

# CTS (NINGBO) TESTING SERVICE TECHNOLOGY INTERNATIONAL

**OPERATE ACCORDING TO ISO/IEC 17025** 

# FCC ID/IC TEST REPORT

TEST REPORT NUMBER: CGZ3120913-00721-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			
47 CFR PART 15 OCT, 2011 RSS-Gen Issue 3			
Report Reference No	CGZ3120913-00721-EFI		
Date of issue	25 Sep. 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 $\square$		
	Other standard testing method $\square$		
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-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	Canadian Weather Trivia Thermometer		
Trade Mark	Bios , National Geographic		
Manufacturer	SINOSTRONG ELECTRONIC(FUZHOU)CO.,LTD.		
Model/Type reference	350BC		
Ratings	Battery 1.5V*2		
Operating Frequency	433.99 MHz (RX)		
Result	PASSED		

Kate zhang / Fileadministrators

Compiled by:

Duke yang / Technique principal

Supervised by:

Vincent yao / Manager

Approved by:

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# FCCID-TEST REPORT

Test Report No. :	CGZ3120913-00721-EFI	25 Sep. 2012 Date of issue

Type / Model	350BC
EUT	Canadian Weather Trivia Thermometer
Applicant	Thermor Ltd.
Address	16975 Leslie Street, Newmarket, ON L3Y 9A1
Telephone	+905-952-3737 Ext.6119
Fax	+905-952-3731
Contact	Joanna Biniek
Manufacturer	SINOSTRONG ELECTRONIC(FUZHOU)CO.,LTD.
Address	1
Telephone	1
Fax	1
Contact	
Factory	SINOSTRONG ELECTRONIC(FUZHOU)CO.,LTD.
Address	1
Telephone	1
Fax	1
Contact	

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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## **TABLE OF CONTENTS**

Description	Page
1. TEST STANDARDS	4
2. SUMMARY	4
2.1 GENERAL REMARKS	1
2.2 FINAL ASSESSMENT	
3. EQUIPMENT UNDER TEST	5
3.1 Power supply system utilised	5
3.2 Short description of the Equipment under Test (EUT)	5
3.3 EUT OPERATION MODE	
3.4 EUT CONFIGURATION	6
4. TEST ENVIRONMENT	7
4.1 Address of the test laboratory	7
4.2 TEST FACILITY	7
4.3 Environmental conditions	
4.4 DEFINITIONS OF SYMBOLS USED IN THIS TEST REPORT	
4.5 STATEMENT OF THE MEASUREMENT UNCERTAINTY	
4.6 MEASUREMENT UNCERTAINTY	8
5. Summary of standards and results	8
5.1.DESCRIPTION OF STANDARDS AND RESULTS	8
6. Power Line Conducted Emission Test	9
6.1.1 DESCRIPTION OF THE TEST LOCATION	9
6.1.2Test Equipment	
6.2.1 BLOCK DIAGRAM OF TEST SETUP	
6.2.2 DESCRIPTION OF THE TEST SET-UP	
6.2.3 LIMITS OF DISTURBANCE (CLASS B)	10
7. Radiated disturbance (electric field)	11
7.1.TEST EQUIPMENT	4.4
7.1.TEST EQUIPMENT	
7.2.BLOCK DIAGRAM OF TEST SETUP	
7.4.Test Procedure	
7.5.RADIATED EMISSION TEST RESULTS	
8 Manufacturer/ Approval holder Declaration	19

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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-Gen Issue 3

#### 2. SUMMARY

#### 2.1 GENERAL REMARKS

Date of receipt of test sample	13 Sep. 2012
Testing commenced on	17~ 25 Sep. 2012
Testing concluded on	25 Sep. 2012

#### 2.2 FINAL ASSESSMENT

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

■ - fulfilled		- f	ulfil	led
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□ - **not** fulfilled.

The equipment under test

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

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#### 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 EUT type: Receiver

#### 3.3 EUT operation mode

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

■ -RX

Operation mode 1: RX

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

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#### 3.4 EUT configuration

## 3.4.1. Description of configuration (EUT)

Description	:	Canadian Weather Trivia Thermometer
Model Number	:	350BC
Operation frequency	:	433.99MHz
Radio Technology	:	FSK
Modulation Technology	:	FSK modulation
Antenna	:	External Antenna

#### 3.4.2. Tested Supporting System Details

Not Applicable.

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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

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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Report No.: CGZ3120913-00721-EFI Page 7 of 19





#### 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)

<sup>(1).</sup> 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 B: 15.107 RSS-Gen:7.2.4	N/A	
Radiated Emission Test	ANSI C63.4-2009 FCC Part 15 B: 109 RSS-Gen:4.10	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

#### 6.1.2Test Equipment

Conduc	ted 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(RX)

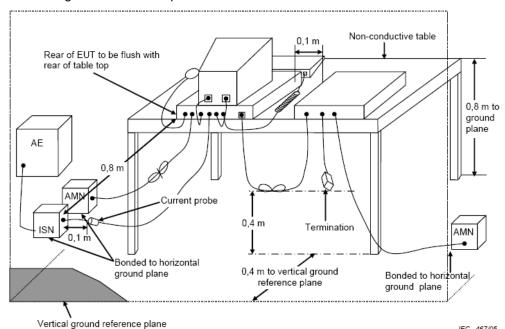
#### (EUT: Canadian Weather Trivia Thermometer)

#### 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

#### 6.1.2.2 Block Diagram of Test Setup



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#### 6.2.3 Limits of disturbance (Class B)

		Maximum RF Line Voltage		
Frequency		Quasi-Peak Level	Average Level	
	,	dB(μV)	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

Test Result: N/A (Note: The EUT is power supply by battery.)

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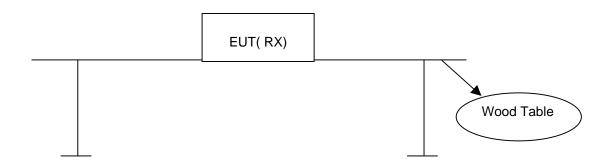
# 7. Radiated disturbance (electric field)

#### 7.1.Test Equipment

Radiated disturbance (electric field)										
Item	Test Equipment	Manufacturer	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:Canadian Weather Trivia Thermometer)

#### 7.2.2 Anechoic Chamber Setup Diagram

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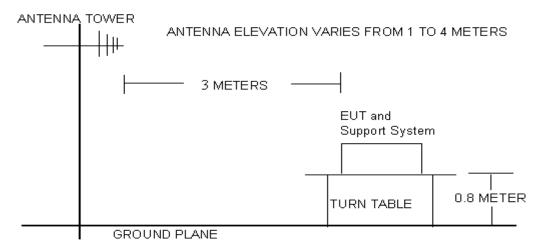
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Report No.: CGZ3120913-00721-EFI Page 11 of 19







#### 7.3. Radiated Emission Limit Standard: FCC 109 and 209

FRE	QUEN	CY	DISTANCE	FIELD STREN	GTHS LIMIT	
	MHz		Meters	μV/m	dB(μV)/m	
0.009	~	0.490	300	2400/F(KHz)		
0.490		1.705	30	24000/F(KHz)		
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	
Λ.	Above 1000		2	Other:74.0 dB(µ	ιV)/m (Peak)	
Ai	oove II	JUU	3	54.0 dB(μV)/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.

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

The test modes is tested in Anechoic Chamber and all the scanning waveforms are reported on section 7.5 Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

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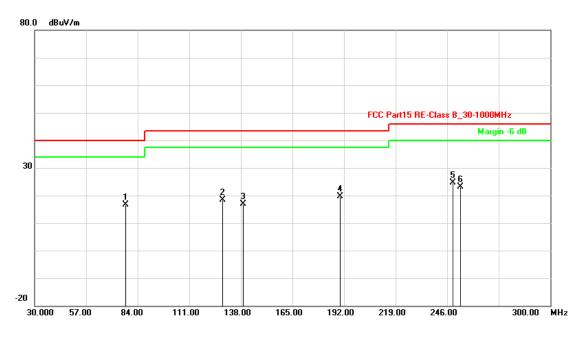


# 7.5.Radiated Emission Test Results PASSED.

Channel:	433.99 MHz (RX)	Result:	■ - passed
Test point:	Horizontal		☐ - not passed
Frequency range:	30-230MHz		

EUT	Canadian Weather Trivia Thermometer		
Operating Condition	BATTERY 1.5V*2 for TX,DC 3V for TX		
Test Condition	Ambient Temperature: 25°C Humidity: 56%		
Test Date:	25 Sep. 2012		
Operator	Duke		
MODEL NO	350BC		

#### Below 1GHz



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBµV/m)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.
1	77.6152	-38.30	54.92	16.62	40.00	-23.38	QP
2	128.4769	-35.33	53.83	18.50	43.50	-25.00	QP
3	139.2985	-34.75	51.73	16.98	43.50	-26.52	QP
4	190.1603	-31.25	50.82	19.57	43.50	-23.93	QP
5	249.1382	-32.58	57.09	24.51	46.00	-21.49	QP
6	252.9258	-32.47	55.54	23.07	46.00	-22.93	QP

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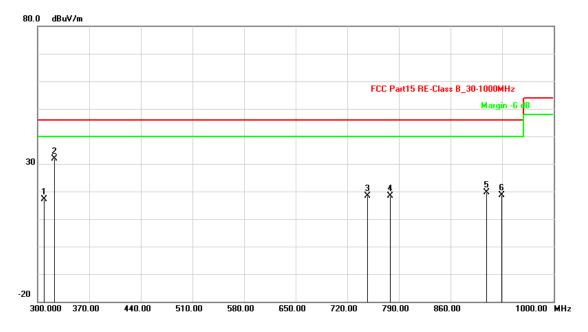
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**Report No.: CGZ3120913-00721-EFI**Page 13 of 19

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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBµV/m)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.
1	308.4168	-39.64	56.83	17.19	46.00	-28.81	QP
2	322.4448	-37.40	69.18	31.78	46.00	-14.22	QP
3	747.4949	-27.43	45.70	18.27	46.00	-27.73	QP
4	778.3567	-26.98	45.37	18.39	46.00	-27.61	QP
5	908.8176	-25.43	45.18	19.75	46.00	-26.25	QP
6	929.8597	-27.08	45.76	18.68	46.00	-27.32	QP

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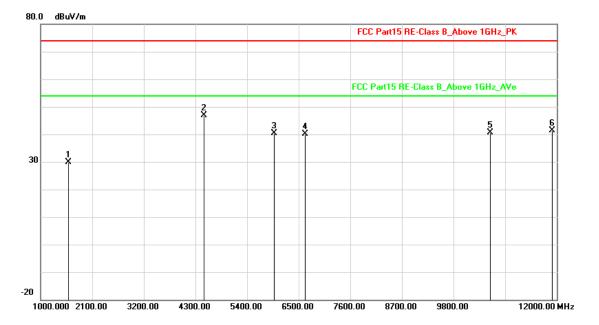
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#### Above 1GHz



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBµV/m)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.
1	1595.190	-26.04	56.03	29.99	74.00	-44.01	Peak
2	4482.966	-7.09	54.07	46.98	74.00	-27.02	Peak
3	5981.964	-12.95	53.38	40.43	74.00	-33.57	Peak
4	6643.287	-13.67	53.92	40.25	74.00	-33.75	Peak
5	10589.178	-15.16	55.88	40.72	74.00	-33.28	Peak
6	11911.824	-14.40	55.86	41.46	74.00	-32.54	Peak

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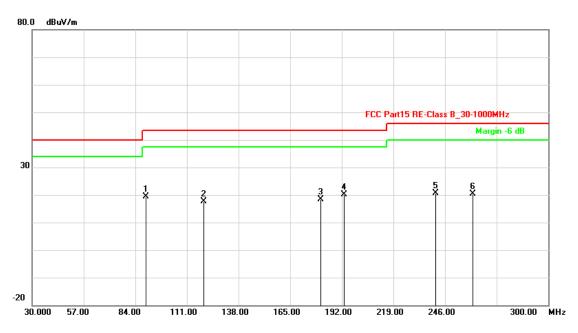




Channel:	433.99 MHz (RX)	Result:	■ - passed
Test point:	Vertical		☐ - not passed
Frequency range:	30-230MHz		

EUT	Canadian Weather Trivia Thermometer		
Operating Condition	BATTERY 1.5V*2		
Test Condition	Ambient Temperature: 25°C Humidity: 56%		
Test Date:	25 Sep. 2012		
Operator	Duke		
MODEL NO	350BC		

#### Below 1GHz



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBµV/m)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.
1	89.5190	-39.62	59.08	19.46	43.50	-24.04	QP
2	119.8196	-36.20	53.92	17.72	43.50	-25.78	QP
3	180.9619	-34.27	52.61	18.34	43.50	-25.16	QP
4	193.4068	-31.53	51.77	20.24	43.50	-23.26	QP
5	241.0220	-32.55	53.11	20.56	46.00	-25.44	QP
6	260.5010	-32.17	52.47	20.30	46.00	-25.70	QP

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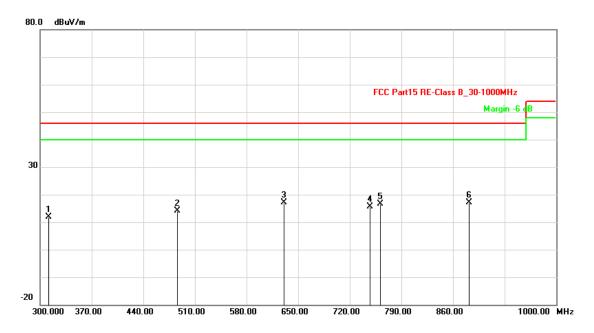
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**Report No.: CGZ3120913-00721-EFI**Page 16 of 19

#### **CENTRE OF TESTING SERVICE**







No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.
	(MHz)	(dB/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	
1	311.2223	-39.23	51.19	11.96	46.00	-34.04	QP
2	486.5731	-30.26	44.28	14.02	46.00	-31.98	QP
3	631.0620	-28.09	45.29	17.20	46.00	-28.80	QP
4	747.4949	-27.43	43.13	15.70	46.00	-30.30	QP
5	761.5230	-26.40	43.13	16.73	46.00	-29.27	QP
6	882.1643	-25.88	43.08	17.20	46.00	-28.80	QP

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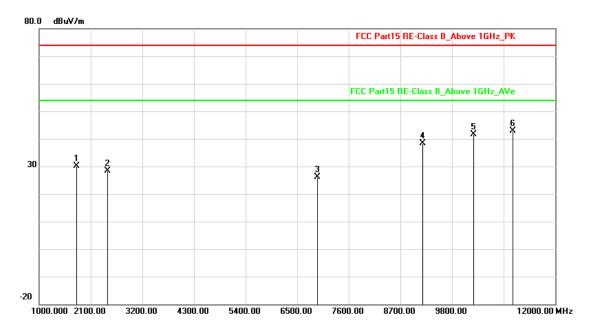
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#### **CENTRE OF TESTING SERVICE**





#### Above 1GHz



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBµV/m)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.
1	1793.587	-25.39	55.59	30.20	74.00	-43.80	peak
2	2454.910	-28.10	56.41	28.31	74.00	-45.69	peak
3	6929.860	-29.31	55.34	26.03	74.00	-47.97	peak
4	9178.357	-18.73	57.13	38.40	74.00	-35.60	peak
5	10258.517	-15.35	57.01	41.66	74.00	-32.34	peak
6	11096.192	-14.87	57.72	42.85	74.00	-31.15	peak

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

Remark: Others frequency Radiated Emission level margin all >10dB of Limit.

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# 8. Manufacturer/ Approval holder Declaration

The following identical model(s):

350BU, 350NC, 350NU

Belong to the tested device:

Product description: Canadian Weather Trivia Thermometer

Model name: 350BC

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