



**CTS (NINGBO) TESTING SERVICE TECHNOLOGY  
INTERNATIONAL**

**OPERATE ACCORDING TO ISO/IEC 17025**

# **FCC ID /IC TEST REPORT**

**TEST REPORT NUMBER : CGZ3120629-00529-EFI**



CTS (Ningbo) Testing Service Technology Co., Ltd.  
2/F., South Tower, Huoju Building, No.181, Canghai Road,  
Jiangdong Science and Technology Park, Ningbo, Zhejiang, China

## TEST REPORT For FCC ID/IC

**Report Reference No.** ..... CGZ3120629-00529-EFI

Date of issue..... 16 August 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** ..... Wireless Meat & Poultry Thermometer

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

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

Model/Type reference..... 132RX

Ratings..... Battery 1.5V\*2

Operating Frequency..... 434 MHz

Result ..... **PASSED**

**Compiled by:**



Kate zhang / Fileadministators

**Supervised by:**



Duke yang / Technique principal

**Approved by:**



Vincent yao / Manager

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

**Test Report No. :** CGZ3120629-00529-EFI

16 August 2012  
Date of issue

Type / Model.....	132RX
EUT.....	Wireless Meat & Poultry Thermometer
<b>Applicant</b> .....	Thermor Ltd. Address..... 16975 Leslie Street, Newmarket, ON L3Y 9A1 Telephone..... +800-387-8520 Fax..... +886-947-1034 Contact..... Joanna
<b>Manufacturer</b> .....	FUZHOU EVERTOP ELECTRONIC CO., LTD. Address..... / Telephone..... / Fax..... / Contact..... /
<b>Factory</b> .....	FUZHOU EVERTOP ELECTRONIC CO., LTD. Address..... / Telephone..... / Fax..... / Contact..... /

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

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	30 June 2012
Testing commenced on	30 June 2012
Testing concluded on	16 August 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 :  Battery 1.5V\*2  
 Other

#### 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

Operation mode 2: RX

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	:	Wireless Meat & Poultry Thermometer
Model Number	:	132RX
Operation frequency	:	434 MHz
Radio Technology	:	FSK
Modulation Technology	:	FSK modulation
Antenna	:	External Antenna

#### 3.4.2. Tested Supporting System Details

N/A

## 4. TEST ENVIRONMENT

### 4.1 Address of the test laboratory

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

Tel: +86-20-85543113 (32 lines) Fax: +86-20-38780406

### 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 13,2012.

### 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	±1.22dB	(1)
Power disturbance	30MHz~300MHz	±1.38dB	(1)
Radiation emission (3m)	30MHz~300MHz	±3.14dB	(1)
	300MHz~1000MHz	±3.18dB	(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

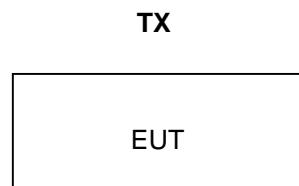
### 6.1.1 Description of the test location

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: Wireless Meat & Poultry Thermometer)

### 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

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#### 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

**Power supply by battery , Not applicable.**

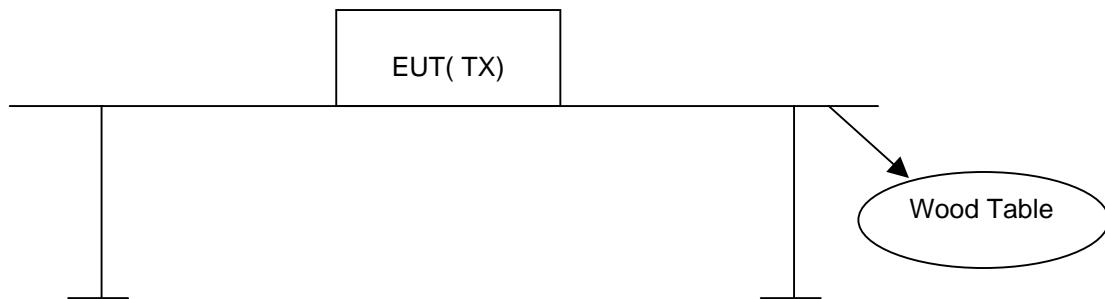
## 7. Radiated disturbance (electric field)

### 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:Wireless Meat & Poultry Thermometer)

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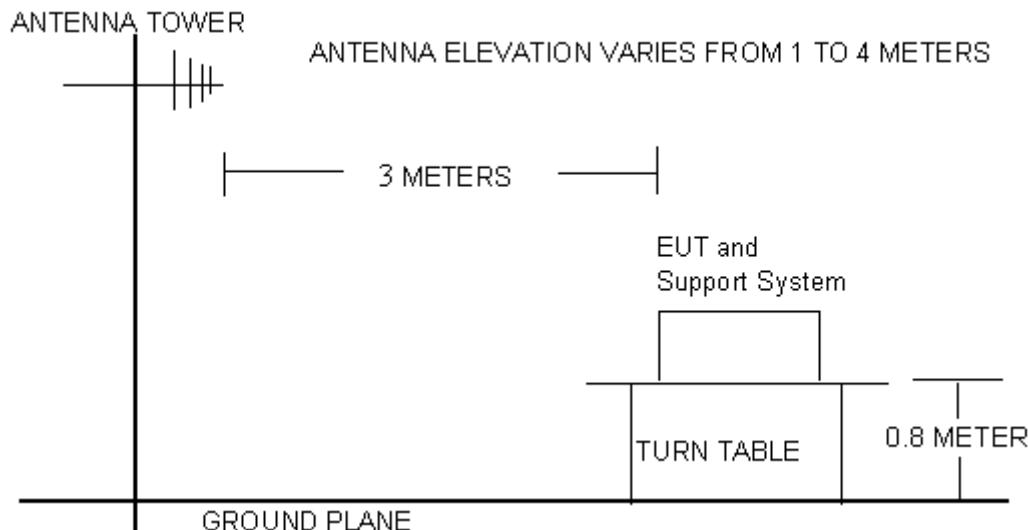
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### 7.2.2 Anechoic Chamber Setup Diagram



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

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu$ V/m	dB( $\mu$ V)/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 dB( $\mu$ V)/m (Peak) 54.0 dB( $\mu$ V)/m (Average)	

Remark: (1) Emission level  $dB\mu$ V =  $20 \log$  Emission level  $\mu$ 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 C63.4-2009on 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 and RX 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:	434 MHz (TX)	Result:	■ - passed
Frequency range:	9KHz~30MHz		□ - not passed

EUT	Wireless Meat & Poultry Thermometer
Operating Condition	BATTERY 1.5V*2
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test Date:	30 June 2012
Operator	Duke
MODEL NO	132RX

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1.7696	13.12	25.75	38.87	49.50	-10.63	QP
2	1.9908	13.14	22.88	36.02	49.50	-13.48	QP
3	7.4016	14.12	11.31	25.43	49.50	-24.07	QP
4	9.6254	14.46	12.01	26.47	49.50	-23.03	QP
5	14.1931	14.21	17.77	31.98	49.50	-17.52	QP
6	15.2750	14.12	18.63	32.75	49.50	-16.75	QP

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Channel:	434 MHz (TX)	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Horizontal		<input type="checkbox"/> - not passed
Frequency range:	30-230MHz		

EUT	Wireless Meat & Poultry Thermometer
Operating Condition	BATTERY 1.5V*2
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test Date:	30 June 2012
Operator	Duke
MODEL NO	132RX

Fundamental and Harmonics Average Result							
Frequency (MHz)	Factor (dB/m)	Reading (dB $\mu$ V)	Duty Cycle Correction Factor(dB)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Det.
434.0000	-35.95	118.31	-----	82.36	100.83	-18.47	Peak
434.0000	-35.95	118.31	-14.89	67.47	80.83	-13.36	AVG

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

Below 1GHz

No.	Frequency (MHz)	Factor (dB/m)	Reading (dB $\mu$ V/m)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Det.
1	222.0842	-31.72	65.80	34.08	46.00	-11.92	QP
2	231.8236	-31.80	55.96	24.16	46.00	-21.84	QP
3	265.3707	-31.87	61.80	29.93	46.00	-16.07	QP
4	624.0480	-27.75	45.82	18.07	46.00	-27.93	QP
5	762.9258	-26.45	45.20	18.75	46.00	-27.25	QP
6	868.1362	-28.61	57.38	28.77	46.00	-17.23	QP

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Above 1GHz

No.	Frequency (MHz)	Factor (dB/m)	Reading (dB $\mu$ V/m)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Det.
1	1595.190	-26.04	56.53	30.49	74.00	-43.51	peak
2	1595.190	-26.04	46.17	20.13	54.00	-33.87	AVG
3	4372.745	-6.27	54.66	48.39	74.00	-25.61	peak
4	4372.745	-6.27	45.85	39.58	54.00	-14.42	AVG
5	4967.936	-10.69	54.71	44.02	74.00	-29.98	peak
6	4967.936	-10.69	43.94	33.25	54.00	-20.75	AVG
7	5981.964	-12.95	54.38	41.43	74.00	-32.57	peak
8	5981.964	-12.95	43.91	30.96	54.00	-23.04	AVG
9	6929.860	-14.00	55.10	41.10	74.00	-32.90	peak
10	6929.860	-14.00	44.27	30.27	54.00	-23.73	AVG
11	7789.579	-14.98	55.04	40.06	74.00	-33.94	peak
12	7789.579	-14.98	45.09	30.11	54.00	-23.89	AVG

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

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Channel:	434 MHz (TX)	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Vertical		<input type="checkbox"/> - not passed
Frequency range:	30-230MHz		

EUT	Wireless Meat & Poultry Thermometer
Operating Condition	BATTERY 1.5V*2
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test Date:	30 June 2012
Operator	Duke
MODEL NO	132RX

Fundamental and Harmonics Average Result							
Frequency (MHz)	Factor (dB/m)	Reading (dB $\mu$ V)	Duty Cycle Correction Factor(dB)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Det.
434.000	-35.89	108.79	----	72.90	100.83	-27.93	Peak
434.000	-17.77	108.79	-14.89	58.01	80.83	-22.82	AVG

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

Below 1GHz

No.	Frequency (MHz)	Factor (dB/m)	Reading (dB $\mu$ V/m)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Det.
1	39.1984	-40.90	61.36	20.46	40.00	-19.54	QP
2	75.4509	-38.28	57.29	19.01	40.00	-20.99	QP
3	151.7434	-36.07	47.95	11.88	43.50	-31.62	QP
4	420.6412	-35.14	63.80	28.66	46.00	-17.34	QP
5	447.2945	-35.31	56.71	21.40	46.00	-24.60	QP
6	624.0480	-27.75	44.98	17.23	46.00	-28.77	QP

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Above 1GHz

No.	Frequency (MHz)	Factor (dB/m)	Reading (dB $\mu$ V/m)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Det.
1	1793.587	-25.39	55.09	29.70	74.00	-44.30	peak
2	1793.587	-25.39	44.67	19.28	54.00	-34.72	AVG
3	2454.910	-28.10	55.91	27.81	74.00	-46.19	peak
4	2454.910	-28.10	46.46	18.36	54.00	-35.64	AVG
5	3490.982	-32.00	54.25	22.25	74.00	-51.75	peak
6	3490.982	-32.00	43.58	11.58	54.00	-42.42	AVG
7	8428.858	-22.25	55.34	33.09	74.00	-40.91	peak
8	8428.858	-22.25	45.60	23.35	54.00	-30.65	AVG
9	9971.944	-15.59	55.84	40.25	74.00	-33.75	peak
10	9971.944	-15.59	45.76	30.17	54.00	-23.83	AVG
11	11096.192	-14.87	57.22	42.35	74.00	-31.65	peak
12	11096.192	-14.87	47.74	32.87	54.00	-21.13	AVG

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

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Channel:	434 MHz (RX)	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Horizontal		<input type="checkbox"/> - not passed
Frequency range:	30-230MHz		

EUT	Wireless Meat & Poultry Thermometer
Operating Condition	BATTERY 1.5V*2 for TX,DC 3V for RX
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test Date:	30 June 2012
Operator	Duke
MODEL NO	132RX

Below 1GHz

No.	Frequency (MHz)	Factor (dB/m)	Reading (dB $\mu$ V/m)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Det.
1	227.4950	-31.66	56.40	24.74	46.00	-21.26	QP
2	262.6653	-32.04	59.52	27.48	46.00	-18.52	QP
3	272.9459	-30.89	60.25	29.36	46.00	-16.64	QP
4	482.3647	-30.15	44.83	14.68	46.00	-31.32	QP
5	598.7976	-31.82	53.83	22.01	46.00	-23.99	QP
6	645.0902	-29.32	44.73	15.41	46.00	-30.59	QP

Above 1GHz

No.	Frequency (MHz)	Factor (dB/m)	Reading (dB $\mu$ V/m)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Det.
1	1859.719	-25.59	55.47	29.88	74.00	-44.12	peak
2	1859.719	-25.59	45.98	20.39	54.00	-33.61	AVG
3	4482.966	-7.09	55.77	48.68	74.00	-25.32	peak
4	4482.966	-7.09	44.55	37.46	54.00	-16.54	AVG
5	5673.347	-12.72	53.26	40.54	74.00	-33.46	peak
6	5673.347	-12.72	43.01	30.29	54.00	-23.71	AVG

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Channel:	434 MHz (RX)	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Vertical		<input type="checkbox"/> - not passed
Frequency range:	30-230MHz		

EUT	Wireless Meat & Poultry Thermometer
Operating Condition	BATTERY 1.5V*2
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test Date:	30 June 2012
Operator	Duke
MODEL NO	132RX

Below 1GHz

No.	Frequency (MHz)	Factor (dB/m)	Reading (dB $\mu$ V/m)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Det.
1	193.4068	-31.53	47.90	16.37	43.50	-27.13	QP
2	223.1663	-31.71	65.39	33.68	46.00	-12.32	QP
3	266.4529	-31.81	52.01	20.20	46.00	-25.80	QP
4	301.4028	-40.65	55.46	14.81	46.00	-31.19	QP
5	611.4228	-29.29	53.56	24.27	46.00	-21.73	QP
6	615.6313	-28.43	55.07	26.64	46.00	-19.36	QP

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

Above 1GHz

No.	Frequency (MHz)	Factor (dB/m)	Reading (dB $\mu$ V/m)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Det.
1	1815.631	-25.48	54.24	28.76	74.00	-45.24	peak
2	1815.631	-25.48	44.80	19.32	54.00	-34.68	AVG
3	2675.351	-28.98	53.79	24.81	74.00	-49.19	peak
4	2675.351	-28.98	44.26	15.28	54.00	-38.72	AVG
5	3270.541	-31.18	54.24	23.06	74.00	-50.94	peak
6	3270.541	-31.18	43.51	12.33	54.00	-41.67	AVG

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

Remark: Others frequency Radiated Emission level margin all >10dB of 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:	Wireless Meat & Poultry Thermometer
M/N:	132RX
Power supply:	BATTERY 1.5V*2
Test Condition:	Ambient Temperature: 25°C Humidity: 56%
Test standard:	FCC PART 15C: 15.231
Test mode:	Transmitting
Test Frequency:	434 MHz
Test Date:	30 July 2012
Test By:	Duke

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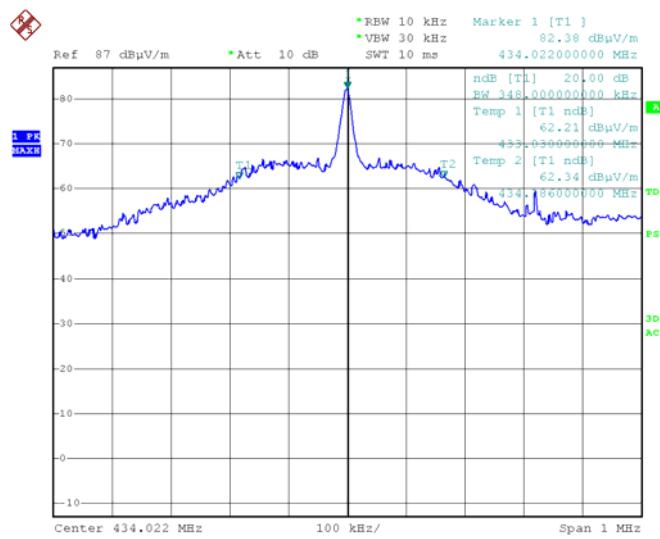
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### 8.3. Test Results

**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
434	348	434*0.25%=1.085MHz	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:	Wireless Meat & Poultry Thermometer
M/N:	132RX
Power supply:	BATTERY 1.5V*2
Test Condition:	Ambient Temperature: 25°C Humidity: 56%
Test standard:	FCC PART 15C: 15.231
Test mode:	Transmitting
Test Frequency:	434 MHz
Test Date:	30 July 2012
Test By:	Duke

### 9.4. Test Results

PASSED.

Frequency (MHz)	Bandwidth (MHz)
434	776KHz

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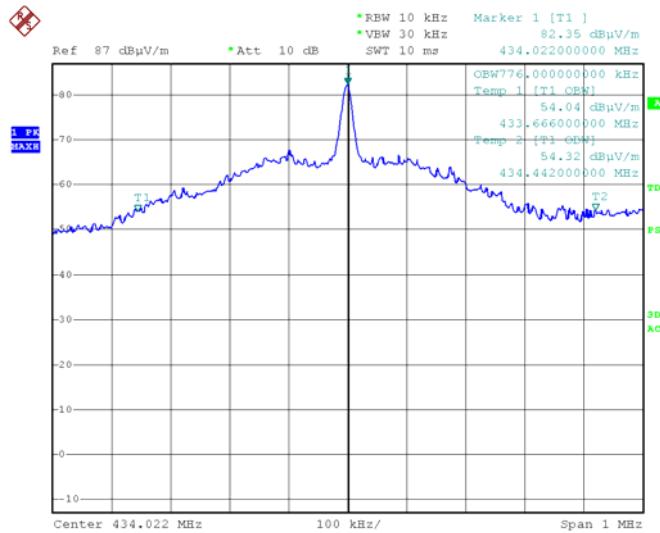
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99% Bandwidth



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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:	Wireless Meat & Poultry Thermometer
M/N:	132RX
Power supply:	BATTERY 1.5V*2
Test Condition:	Ambient Temperature: 25°C Humidity: 56%
Test standard:	FCC PART 15C: 15.231
Test mode:	Transmitting
Test Frequency:	434 MHz
Test Date:	30 July 2012
Test By:	Duke

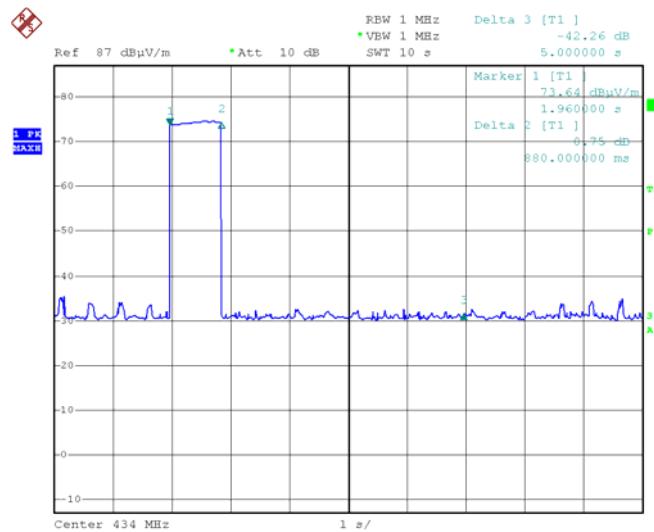
### 9.3. Test Results

**PASSED.**

The testing data was attached in the next pages.

Set the spectrum to zero span, activated the EUT automatically, And then, we could see the transmitting wave in the spectrum, when the time marker went to “1R”, released the EUT, After 880ms, we could see the EUT stop transmitting.

Frequency (MHz)	Stop Transmitting Time	Limit: not more than 5 seconds of being released	Conclusion
434	880ms	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:	Wireless Meat & Poultry Thermometer
M/N:	132RX
Power supply:	BATTERY 1.5V*2
Test Condition:	Ambient Temperature: 25°C Humidity: 56%
Test standard:	FCC PART 15C: 15.231
Test mode:	Transmitting
Test Frequency:	434 MHz
Test Date:	30 July 2012
Test By:	Duke

### 10.3. Test Results

PASSED.

The testing data was attached in the next pages.

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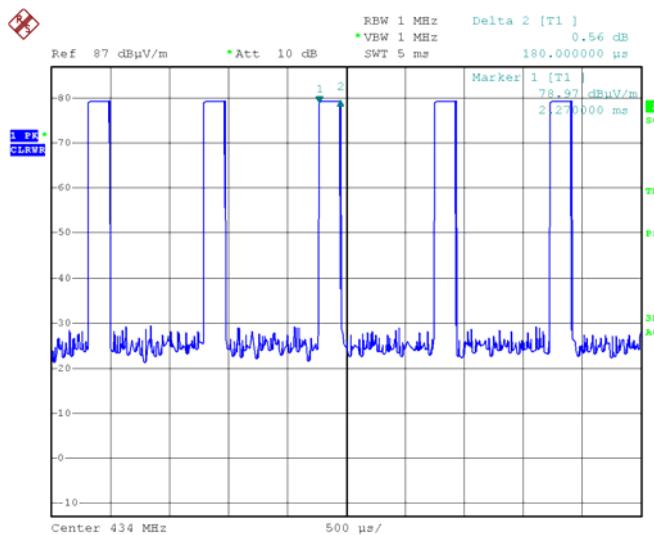
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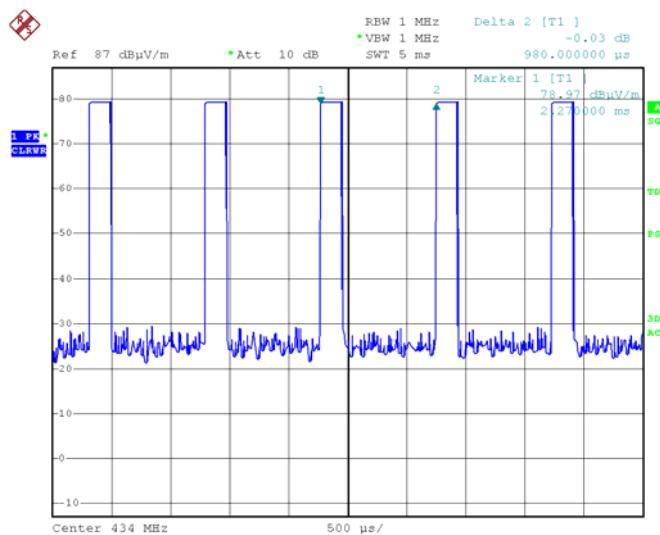
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Date: 16.JUL.2012 11:54:01

## Test Data

Ton+off=880ms(which exceeds 0.1 seconds, and use the formula Ton/100ms to calculate the duty-cycle correction factor)

$$\text{Ton} = 100 \times 0.18\text{ms} = 0.18\text{ms}$$

$$\text{Duty cycle Correction Factor} = 20 \times \log(\text{Ton}/\text{Ton+off}) = 20 \times \log(100 \times 0.18\text{ms})/100\text{ms} = -14.89\text{dB}$$

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## 11. Manufacturer/ Approval holder Declaration

The following identical model(s):

**132HC, 132TX**

Belong to the tested device:

Product description: **Wireless Meat & Poultry Thermometer**

Model name: **132RX**

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