EMI TEST REPORT

Test Report No. : 25LE0149-HO-3a

Applicant	:	**OMRON Corporation**
Type of Equipment	:	**Tire Pressure Monitoring System (TPMS) ECU**
Model No.	:	**G8D-367H-ECU-A**
Test standard	:	**FCC Part 15 Subpart B Class B 2005**
FCC ID	:	**OUCG8D-367H**
Test Result	:	**Complied**

1. This test report shall not be reproduced in full or partial, without the written approval of UL Apex Co., Ltd.
2. The results in this report apply only to the sample tested.
3. This equipment is in compliance with the above regulation. We hereby certify that the data contain a true representation of the EMC profile.
4. The test results in this report are traceable to the national or international standards.

Date of test:

September 5 and 6, 2005

Tested by:

Makoto Kosaka
EMC Services

Mitsuru Fujimura
EMC Services

Approved by :

Naoki Sakamoto
Group Leader of
EMC Services

UL Apex Co., Ltd.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

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SECTION 1: Client information

Company Name : OMRON Corporation
Brand name : OMRON
Address : 6368 NENJOZAKA, OKUSA, KOMAKI, AICHI 485-0802 Japan
Telephone Number : +81-568-78-6394
Facsimile Number : +81-568-78-7659
Contact Person : Harumi Itatsu

SECTION 2: Equipment under test (E.U.T.)

2.1 Identification of E.U.T.

Type of Equipment : Tire Pressure Monitoring System (TPMS) ECU
Model No. : G8D-367H-ECU-A (Applied model)
G8D-366H-ECU-A (Tested model)*
Serial No. : 1
Country of Manufacture : Japan
Receipt Date of Sample : September 2, 2005
Condition of EUT : Engineering prototype
(Not for Sale: This sample is equivalent to mass-produced items.)

*Test was performed with the superior model, G8D-366H-ECU-A (with LF transmission function) of G8D-367H-ECU-A. The receiving function and hard ware are same in the both models.

2.2 Product Description

Model No: G8D-367H-ECU-A is the receiver of Tire Pressure Monitoring System (TPMS). It is a system that receives the information from transmitters installed into each tire, about the inflation pressure of temperature of tires detected by the sensor, so that it can detect the abnormality of tires like fallen inflation pressure.

Equipment Type : Receiver
Receiving frequency : 314.98MHz
Intermediate frequency : 10.7MHz
Local clock frequency : 325.7MHz
Other Clock Frequency : 16MHz (CPU clock)
Method of Frequency Operation : Synthesizer
Rating : DC 12V
Temperature of operation : -40 deg. C. - +85 deg. C.

FCC 15.111(b)
The receiving antenna is installed inside the EUT, and it cannot be removed. Therefore, this EUT complies with the requirement in section 15.111(b).

SECTION 3: Test specification, procedures & results

3.1 Test specification

Test Specification : FCC Part 15 Subpart B 2005
Title : FCC 47CFR Part15 Radio Frequency Device
Subpart B Unintentional Radiators

3.2 Procedures and results

Item	Test Procedure	Limits	Deviation	Worst margin *0)	Result
Conducted emission	ANSI C63.4: 2003 7. AC powerline conducted emission measurements	Class B	N/A	N/A*1)	Complied
Radiated emission	ANSI C63.4: 2003 8. Radiated emission measurements	Class B	N/A	17.9dB 33.111MHz, QP, Vert.	Complied
*Note: UL Apex's EMI Work Procedure QPM05. *0) The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result. *1) The test is not applicable since the EUT does not have AC power port.					

*These tests were performed without any deviations from test procedure except for additions or exclusions.

3.3 Additions or deviations to standards

No addition, deviation, nor exclusion has been made from standards.

3.4 Confirmation

UL Apex Co., Ltd. hereby confirms that E.U.T., in the configuration tested, complies with the specifications, FCC Part15 Subpart B 2005.

3.5 Uncertainty

Radiated Emission

The measurement uncertainty (with a 95% confidence level) for this test using Biconical antenna is ±4.5dB(3m).
The measurement uncertainty (with a 95% confidence level) for this test using Logperiodic antenna is ±5.2dB(3m).
The measurement uncertainty (with a 95% confidence level) for this test using Horn antenna is ±6.6dB.
The data listed in this test report has enough margin, more than the site margin.

3.6 Test Location

UL Apex Co., Ltd. Head Office EMC Lab. *NVLAP Lab. code: 200572-0
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

	FCC Registration Number	IC Number	Width x Depth x Height (m)	Size of reference ground plane (m) / horizontal conducting plane	Other rooms
No.1 semi-anechoic chamber	313583	IC4247A	19.2 x 11.2 x 7.7m	7.0 x 6.0m	Preparation room
No.2 semi-anechoic chamber	846015	IC4247A-2	7.5 x 5.8 x 5.2m	4.0 x 4.0m	-
No.3 shielded room	-	-	4.7 x 7.5 x 2.7m	4.7 x 7.5m	-
No.4 measurement room	-	-	3.1 x 5.0 x 2.7m	N/A	-

* Size of vertical conducting plane (for Conducted Emission test) : 2.0 x 2.0m for No.1 and No.2 semi-anechoic and No.3 shielded room.

3.7 Test set up, Test instruments and Data of EMI

Refer to APPENDIX 1 to 3.

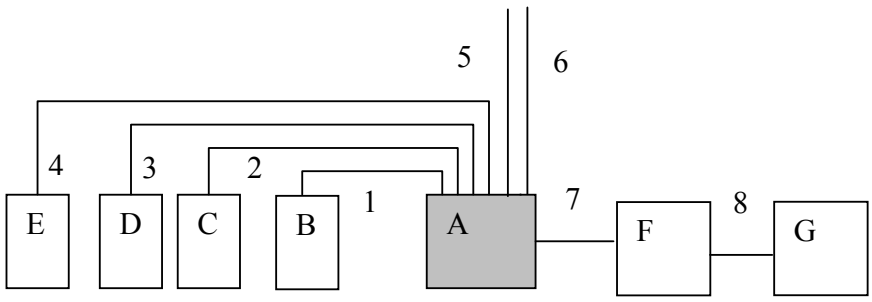
SECTION 4: Operation of E.U.T. during testing

4.1 Operating modes

The mode used for test : Receiving mode

*Test was performed with the superior model, G8D-366H-ECU-A (with LF transmission function) of G8D-367H-ECU-A. The receiving function and hard ware are same in the both models.

4.2 Configuration and peripherals



*Cabling was taken into consideration and test data was taken under worse case conditions.

Description of EUT and support equipment

No.	Item	Model number	Serial No.	Manufacturer	Remarks	FCC ID
A	TPMS ECU	G8D-366H-ECU-A*	1	OMRON	EUT	OUCG8D-367H
B	TPMS LFI	G8D-366H-ANT-A*	1	OMRON	-	-
C	TPMS LFI	G8D-366H-ANT-A*	2	OMRON	-	-
D	TPMS LFI	G8D-366H-ANT-A*	3	OMRON	-	-
E	TPMS LFI	G8D-366H-ANT-A*	4	OMRON	-	-
F	SW Box	-	-	OMRON	-	-
G	Car Battery	50B24L		YUASA	-	-

*Test was performed with the superior model, G8D-366H-ECU-A and G8D-366H-ANT-A (LF transmission antenna), but the receiving function and hard ware are same in the both models.

List of cables used

No.	Name	Length (m)	Shield
1	Antenna cable	1.0	No
2	Antenna cable	1.0	No
3	Antenna cable	1.0	No
4	Antenna cable	1.0	No
5	Signal Cable	6.3	No
6	RS232C Cable	1.0	No
7	DC Cable	1.0	No
8	DC Power Cable	0.8	No

SECTION 6: Radiated Emission

6.1 Operating environment

Test place : No.1 semi anechoic chamber.
Temperature : See data
Humidity : See data

6.2 Test configuration

EUT was placed on a platform of nominal size, 0.5m by 1.0m, raised 80cm above the conducting ground plane.
The EUT was set on the tabletop.
Test was made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna was varied in height above the conducting ground plane to obtain the maximum signal strength.
A drawing of the set up is shown in the photos of APPENDIX 1.

6.3 Test conditions

Frequency range : 30MHz – 300MHz (Biconical antenna) / 300MHz – 1000MHz (Logperiodic antenna)
1000-2000MHz (Horn antenna)
Test distance : 3m
EUT position : Table top
EUT operation mode : Receiving Mode

6.4 Test procedure

The height of the measuring varied between 1 and 4m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity.
The measurements were performed for both vertical and horizontal antenna polarization with the Test Receiver, or the Spectrum Analyzer (in linear mode).
The test was made with the detector (RBW/VBW) in the following table.
When using Spectrum analyzer, the test was made with adjusting span to zero by using peak hold.

Frequency	Below 1GHz	Above 1GHz
Instrument used	Test Receiver	Spectrum Analyzer
IF Bandwidth	QP: BW 120kHz	PK: RBW:1MHz/VBW: 1MHz AV: RBW:1MHz/VBW:10Hz

6.5 Test result

Summary of the test results: Pass

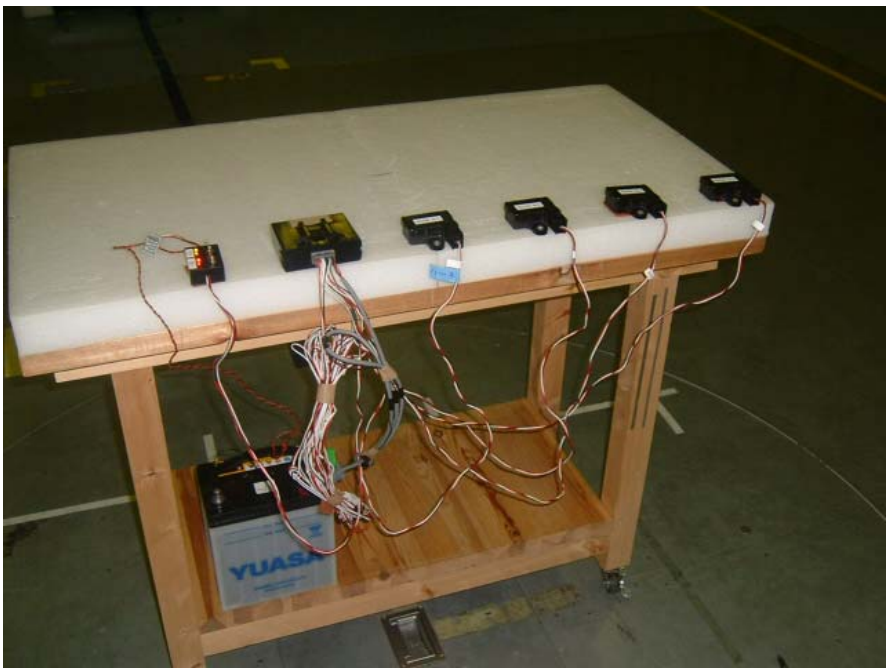
Date: September 5 and 6, 2005 Test engineer: Makoto Kosaka and Mitsuru Fujimura

APPENDIX 1: Photographs of test setup

Radiated Emission

Front

Rear



APPENDIX 2: Test instruments

EMI Test Instrument

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MAEC-01	Anechoic Chamber	TDK	Semi Anechoic Chamber 10m	RE	2004/11/13 * 12
MBA-01	Biconical Antenna	Schwarzbeck	BBA9106	RE	2004/10/14 * 12
MLA-01	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2004/10/14 * 12
MAT-06	Attenuator(6dB)	Weinschel Corp	2	RE	2004/12/16 * 12
MPA-04	Pre Amplifier	Agilent	8447D	RE	2005/05/24 * 12
MCC-01	Coaxial Cable 0.1-3000MHz	Suhner/storm/Agilent/TSJ	-	RE	2004/12/19 * 12
MTR-01	Test Receiver	Rohde & Schwarz	ESI40	RE	2004/11/12 * 12
MCC-05	Microwave Cable 1G-50GHz	Storm	421-011 (90-1394-079)	RE	2005/01/05 * 12
MCC-18	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX 104	RE	2005/02/03 * 12
MPA-01	Pre Amplifier	Agilent	8449B	RE	2005/02/05 * 12
MHA-05	Horn Antenna	Schwarzbeck	BBHA9120D	RE	2005/01/10 * 12

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

RE: Radiated emission

APPENDIX 3: Data of EMI test

Radiated Emission
Max Antenna (X-axis): 30MHz-1GHz

DATA OF RADIATED EMISSION TEST

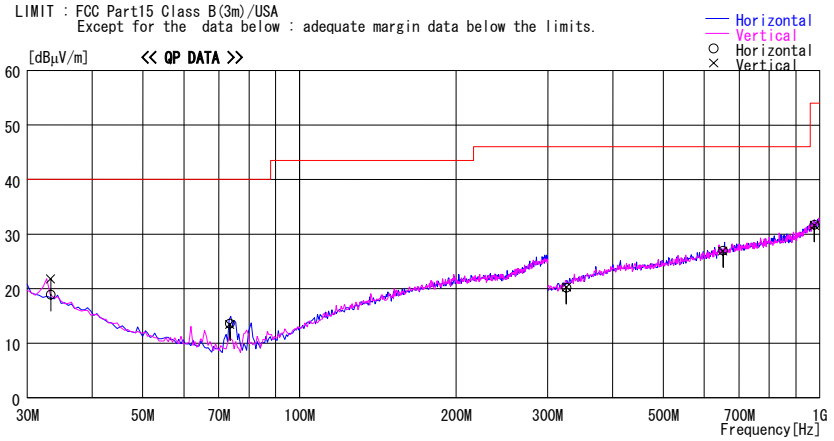
UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/09/05 13:27:35

Applicant : OMRON Corporation
Kind of EUT : TPMS ECU
Model No. : G8D-366H-ECU-A
Serial No. : 1

Report No. : 25LE0149-HO
Power : DC 12.0V(Car Battery)
Temp./Humi. : 26deg.C. / 70%
Operator : Makoto Kosaka

Mode / Remarks : Tx 125kHz(Max Antenna) Rx 314.98MHz X-axis

LIMIT : FCC Part15 Class B(3m)/USA
Except for the data below : adequate margin data below the limits.



Frequency [MHz]	Reading [dBuV]	DET	Antenna Factor [dB/m]	Loss& Gain [dB]	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
33.255	22.5	QP	17.4	-21.0	18.9	0	187	Hori.	40.0	21.1
33.255	25.4	QP	17.4	-21.0	21.8	116	100	Vert.	40.0	18.2
73.491	27.0	QP	6.8	-20.2	13.6	2	250	Hori.	40.0	26.4
73.492	26.9	QP	6.8	-20.2	13.5	159	115	Vert.	40.0	26.6
325.700	21.6	QP	15.6	-17.0	20.2	70	100	Hori.	46.0	25.8
325.700	21.7	QP	15.6	-17.0	20.3	56	100	Vert.	46.0	25.7
651.400	23.2	QP	20.4	-16.6	27.0	70	100	Hori.	46.0	19.0
651.400	23.1	QP	20.4	-16.6	26.9	56	100	Vert.	46.0	19.1
977.100	23.5	QP	23.0	-14.8	31.7	70	100	Hori.	54.0	22.3
977.100	23.4	QP	23.0	-14.8	31.6	56	100	Vert.	54.0	22.4

CHART:WITH FACTOR ANT TYPE : -30MHz LOOP,30-300MHz BICONICAL,300MHz-1000MHz LOGPERIODIC,1000MHz- HORN
Except for the data below : adequate margin data below the limits.
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

Radiated Emission
Max Antenna (Y-axis): 30MHz-1GHz

DATA OF RADIATED EMISSION TEST

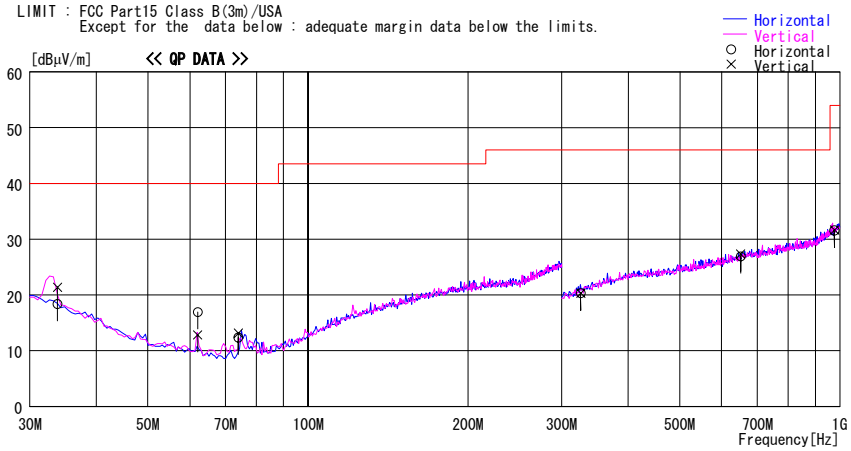
UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/09/05 13:46:12

Applicant : OMRON Corporation
Kind of EUT : TPMS ECU
Model No. : G8D-366H-ECU-A
Serial No. : 1

Report No. : 25LE0149-HO
Power : DC 12.0V(Car Battery)
Temp./Humi. : 26deg.C. / 70%
Operator : Makoto Kosaka

Mode / Remarks : Tx 125kHz(Max Antenna) Rx 314.98MHz Y-axis

LIMIT : FCC Part15 Class B(3m)/USA
Except for the data below : adequate margin data below the limits.



Frequency	Reading	DET	Antenna Factor	Loss& Gain	Level	Angle	Height	Polar.	Limit	Margin
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]
33.831	22.3	QP	17.1	-21.0	18.4	358	250	Hori.	40.0	21.6
33.831	25.3	QP	17.1	-21.0	21.4	227	100	Vert.	40.0	18.6
62.030	29.3	QP	8.1	-20.5	16.9	219	127	Hori.	40.0	23.1
62.030	25.2	QP	8.1	-20.5	12.8	318	100	Vert.	40.0	27.2
73.990	25.8	QP	6.8	-20.2	12.4	356	216	Hori.	40.0	27.6
73.991	26.5	QP	6.8	-20.2	13.1	0	100	Vert.	40.0	26.9
325.700	21.7	QP	15.6	-17.0	20.3	193	100	Hori.	46.0	25.7
325.700	21.7	QP	15.6	-17.0	20.3	278	100	Vert.	46.0	25.7
651.400	23.1	QP	20.4	-16.6	26.9	193	100	Hori.	46.0	19.1
651.400	23.5	QP	20.4	-16.6	27.3	278	100	Vert.	46.0	18.7
977.100	23.4	QP	23.0	-14.8	31.6	193	100	Hori.	54.0	22.4
977.100	23.4	QP	23.0	-14.8	31.6	278	100	Vert.	54.0	22.4

CHART:WITH FACTOR ANT TYPE : -30MHz LOOP,30-300MHz BICONICAL,300MHz-1000MHz LOGPERIODIC,1000MHz- HORN
Except for the data below : adequate margin data below the limits.
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

Radiated Emission
Max Antenna (Z-axis): 30MHz-1GHz

DATA OF RADIATED EMISSION TEST

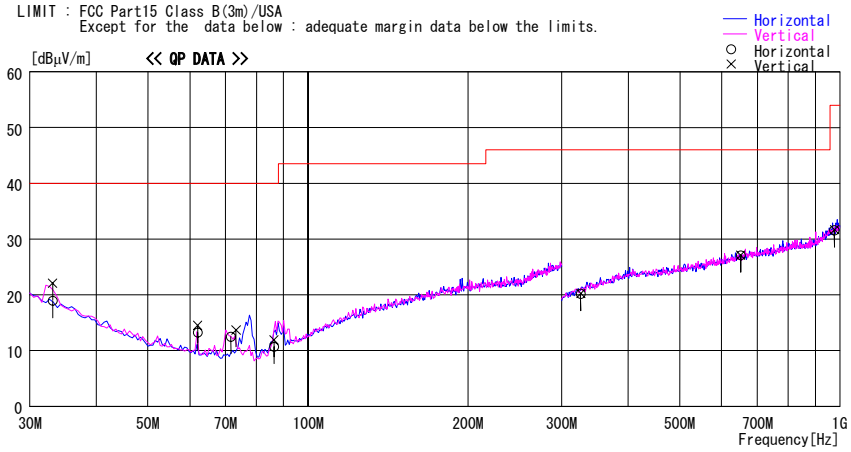
UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/09/05 14:18:53

Applicant : OMRON Corporation
Kind of EUT : TPMS ECU
Model No. : G8D-366H-ECU-A
Serial No. : 1

Report No. : 25LE0149-HO
Power : DC 12.0V(Car Battery)
Temp./Humi. : 26deg.C. / 70%
Operator : Makoto Kosaka

Mode / Remarks : Tx 125kHz(Max Antenna) Rx 314.98MHz Z-axis

LIMIT : FCC Part15 Class B(3m)/USA
Except for the data below : adequate margin data below the limits.



Frequency	Reading	DET	Antenna Factor	Loss& Gain	Level	Angle	Height	Polar.	Limit	Margin
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]
33.111	22.4	QP	17.5	-21.0	18.9	0	170	Hori.	40.0	21.1
33.111	25.6	QP	17.5	-21.0	22.1	83	100	Vert.	40.0	17.9
62.039	25.6	QP	8.1	-20.5	13.2	188	170	Hori.	40.0	26.8
62.039	26.9	QP	8.1	-20.5	14.5	360	100	Vert.	40.0	25.5
71.626	26.1	QP	6.8	-20.4	12.5	179	250	Hori.	40.0	27.5
73.227	27.1	QP	6.8	-20.2	13.7	204	100	Vert.	40.0	26.3
86.317	22.9	QP	7.7	-19.9	10.7	3	250	Hori.	40.0	29.3
86.317	24.1	QP	7.7	-19.9	11.9	225	100	Vert.	40.0	28.1
325.700	21.6	QP	15.6	-17.0	20.2	73	100	Hori.	46.0	25.8
325.700	21.6	QP	15.6	-17.0	20.2	16	100	Vert.	46.0	25.8
651.400	23.3	QP	20.4	-16.6	27.1	73	100	Hori.	46.0	18.9
651.400	23.3	QP	20.4	-16.6	27.1	16	100	Vert.	46.0	18.9
977.100	23.4	QP	23.0	-14.8	31.6	73	100	Hori.	54.0	22.4
977.100	23.5	QP	23.0	-14.8	31.7	16	100	Vert.	54.0	22.3

CHART:WITH FACTOR ANT TYPE : -30MHz LOOP,30-300MHz BICONICAL,300MHz-1000MHz LOGPERIODIC,1000MHz- HORN
Except for the data below : adequate margin data below the limits.
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

Radiated emission
Min Antenna (X-axis): 30MHz-1GHz

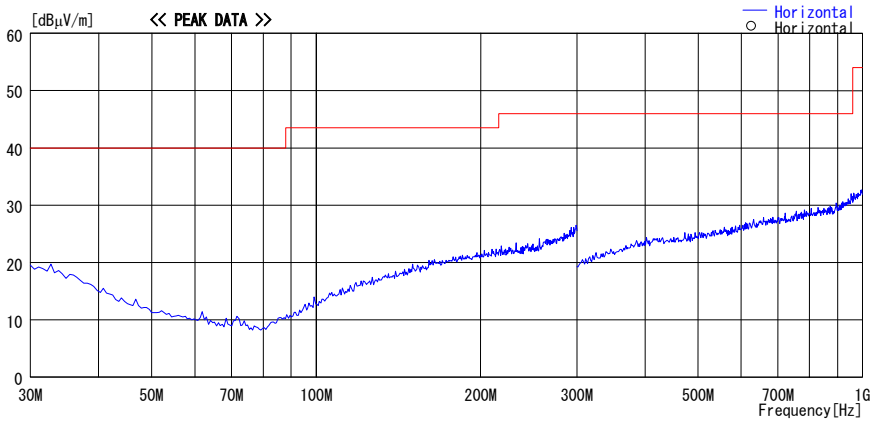
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/09/05 17:56:29

Applicant	: OMRON Corporation	Report No.	: 25LE0149-HO
Kind of EUT	: TPMS ECU	Power	: DC 12.0V(Car Battery)
Model No.	: G8D-366H-ECU-A	Temp./Humi.	: 26deg.C. / 70%
Serial No.	: 1	Operator	: Makoto Kosaka

Mode / Remarks : Tx 125kHz(Min Antenna) Rx 314.98MHz X-axis

LIMIT : FCC Part15 Class B(3m)/USA
Except for the data below : adequate margin data below the limits.



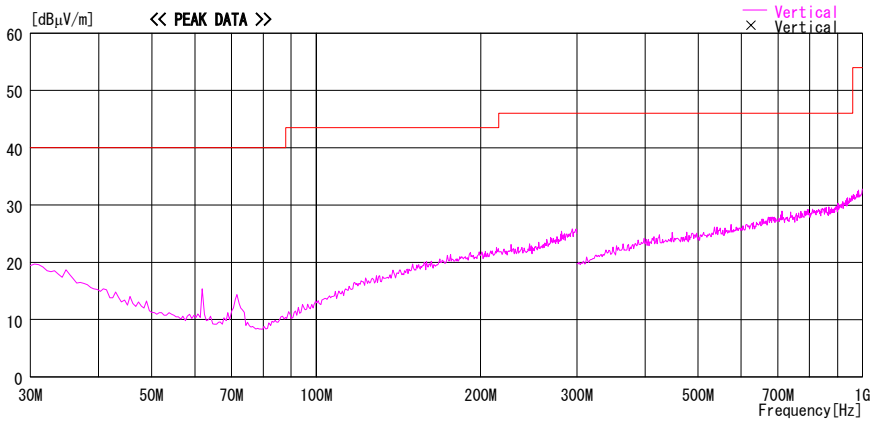


CHART:WITH FACTOR ANT TYPE : -30MHz LOOP,30-300MHz BICONICAL,300MHz-1000MHz LOGPERIODIC,1000MHz- HORN
Except for the data below : adequate margin data below the limits.
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

Radiated emission
Min Antenna (Y-axis): 30MHz-1GHz

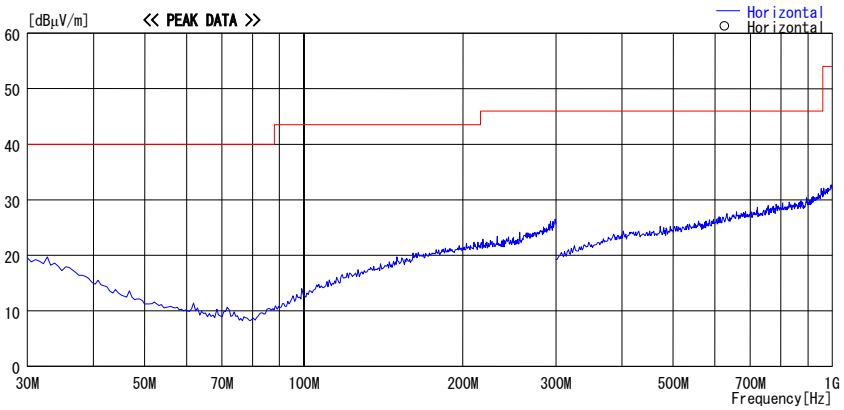
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/09/05 17:56:29

Applicant	: OMRON Corporation	Report No.	: 25LE0149-HO
Kind of EUT	: TPMS ECU	Power	: DC 12.0V(Car Battery)
Model No.	: G8D-366H-ECU-A	Temp./Humi.	: 26deg.C. / 70%
Serial No.	: 1	Operator	: Makoto Kosaka

Mode / Remarks : Tx 125kHz(Min Antenna) Rx 314.98MHz Y-axis

LIMIT : FCC Part15 Class B(3m)/USA
Except for the data below : adequate margin data below the limits.



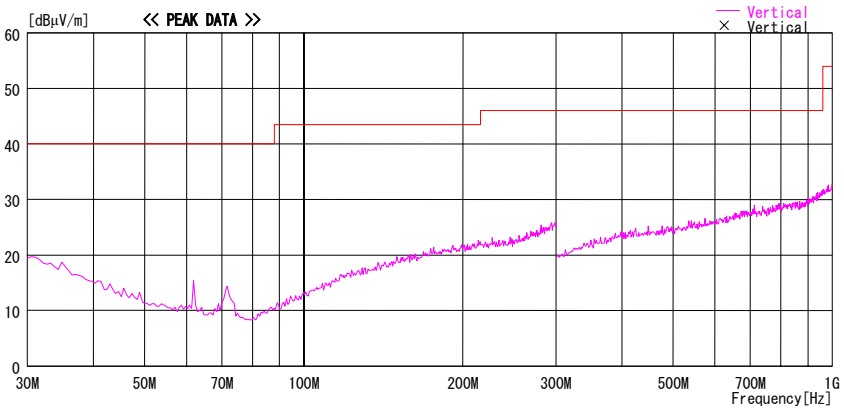


CHART:WITH FACTOR ANT TYPE : -30MHz LOOP,30-300MHz BICONICAL,300MHz-1000MHz LOGPERIODIC,1000MHz- HORN
Except for the data below : adequate margin data below the limits.
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

Radiated emission
Min Antenna (Z-axis): 30MHz-1GHz

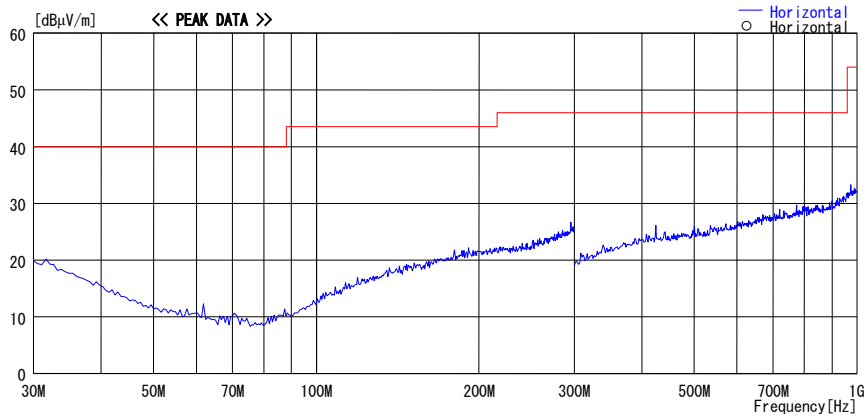
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/09/05 18:34:34

Applicant	: OMRON Corporation	Report No.	: 25LE0149-HO
Kind of EUT	: TPMS ECU	Power	: DC 12.0V(Car Battery)
Model No.	: G8D-366H-ECU-A	Temp./Humi.	: 26deg.C, / 70%
Serial No.	: 1	Operator	: Makoto Kosaka

Mode / Remarks : Tx 125kHz(Min Antenna) Rx 314.98MHz Z-axis

LIMIT : FCC Part15 Class B(3m)/USA
Except for the data below : adequate margin data below the limits.



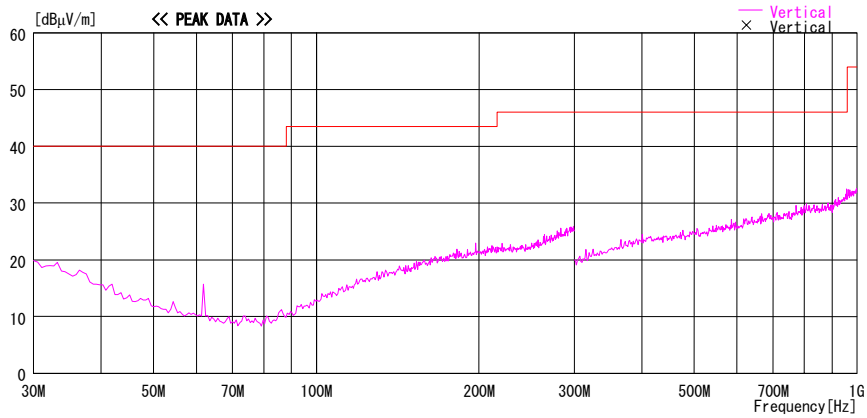


CHART:WITH FACTOR ANT TYPE : -30MHz LOOP,30-300MHz BICONICAL,300MHz-1000MHz LOGPERIODIC,1000MHz- HORN
Except for the data below : adequate margin data below the limits.
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

Radiated Emission
Max Antenna (X-axis): 1-2GHz

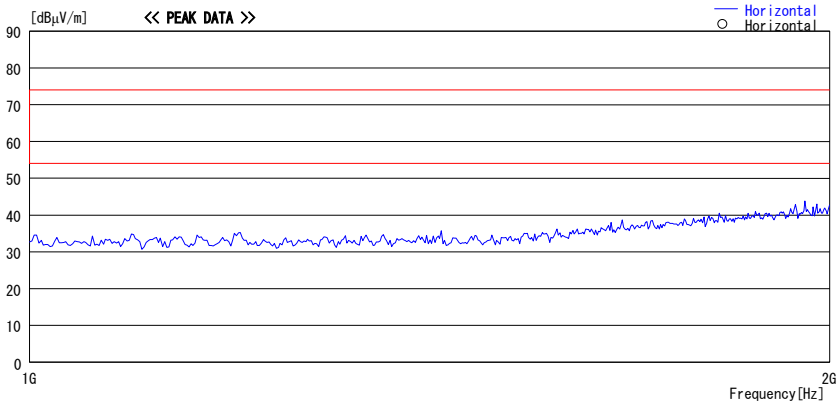
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/09/06 03:30:52

Applicant	: OMRON Corporation	Report No.	: 25LE0149-HO
Kind of EUT	: TPMS ECU	Power	: DC 12.0V(Car Battery)
Model No.	: G8D-366H-ECU-A	Temp./Humi.	: 23deg.C. / 65%
Serial No.	: 1	Operator	: Mitsuru Fujimura

Mode / Remarks : Tx 125kHz(Max Antenna) Rx 314.98MHz X-axis

LIMIT : FCC Part15 Class B(3m)/USA, (above 1GHz: PK)
FCC Part15 Class B(3m)/USA



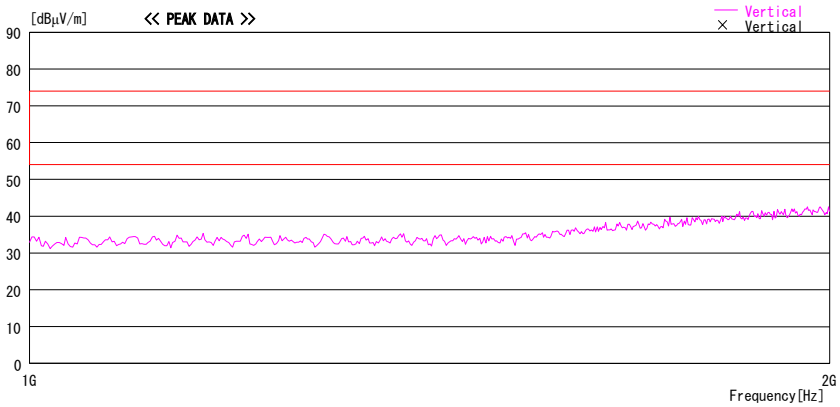


CHART:WITH FACTOR ANT TYPE : -30MHz LOOP,30-300MHz BICONICAL,300MHz-1000MHz LOGPERIODIC,1000MHz- HORN
Except for the data below : adequate margin data below the limits.
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

Radiated Emission
Max Antenna (Y-axis): 1-2GHz

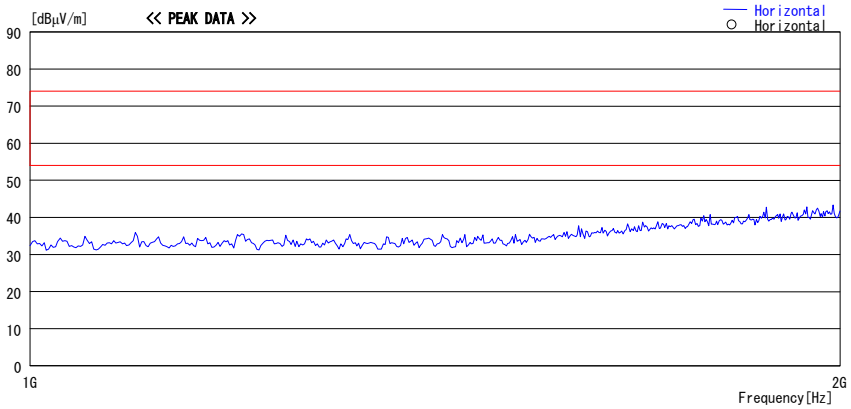
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/09/06 03:28:11

Applicant	: OMRON Corporation	Report No.	: 25LE0149-HO
Kind of EUT	: TPMS ECU	Power	: DC 12.0V(Car Battery)
Model No.	: G8D-366H-ECU-A	Temp./Humi.	: 23deg.C. / 65%
Serial No.	: 1	Operator	: Mitsuru Fujimura

Mode / Remarks : Tx 125kHz(Max Antenna) Rx 314.98MHz Y-axis

LIMIT : FCC Part15 Class B(3m)/USA, (above 1GHz: PK)
FCC Part15 Class B(3m)/USA



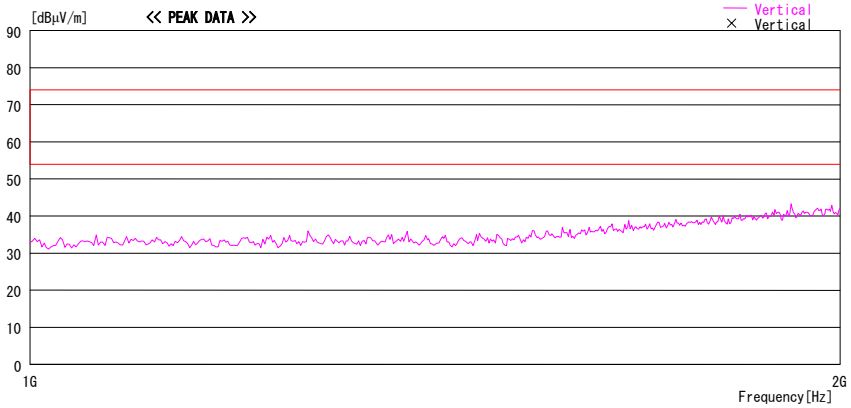


CHART:WITH FACTOR ANT TYPE : -30MHz LOOP,30-300MHz BICONICAL,300MHz-1000MHz LOGPERIODIC,1000MHz- HORN
Except for the data below : adequate margin data below the limits.
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

Radiated Emission
Max Antenna (Z-axis): 1-2GHz

DATA OF RADIATED EMISSION TEST

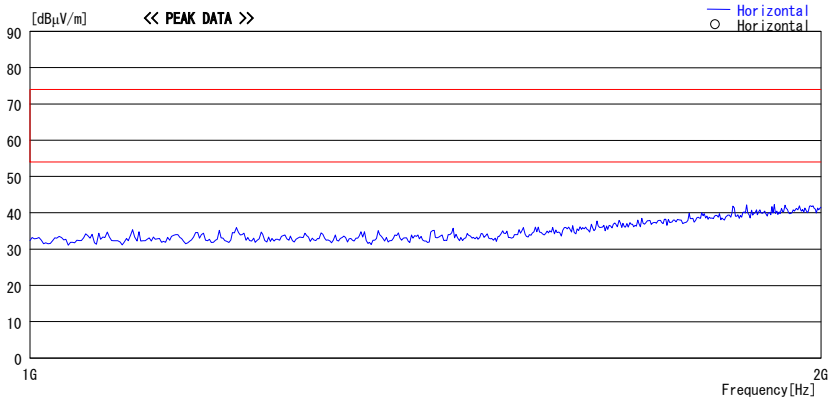
UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/09/06 03:25:15

Applicant : OMRON Corporation
Kind of EUT : TPMS ECU
Model No. : G8D-366H-ECU-A
Serial No. : 1

Report No. : 25LE0149-HO
Power : DC 12.0V(Car Battery)
Temp./Humi. : 23deg.C. / 65%
Operator : Mitsuru Fujimura

Mode / Remarks : Tx 125kHz(Max Antenna) Rx 314.98MHz Z-axis

LIMIT : FCC Part15 Class B(3m)/USA, (above 1GHz: PK)
FCC Part15 Class B(3m)/USA



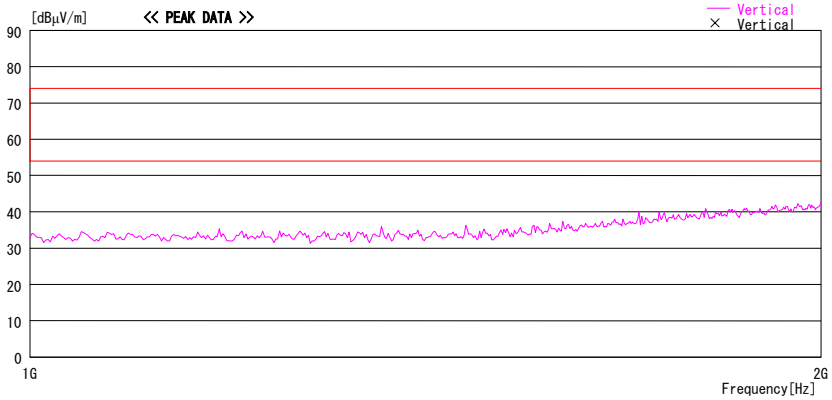


CHART:WITH FACTOR ANT TYPE : -30MHz LOOP,30-300MHz BICONICAL,300MHz-1000MHz LOGPERIODIC,1000MHz- HORN
Except for the data below : adequate margin data below the limits.
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

Radiated Emission
Min Antenna (X-axis): 1-2GHz

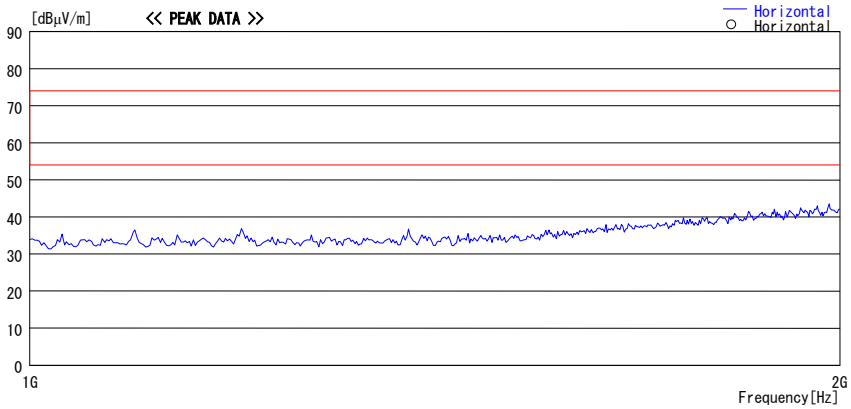
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/09/06 03:09:57

Applicant	: OMRON Corporation	Report No.	: 25LE0149-HO
Kind of EUT	: TPMS ECU	Power	: DC 12.0V(Car Battery)
Model No.	: G8D-366H-ECU-A	Temp./Humi.	: 23deg.C. / 65%
Serial No.	: 1	Operator	: Mitsuru Fujimura

Mode / Remarks : Tx 125kHz(Min Antenna) Rx 314.98MHz X-axis

LIMIT : FCC Part15 Class B(3m)/USA, (above 1GHz: PK)
FCC Part15 Class B(3m)/USA



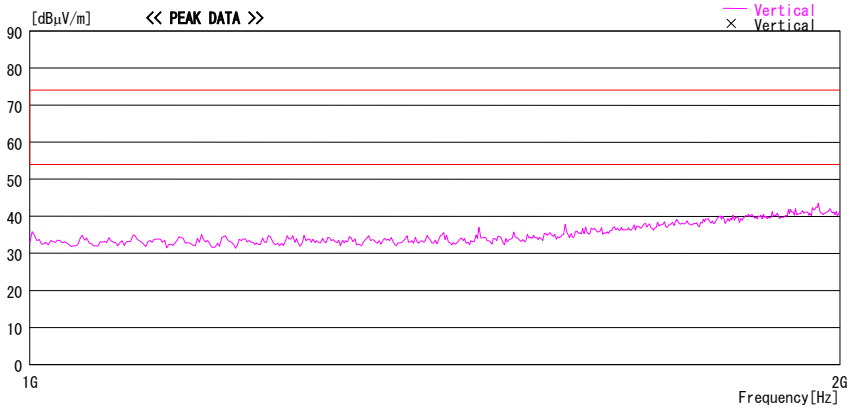


CHART:WITH FACTOR ANT TYPE : -30MHz LOOP,30-300MHz BICONICAL,300MHz-1000MHz LOGPERIODIC,1000MHz- HORN
Except for the data below : adequate margin data below the limits.
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

Radiated Emission
Min Antenna (Y-axis): 1-2GHz

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/09/06 03:16:05

Applicant : OMRON Corporation
Kind of EUT : TPMS ECU
Model No. : G8D-366H-ECU-A
Serial No. : 1

Report No. : 25LE0149-HO
Power : DC 12.0V(Car Battery)
Temp./Humi. : 23deg.C. / 65%
Operator : Mitsuru Fujimura

Mode / Remarks : Tx 125kHz(Min Antenna) Rx 314.98MHz Y-axis

LIMIT : FCC Part15 Class B(3m)/USA, (above 1GHz: PK)
FCC Part15 Class B(3m)/USA

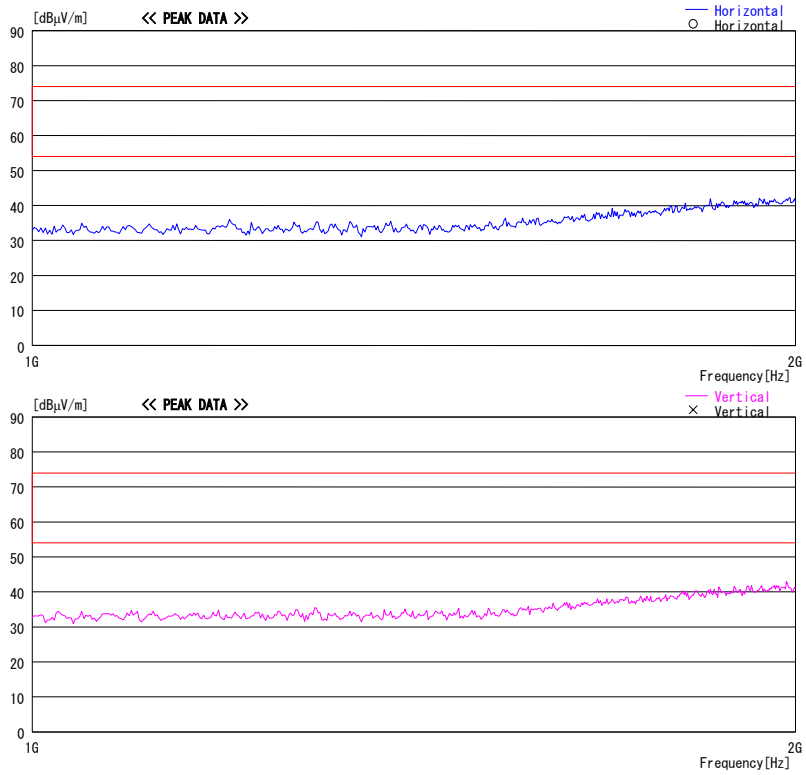


CHART:WITH FACTOR ANT TYPE : -30MHz LOOP,30-300MHz BICONICAL,300MHz-1000MHz LOGPERIODIC,1000MHz- HORN
Except for the data below : adequate margin data below the limits.
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

Radiated Emission
Min Antenna (Z-axis): 1-2GHz

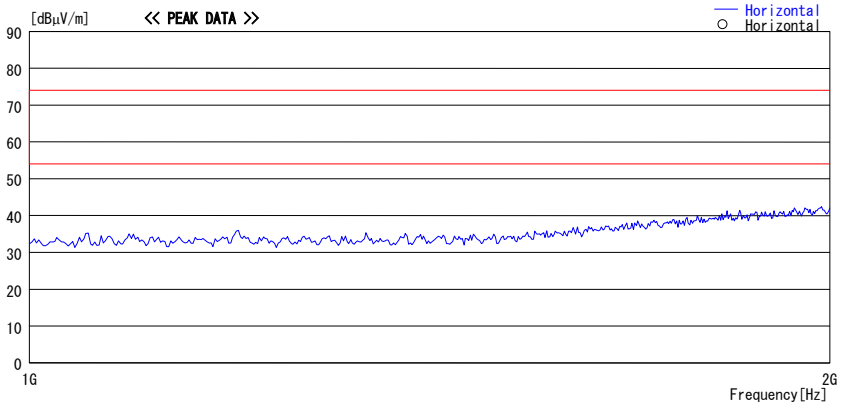
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/09/06 03:22:32

Applicant	: OMRON Corporation	Report No.	: 25LE0149-HO
Kind of EUT	: TPMS ECU	Power	: DC 12.0V(Car Battery)
Model No.	: G8D-366H-ECU-A	Temp./Humi.	: 23deg.C. / 65%
Serial No.	: 1	Operator	: Mitsuru Fujimura

Mode / Remarks : Tx 125kHz(Min Antenna) Rx 314.98MHz Z-axis

LIMIT : FCC Part15 Class B(3m)/USA, (above 1GHz: PK)
FCC Part15 Class B(3m)/USA



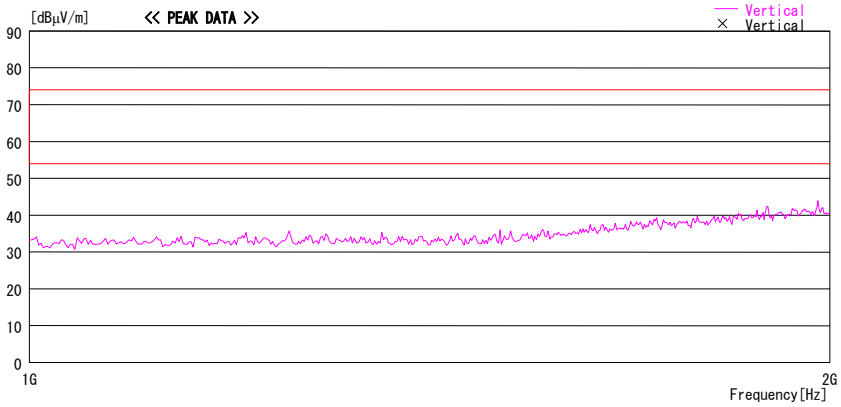


CHART:WITH FACTOR ANT TYPE : -30MHz LOOP,30-300MHz BICONICAL,300MHz-1000MHz LOGPERIODIC,1000MHz- HORN
Except for the data below : adequate margin data below the limits.
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)