



**FCC CFR47 PART 15 SUBPART C
CERTIFICATION
TEST REPORT**

FOR

REMOTE CONTROL STARTER SYSTEM

MODEL NUMBER: RS-07AU

FCC ID: TIC-RS07AU

REPORT NUMBER: 06J10161-1

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Prepared for
HONDA ACCESS CORP.
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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: HONDA ACCESS CORP.
4630 SHIMOTAKANEZAWA, HAGA-MACHI, HAGA-GUN,
TOCHIGI, 321-3393, JAPAN

EUT DESCRIPTION: REMOTE CONTROL STARTER SYSTEM

MODEL: RS-07AU

SERIAL NUMBER: 1576

DATE TESTED: MARCH 16, 2006

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 15 SUBPART C	NO NON-COMPLIANCE NOTED

Compliance Certification Services, Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by Compliance Certification Services and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Compliance Certification Services will constitute fraud and shall nullify the document. No part of this report may be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any government agency.

Approved & Released For CCS By:



THU CHAN
EMC SUPERVISOR
COMPLIANCE CERTIFICATION SERVICES

Tested By:



CHIN PANG
EMC ENGINEER
COMPLIANCE CERTIFICATION SERVICES

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2003, FCC CFR 47 Part 2 and FCC CFR 47 Part 15.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 561F Monterey Road, Morgan Hill, California, USA. The sites are constructed in conformance with the requirements of ANSI C63.4, ANSI C63.7 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

CCS is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://www.ccsemc.com>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Radiated Emission, 30 to 200 MHz	+/- 3.3 dB
Radiated Emission, 200 to 1000 MHz	+4.5 / -2.9 dB
Radiated Emission, 1000 to 2000 MHz	+4.5 / -2.9 dB
Power Line Conducted Emission	+/- 2.9 dB

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

Equipment Type	429.175MHz Transmitter
Fundamental Frequency	429.175 MHz
Power Source	12 VDC Battery
Transmitting Time	Periodic < 5 seconds
Associated Transmitter	RS-07AC
Manufacturer	Honda Access Corp.

5.2. SOFTWARE AND FIRMWARE

Modified the ON switch circuitry to activate either continuous transmitting or receiving.

5.3. WORST-CASE CONFIGURATION AND MODE

Three orthogonal orientations were investigated, X, Y and Z; the highest measured output power was in the Y orientation.

5.4. DESCRIPTION OF TEST SETUP

The EUT is a stand-alone unit and powered by 12 VDC vehicle battery, for the purpose of the testing a 12 VDC power supply was used to power the EUT. An associated transmitter (car key) was used to trigger the transmitter of the EUT.

5.5. DESCRIPTION OF AVAILABLE ANTENNAS

The device uses an external Whip antenna, with a maximum gain of -3 dBi.

5.6. DETAILS OF TESTED SYSTEM

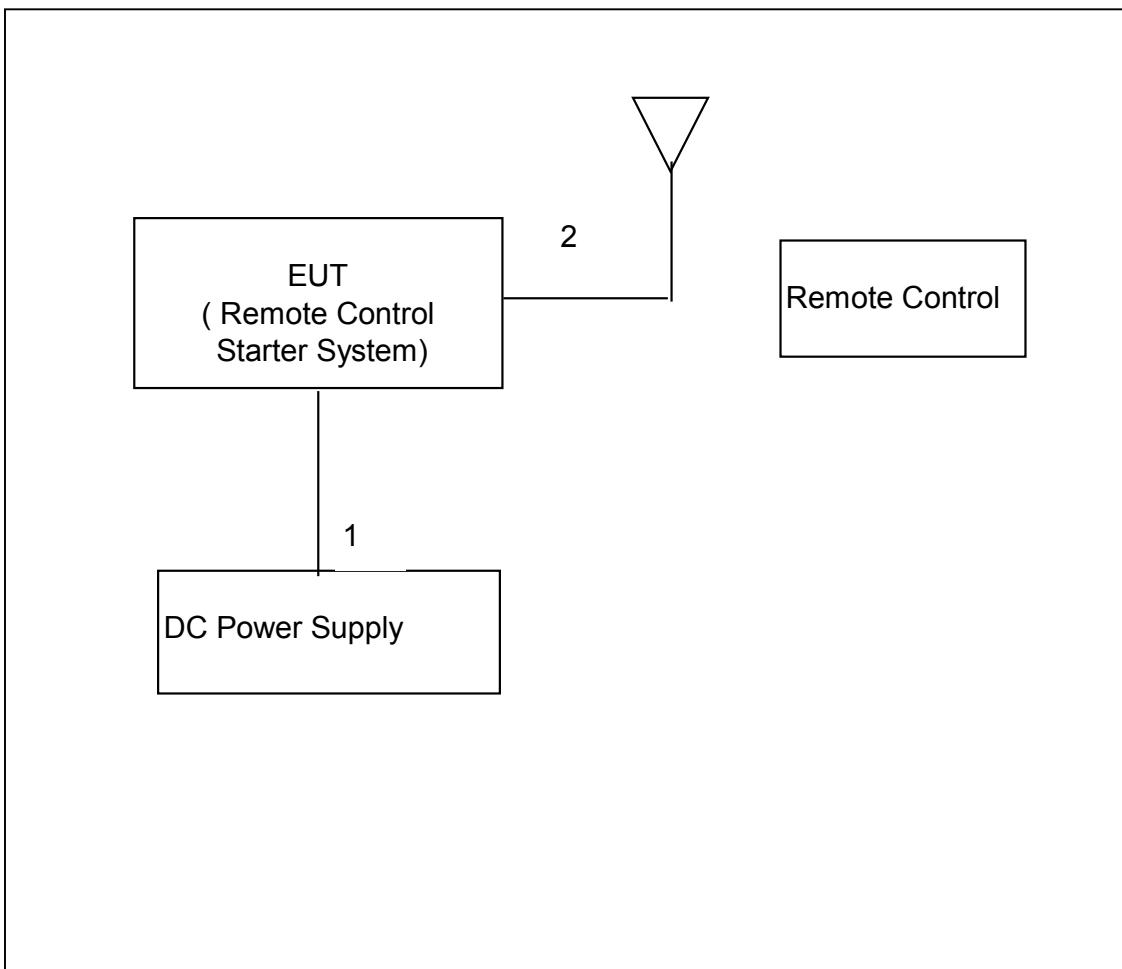
SUPPORT EQUIPMENT & PERIPHERALS

PERIPHERAL SUPPORT EQUIPMENT LIST			
Description	Manufacturer	Model	Serial Number
Remote Control Starter Key	Honda Access	RS-07AC	AE0200000
DC power Supply	HP	ES610A	KR24104150

I/O CABLES

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	DC	1	Hard-wired	Copper wires	2m	N/A
2	Antenna	1	Pin	Copper wires	3.3m	N/A

TEST SETUP DIAGRAM



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	Cal Due
SA Display Section 2	HP	85662A	2816A16696	8/24/2006
SA RF Section, 1.5 GHz	HP	85680B	2814A04227	5/24/2006
Antenna, Log Periodic 200 ~ 1000 MHz	EMCO	3146	9107-3163	9/3/2006
Preamplifier, 1300 MHz	HP	8447D	2944A06550	9/1/2006
Quasi-Peak Adaptor	HP	85650A	3145A01654	9/16/2006
Antenna, Bilog 30 MHz ~ 2 Ghz	Sunol Sciences	JB1	A121003	9/3/2006
EMI Receiver, 9 kHz ~ 2.9 GHz	HP	8542E	3942A00286	2/4/2007
RF Filter Section	HP	85420E	3705A00256	2/4/2007

7. LIMITS AND RESULTS

7.1.1. 20dB BANDWIDTH

LIMIT

§15.231 (c) The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

99% Bandwidth is just for reporting purpose.

TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer.

20dB Bandwidth: The RBW is set to 100 KHz. The VBW is set to 100 KHz. The sweep time is coupled. Bandwidth is determined at the points 20 dB down from the modulated carrier.

99% Bandwidth: The RBW is set to 1% to 3% of the 99 % bandwidth. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

RESULTS

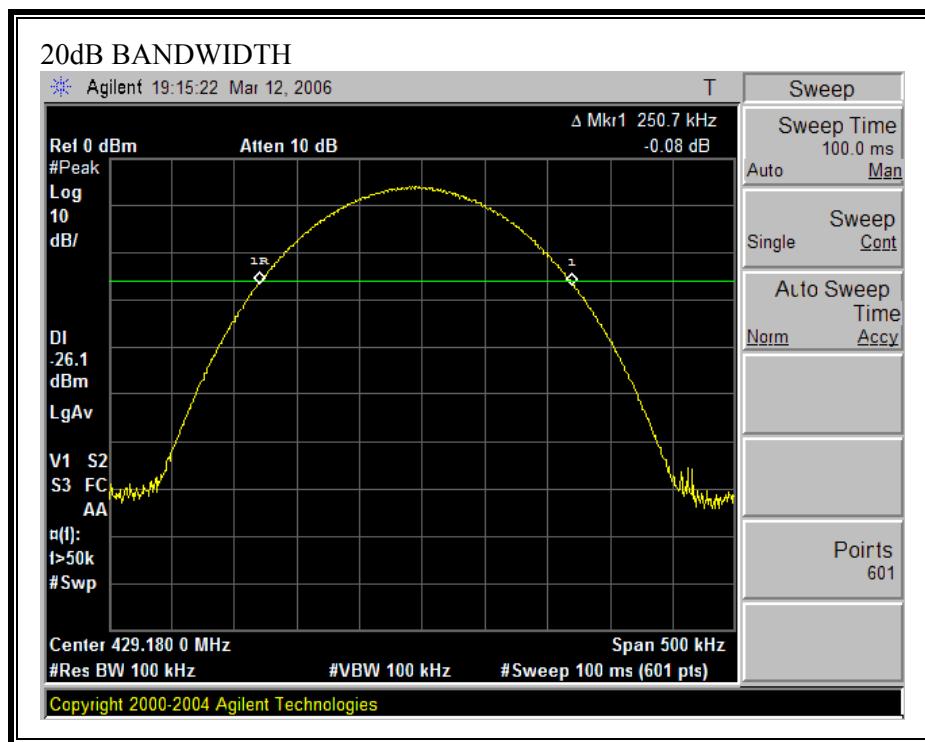
No non-compliance noted:

Frequency (MHz)	20dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)
429.18	250.7	1072.95	-822.25

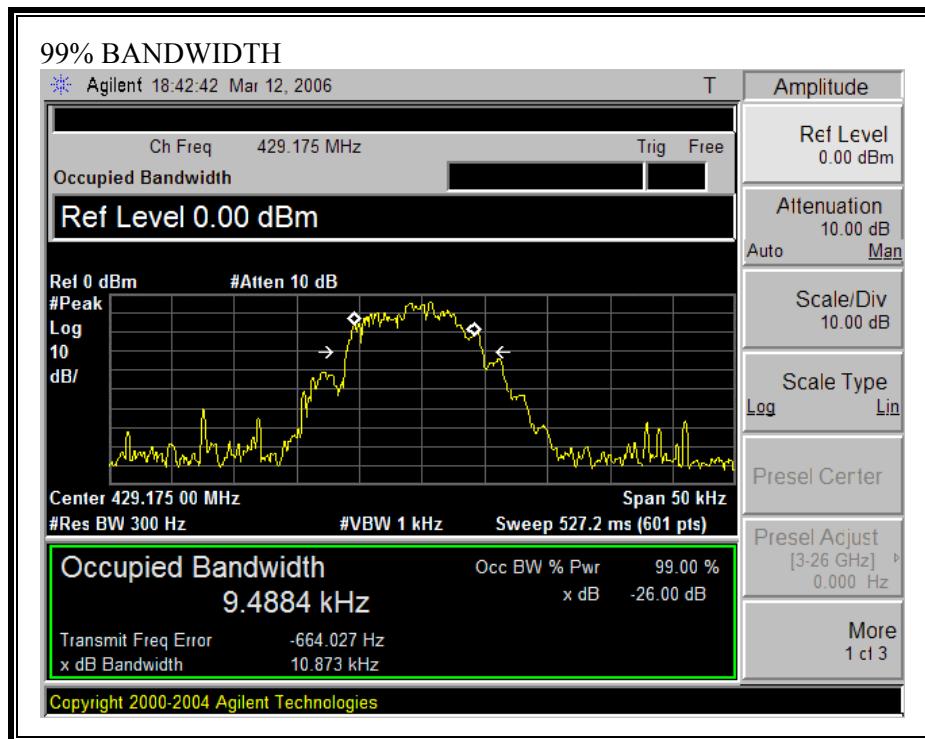
99% Bandwidth

Frequency (MHz)	99% Bandwidth (kHz)	Limit (kHz)	Margin (kHz)
429.18	9.4884	1072.95	-1063.4616

20dB BANDWIDTH



99% BANDWIDTH



7.1.2. MAXIMUM MODULATION PERCENTAGE (M%)

LIMIT

§15.35 (c) the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value. The exact method of calculating the average field strength shall be submitted with any application for certification or shall be retained in the measurement data file for equipment subject to notification or verification.

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer or radiated field strength. The RBW is set to 100 kHz and the VBW is set to 100 kHz. The sweep time is coupled and the span is set to 0 Hz. The number of pulses is measured and calculated in a 100 ms scan.

CALCULATION:

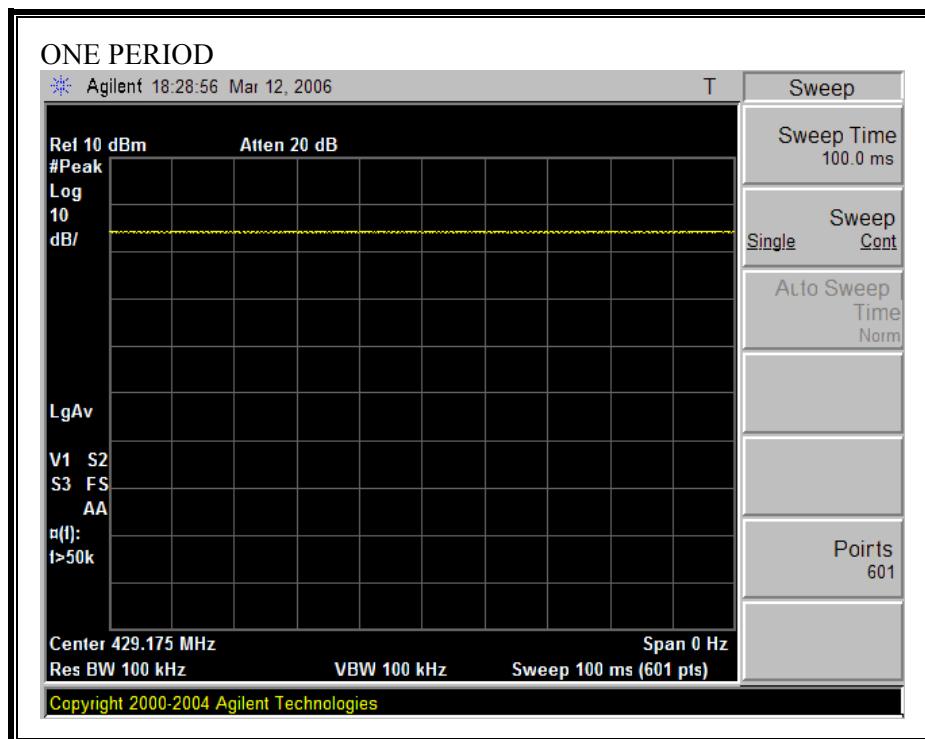
Average Reading = Peak Reading (dBuV/m) + 20log (Duty Cycle), Where Duty Cycle is
(# of long pulses * long pulse width) + (# of short pulses * short pulse width) / 100 or T

RESULTS

No non-compliance noted:

One Period (ms)	Long Pulse Width (ms)	# of Long Pulses	Short Width (ms)	# of Short Pulses	Duty Cycle	20*Log Duty Cycle (dB)
100	100	1	100.00	0	1.00	0.00

ONE PERIOD, 100% DUTY CYCLE



7.1.3. LESS THAN 5 SECONDS PLOT

LIMIT

§15.231 (a) (1) a manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

(a) (2) a transmitter activated automatically shall cease transmission within 5 seconds after activation.

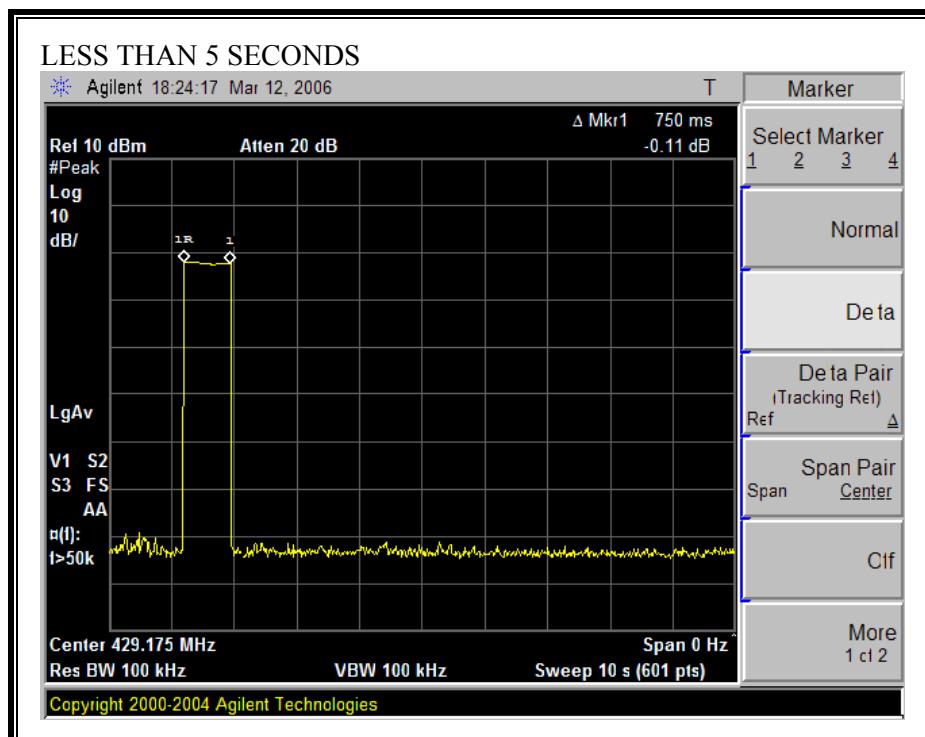
TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer or radiated field strength. The RBW is set to 100 kHz and the VBW is set to 100 kHz. The sweep time is set to 10 seconds and the span is set to 0 Hz.

RESULTS

No non-compliance noted:

Transmission begins approximately 1.220 seconds after activation and transmission ceases approximately 1.980 seconds after activation.



8. RADIATED EMISSIONS

8.1.1. TRANSMITTER RADIATED SPURIOUS EMISSIONS

LIMITS

§15.231 (b) In addition to the provisions of § 15.205, the field strength of emissions from Intentional radiators operated under this section shall not exceed the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental Frequency Spurious Emissions (microvolts/meter)	Field Strength of Spurious Emissions (microvolts/meter)
40.66 - 40.70	1,000	100
70 - 130	500	50
130 - 174	500 to 1,500 ¹	50 to 150 ¹
174 - 260	1,500	150
260 - 470	1,500 to 5,000 ¹	150 to 500 ¹
Above 470	5,000	500

¹ Linear interpolation

§15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41			

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

§15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

§15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 - 88	100 **	3
88 - 216	150 **	3
216 - 960	200 **	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

§15.209 (b) In the emission table above, the tighter limit applies at the band edges.

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

FUNDAMENTAL, HARMONICS AND SPURIOUS EMISSIONS 30 – 1000 MHz

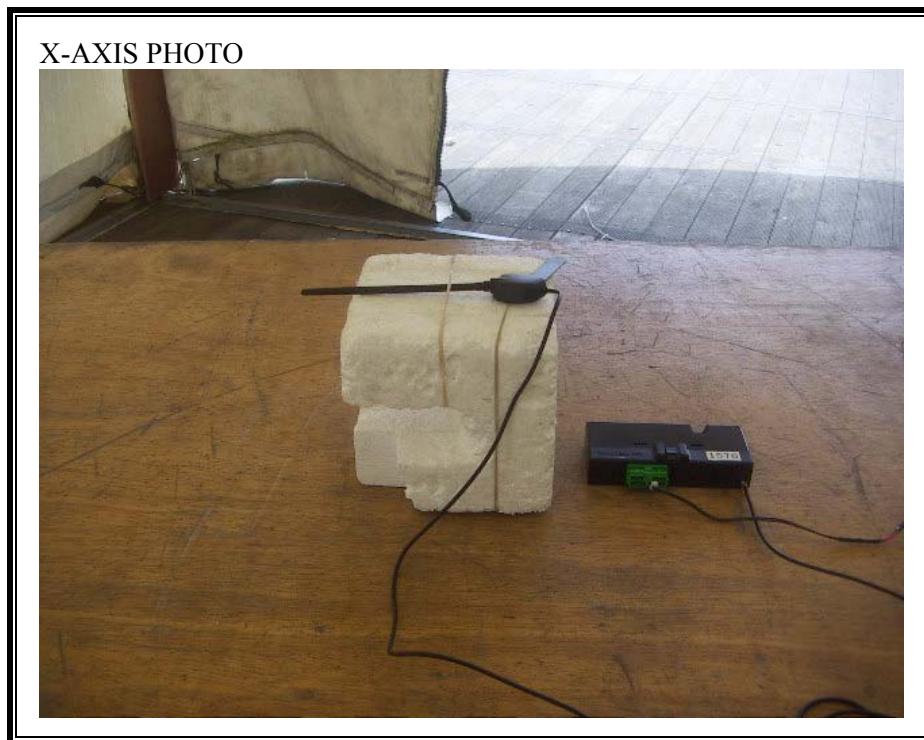
 <p>FCC, VCCI, CISPR, CE, AUSTEL, NZ UL, CSA, TUV, BSMI, DHHS, NVLAP 561F MONTEREY ROAD, SAN JOSE, CA 95037-9001 PHONE: (408) 463-0885 FAX: (408) 463-0888</p>		<p><i>Project #:</i> 06J10161 <i>Report #:</i> 060316C1 <i>Date & Time:</i> 03/16/06 <i>Test Engr:</i> Chin Pang</p>																																																																																																																																																		
<p><i>Company:</i> Honda Access <i>EUT Description:</i> Remote Control Starter System, RS-06AU(Sit on car) <i>Test Configuration:</i> EUT only <i>Type of Test:</i> FCC 15.231b <i>Mode of Operation:</i> Transmitting</p>																																																																																																																																																				
<p>M% = ((t1+t2+t3+...)/T) * 100% = 100.00%</p>		<table border="1"> <tr> <td colspan="2">Av Reading = Pk Reading + 20*log(M%)</td> </tr> <tr> <td colspan="2">20 * log (M%) = 0.00</td> </tr> </table>												Av Reading = Pk Reading + 20*log(M%)		20 * log (M%) = 0.00																																																																																																																																				
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Freq. (MHz)	Pk Rdg (dBuV)	Av Rdg (dBuV)	AF (dB)	Closs (dB)	Pre-amp (dB)	Pk Level (dBuV/m)	Av Level (dBuV/m)	Pk Limit FCC_B	Av Limit FCC_B	Pk Margin (dB)	Avg Margin (dB)	Pol (H/V)	Az (Deg)	Height (Meter)																																																																																																																																						
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Worst Position: 858.54	49.50	49.50	21.63	7.55	27.34	51.34	51.34	80.67	60.67	-29.33	-9.33	3mV	0.00	1.00																																																																																																																																						
858.54	48.20	48.20	21.63	7.55	27.34	50.04	50.04	80.67	60.67	-30.63	-10.63	3mH	0.00	2.00																																																																																																																																						

HARMONICS AND SPURIOUS EMISSIONS ABOVE 1GHz

03/16/06 High Frequency Measurement Compliance Certification Services, Morgan Hill Open Field Site															
Test Engineer:Chin Pang Project #:06J10161-1 Company:Honda Access EUT Description:Remote Control Starter System EUT M/N:RS-07AU Test Target:FCC Class B Mode Of Operation:TX															
Test Equipment:															
Horn 1-18GHz		Pre-amplifier 1-26GHz		Pre-amplifier 26-40GHz		Horn > 18GHz					Limit				
T73; S/N: 6717 @3m		T87 Miteq 924342									FCC 15.209				
Hi Frequency Cables															
2 foot cable		3 foot cable		12 foot cable		HPF		Reject Filter		<u>Peak Measurements</u> RBW=VBW=1MHz <u>Average Measurements</u> RBW=1MHz ; VBW=10Hz					
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fltr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
1.288	3.0	51.4	51.4	24.8	1.6	-44.9	0.0	0.0	33.0	74	54	-41.0	-21.0	V	
1.715	3.0	53.5	53.5	26.3	1.8	-44.8	0.0	0.0	36.8	74	54	-37.2	-17.2	V	
1.288	3.0	52.7	52.7	24.8	1.6	-44.9	0.0	0.0	34.3	74	54	-39.7	-19.7	H	
1.715	3.0	52.6	52.6	26.3	1.8	-44.8	0.0	0.0	35.9	74	54	-38.1	-18.1	H	
f Measurement Frequency Dist Distance to Antenna Read Analyzer Reading AF Antenna Factor CL Cable Loss Amp Preamp Gain D Corr Distance Correct to 3 meters Avg Average Field Strength @ 3 m Peak Calculated Peak Field Strength HPF High Pass Filter Avg Lim Average Field Strength Limit Pk Lim Peak Field Strength Limit Avg Mar Margin vs. Average Limit Pk Mar Margin vs. Peak Limit															

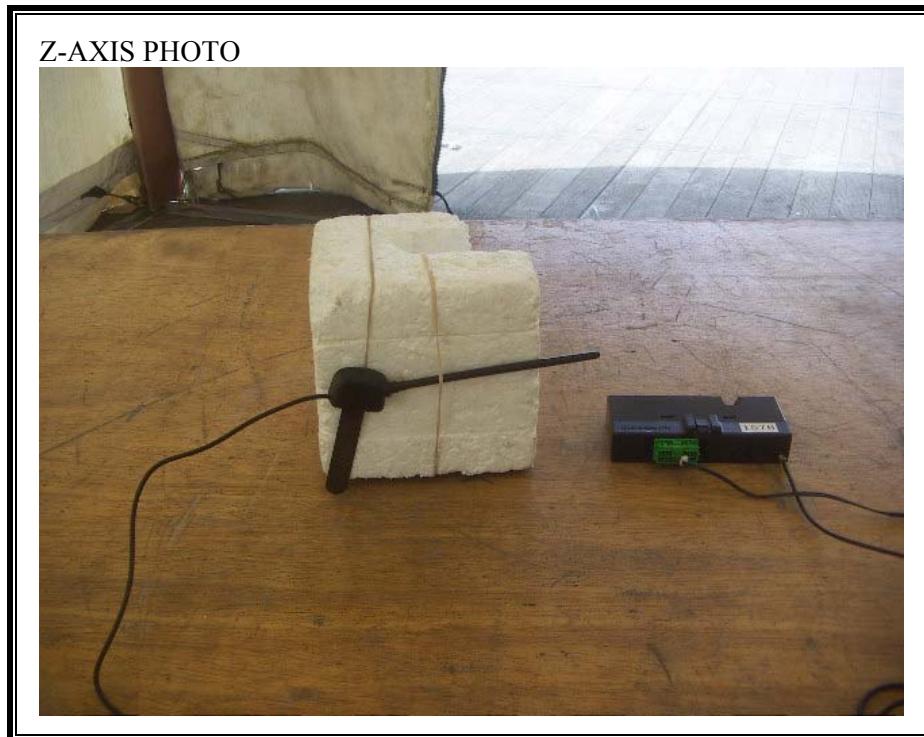
9. SETUP PHOTOS

RADIATED RF MEASUREMENT SETUP FOR PORTABLE CONFIGURATION



Y-AXIS PHOTO





END OF REPORT