3	-80.0	+0.0	-25.8	Z	26.7	-52.5	Verti
10	110.965k	43.4	+0.2	+10.3	-80.0	+0.0	-26.1	X	26.7	-52.8	Verti
11	113.520k	40.4	+0.2	+10.3	-80.0	+0.0	-29.1	X	26.5	-55.6	Verti
12	125.000k	29.7	+0.2	+10.2	-80.0	+0.0	-39.9	Z	25.7	-65.6	Verti

Test Location: CKC Laboratories •4933 Sierra Pines Dr. • Mariposa, CA 95338 • 1-800-500-4EMC (4362)

Customer: **HID Global**

Specification: **FCC 15.209**

Work Order #: **85557**

Date: 11/20/2006

Test Type: **Maximized Emissions**

Time: 15:44:43

Equipment: **ProxPass II**

Sequence#: 8

Manufacturer: HID Global

Tested By: Randal Clark

Model: 1351

S/N: 111706

**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
ProxPass II*	HID Global	1351	111706

**Support Devices:**

Function	Manufacturer	Model #	S/N
----------	--------------	---------	-----

**Test Conditions / Notes:**

EUT is a hand held card transmitting at 139.6 kHz and is battery operated only. The EUT is transmitting continuously with duty cycle during the test. Fresh batteries were installed prior to test. **No EUT emissions detected in this frequency range.** Frequency Range Investigated: 30-1000 MHz. Temperature: 21.1°C, Relative Humidity: 32%.

**Transducer Legend:**

--

**Measurement Data:** Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dB $\mu$ V	dB	dB	dB	dB	Dist Table	Corr dB $\mu$ V/m	Spec dB $\mu$ V/m	Margin dB	Polar Ant
---	-------------	--------------------	----	----	----	----	---------------	----------------------	----------------------	--------------	--------------