

DATA OF RADIATION TEST

UL Japan, Inc.

YAMAKITA No.2 OPEN TEST SITE

Report No. : 28BE0010-H0 -A

Applicant : DENSO CORPORATION
Kind of Equipment : Remote Keyless Entry System
Model No. : 13CZD
Serial No. : 13CZD-001
Power : DC 5V
Mode : Receiving
Remarks : -
Date : 9/18/2007
Test Distance : 3 m
Temperature : 27 °C
Humidity : 61 %
Regulation : FCC Part15B § 15.109(a)

Engineer : Tatsuya Arai

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	39.28	BB	21.4	24.8	14.0	28.1	1.3	6.0	14.6	18.0	40.0	25.4	22.0
2.	78.56	BB	23.6	23.5	6.4	27.9	1.8	6.0	9.9	9.8	40.0	30.1	30.2
3.	117.84	BB	21.5	22.0	12.3	27.9	2.2	6.0	14.1	14.6	43.5	29.4	28.9
4.	314.25	BB	21.8	21.5	15.7	27.4	3.9	6.0	20.0	19.7	46.0	26.0	26.3
5.	628.50	BB	20.8	20.9	20.2	28.9	5.6	6.0	23.7	23.8	46.0	22.3	22.2
6.	942.75	BB	20.8	20.7	23.2	28.6	7.1	6.0	28.5	28.4	46.0	17.5	17.6

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KBA-04 (BBA9106) 30-299.99MHz/KLA-02 (USLP9143) 300-1000MHz

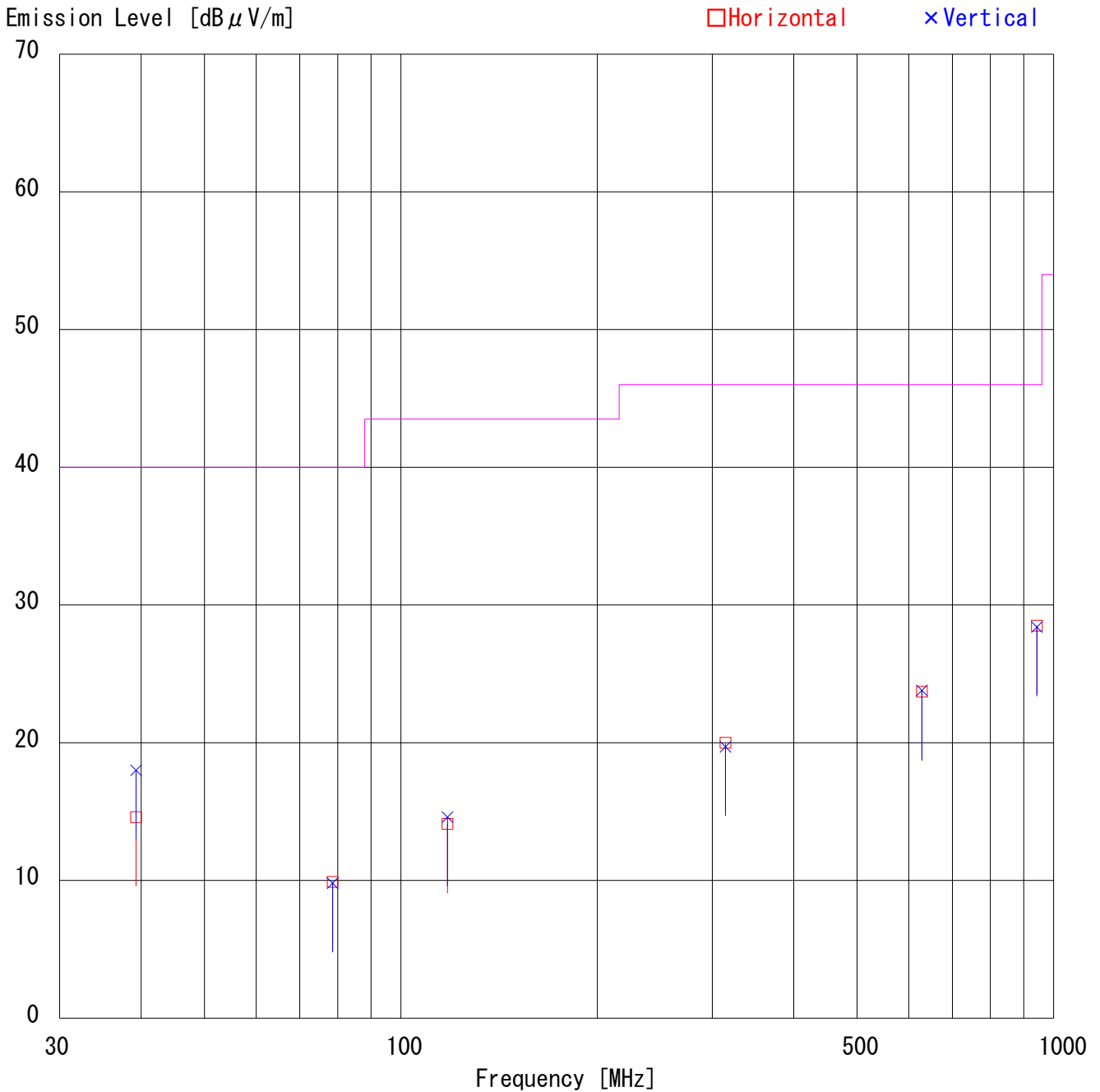
■ AMP: KAF-03 (8447D) ■ RECEIVER: KTR-04 (ESVS10) ■ CABLE: KCC-20/21/22/23/29

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Model No. : 13CZD
Serial No. : 13CZD-001
Power : DC 5V
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Applicant : DENSO CORPORATION
Kind of Equipment : Remote Keyless Entry System
Model No. : 13CZD
Serial No. : 13CZD-001
Power : DC 5V
Mode : Receiving
Remarks : AV (RBW: 1MHz, VBW: 10Hz)
Date : 9/18/2007
Test Distance : 3 m
Temperature : 27 °C Engineer : Tatsuya Arai
Humidity : 61 %
Regulation : FCC Part15B § 15.109(a)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	1257.00	BB	31.6	31.5	25.3	36.2	3.3	0.0	24.0	23.9	54.0	30.0	30.1

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KBA-04 (BBA9106) 30-299.99MHz/KLA-02 (USLP9143) 300-1000MHz
■ AMP: KAF-03 (8447D) ■ RECEIVER: KTR-04 (ESVS10) ■ CABLE: KCC-20/21/22/23/29

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Applicant : DENSO CORPORATION
Kind of Equipment : Remote Keyless Entry System
Model No. : 13CZD
Serial No. : 13CZD-001
Power : DC 5V
Mode : Receiving
Remarks : PK (RBW: 1MHz, VBW: 1MHz)
Date : 9/18/2007
Test Distance : 3 m
Temperature : 27 °C Engineer : Tatsuya Arai
Humidity : 61 %
Regulation : FCC Part15B CLASS B (PK)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	1257.00	BB	43.3	43.1	25.3	36.2	3.3	0.0	35.7	35.5	74.0	38.3	38.5

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KBA-04 (BBA9106) 30-299.99MHz/KLA-02 (USLP9143) 300-1000MHz

■ AMP: KAF-03 (8447D) ■ RECEIVER: KTR-04 (ESVS10) ■ CABLE: KCC-20/21/22/23/29

**APPENDIX 3
Test Instruments**

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
YA-RE	Radiated emission(software)	UL Japan	RE(Ver.1.5)	RE	-
KAF-03	Pre Amplifier	Hewlett Packard	8447D	RE	2006/09/26 * 12
KAT6-04	Attenuator	INMET	18N-6dB	RE	2007/03/28 * 12
KBA-04	Biconical Antenna	Schwarzbeck	VHA9103/BBA9106	RE	2007/06/15 * 12
KCC-20/21/22 /23/29/KRM-0 2	Coaxial Cable/RF Relay Matrix	Fujikura/Suhner/TSJ	8D-2W/12D-SFA/S042 72B/S04272B/RFM-E3 21	RE	2006/09/22 * 12
KLA-02	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2007/07/27 * 12
KOTS-02	Open Test Site	JSE	10m	RE	2007/08/05 * 12
KOS-06	Humidity Indicator	Custom	CTH-190	RE	2006/07/14 * 24
KSA-02	Spectrum Analyzer	Advantest	R3265A	RE	2006/12/02 * 12
KTR-04	Test Receiver	Rohde & Schwarz	ESVS10	RE	2006/10/26 * 12
KJM-04	Measure	TAJIMA	GL19-55	RE	-
KAF-04	Pre Amplifier	Agilent	8449B	RE	2007/04/24 * 12
KCC-D14/D15	Coaxial cable	Suhner	SUCOFLEX 104	RE	2006/12/13 * 12
KHA-02	Horn Antenna	Schwarzbeck	BBHA9120D	RE	2007/04/14 * 12

The expiration date of the calibration is the end of the expired month .

All equipment is calibrated with traceable calibrations . Each calibration is traceable to the national or international standards .

Test Item :

RE: Radiated emission ,