



**CENTRE OF TESTING SERVICE  
INTERNATIONAL**

**OPERATE ACCORDING TO ISO/IEC 17025**

# **FCC ID /IC TEST REPORT**

**TEST REPORT NUMBER : CGZ3111229-01151-EFI**



**CENTRE OF TESTING SERVICE CO., LTD.**

Building F, Dachuang industrial park, No.379, Zhongshan Dadao,  
Guangzhou, China.



TEST REPORT For FCC ID/IC

Report Reference No. .... CGZ3111229-01151-EFI

Date of issue..... 16 Jan 2012

Testing Laboratory Name ..... CENTRE OF TESTING SERVICE CO., LTD.

Address..... Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China.

Testing location/ procedure ..... Full application of Harmonised standards ☒

Partial application of Harmonised standards ☐

Other standard testing method ☐

Applicant's name..... Thermor Ltd.

Address..... 16975 Leslie Street, Newmarket, ON L3Y 9A1

Test specification .....

Standard ..... 47 CFR PART 15 OCT, 2011, ANSI C63.4-2009,  
RSS-210 Issue 8,RSS-Gen Issue 3

Test Report Form No. .... CTSEMC-1.0

TRF Originator..... CENTRE OF TESTING SERVICE CO., LTD.

Master TRF..... Dated 2009-01

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Test item description ..... 5 DAY WEATHER FORECASTER

Trade Mark ..... National Geographic/Bios Weather

Manufacturer..... FUZHOU EVERTOP ELECTRONIC CO.,LTD.

Model/Type reference..... 340NC

Ratings..... DC 5V By PC for (TX)

Operating Frequency..... 433.92 MHz

Result ..... Positive

Compiled by:

Violet Lee / File administrators

Supervised by:

Tom Xiao / Technique principal

Approved by:

Vincent.Yao / Manager

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## FCC ID -- T E S T R E P O R T

<b>Test Report No. :</b>	<b>CGZ3111229-01151-EFI</b>	<u>16 Jan 2012</u> Date of issue
--------------------------	-----------------------------	-------------------------------------

Type / Model.....	340NC
EUT.....	5 DAY WEATHER FORECAS TER
<b>Applicant</b> .....	Thermor Ltd.
Address.....	16975 Leslie Street, Newmarket, ON L3Y 9A1
Telephone.....	+800-387-8520
Fax.....	+886-947-1034
Contact.....	Joanna Biniek
<b>Manufacturer</b> .....	FUZHOU EVERTOP ELECTRONIC CO., LTD.
Address.....	No.46,Bai Hua Zhou Rd, Pushang Industrial Area, Fuzhou, Fujian, China
Telephone.....	+ 86-591-83742688
Fax.....	+ 86-591-83766488
Contact.....	Nancy
<b>Factory</b> .....	FUZHOU EVERTOP ELECTRONIC CO., LTD.
Address.....	No.46,Bai Hua Zhou Rd, Pushang Industrial Area, Fuzhou, Fujian, China
Telephone.....	+ 86-591-83742688
Fax.....	+ 86-591-83766488
Contact.....	Nancy

**Test Result** according to the standards on page 3: **Positive**

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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## 1. TEST STANDARDS

The tests were performed according to following standards:

- 47 CFR PART 15 OCT, 2011
- ANSI C63.4-2009
- RSS-210 Issue 8
- RSS-Gen Issue 3

## 2. SUMMARY

### 2.1 GENERAL REMARKS

Date of receipt of test sample	13 Jan 2012
Testing commenced on	13 Jan~16 Jan 2012
Testing concluded on	16 Jan 2012

### 2.2 FINAL ASSESSMENT

The FCC requirements pertaining to the technical standards and tested operation modes are

- - fulfilled.
- ☐ - **not** fulfilled.

The equipment under test

- - fulfils the FCC requirements cited on page 1.
- ☐ - **does not** fulfil the FCC requirements cited on page 1.

### 3. EQUIPMENT UNDER TEST

#### 3.1 Power supply system utilised

Power supply voltage : ☒ DC 5.0V By PC for (TX)

#### 3.2 Short description of the Equipment under Test (EUT)

Number of tested samples: 1

Serial number: Prototype

#### 3.3 EUT operation mode

The equipment under test was operated during the measurement under the following conditions:  
For Radiation emission:

- ☒ -TX +X position
- ☐ -TX +Y position
- ☐ -TX +Z position

Operation mode 1: TX +X position

Note: X position of EUT is the worst case, so only these test results be recorded in the test report.

### 3.4 EUT configuration

#### 3.4.1. Description of configuration (EUT)

Description	:	5 DAY WEATHER FORECAS TER
Model Number	:	340NC
Operation frequency	:	433.92 MHz
Radio Technology	:	FSK
Modulation Technology	:	FSK modulation
Antenna	:	PCB Antenna

#### 3.4.2. Tested Supporting System Details

##### 3.4.2. 1 Notebook

M/N	:	E40
S/N	:	05788DC
Manufacturer	:	IBM
Power Cord	:	Unshielded, Detachabled, 1.8m , 3Pin
Certificate	:	DOC

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## 4. TEST ENVIRONMENT

### 4.1 Address of the test laboratory

Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China

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### 4.2 Test facility

The test facility is recognized, certified, or accredited by the following organizations:

#### CNAS-Lab Code: L3394

CENTRE OF TESTING SERVICE CO., LTD has been assessed and proved to be in compliance with CNAS-CL01: 2006 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

#### IC-Registration No.: 8374A

The 3m Alternate Test Site of CENTRE OF TESTING SERVICE CO., LTD has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 8374A on June 6, 2011 .

#### FCC-Registration No.: 971995

CENTRE OF TESTING SERVICE CO., LTD, EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration No.791995, July 21, 2009.

### 4.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35 ° C
Humidity:	25~75 %
Atmospheric pressure:	86~106 kPa

### 4.4 Definitions of symbols used in this test report

- - The black square indicates that the listed condition, standard or equipment is applicable for this report.
- - The empty square indicates that the listed condition, standard or equipment is **not** applicable for this report.

### 4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the CTS quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

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#### 4.6 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Conduction disturbance	150kHz~30MHz	$\pm 1.22\text{dB}$	(1)
Power disturbance	30MHz~300MHz	$\pm 1.38\text{dB}$	(1)
Radiation emission (3m)	30MHz~300MHz	$\pm 3.14\text{dB}$	(1)
	300MHz~1000MHz	$\pm 3.18\text{dB}$	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .

## 5. Summary of standards and results

### 5.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Results
Conducted Emission Test	ANSI C63.4-2009 FCC Part 15 C: 15.207 RSS-Gen:7.2.4	PASSED
Radiated Emission Test	ANSI C63.4-2009 FCC Part 15 C: 15.231 RSS-Gen:7.2 RSS-210 A5	PASSED
20 dB Bandwidth Test	ANSI C63.4-2009 FCC Part 15 C: 15.231 RSS-Gen:4.6.3	PASSED
Stop Transmitting Time Test	ANSI C63.4-2009 FCC Part 15 C: 15.231	PASSED
99% Bandwidth	RSS-210 Annex 8 RSS-Gen 4.6.1	PASSED
N/A is an abbreviation for Not Applicable.		

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## 6. Power Line Conducted Emission Test

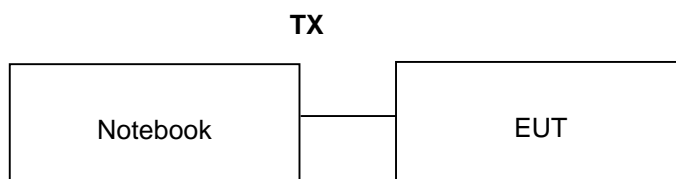
### 6.1.1 Description of the test location

Test location : Shielding Room

### 6.1.2 Test Equipment

Conducted Disturbance					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESHS10	842884/012	2011/12
2	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/025	2011/12
3	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/026	2011/12
4	Pulse Limiter	ROHDE & SCHWARZ	ESHSZ2	100301	2011/12
5	EMI Test Software	ROHDE & SCHWARZ	ESK1	N/A	2011/12

### 6.2.1 Block Diagram of Test Setup



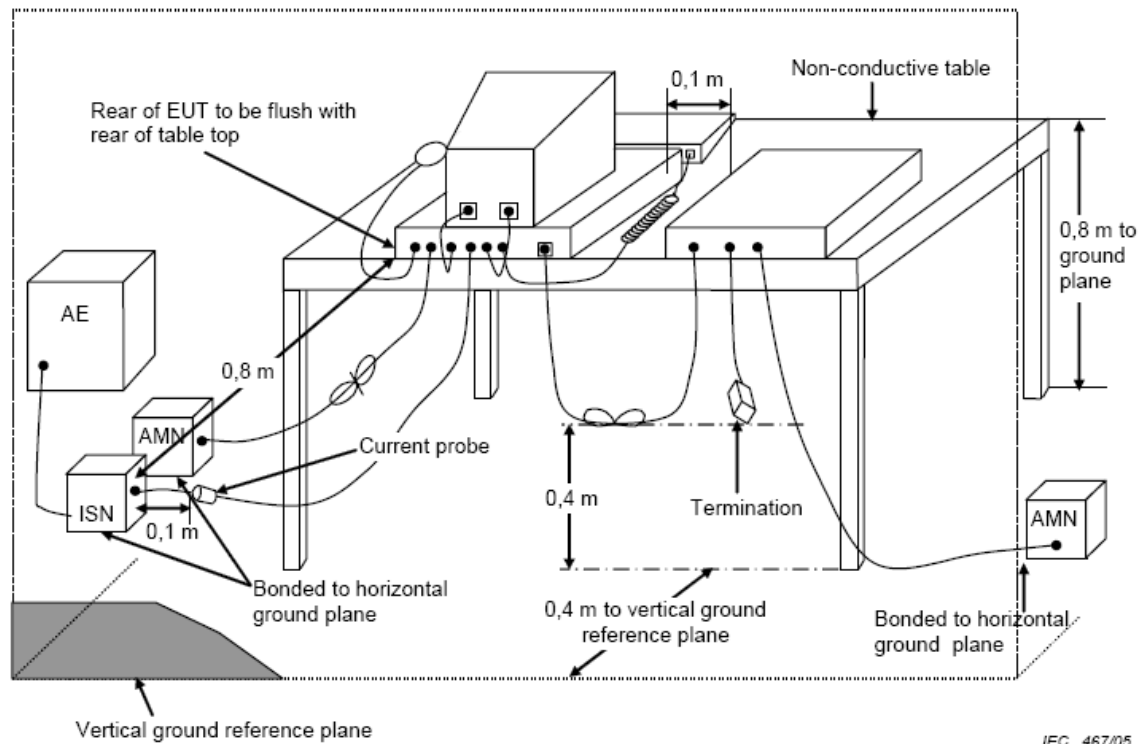
(EUT: 5 DAY WEATHER FORECASTER)

### 6.2.2 Description of the test set-up

#### 6.1.2.1 Operating Condition

The EUT is engraving during the test, and the results of the maximum emanation are recorded

#### 6.1.2.2 Block Diagram of Test Setup



### 6.2.3 Limits of disturbance (Class B)

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Note: (1) The tighter limit shall apply at the edge between two frequency bands.

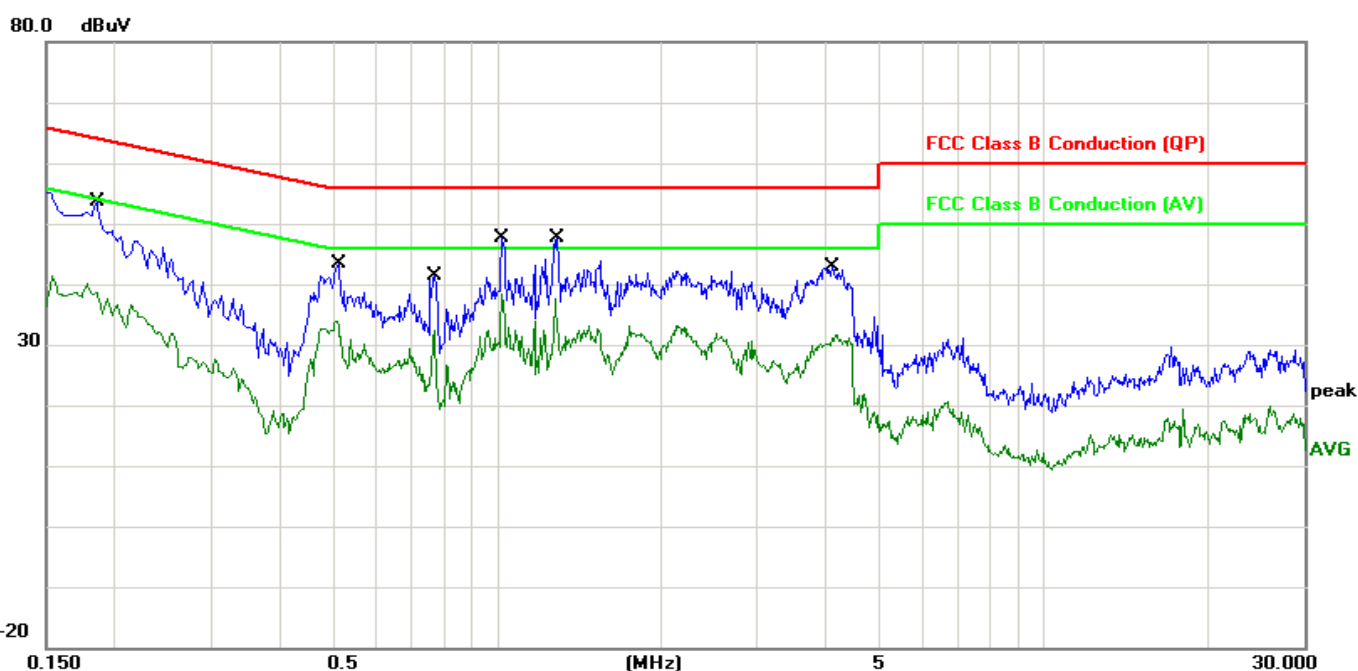
#### 6.2.4 Power Line Conducted Emission Test Results

## Passed Test Result



Channel:	TX	Result:	■ - passed
Test point:	L1		□ - not passed
Frequency range:	0.15MHz~30MHz		

EUT	5 DAY WEATHER FORECAS TER
Operating Condition	DC 5.0V
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test Date:	13 Jan~16 Jan 2012
Operator	Peter
MODEL NO	340NC



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1860	9.99	38.51	48.50	64.21	-15.71	QP
2	0.1860	9.99	27.08	37.07	54.21	-17.14	AVG
3	0.5140	10.02	30.00	40.02	56.00	-15.98	QP
4	0.5140	10.02	23.50	33.52	46.00	-12.48	AVG
5	0.7700	10.10	29.42	39.52	56.00	-16.48	QP
6	0.7700	10.10	21.96	32.06	46.00	-13.94	AVG
7	1.0260	10.12	34.19	44.31	56.00	-11.69	QP
8	1.0260	10.12	26.54	36.66	46.00	-9.34	AVG
9	1.2900	10.11	33.60	43.71	56.00	-12.29	QP
10	1.2900	10.11	23.11	33.22	46.00	-12.78	AVG
11	4.0940	10.08	25.87	35.95	56.00	-20.05	QP
12	4.0940	10.08	16.53	26.61	46.00	-19.39	AVG

Note:Level=Reading+Factor. Margin=Limit-Level.

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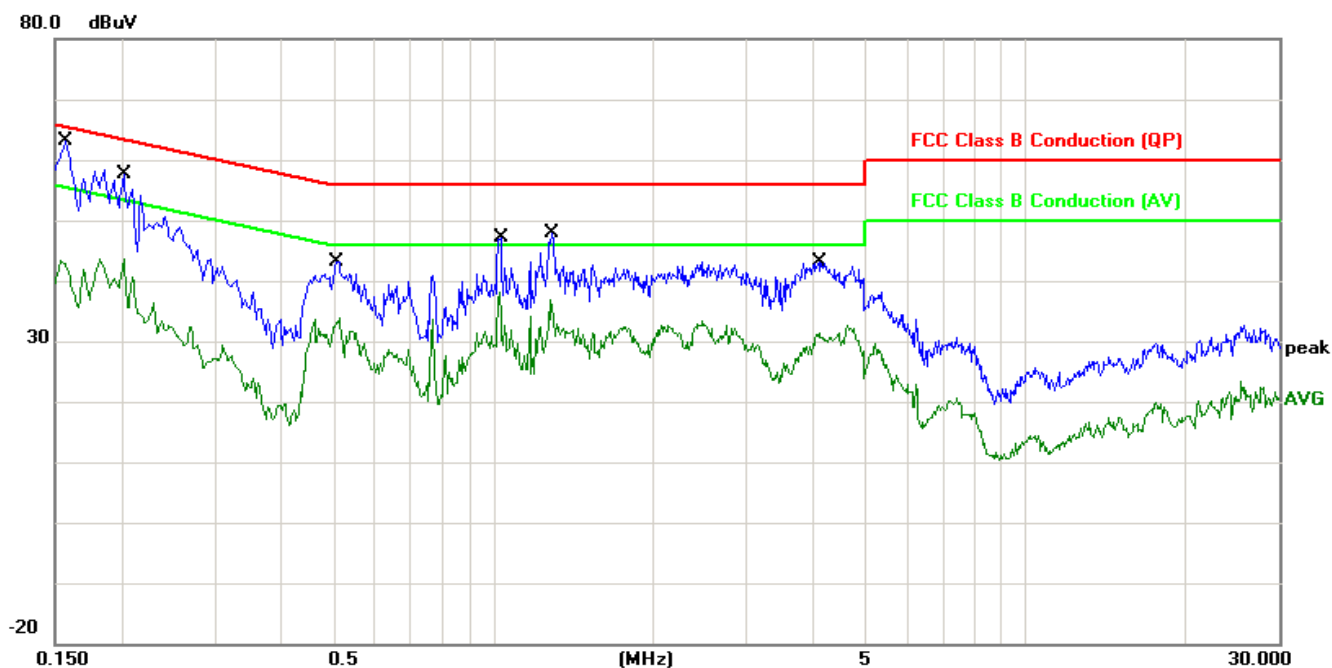
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Channel:	TX	Result:	■ - passed
Test point:	L2		□ - not passed
Frequency range:	0.15MHz~30MHz		

EUT	5 DAY WEATHER FORECAS TER
Operating Condition	DC 5.0V
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test Date:	13 Jan~16 Jan 2012
Operator	Peter
MODEL NO	340NC



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1580	9.99	44.73	54.72	65.57	-10.85	QP
2	0.1580	9.99	25.14	35.13	55.57	-20.44	AVG
3	0.2020	9.99	44.83	54.82	63.53	-8.71	QP
4	0.2020	9.99	28.24	38.23	53.53	-15.30	AVG
5	0.5100	10.01	29.08	39.09	56.00	-16.91	QP
6	0.5100	10.01	21.65	31.66	46.00	-14.34	AVG
7	1.0340	10.12	33.14	43.26	56.00	-12.74	QP
8	1.0340	10.12	23.12	33.24	46.00	-12.76	AVG
9	1.2900	10.11	33.64	43.75	56.00	-12.25	QP
10	1.2900	10.11	24.52	34.63	46.00	-11.37	AVG
11	4.0980	10.08	27.42	37.50	56.00	-18.50	QP
12	4.0980	10.08	18.01	28.09	46.00	-17.91	AVG

Note: Level=Reading+Factor. Margin=Limit-Level.

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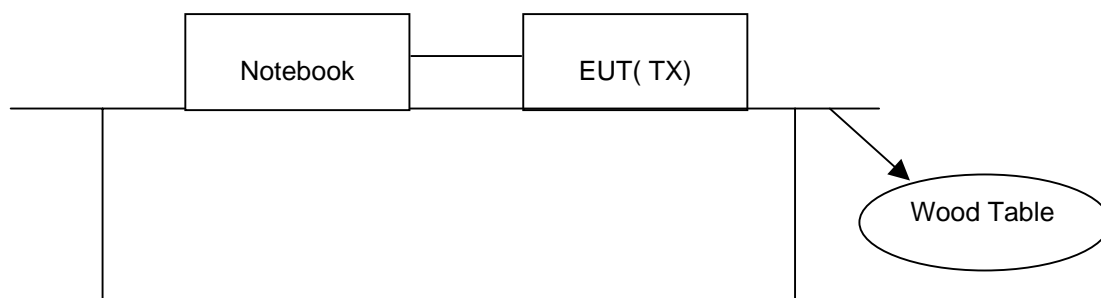
## 7. Radiated disturbance (electric field)

### 7.1.Test Equipment

Radiated disturbance (electric field)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100868	2011/12
2	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2011/12
3	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2011/12
4	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2011/12
5	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2011/12
6	Loop Antenna	A.R.A	PLA-1030/B	1030	2011/12

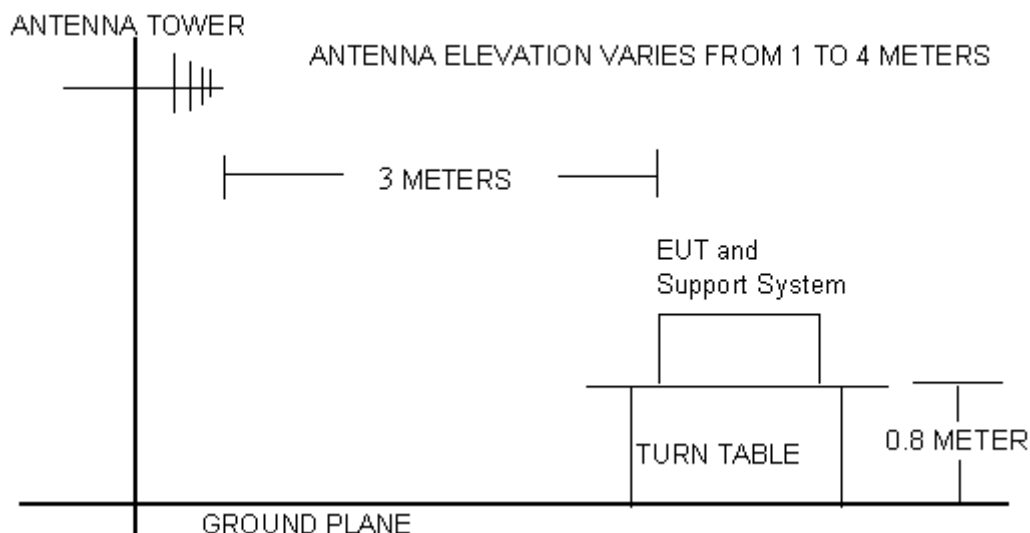
### 7.2.Block Diagram of Test Setup

#### 7.2.1 Block Diagram of connection between EUT and simulators



(EUT:5 DAY WEATHER FORECASTER)

## 7.2.2 Anechoic Chamber Setup Diagram



## 7.3. Radiated Emission Limit Standard: FCC 15.231,209

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
0.009 ~ 0.490	3	---	---
0.490 ~ 1.705	3	---	---
1.705 ~ 30	3	----	49.5
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Other: 74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

- Remark:
- (1) Emission level  $\text{dB}\mu\text{V} = 20 \log$  Emission level  $\mu\text{V/m}$
  - (2) The smaller limit shall apply at the cross point between two frequency bands.
  - (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

## 7.4. Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2009 on radiated emission Test.

The frequency range from 30MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 120kHz RBW below 1GHz and a Peak and Average detector with 1MHz RBW above 1GHz,

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All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 300kHz VBW below 1GHz and a Peak detector with 1MHz VBW above 1GHz, A average detector be caluclated from peak value using duty cycle factor Both 30MHz to 1000MHz and above 1GHz

Pretest x, y, z position of EUT, final, select the worst case x position test and record the test results in the report.

The test modes (TX Mode) is tested in Anechoic Chamber and all the scanning waveforms are reported on section 7.5

## 7.5.Radiated Emission Test Results

**PASSED.**

The frequency range from 9KHz to 30MHz,30MHz to 230MHz, 230MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

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Channel:	433.92 MHz (TX)	Result:	<input checked="" type="checkbox"/> - passed
Frequency range:	9KHz~30MHz		<input type="checkbox"/> - not passed

EUT	5 DAY WEATHER FORECAS TER
Operating Condition	DC 5.0V
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test Date:	13 Jan~16 Jan 2012
Operator	Peter
MODEL NO	340NC

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1.9323	13.27	30.17	43.44	49.50	-6.06	QP
2	3.7954	13.56	31.92	45.48	49.50	-4.02	QP
3	5.4783	13.82	23.05	36.87	49.50	-12.63	QP
4	9.0844	14.38	30.37	44.75	49.50	-4.75	QP
5	13.8325	14.23	21.75	35.98	49.50	-13.52	QP
6	23.7494	13.90	4.68	18.58	49.50	-30.92	QP

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Channel:	433.92 MHz (TX)	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Horizontal		<input type="checkbox"/> - not passed
Frequency range:	30-230MHz		

EUT	5 DAY WEATHER FORECAS TER
Operating Condition	DC 5.0V
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test Date:	13 Jan~16 Jan 2012
Operator	Peter
MODEL NO	340NC

Fundamental and Harmonics Average Result							
Frequency (MHz)	Factor (dB/m)	Reading (dBμV)	Duty Cycle Correction Factor(dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
433.9200	-17.77	92.51	----	74.74	92.87	-18.13	Peak
433.9200	-17.77	92.51	-9.75	64.99	72.87	-7.88	AV

Below 1GHz

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBμV/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	144.7094	-18.84	56.22	37.38	43.50	-6.12	QP
2	192.8657	-14.08	48.74	34.66	43.50	-8.84	QP
3	241.0220	-15.24	57.42	42.18	46.00	-3.82	QP
4	289.1784	-9.30	45.32	36.02	46.00	-9.98	QP
5	206.3527	7.32	28.29	35.61	43.50	-7.89	QP
6	485.1703	-11.90	41.40	29.50	46.00	-16.50	QP
7	621.2425	-9.19	36.85	27.66	46.00	-18.34	QP
8	768.5371	-7.98	37.10	29.12	46.00	-16.88	QP
9	868.1363	-9.67	61.89	52.22	60.83	-10.61	QP

Note:Level=Reading+Facytor. Margin= Level- Limit.  
Average Level=Peak level + Duty Factor



Above 1GHz

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBμV/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	1296.593	13.76	39.05	52.81	74.00	-21.19	peak
2	1296.593	13.76	26.57	40.33	54.00	-13.67	AVG
3	1593.186	14.93	36.86	51.79	74.00	-22.21	peak
4	1593.186	14.93	24.30	39.23	54.00	-14.77	AVG
5	2170.341	16.86	35.20	52.06	74.00	-21.94	peak
6	2170.341	16.86	24.03	40.89	54.00	-13.11	AVG
7	2995.992	20.34	33.67	54.01	74.00	-19.99	peak
8	2995.992	20.34	22.16	42.50	54.00	-11.50	AVG
9	3517.034	20.79	32.60	53.39	74.00	-20.61	peak
10	3517.034	20.79	20.43	41.22	54.00	-12.78	AVG
11	4671.343	22.64	30.31	52.95	74.00	-21.05	peak
12	4671.343	22.64	18.33	40.97	54.00	-13.03	AVG

Note:Level=Reading+Facytor.    Margin= Level- Limit.

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Channel:	433.92 MHz (TX)	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Vertical		<input type="checkbox"/> - not passed
Frequency range:	30-230MHz		

EUT	5 DAY WEATHER FORECASTER
Operating Condition	DC 5.0V
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test Date:	13 Jan~16 Jan 2012
Operator	Peter
MODEL NO	340NC

Fundamental and Harmonics Average Result							
Frequency (MHz)	Factor (dB/m)	Reading (dBμV)	Duty Cycle Correction Factor(dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
433.9200	-17.77	96.00	----	78.23	92.87	-14.64	Peak
433.9200	-17.77	96.00	-9.75	68.48	72.87	-4.39	AV

Below 1GHz

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBμV/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	40.2806	-28.02	57.21	29.19	40.00	-10.81	QP
2	94.9299	-25.19	50.10	24.91	43.50	-18.59	QP
3	120.3607	-19.93	47.49	27.56	43.50	-15.94	QP
4	144.7094	-18.84	57.34	38.50	43.50	-5.00	QP
5	330.8617	-17.51	50.23	32.72	46.00	-13.28	QP
6	775.5511	-8.13	42.59	34.46	46.00	-11.54	QP
7	799.3988	-10.72	43.12	32.40	46.00	-13.60	QP
8	868.1363	-9.67	64.75	55.08	60.83	-5.75	QP

Note:Level=Reading+Factor. Margin= Level- Limit.  
Average Level=Peak level + Duty Factor



Above 1GHz

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBμV/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	1296.593	13.76	40.87	54.63	74.00	-19.37	peak
2	1296.593	13.76	29.17	42.93	54.00	-11.07	AVG
3	2018.036	16.24	36.00	52.24	74.00	-21.76	peak
4	2018.036	16.24	24.12	40.36	54.00	-13.64	AVG
5	2170.341	16.86	37.52	54.38	74.00	-19.62	peak
6	2170.341	16.86	24.99	41.85	54.00	-12.15	AVG
7	2755.511	19.31	34.27	53.58	74.00	-20.42	peak
8	2755.511	19.31	21.72	41.03	54.00	-12.97	AVG
9	3004.008	20.36	33.30	53.66	74.00	-20.34	peak
10	3004.008	20.36	21.74	42.10	54.00	-11.90	AVG
11	3661.323	20.91	32.12	53.03	74.00	-20.97	peak
12	3661.323	20.91	20.38	41.29	54.00	-12.71	AVG

Note:Level=Reading+Facytor.    Margin= Level- Limit.

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## 8.20 dB Bandwidth test

### 8.1. Test Equipment

20 dB Bandwidth test					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	2011/12
2	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2011/12
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2011/12

### 8.2. Test Information

EUT:	5 DAY WEATHER FORECAS TER
M/N:	340NC
Power supply:	DC 5.0V (TX)
Test Condition:	Ambient Temperature: 25°C Humidity: 56%
Test standard:	FCC PART 15C: 15.231
Test mode:	Transmitting
Test Frequency:	433.92 MHz
Test Date:	13 Jan to 14 Jan 2012
Test By:	Peter

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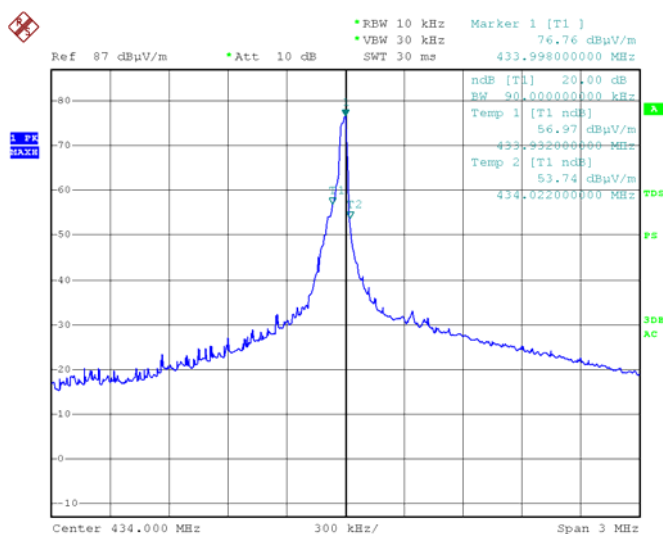


### 8.3. Test Results

**PASSED.**

The testing data was attached in the next pages.

Frequency (MHz)	20 dB Bandwidth (kHz)	Limit(kHz): No wider than 0.25% of the center frequency	Conclusion
433.92	90	$433.92 \times 0.25\% = 1.085\text{MHz}$	PASSED



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## 9.9. 99% bandwidth

### 9.1 Test procedure

According to RSS-210 Annex 8 and RSS-Gen 4.6.1 The transmitter output is connected to the spectrum analyzer. The resolution bandwidth shall be set to as close to 1% of the selected span as is possible without being below 1%. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used given that a peak or peak hold may produce a wider bandwidth than actual. The sweep time is coupled.

### 9.2. Test Equipment

Band Edge Compliance test					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	2011/12
2	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2011/12
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2011/12

### 9.3. Test Information

EUT:	5 DAY WEATHER FORECASTER
M/N:	340NC
Power supply:	DC 5.0V (TX)
Test Condition:	Ambient Temperature: 25°C Humidity: 56%
Test standard:	FCC PART 15C: 15.231
Test mode:	Transmitting
Test Frequency:	433.92 MHz
Test Date:	13 Jan to 16 Jan 2012
Test By:	Peter

### 9.4. Test Results

PASSED.

Frequency (MHz)	Bandwidth (MHz)
433.92	90KHz

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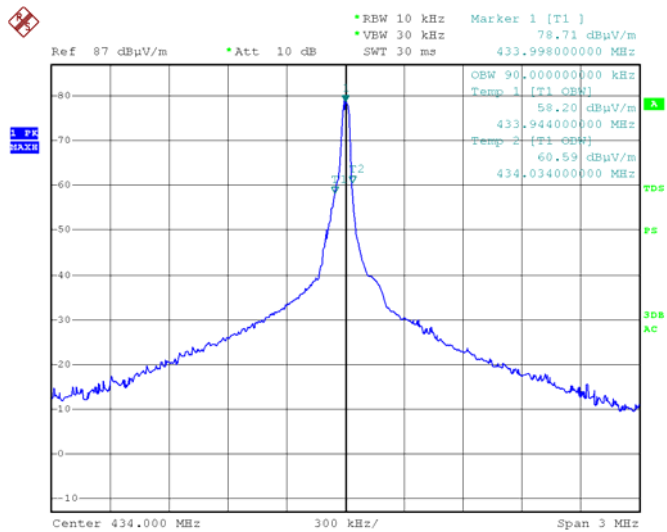
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## 99% Bandwidth



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## 10. Stop Transmitting Time Test

### 10.1. Test Equipment

Band Edge Compliance test					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	2011/12
2	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2011/12
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2011/12

### 9.2. Test Information

EUT:	5 DAY WEATHER FORECAS TER
M/N:	340NC
Power supply:	DC 5.0V (TX)
Test Condition:	Ambient Temperature: 25°C Humidity: 56%
Test standard:	FCC PART 15C: 15.231
Test mode:	Transmitting
Test Frequency:	433.92 MHz
Test Date:	13 Jan to 16 Jan 2012
Test By:	Peter

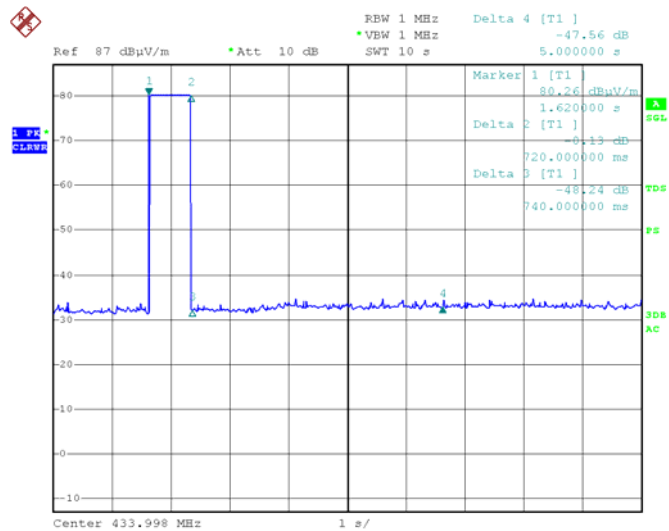
### 9.3. Test Results

#### PASSED.

The testing data was attached in the next pages.

Set the spectrum to zero span, activated the EUT by manually, And then, we could see the transmitting wave in the spectrum, when the time marker went to "1R", released the EUT, After 720ms, we could see the EUT stop transmitting.

Frequency (MHz)	Stop Transmitting Time	Limit: not more than 5 seconds of being released	Conclusion
433.92	720ms	5s	PASSED



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## 11. Pulse Desensitization Correction Factor

### 10.1. Test Equipment

Band Edge Compliance test					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	2011/12
2	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2011/12
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2011/12
4	Spectrum	Agilent	E4446A	44300459	2011/12

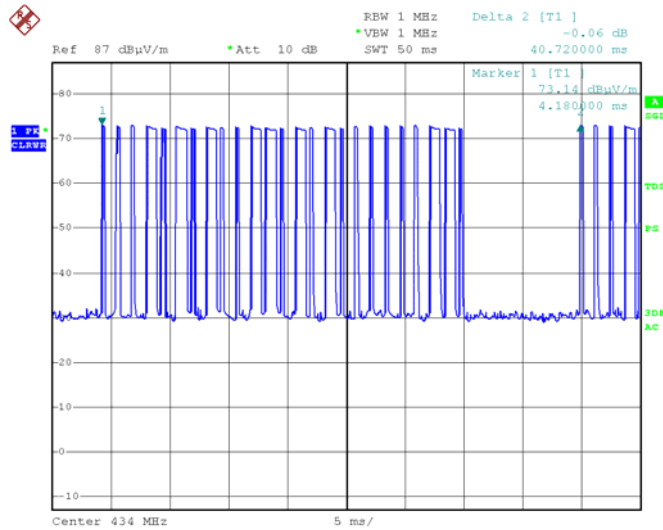
### Test Information

EUT:	5 DAY WEATHER FORECASTER
M/N:	340NC
Power supply:	DC 5.0V (TX)
Test Condition:	Ambient Temperature: 25°C Humidity: 56%
Test standard:	FCC PART 15C: 15.231
Test mode:	Transmitting
Test Frequency:	433.92 MHz
Test Date:	13 Jan to 16 Jan 2012
Test By:	Peter

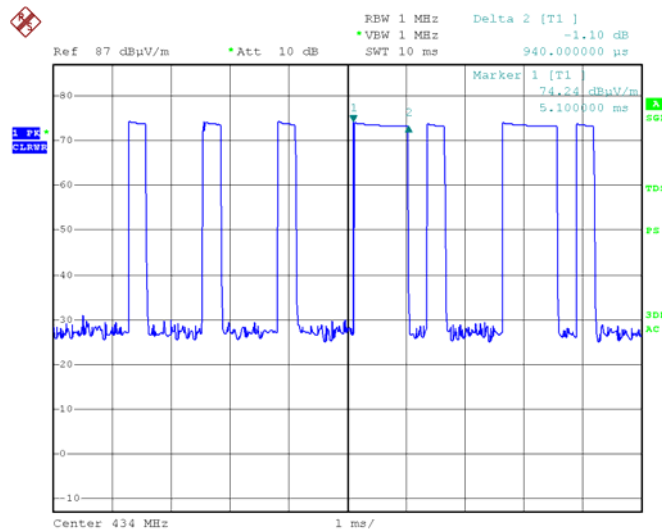
### 10.3. Test Results

**PASSED.**

The testing data was attached in the next pages.



Date: 14.JAN.2012 13:15:05



Date: 14.JAN.2012 13:16:54

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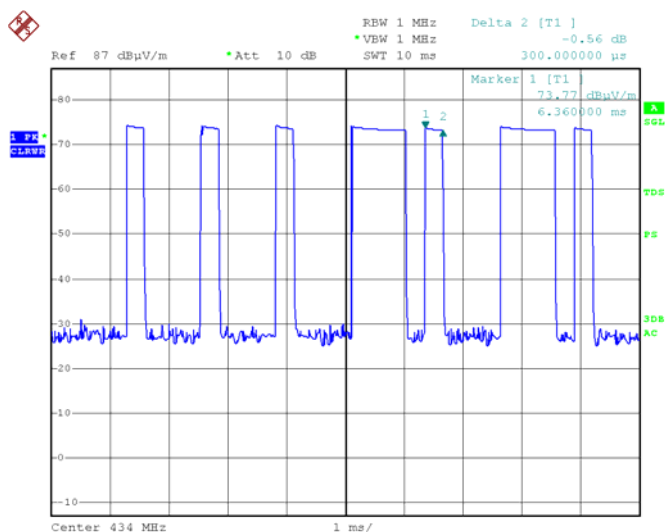
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Date: 14.JAN.2012 13:18:04

## Test Data

Ton+off=40.72ms(which exceeds 0.1 seconds,and use the formula Ton/100ms to calculate the duty-cycle correction factor)

Ton=0.94ms\*9+0.3ms\*16=13.26ms

Duty cycle Correction Factor=20\*log(Ton/Ton+off)= 20\*log(13.26ms/40.72ms)= -9.745dB

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## 11.Manufacturer/ Approval holder Declaration

The following identical model(s):

**340BC**

Belong to the tested device:

Product description: **5 DAY WEATHER FORECAS TER**  
Model name: **340NC**

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