

Test Report No.: NK2HE340 FCC Certification

# Nemko Korea Co., Ltd.

300-2, Osan-Ri, Mohyun-Myun, Cheoin-Gu, Yongin-City, Gyeonggi-Do, KOREA TEL:+ 82 31 322 2333 FAX:+ 82 31 322 2332 FCC PART 18 Class II Permissive Change

Applicant :

DAEWOO ELECTRONICS CORPORATION M/W Oven Div. R&D Center, 412-2, Chungchun-Dong, Bupyong-Gu, Incheon, 403-032, Korea Attn : Mr. Tae-hee, Lee Dates of Issue : May 22, 2007 Test Report No. : NK2HE340 Test Site : Nemko Korea Co., Ltd. EMC site, Korea

FCC ID

**Brand Name** 

**Contact Person** 

C5F7NF1GMO100N

DAEWOO

DAEWOO ELECTRONICS CORPORATION M/W Oven Div. R&D Center, 412-2, Chungchun-Dong, Bupyong-Gu, Incheon, 403-032, Korea Mr. Tae-hee, Lee Telephone No. : +82 32 510 7923

Applied Standard: Classification : EUT Type: Part 18 & 2 Consumer ISM equipment Microwave oven

The device bearing the brand name and FCC ID specified above has been shown to comply with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in MP-5:1986.

I attest to the accuracy of data and all measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Chiph

Tested By : C. S. Choi Engineer

Sent to

Reviewed By : H.H. Kim Manager & Chief Engineer

Daewoo Electronics Corporation FCC ID: C5F7NF1GMO100N Page 1 of 45



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## **SCOPE**

Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission under FCC part 18.

Responsible Party : Contact Person :	Daewoo Electronics Corporation Mr. Tae-hee. Lee Tel No.: +82 32 510 7923
Manufacturer :	DAEWOO ELECTRONICS CORPORATION M/W Oven Div. R&D Center, 412-2, Chungchun-Dong, Bupyong-Gu, Incheon, 403-032, Korea
Factory :	<ol> <li>DAEWOO ELECTRONICS CORPORATION. 981-1, Jangduck-Dong, Gwangsan-Gu, Kwangju-Shi, 506-251, Korea</li> <li>DAEWOO MICROWAVE OVEN CO., LTD. Detda, Dagang District, Tianjin, China</li> </ol>

- FCC ID: C5F7NF1GMO100N
- Model: KOT-1G0A
- Brand Name: DAEWOO
- EUT Type: Microwave Oven
- Applied Standard: FCC Part 18 & Part 2
- Test Procedure(s): MP-5:1986
- Dates of Test: May 15, 2007 to May 21,2007
- Place of Tests: Nemko Korea Co., Ltd. EMC Site
- Test Report No.: NK2HE340



# **INTRODUCTION**

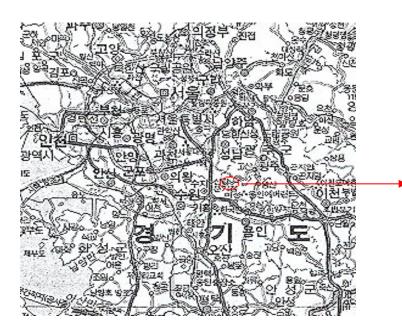
The measurement procedure described in MP5:1986 for Methods of Measurement of radiated, powerline conducted radio noise, frequency and power output was used in determining emissions emanating from **DAEWOO ELECTRONICS CORPORATION.** FCC ID : **C5F7NF1GMO100N, Microwave Oven.** 

These measurement tests were conducted at **Nemko Korea Co., Ltd. EMC Laboratory**. The site address is 300-2, Osan-Ri, Mohyun-Myun, Cheoin-Gu, Yongin-City, Gyeonggi-Do, KOREA

The area of Nemko Korea Corporation Ltd. EMC Test Site is located in a mountain area at 80 kilometers (48 miles) southeast and Incheon International Airport (Incheon Airport), 30 kilometers (18miles) south-southeast from central Seoul.

It is located in the valley surrounded by mountains in all directions where ambient radio signal conditions are quiet and a favorable area to measure the radio frequency interference on open field test site for the computing and ISM devices manufactures.

The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2003



Nemko Korea Co., Ltd. OPEN AREA TEST SITE 300-2, Osan-Ri, Mohyun-Myun, Cheoin-Gu, Yongin-City Gyeonggi-Do,KOREA 449-852 Tel) +82-31-322-2333

Fig. 1. The map above shows the Seoul in Korea vicinity area. The map also shows Nemko Korea Corporation Ltd. EMC Lab and Incheon Airport.



# **EUT INFORMATION**

## **EUT Information**

Electric Rating :	120 V ac, 60 Hz
Clock :	4 MHz
Magnetron Type :	2M18 / Daewoo Electronics Corp.
Operating Frequency :	2.45 GHz
Rated Output Power :	1000 W

## Description of the Changes according to FCC part 2.1043

1. Add the Magnetron (2M18, Daewoo Electronics Corporation)



# **DESCRIPTION OF TESTS**

## **Radiation Hazard**

A 700 ml water load was placed in the center of the oven. The power setting was set to maximum power. While the oven was operating, the Microwave Survey Meter probe was moved slowly around the door seams to check for leakage.

### Input Power Measurement

The EUT was placed on a wooden table 0.8 m at 1 m distance Horn antenna. A 700ml water load was placed in the center of the oven and the oven set to maximum power. A 700 ml water load was chosen for its compatibility. Input power and current were measured using a Power Analyzer. Manufacturers to determine their input ratings commonly use this procedure.

### **Output Power Measurement**

The Caloric Method was used to determine maximum output power. The initial temperature of a 1000 ml water load was measured. The water load was placed in the center of the oven. The oven was operated at maximum output power for 120 seconds. Then the temperature of the water re-measured.

### Frequency Measurements

Following the above test, after operating the oven long enough to assure that stable operating temperature were obtained, the operating frequency was monitored as the input voltage was varied between 80 to 125 percent of the nominal rating. And the load quantity was reduced by evaporation to approximately 20 % of the original quantity with nominal rating.

# **DESCRIPTION OF TESTS**

## **Conducted Emissions**

The Line conducted emission test facility is located inside a 4 x 7 x 2.5 meter shielded enclosure.

It is manufactured by EM engineering. The shielding effectiveness of the shielded room is in accordance with MIL-STD-285 or NSA 65-6.

A 1 m X 1.5 m wooden table 0.4 m height is placed 0.4 m away from the vertical wall and 1.5 m away from the side of wall of the shielded room

Kyoritsu (KNW-408) of the 50ohm/50uH Line Impedance Stabilization Network (LISN) is bonded to the shielded room.

The EUT is powered from the Kyoritsu LISN.

Power to the LISN is filtered by high-current high insertion loss Power line filters.

The purpose of filter is to attenuate ambient signal interference and this filter is also bonded to shielded enclosure.

All electrical cables are shielded by tinned copper zipper tubing with inner diameter of 1/2". If DC power device, power will be derived from the source power supply it normally will be powered from and this supply lines will be connected to the LISN,

All interconnecting cables more than 1 meter were shortened by non inductive bundling (serpentine fashion) to a 1 meter length.

Sufficient time for EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer to determine the frequency producing the maximum EME from the EUT. The spectrum was scanned from 150 kHz to 30MHz with 20m sec sweep time.

The frequency producing the maximum level was re-examined using the EMI test receiver. (Rohde & Schwarz ESCS30).

The detector function were set to CISPR quasi-peak mode & average mode.

The bandwidth of receiver was set to 9 kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each EME emission.

Each EME reported was calibrated using the R&S signal generator.

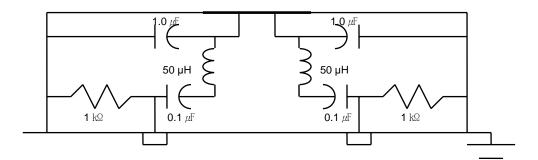


Fig. 2. LISN Schematic Diagram

# **DESCRIPTION OF TESTS**

## **Radiated Emissions**

Preliminary measurement were made indoors at 3 meter using broad band antennas, broadband amplifier, and spectrum analyzer to determine the frequency producing the maximum EME. Appropriate precaution was taken to ensure that all EME from the EUT were maximized and investigated. The Technology configuration, clock speed, mode of operation or video resolution, turntable azimuth with respect to the antenna was note for each frequency found. The spectrum was scanned from 0.15 to 30 MHz using Loop Antenna (EMCO, 6502) and from 30 to 1000 MHz using Biconical log Antenna(ARA, LPB-2520/A).

Above 1 GHz, Double Ridged Broadband Horn antenna (Schwarzbeck, BBHA 9120 D) was used.

Final Measurements were made indoors at 3 m using Loop Antenna (EMCO, 6502) for measurement from 0.15 to 30 MHz and made outdoors at 10 m using Trilog-Broadband Antenna (Shwarzbeck, VULB9168) for measurement from 30 MHz to 1000 MHz and made indoors at 3 m using Double Ridged Broadband Horn antenna (Schwarzbeck, BBHA 9120 D) for measurement from 1 GHz to 25 GHz.

Each frequency found during pre-scan measurements was reexamined and investigated using EMI test receiver. (ESCS30)

The detector function were set to CISPR quasi-peak and peak mode and the bandwidth of the receiver were set to 120 kHz and 1 MHz depending on the frequency or type of signal. The half wave dipole antenna was tuned to the frequency found during preliminary radiated measurements.

The EUT support equipment and interconnecting cables were re configured to the setup producing the maximum emission for the frequency and were placed on top of a 0.8 m high non- metallic 1.0 X 1.5 meter table.

The EUT, support equipment and interconnecting cables were re-arranged and manipulated to maximize each EME emission.

The EUT is rotated about its vertical axis on the turntable, and the polarization and height of the receiving antenna are varied to obtain the highest field strength on the particular frequency under observation.

Each EME reported was calibrated using the R/S signal generator.

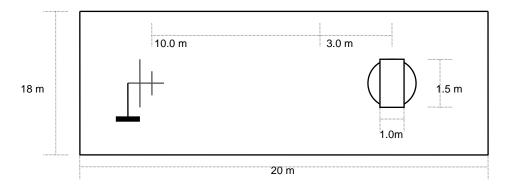


Fig. 3. Dimensions of Outdoor Test Site

## **Radiation Hazard**

Probe Location	Maximum Leakage [mW/Cm2]	Limit [mW/Cm2]
Α	0.2	1.00
В	0.4	1.00
С	0.1	1.00
D	0.1	1.00
All others	0.3	1.00

### Input Power Measurement

Operation mode	P rated (W)	P (W)	dP (%)	Required dP (%)
Power Input	1600	1610	0.6	+ 15 %

## **RF Output Power Measurement**

Quantity of	Starting	Final	Elapsed Time	RF Power
Water	Temperature	Temperature	•	
[ml]	[Centigrade]	[Centigrade]	[seconds]	[watts]
1000	10.2	38.7	120	995

RF Power = \_\_\_\_

(4.187 Joules/Cal) x (Volume in ml) x (Temp. Rise) Time in seconds

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Tested by : C. S. Choi

### **Operating Frequency measurements**

	U	[ R	oom Temperature : 21.0 $^\circ C$ ]
Line Voltage Variation (Vac)	*)Pole	Frequency [MHz]	Allowed Tolerance for the ISM Band
_	Н	Lower : 2412	
00 (00%)	н	Upper : 2460	
96 (80%)	V	Lower : 2415	
	V	Upper : 2463	
	Н	Lower : 2416	
	Н	Upper : 2456	
108 (90%)	V	Lower : 2414	
	V	Upper : 2461	Lower : 2400MHz
	н	Lower : 2419	Upper : 2500MHz
	Н	Upper : 2459	
132 (110%)	V	Lower : 2417	
	V	Upper : 2462	
	н	Lower : 2424	
	н	Upper : 2473	
150 (125%)	V	Lower : 2417	
	V	Upper : 2469	

#### Frequency vs Line Voltage Variation Test

NOTE :

- 1. \*Pol. H =Horizontal V=Vertical
- 2. Initial load : 1000ml of water in the beaker.
- 3. Line voltage varied from 96Vac to 150Vac.
- 4. ISM Frequency : 2450MHz, Tolerance :  $\pm$ 50MHz

**RESULT : Pass** 

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Tested by : C. S. Choi

[ Room Temperature : 21.0						
Volume of water	*)Pole	Frequency	Allowed Tolerance for			
(cc)	), 010	[MHz]	the ISM Band			
	н	Lower : 2414				
1000	Н	Upper : 2463				
	V	Lower : 2419				
	V	Upper : 2461				
	Н	Lower : 2153				
800	н	Upper : 2469				
000	V	Lower : 2422				
	V	Upper : 2469				
	Н	Lower : 2429	_			
600	Н	Upper : 2474	Lower : 2400MHz			
000	V	Lower : 2426	Upper : 2500MHz			
	V	Upper : 2466				
	Н	Lower : 2415				
400	Н	Upper : 2463				
400	V	Lower : 2428				
	V	Upper : 2452				
	н	Lower : 2417				
200	н	Upper : 2465				
200	V	Lower : 2412				
	v	Upper : 2468				

### ► Frequency vs Load Variation Test

### NOTE :

1. \*Pol. H=Horizontal, V=Vertical

2. The water load was varied between 200cc to 1000cc.

3. Frequency was measured by using nominal voltage (AC120V).

4. ISM Frequency : 2450MHz, Tolerance :  $\pm$ 50MHz

**RESULT : Pass** 

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Tested by : C. S. Choi

### **Conducted Emissions**

#### FCC ID : C5F7NF1GMO100N

[Room Temperature : 23.2 °C							
Frequency	Level(dBµN)		Line	Limit	(dBµ∛)	Margi	n(dB)
(MHz)	Q-Peak	Average		Q-Peak	Average	Q-Peak	Average
1.60	44.3	19.7	Ν	56.0	46.0	11.7	26.3
2.89	37.8	10.1	N	56.0	46.0	18.2	35.9
11.72	30.6	9.9	N	60.0	50.0	29.4	40.1
13.86	31.3	12.7	N	60.0	50.0	28.7	37.3
14.15	29.5	10.9	N	60.0	50.0	30.5	39.1
28.79	28.4	8.9	N	60.0	50.0	31.6	41.1

\*) Correction factor was included to Test Level (dBuV)

NOTES:

- 1. Measurements using CISPR quasi-peak mode & average mode.
- 2. If no frequencies are specified in the tables, no measurement for quasi-peak or average was necessary.
- 3. See attached Plots.
- 4. Line : L =Line , N = Neutral
- 5. The limit for consumer device is on the FCC Part section 18.307(b).

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Tested by : C. S. Choi

Daewoo Electronics Corporation FCC ID: C5F7NF1GMO100N Page 12 of 45

## **Radiated Emissions**

### FCC ID : C5F7NF1GMO100N

▶ 0.15MHz ~ 30MHz

### [Room Temperature : 25.1 °C]

Frequency	Reading	Pol*	AF+CL+Amp	Result	Limit	Margin	
(MHz)	(dB <i>µ</i> N)	(H/V)	(dB)**	(dB <i>µ</i> ∛/m)	(dB <i>µ</i> 狄/m)	(dB)	
The level was under 20dB below limit.							

#### <Radiated Measurements at 3meters>

#### NOTES:

- 1. \*Pol. H =Horizontal V=Vertical
- 2. \*\*AF+CL+Amp. = Antenna Factor + Cable Loss + Amplifier.
- 3. Distance Correction factor : 20 \* log (300/3)=40dBuV/m
- 4. The limit at 300meters is 20 \* log (25 \* SQRT (RF Power/500))
- 5. All other emissions were measured while a 700ml load was placed in the center of the oven.
- 6. See attached Plots.
- 7. The limit for consumer device is on the FCC Part section 18.305.

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Tested by : C. S. Choi

### **Radiated Emissions**

### FCC ID : C5F7NF1GMO100N

### ▶ 30MHz ~ 1GHz

### [Room Temperature : 22.7 ℃]

Frequency	Reading	Pol*	AF+CL+Amp	Result	Limit	Margin
(MHz)	(dBμV)	(H/V)	(dB)**	(dB <i>µ</i> V/m)	(dB <i>µ</i> 狄/m)	(dB)
63.06	58.3	V	-13.9	44.4	60.94	16.5
65.08	57.4	V	-14.2	43.2	60.94	17.7
73.32	56.6	V	-15.6	41.0	60.94	19.9
78.20	63.4	V	-16.2	47.2	60.94	13.7
104.31	57.7	V	-14.7	43.0	60.94	17.9
112.37	64.8	V	-13.8	51.0	60.94	9.9

<Radiated Measurements at 10 meters>

NOTES:

1. \*Pol. H =Horizontal V=Vertical

2. \*\*AF+CL+Amp. = Antenna Factor + Cable Loss + Amplifier.

3. Distance Correction factor : 20 \* log (300/10) ≒30dBuV/m

4. The limit at 300meters is 20 \* log (25 \* SQRT (RF Power/500))

5. All other emissions were measured while a 700ml load was placed in the center of the oven.

6. If no frequencies are specified in the tables, no measurement for peak & average was necessary. 7. The limit for consumer device is on the FCC Part section 18.305.

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Tested by : C. S. Choi

Daewoo Electronics Corporation FCC ID: C5F7NF1GMO100N

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### **Radiated Emissions**

### FCC ID : C5F7NF1GMO100N

▶ 1 GHz ~ 25 GHz [Room Temperature : 24.7 ℃							
Frequency	Reading	Pol*	AF+CL+Amp	К	Limit	Results	Margin
(MHz)	(dB <i>µ</i> ∛)	(H/V)	(dB)**	(dB)***	(dB <i>µ</i> 狄/m)	(dB <i>µ</i> 狄/m)	(dB)
4100.00	31.0	V	2.64	40.44	70.94	33.64	37.30
4900.00	43.3	Н	4.58	40.00	70.94	47.88	23.06
7350.00	38.2	V	11.54	40.00	70.94	49.74	21.20
8350.00	32.0	V	11.20	40.00	70.94	43.20	27.74
8413.00	39.1	Н	11.20	40.00	70.94	50.30	20.64
8577.00	30.0	Н	11.80	40.00	70.94	41.80	29.14
9820.00	30.8	V	13.40	40.00	70.94	44.20	26.74
17180.00	31.6	V	20.47	40.00	70.94	52.07	18.87
17880.00	27.0	V	25.99	40.00	70.94	52.99	17.95

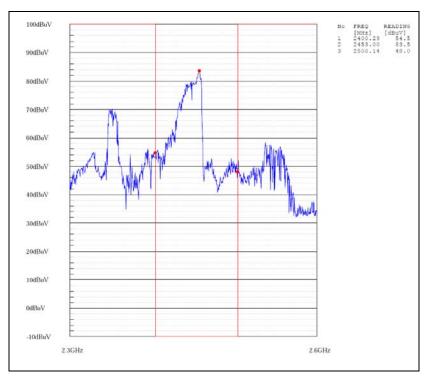
<Radiated Measurements at 3meters>

NOTES:

- 1. \* Pol. H =Horizontal V=Vertical
- 2. \*\* AF+CL+Amp. = Antenna Factor + Cable Loss + Amplifier.
- 3. Distance Correction factor : 20 \* log (300/3)=40dBuV/m
- 4. The limit at 300meters is 20 \* log (25 \* SQRT (RF Power/500))
- 5. Load for measurement of radiation on second and third harmonic : Two loads, one of 700ml and the other of 300ml, of water were used. Each load was tested both with the beaker located in the center of the oven and with it in the corner.
- 6. The test was performed at peak detector mode with average.
- 7. If no frequencies are specified in the tables, no measurement for peak with RBW 1MHz & VBW 10Hz.
- 8. The limit for consumer device is on the FCC Part section 18.305.

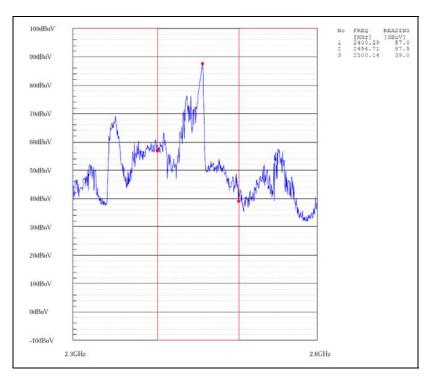
Tested by : C. S. Choi





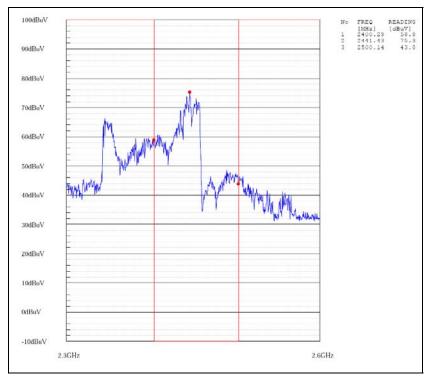
Frequency vs Line Voltage Variation Test

Horizontal (96V, 1000cc)



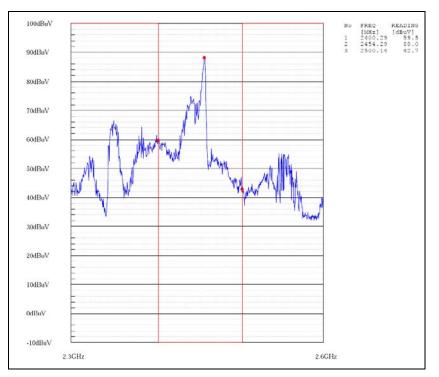
Vertical (96V, 1000cc)





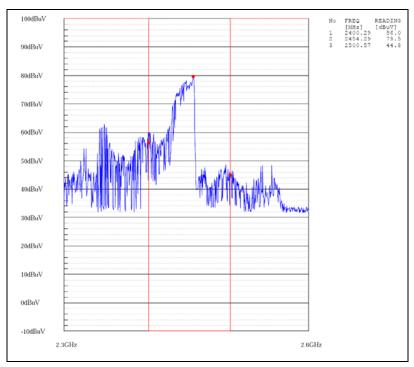
Frequency vs Line Voltage Variation Test

Horizontal (108V, 1000cc)



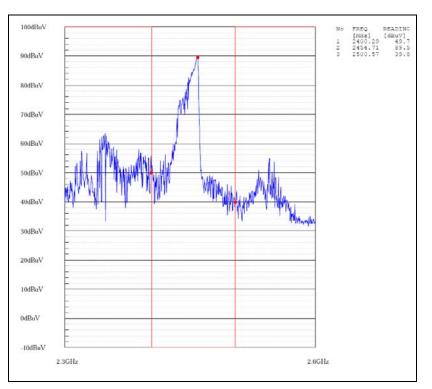
#### Vertical (108V, 1000cc)





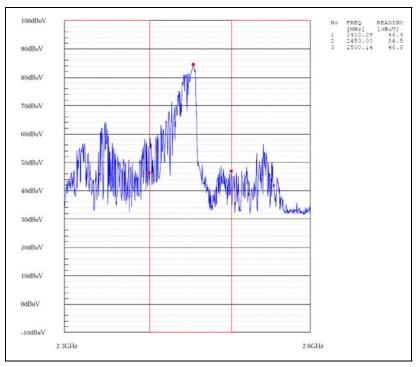
Frequency vs Line Voltage Variation Test

Horizontal (132V, 1000cc)



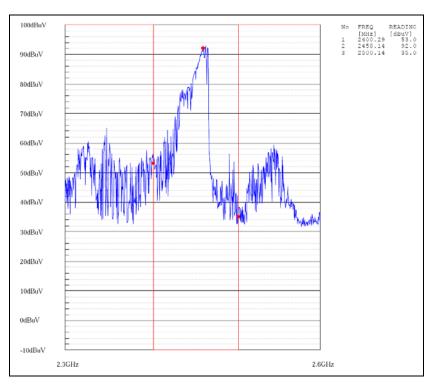
Vertical (132V, 1000cc)





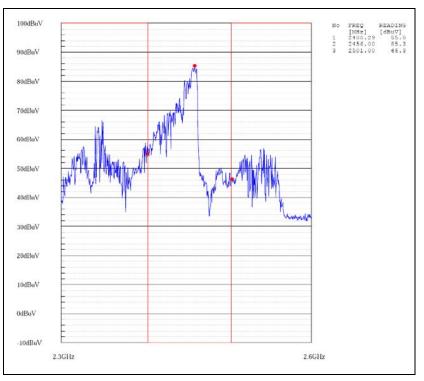
Frequency vs Line Voltage Variation Test

Horizontal (150V, 1000cc)



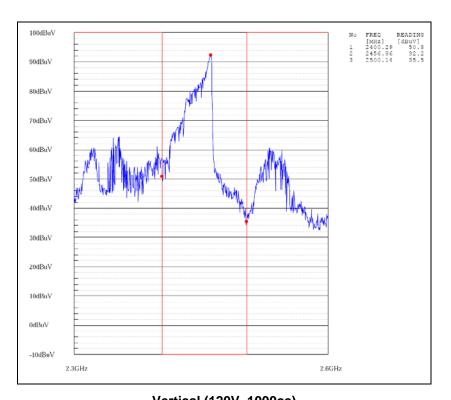
Vertical (150V, 1000cc)





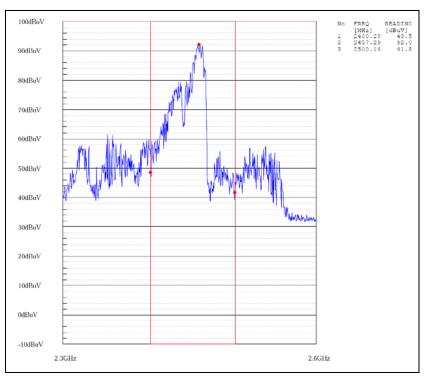
Frequency vs Load Variation Test

Horizontal (120V, 1000cc)



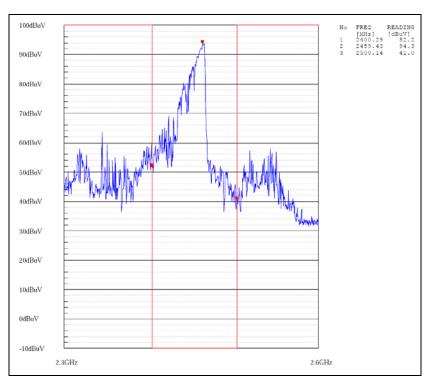
Vertical (120V, 1000cc) Daewoo Electronics Corporation FCC ID: C5F7NF1GMO100N





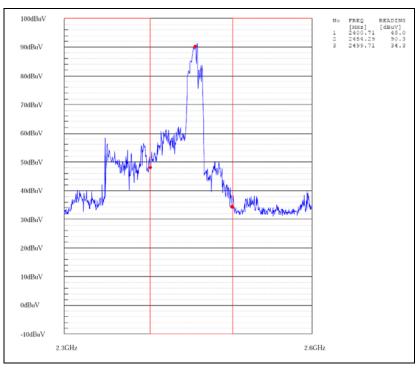
Frequency vs Load Variation Test

Horizontal (120V, 800cc)



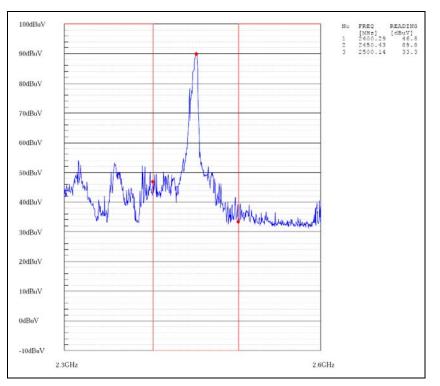
#### Vertical (120V, 800cc)





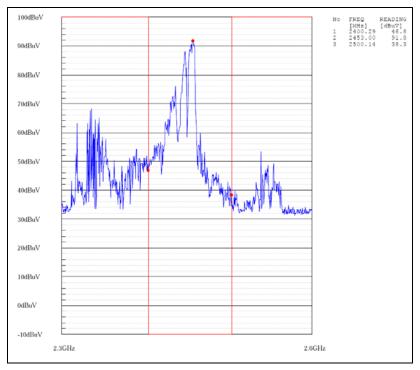
Frequency vs Load Variation Test

Horizontal (120V, 600cc)



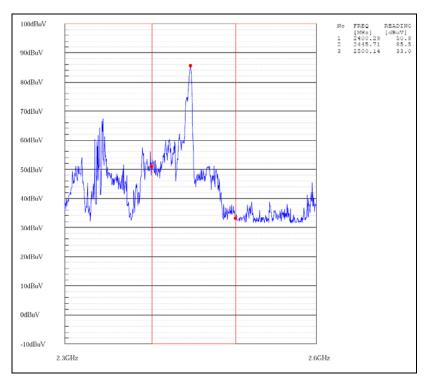
Vertical (120V, 600cc)





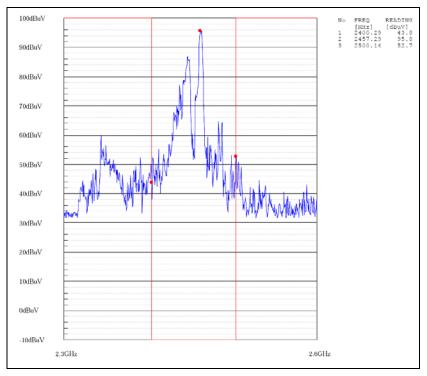
Frequency vs Load Variation Test

Horizontal (120V, 400cc)



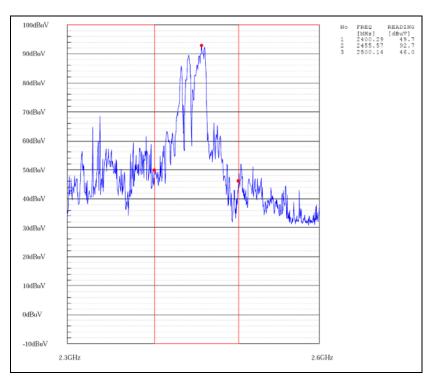
Vertical (120V, 400cc)





### Frequency vs Load Variation Test

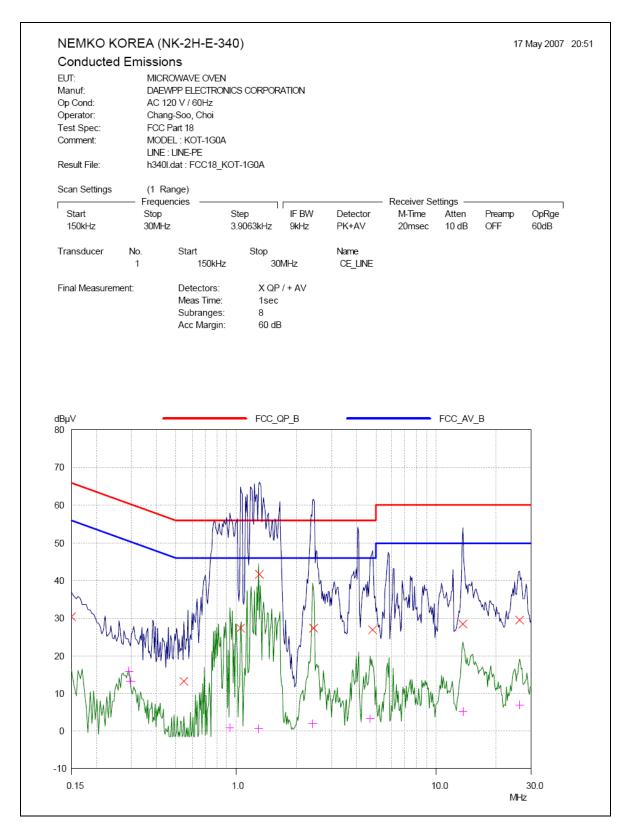
Horizontal (120V, 200cc)



Vertical (120V, 200cc)

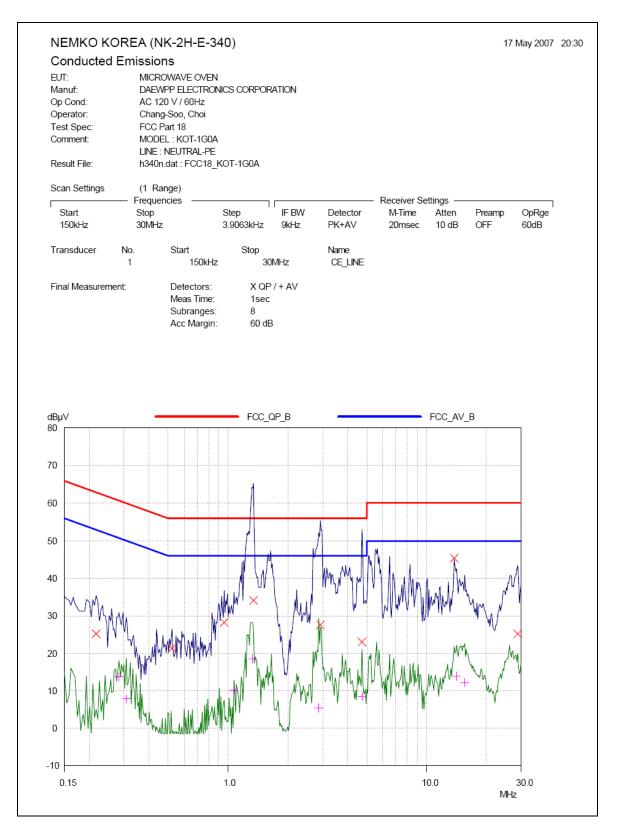


### • Conducted Emission at the Mains port (Line)

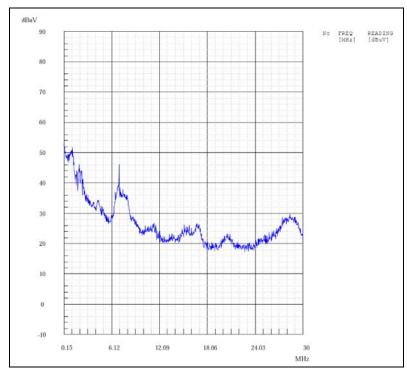




#### • Conducted Emission at the Mains port (Neutral)

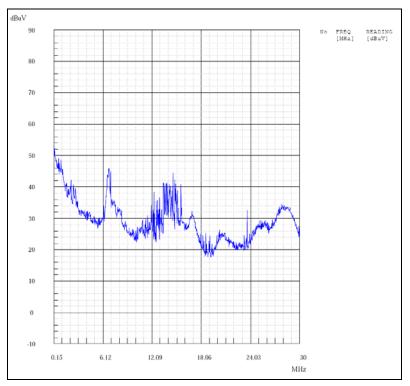






Radiated Emission (0.15MHz ~ 30MHz)





#### (Vertical)

Daewoo Electronics Corporation FCC ID: C5F7NF1GMO100N

# ACCURACY OF MEASUREMENT

The Measurement Uncertainties stated were calculated in accordance with the requirements of NIST Technical Note 1297 with the confidence level of 95%

Contribution	Probability Distribution	Uncertainty(+/-dB)	
Antenna Factor	Normal (k=2)	± 0.5	
Cable Loss	Normal (k=2)	$\pm 0.04$	
Receiver Specification	Rectangular	$\pm 2.0$	
Antenna directivity		± 1.0	
Antenna Factor variation with Height			
Antenna Phase Center Variation	Rectangular		
Antenna Factor Frequency Interpolation			
Measurement Distance Variation			
Site Inperfections	Rectangular	$\pm 2.0$	
Mismatch:Receiver VRC ri=0.3			
Antenna VRC rR=0.1(Bi)0.4(Lp)	U-Shaped	+ 0.25 / - 0.26	
Uncertainty Limits 20Log(1+/-ri rR)			
System Repeatibilty	Std.deviation	$\pm 0.05$	
Repeatability of EUT	-	-	
Combined Standard Uncertainty	Normal	± 1.77	
Expended Uncertainty U	Normal (k=2)	± 3.5	

### 1. Radiation Uncertainty Calculation

## 2. Conducted Uncertainty Calculation

Contribution	Probability Distribution	Uncertainty(+/-dB)	
Receiver Specification	Normal (k=2)	$\pm 2.0$	
LISN coupling spec.	Normal (k=2)	$\pm 0.4$	
Cable and input attenuator cal.	Rectangular	$\pm 0.4$	
Mismatch:Receiver VRC ri=0.3			
LISN vrc rg=0.1	U-Shaped	$\pm 0.26$	
Uncertainty Limits 20Log(1+/-ri rR)			
System Repeatibilty	Std.deviation	$\pm 0.68$	
Repeatability of EUT	-	-	
Combined Standard Uncertainty	Normal	± 1.18	
Expended Uncertainty U	Normal (k=2)	± 2.4	

# LIST OF TEST EQUIPMENT

No.	Instrument	Manufacturer	Model	Serial No.	Calibration Date	Calibration Interval
1	*Test Receiver	R & S	ESCS 30	833364/020	Aug. 07 2007	1year
2	*Test Receiver	R & S	ESCS 30	100302	Dec. 04 2006	1year
3	*Amplifier	НР	8447F	2805A03406	May. 02 2007	1year
4	*Amplifier	НР	8447F	2805A03351	Oct. 25 2006	1year
5	*Pre Amplifier	НР	8449B	3008A00107	Mar. 06 2007	1year
6	Spectrum Analyzer	Advantest	R3265A	45060401	Dec. 04 2006	1year
7	*Spectrum Analyzer	НР	8568B	1912A00573	Oct. 25 2006	1year
8	*PSA Series Spectrum Analyzer	Agilent	E4440A	MY44022567	Dec. 05 2006	1year
9	*Microwave Survey Meter	Holaday Industrie	HI-1801	N/A	Sep. 07 2006	1year
10	*Loop Antenna	ЕМСО	EMCO/6502	8911-2436	Dec. 13 2006	1year
11	*Biconical Log Antenna	ARA	LPB-2520/A	1180	Feb. 28 2007	1year
12	*Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-257	May. 15 2007	1year
13	*Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA 9120 D	9120D-474	May. 09 2007	1year
14	Signal Generater	R & S	SMP02	833286/003	Aug. 07 2006	1year
15	LISN	R & S	ESH3-Z5	833874/006	Nov. 02 2006	1year
16	*LISN	Kyoritsu	KNW-408	8-1058-2	Dec. 05 2006	1year
17	*Position Controller	DAEIL EMC	N/A	N/A	N/A	N/A
18	*Turn Table	DAEIL EMC	N/A	N/A	N/A	N/A
19	*Antenna Mast	DAEIL EMC	N/A	N/A	N/A	N/A
20	*Anechoic Chamber	EM Eng.	N/A	N/A	N/A	N/A
21	*Shielded Room	EM Eng.	N/A	N/A	N/A	N/A
22	*Anechoic Chamber	SY Corporation	N/A	N/A	N/A	N/A
23	*Shielded Room	SY Corporation	N/A	N/A	N/A	N/A

\*) Test equipment used during the test



APPENDIX D – SCHEMATIC DIAGRAM



APPENDIX E – USER'S MANUAL



APPENDIX F – BLOCK DIAGRAM