EXHIBIT 3

Report Of Measurement Includes sample calculations, block diagrams, photographs of test configurations and properly signed and dated report.



TEST RESULT SUMMARY

FCC PART 15 SUBPART B Class B Limit

MANUFACTURER'S NAME

Denso Corp

NAME OF EQUIPMENT

Superheterodyne Receiver for Remote Keyless

Entry System

MODEL NUMBER

13BAA

MANUFACTURER'S ADDRESS

1-1 Showa-cho, Kariya-shi

Aichi-ken, 448-8661 Japan

TEST REPORT NUMBER

W8614

TEST DATE

28 December 1998

According to testing performed at TÜV Product Service Inc, the above-mentioned unit is in compliance with the electromagnetic compatibility requirements defined in FCC Part 15.

It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical characteristics. Any modifications necessary for compliance made during testing on the above mentioned date(s) must be implemented in all production units for compliance to be maintained.

TÜV Product Service Inc, as an independent testing laboratory, declares that the equipment tested as specified above conforms to the requirements of FCC Part 15.

Date:

09 February 1999

Location: Taylors Falls MN

USA

G. S. Jakubowski

Test Engineer

NVLAP Signatory

Not Transferable





EMC EMISSION - TEST REPORT

Test Report File No.	:	W011861401 Date of issue:	09 February 1999		
Model / Serial No.	:	13BAA /			
Product Type	:	Superheterodyne Receiver for R	emote Keyless Entry System		
Applicant	:	Denso Corp			
Manufacturer	:	Denso Corp			
License holder	:	Denso Corp			
Address	:	1-1 Showa-cho, Kariya-shi			
, tour ood	:	Aichi-ken, 448-8661 Japan			
Test Result		■ Positive □ Negative			
rest Result	•	= FOSITIVE LINEBULVE			
Test Project Number Reference(s)	:	W8614			
Total pages including Appendices		22			

TÜV Product Service Inc is a subcontractor to TÜV Product Service, GmbH according to the principles outlined in ISO/IEC Guide 25 and EN 45001.

TÜV Product Service Inc reports apply only to the specific samples tested under stated test conditions. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. TÜV Product Service Inc shall have no liability for any deductions, inferences or generalizations drawn by the client or others from TÜV Product Service Inc issued reports.

This report is the confidential property of the client. As a mutual protection to our clients, the public and ourselves, extracts from the test report shall not be reproduced except in full without our written approval. This report shall not be used by the client to claim product endorsement by NVLAP or any agency of the US government.

TÜV Product Service Inc and its professional staff hold government and professional organization certifications and are members of AAMI, ACIL, AEA, ANSI, IEEE, NVLAP, and VCCI



DIRECTORY - EMISSIONS

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EMISSIONS TEST REGULATIONS:

The emissions tests were performed according to following regulations:

□ - EN 50081-1 / 1991		
□ - EN 55011 / 1991	□ - Group 1 □ - Class A	□ - Group 2 □ - Class B
□ - EN 55013 / 1990		
□ - EN 55014 / 1987	□ - Household appliand □ - Portable tools □ - Semiconductor dev	
□ - EN 55014 / A2:1990		
□ - EN 55014 / 1993	☐ - Household appliand ☐ - Portable tools ☐ - Semiconductor dev	
□ - EN 55015 / 1987 □ - EN 55015 / A1:1990 □ - EN 55015 / 1993		
□ - EN 55022 / 1987 □ - EN 55022 / 1994	□ - Class A □ - Class A	□ - Class B □ - Class B
□ - BS □ - VCCI ■ - FCC □ - AS 3548 (1992)	□ - Class A □ - Class A □ - Class A	□ - Class B ■ - Class B □ - Class B
□ - CISPR 11 (1990)	□ - Group 1 □ - Class A	□ - Group 2 □ - Class B
□ - CISPR 22 (1993)	□ - Class A	□ - Class B





Environmental conditions in the lab:

Temperature : 18 °C
Relative Humidity : 12 %
Atmospheric pressure : 98.8 kPa
Power supply system : 12 VDC

Sign Explanations:

□ - not applicable

■ - applicable





Emissions Test Conditions: CONDUCTED EMISSIONS (Interference Voltage)

The CONDUCTED EMISSIONS (INTERFERENCE VOLTAGE) measurements were performed at the following test location: ■ - Test not applicable ☐ - Wild River Lab Large Test Site (Open Area Test Site) ☐ - Wild River Lab Small Test Site (Open Area Test Site) ☐ - Oakwood Lab (Open Area Test Site) □ - Wild River Lab Screen Room ☐ - New Brighton Lab Shielded Room Test equipment used: **Model Number** Manufacturer Description Serial Number Cal Date **Emissions Test Conditions: RADIATED EMISSIONS (Magnetic Field)** The RADIATED EMISSIONS (MAGNETIC FIELD) measurements were performed at the following test location: ☐ - Wild River Lab Large Test Site (Open Area Test Site) ☐ - Wild River Lab Small Test Site (Open Area Test Site) ☐ - Oakwood Lab (Open Area Test Site) at a test distance of: ☐ - 3 meters ☐ - 30 meters ■ - Test not applicable Test equipment used: **Model Number** Description Serial Number Cal Date Manufacturer





Emissions Test Conditions: RADIATED EMISSIONS (Electric Field)

The RADIATED EMISSIONS (ELECTRIC FIELD) measurements, in the frequency range of 30 MHz-1000 MHz, were tested in a horizontal and vertical polarization at the following test location:

-	Test	not	applicable	

- - Wild River Lab Large Test Site (Open Area Test Site)
- ☐ Wild River Lab Small Test Site (Open Area Test Site)
- ☐ Oakwood Lab (Open Area Test Site)

at a test distance of:

- - 3 meters
- ☐ 10 meters
- ☐ 30 meters

Test equipment used:

	Model Number	Manufacturer	Description	Serial Number	Cal Date
-	SAS-200/512	A. H. Systems	Log Periodic Antenna	147	6-98
m -	3108	Electro-Mechanics (EMCO)	Biconical Antenna	2429	6-98
J -	8566B	Hewlett-Packard	Spectrum Analyzer	2221A01596	4-98
■ -	85662A	Hewlett-Packard	Analyzer Display	2152A03640	4-98
■ -	85650A	Hewlett-Packard	Quasi-Peak Adapter	2811A01127	4-98
-	ZHL-1042J	Mini-Circuits	Preamplifier	H072294-11	4-98

Use of the calibrated equipment on this list ensures traceability to national and international standards.

Emissions Test Conditions: INTERFERENCE POWER

The INTERFERENCE POWER measurements were performed by using the absorbing clamp on the mains and interface cables in the frequency range 30 MHz - 300 MHz at the following test location :

■ - Test not applicable

- □ Wild River Lab Large Test Site (Open Area Test Site)
- ☐ Wild River Lab Small Test Site (Open Area Test Site)
- □ Oakwood Lab (Open Area Test Site)
- ☐ Wild River Lab Screen Room
- New Brighton Lab Shielded Room

Test equipment used:

Serial Number Cal Date **Model Number** Description Manufacturer





Emissions Test Conditions: RADIATED EMISSIONS (Electric Field)

The EQUIVALENT RADIATED EMISSIONS measurements in the frequency range 1 GHz - 2 GHz were performed in a horizontal and vertical polarization at the following test location:

- - Wild River Lab Large Test Site (Open Area Test Site)
- ☐ Wild River Lab Small Test Site (Open Area Test Site)
- ☐ Oakwood Lab (Open Area Test Site)
- □ Wild River Lab Screen Room

at a test distance of:

- ☐ 1 meters
- - 3 meters
- ☐ 10 meters

☐ - Test not applicable

Test equipment used:

: [Model Number	Manufacturer	Description	Serial Number	Cal Date
-	3115	Electro-Mechanics (EMCO)	Horn Antenna	9001-3275	9-98
■ -	8566B	Hewlett-Packard	Spectrum Analyzer	2221A01596	4-98
-	85662A	Hewlett-Packard	Analyzer Display	2152A03640	4-98
II -	85650A	Hewlett-Packard	Quasi-Peak Adapter	2811A01127	4-98
■ -	ZHL-1042J	Mini-Circuits	Preamplifier	H072294-11	4-98





Equipment Under Test (EUT) Test Operation Mode - Emission tests :

The device under test was operate	ed under the following	g conditions during emissions testing:
□ - Standby		
☐ - Test program (H - Pattern)		
☐ - Test program (color bar)		
☐ - Test program (customer specific	;)	
☐ - Practice operation		
■ - Normal Operating Mode		
-		
Configuration of the device under	r test:	
☐ - See Constructional Data Form in	n Appendix B - Page B	2
■ - See Product Information Form in	ı Appendix B - beginnin	g on Page B3
The following peripheral devices	and interface cables \	were connected during the measurement:
-		
□ -		
O -		
-		
O -		
-		
O		
□ - <u> </u>	Type:	
☐ - unshielded power cable		
- unshielded cables		
□ - shielded cables	MPS.No.:	
☐ - customer specific cables		
-		
-		





Emission Test Results:

The requirements are	🗆 - MET	□ - N	NOT MET	·
Minimum limit margin	dB	at	MHz	
Maximum limit exceeding	dB	at	MHz	
Remarks:				
Radiated emissions (magnetic field) 1	0 kHz - 30 MHz			
The requirements are	🗆 - MET	□ - N	NOT MET	
Minimum limit margin	dB	at	MHz	
Maximum limit exceeding	dB	at	MHz	
Remarks:				
Radiated emissions (electric field) 30	MHz - 1000 MHz			
The requirements are	■ - MET	□ - N	NOT MET	
Minimum limit margin	>10 dB	at	MHz	
Maximum limit exceeding	dB	at	MHz	
Remarks:				
Interference Power at the mains and ir	nterface cables 30 MHz - 300 MHz			
The requirements are	□ - MET	□ - N	NOT MET	
Minimum limit margin	dB	at	MHz	
Maximum limit exceeding	dB	at	MHz	
Remarks:				
Equivalent Radiated emissions 1 GHz	- 2 GHz			
The requirements are	■ - MET	□ - l	NOT MET	
Minimum limit margin	>10 dB	at	MHz	
Maximum limit exceeding	dB	at	MHz	
Remarks:				





DEVIATIONS FROM STANDARD:	
None.	
GENERAL REMARKS:	
•	
SUMMARY:	
The requirements according to the tech	nnical regulations are
■ - met	
□ - not met.	
The device under test does	
■ - fulfill the general approval requirem	ents mentioned on page 3.
\square - $oldsymbol{not}$ fulfill the general approval requ	irements mentioned on page 3.
Testing Start Date:	28 December 1998
Testing End Date:	28 December 1998
- TÜV PRODUCT SERVICE INC -	
Joel T. Schneider	
J. T.(\$chneider NVLAP Signatory	Tested∠By: G. S. Jakubowski



Appendix A

Test Data Sheets

and

Test Setup Drawing(s)



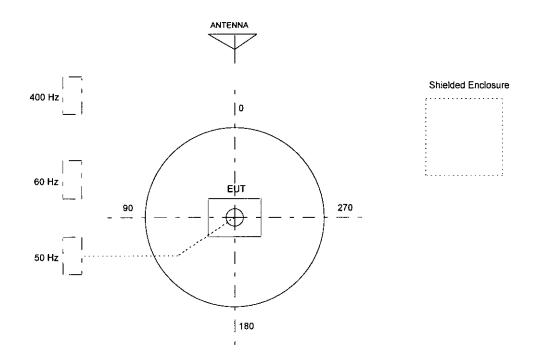


TEST SETUP FOR EMISSIONS TESTING

WILD RIVER LAB Large Test Site

Notes:

- Items shown in dotted lines are located on the floor below the test area. It is 5 meters vertically from the ground floor to the test area.
- 2. 50 Hz, 60 Hz, and 400 Hz are power panels for alternating current.
- 3. The antenna may be positioned horizontally 3, 10 or 30 meters from the center of the turntable.
- 4. The circle is a 6.7 meter diameter turntable.
- 5. A ground plane is in the plane of this sheet.
- 6. The test sample is shown in the azimuthal position representing zero degrees.



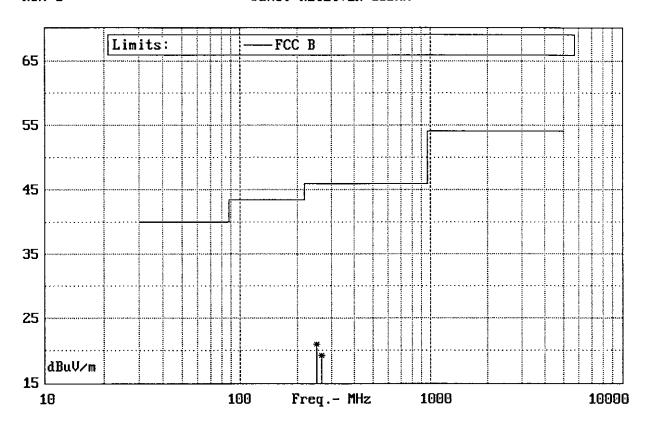




REPORT #W8614 RUN 1

TÜV PRODUCT SERVICE RADIATED EMISSIONS AT 3 METERS DENSO RECEIVER 13BAA

12/28/98





TUV PRODUCT SERVICE

RADIATED EMISSIONS

Large Test Site 3 Meter Antenna Distance Equipment Under Test: DENSO

and the state of the second of

RECEIVER 13BAA

Notes:

Report W8614 Run 1 Date 12/28/98 Page 1

Engineer

Tech: GSJ Jul Requester ____

Frequency Level Factor Cable Final Az Polar\ Delta MHz dBuV dB dB dBuV/m deg Height FCC B Delta

BEGIN SCAN 30-200 MHz

NO SIGNIFICANT EMISSIONS DETECTED 30-200 MHz

BEGIN SCAN 200-1000 MHz O DEGREES, VERTICAL ANTENNA, 1 METER HIGH

265.51 3.42 14.3 1.5 19.2 -- V -- -26.8 250.69 4.39 14.6 1.4 20.4 -- V -- -25.6

250.69 MHZ MAXED AT 80 DEGREES, VERTICAL, 1 METER 250.69 4.85 14.6 1.4 20.9 -- V ---25.1

BEGIN SCAN 1000-3200 MHz

NO SIGNIFICANT EMISSIONS DETECTED 1000-3200 MHz



TUV PRODUCT SERVICE

RADIATED EMISSIONS

Large Test Site 3 Meter Antenna Distance Equipment Under Test: DENSO

Figure____

Report W8614 Run 1 Date 12/28/98 Page 2

Engineer

Tech: GSJ

Requester

RECEIVER 13BAA

Notes:

Measurement Summary

Frequency MHz	Final dBuV/m	 uV/m	 Polar\ Height	Delta FCC B	Delta
250.69 265.51	20.9	11.091 9.1201	V	-25.1 -26.8	

Minimum Passing Margin for FCC B is 25.1 dB at 250.69 MHz

File W8614 Run 1





Appendix B

Constructional Data Form

and

Product Information Form(s)





Constructional Data Form

Not Applicable





Technical Description of the system

Type number

- Receiver :13BAA

Specifications of receiver

- Nominal frequency :314.35 MHz

- Local oscillator frequency :303.65 MHz (SAW Oscillator)

- Micro computer clock frequency :3.86 MHz

- Type of receiving system :Super heterodyne

- Power supply

- Nominal supply voltage :12 VDC (vehicle battery)

:Built-in type (fixed) - Antenna

Description of the system operation

This system is mainly used for locking or unlocking the doors of the vehicle. The transmitter sends a radio wave signal while the button is pushed. The receiver becomes active in response to the signal from the transmitter.

Installation in vehicle

The receiver is installed inside the vehicle.





Appendix C

MEASUREMENT PROTOCOL FOR FCC

GENERAL INFORMATION

In compliance with FCC Docket 92-152, "Harmonization of Rules for Digital Devices Incorporate International Standards", testing for FCC compliance may be done following the ANSI C63.4-1992 procedures and using the CISPR 22 Limits.

Measurement Uncertainty

The test system for conducted emissions is defined as the LISN, tuned receiver or spectrum analyzer, and coaxial cable. The test system for radiated emissions is defined as the antenna, the pre-amplifier, the spectrum analyzer and the coaxial cable. These test systems have a measurement uncertainty of ±4.5 dB. The equipment comprising the test systems are calibrated on an annual basis.

Justification

The Equipment Under Test (EUT) is configured in a typical user arrangement in accordance with the manufacturer's instructions. A cable is connected to each available port and either terminated with a peripheral into it's characteristic impedance or left unterminated. When appropriate, the cables are manually manipulated with respect to each other to obtain maximum emissions from the unit.

CONDUCTED EMISSIONS

The final level, expressed in $dB\mu V_i$ is arrived at by taking the reading directly from the EMI receiver. This level is compared directly to the FCC limit.

To convert between dB μ V and μ V, the following conversions apply: dB μ V = 20(log μ V) μ V = Inverse log(dB μ V/20)

RADIATED EMISSIONS

The final level, expressed in $dB\mu V/m$, is arrived at by taking the reading from the spectrum analyzer (Level $dB\mu V$) and adding the antenna correction factor and cable loss factor (Factor dB) to it. This result then has the FCC limit subtracted from it to provide the Delta which gives the tabular data as shown in the data sheets in Attachment B. The amplifier gain is automatically accounted for by using an analyzer offset.

Example	: Frequency (MHz)	Level (dBμV)				= Final (dBμV/m)		FCC B - Limit (dBμV/m)		FCC B (dB)
	32.21	13.9	+	16.3	= ;	30.2	_	40.0	=	-9.8





DETAILS OF TEST PROCEDURES

General Standard Information

The test methods used comply with ANSI C63.4-1992 - "Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz."

Conducted Emissions

Conducted emissions on the 60 Hz power interface of the EUT are measured in the frequency range of 450 kHz to 30 MHz. The measurements are performed using a receiver, which has CISPR characteristic bandwidth and quasi-peak detection, and a Line Impedance Stabilization Network (LISN), with $50 \,\Omega/50 \,\mu\text{H}$ (CISPR 16) characteristics. Table top equipment is placed on a non-conducting table 80 centimeters above the floor and is positioned 40 centimeters from the vertical ground plane (wall) of the screen room. In some cases, a pre-scan using a spectrum analyzer is initially performed on the units comprising the system under test to locate the highest emissions. If the minimum passing margin appears to be less than 20 dB with a peak mode measurement, the emissions are re-measured using a tuned receiver or spectrum analyzer with quasi-peak and average detection and recorded on the data sheets.

Radiated Emissions

Radiated emissions from the EUT are measured in the frequency range of 30 to 1000 MHz using a spectrum analyzer and appropriate broadband linearly polarized antennas. Measurements between 30 MHz and 1000 MHz are made with 120 kHz/6 dB bandwidth and quasi-peak detection and measurements above 1000 MHz are made with a 1 MHz/6 dB bandwidth and peak detection. Table top equipment is placed on a 1.0 X 1.5 meter non-conducting table 80 centimeters above the ground plane. Floor standing equipment is placed directly on the turntable/ground plane. Interface cables that are closer than 40 centimeters to the ground plane are bundled in the center in a serpentine fashion so they are at least 40 centimeters from the ground plane. Cables to simulators/testers (if used in this test) are routed through the center of the table and to a screen room located outside the test area. The antenna is positioned 3 meters horizontally from the EUT. To locate maximum emissions from the test sample the antenna is varied in height from 1 to 4 meters, measurement scans are made with both horizontal and vertical antenna polarizations and the EUT are rotated 360 degrees.