



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

OPERATE ACCORDING TO ISO/IEC 17025

FCC ID /IC TEST REPORT

TEST REPORT NUMBER : CGZ3120913-00720-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.	CGZ3120913-00720-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 <input checked="" type="checkbox"/> Partial application of Harmonised standards <input type="checkbox"/> Other standard testing method <input type="checkbox"/>
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	Canadian Weather Trivia Thermometer
Trade Mark	Bios , National Geographic
Manufacturer.....	Sinostrong Electronic(Fuzhou)Co.,Ltd.
Model/Type reference.....	350TX
Ratings.....	Battery 1.5V*2
Operating Frequency	433.99 MHz
Result	PASSED

Compiled by:

Kate zhang / Fileadministrators

Supervised by:

Duke yang / Technique principal

Approved by:

Vincent yao / Manager

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FCC ID -- TEST REPORT

Test Report No. : CGZ3120913-00720-EFI	25 Sep. 2012 Date of issue
---	-------------------------------

Type / Model.....	350TX
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.....	/
Telephone.....	/
Fax.....	/
Contact.....	/
Factory	Sinostrong Electronic(Fuzhou)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	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.
- **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	:	Canadian Weather Trivia Thermometer
Model Number	:	350TX
Operation frequency	:	433.99 MHz
Radio Technology	:	ASK
Modulation Technology	:	ASK 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.



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)
	1GHz~18GHz	±3.54dB	(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	N/A
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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6.2.3 Limits of disturbance (Class B)

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
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.

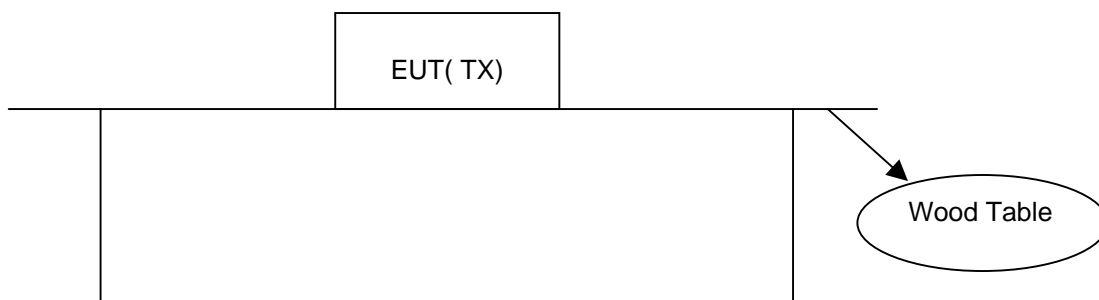
7. Radiated disturbance (electric field)

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

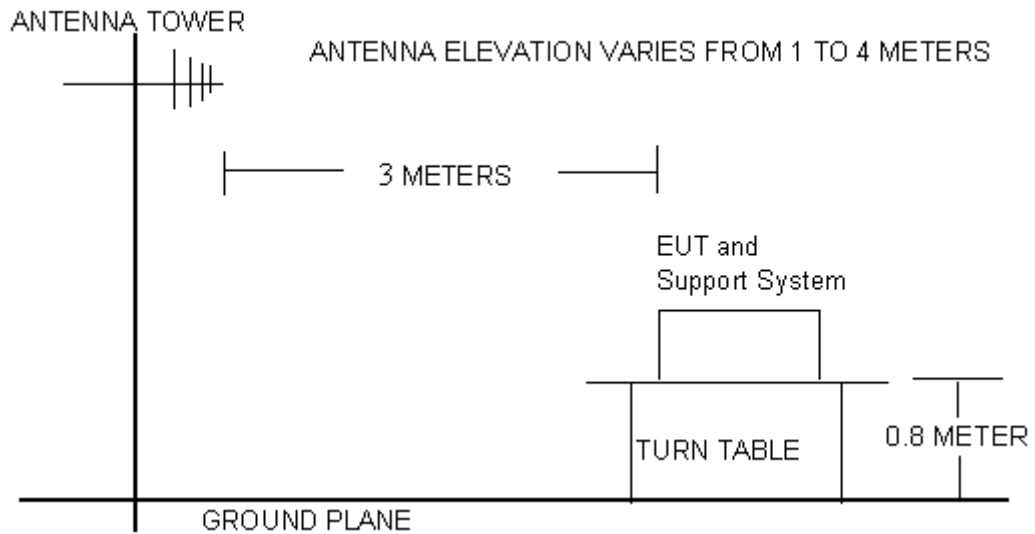
7.2. Block Diagram of Test Setup

7.2.1 Block Diagram of connection between EUT and simulators



(EUT: Canadian Weather Trivia Thermometer)

7.2.2 Anechoic Chamber Setup Diagram



7.3. Radiated Emission Limit Standard: FCC 15.231,209

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
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 $\mu\text{V}/\text{m}$
 (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,



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

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	350TX

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	10.2864	14.50	14.65	29.15	49.50	-20.35	QP
2	13.9527	14.22	18.08	32.30	49.50	-17.20	QP
3	16.0562	14.07	19.07	33.14	49.50	-16.36	QP
4	17.8593	13.93	19.43	33.36	49.50	-16.14	QP
5	23.8094	13.90	19.20	33.10	49.50	-16.40	QP
6	29.0984	14.08	20.13	34.21	49.50	-15.29	QP

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Channel:	433.99 MHz (TX)	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Horizontal		<input type="checkbox"/> - not passed
Frequency range:	30MHz ~12GHz		

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	350TX

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.
433.9900	-35.95	120.22	-----	84.27	92.87	-16.57	Peak
433.9900	-35.95	120.22	-19.66	64.61	72.87	-8.26	AVG

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

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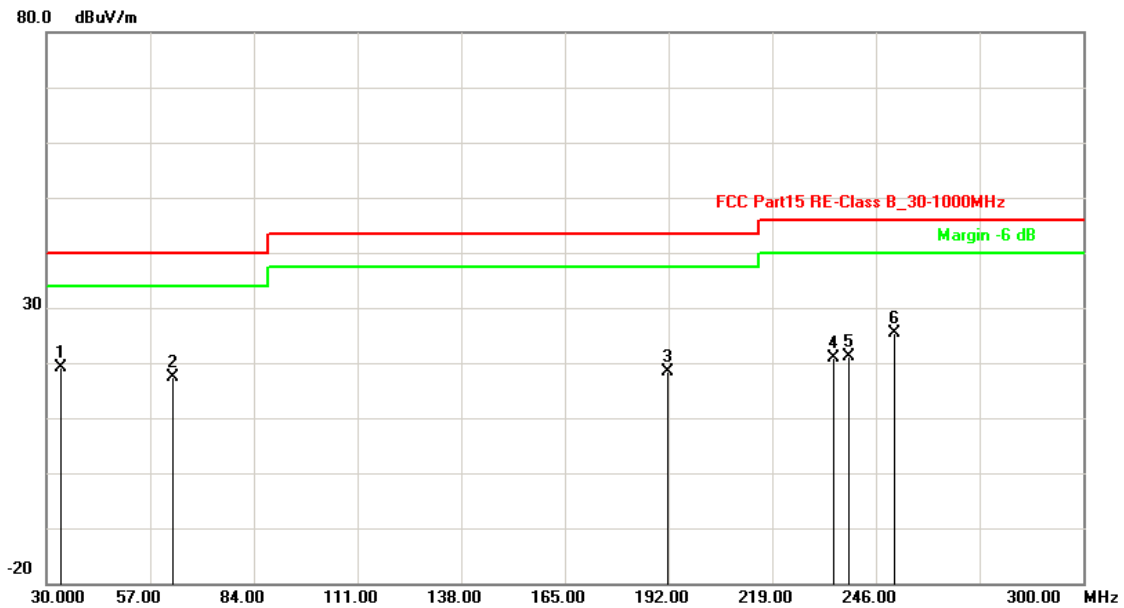
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Below 1GHz



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBμV/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	33.7875	-36.64	55.89	19.25	40.00	-20.75	QP
2	63.0060	-40.46	57.95	17.49	40.00	-22.51	QP
3	191.7835	-31.39	49.82	18.43	43.50	-25.07	QP
4	235.0701	-32.10	53.03	20.93	46.00	-25.07	QP
5	238.8577	-32.44	53.50	21.06	46.00	-24.94	QP
6	250.7615	-32.55	57.92	25.37	46.00	-20.63	QP

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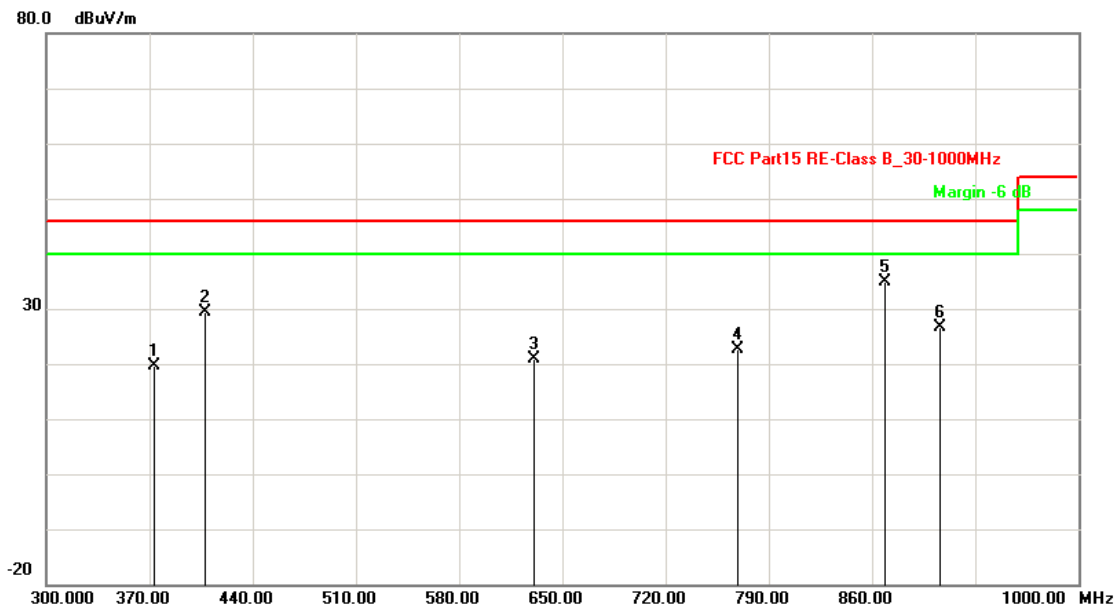
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBμV/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	372.9458	-34.85	54.36	19.51	46.00	-26.49	QP
2	408.0160	-35.20	64.56	29.36	46.00	-16.64	QP
3	631.0620	-28.09	48.98	20.89	46.00	-25.11	QP
4	768.5370	-26.64	49.29	22.65	46.00	-23.35	QP
5	868.4162	-28.55	63.32	34.77	46.00	-11.23	QP
6	906.0120	-25.32	51.95	26.63	46.00	-19.37	QP

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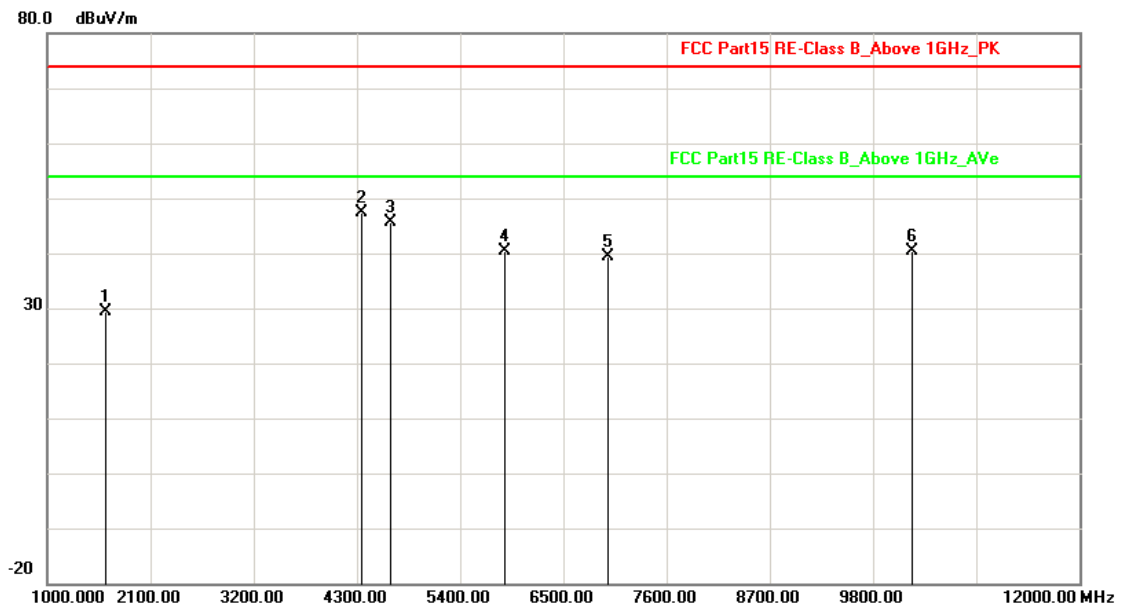
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Above 1GHz



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBμV/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	1617.234	-25.83	55.12	29.29	74.00	-44.71	peak
2	4350.701	-6.11	53.57	47.46	74.00	-26.54	peak
3	4659.319	-8.40	54.14	45.74	74.00	-28.26	peak
4	5871.743	-12.87	53.18	40.31	74.00	-33.69	peak
5	6973.948	-14.05	53.44	39.39	74.00	-34.61	peak
6	10214.429	-15.38	55.71	40.33	74.00	-33.67	peak

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

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Channel:	433.99 MHz (TX)	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Vertical		<input type="checkbox"/> - not passed
Frequency range:	30MHz ~12GHz		

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	350TX

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.
433.990	-35.89	124.44	----	88.55	92.87	-12.28	Peak
433.990	-35.89	124.44	-19.66	68.89	72.87	-3.98	AVG

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

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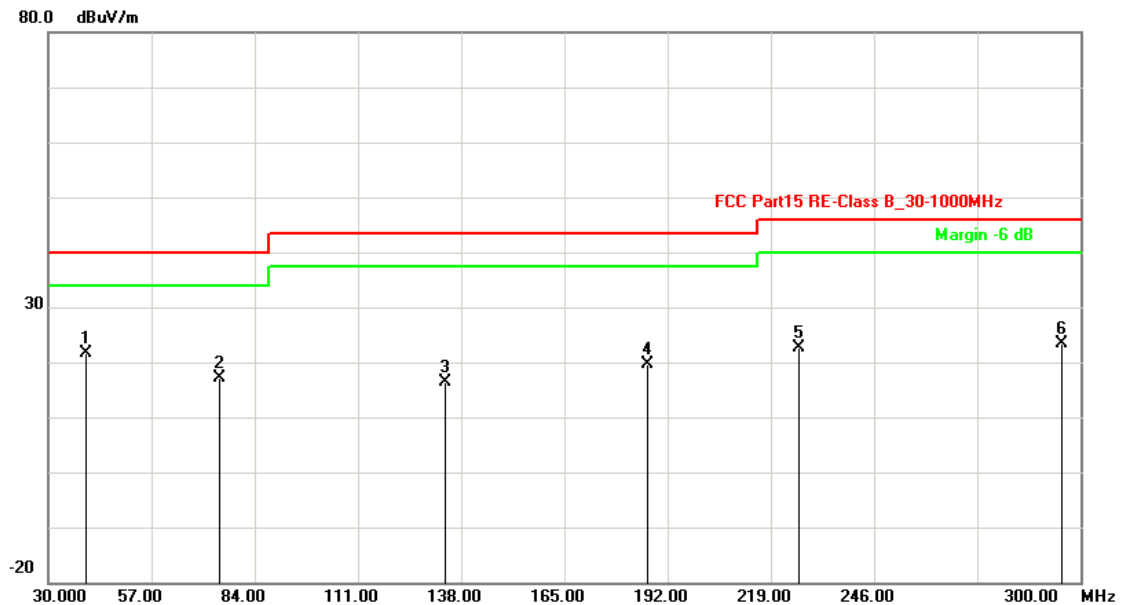
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Below 1GHz



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBμV/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	39.7394	-41.30	62.88	21.58	40.00	-18.42	QP
2	74.9098	-38.31	55.43	17.12	40.00	-22.88	QP
3	133.8876	-35.00	51.29	16.29	43.50	-27.21	QP
4	186.9138	-32.27	51.87	19.60	43.50	-23.90	QP
5	226.4128	-31.67	54.42	22.75	46.00	-23.25	QP
6	295.1302	-26.12	49.42	23.30	46.00	-22.70	QP

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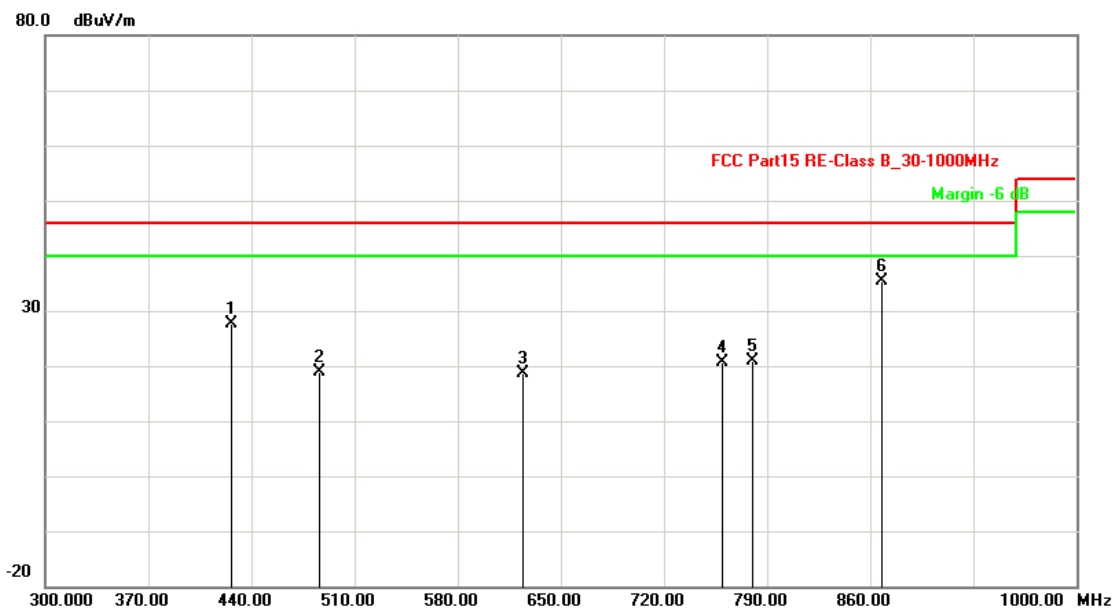
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	426.2524	-35.48	63.17	27.69	46.00	-18.31	QP
2	486.5731	-30.26	49.16	18.90	46.00	-27.10	QP
3	624.0480	-27.75	46.48	18.73	46.00	-27.27	QP
4	760.1202	-26.35	47.09	20.74	46.00	-25.26	QP
5	779.7595	-27.03	47.85	20.82	46.00	-25.18	QP
6	868.1362	-28.61	63.90	35.29	46.00	-10.71	QP

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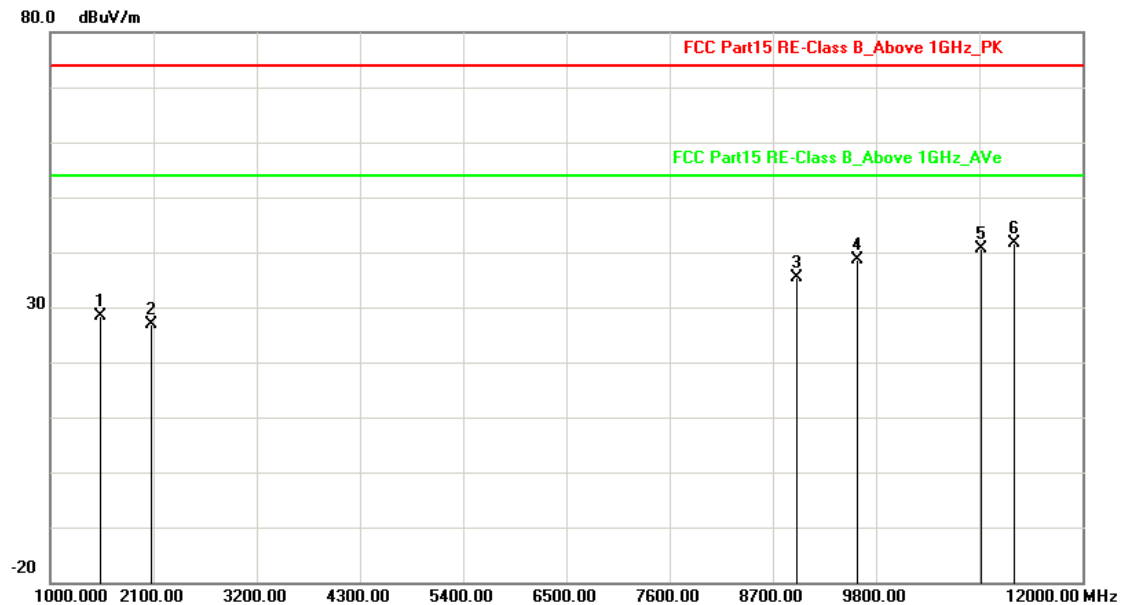
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Above 1GHz



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1529.058	-26.83	55.13	28.30	74.00	-45.70	peak
2	2080.160	-26.56	53.33	26.77	74.00	-47.23	peak
3	8957.916	-19.76	55.24	35.48	74.00	-38.52	peak
4	9597.194	-16.82	55.38	38.56	74.00	-35.44	peak
5	10919.840	-14.97	55.71	40.74	74.00	-33.26	peak
6	11272.545	-14.77	56.49	41.72	74.00	-32.28	peak

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

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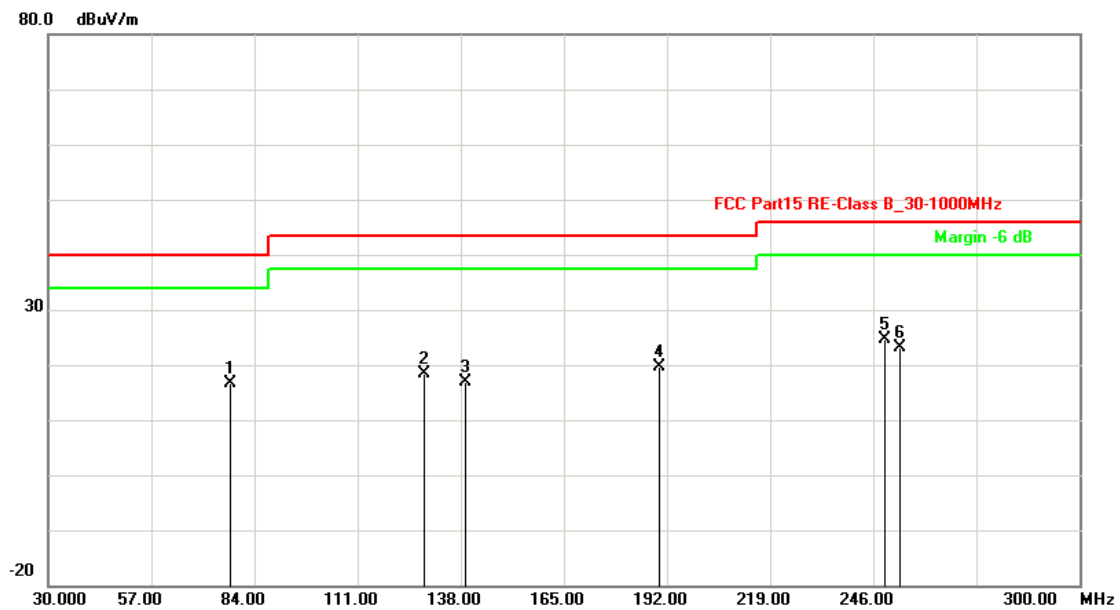
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Channel:	433.99 MHz (RX)	Result:	■ - passed □ - not passed
Test point:	Horizontal		
Frequency range:	30MHz-12GHz		

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	350TX

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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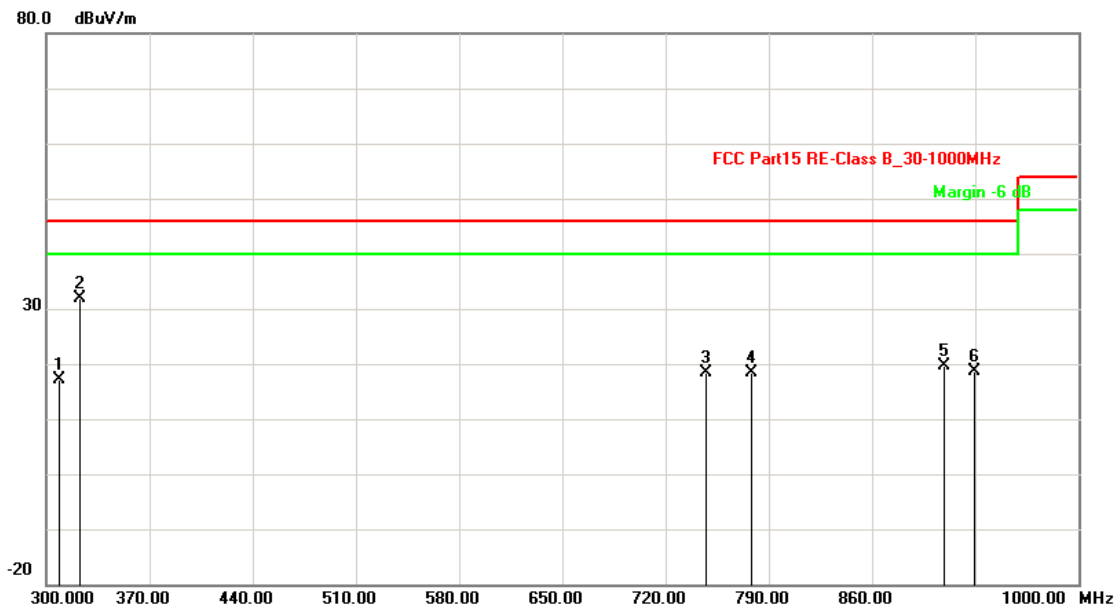
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBμV/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	308.4168	-39.64	56.83	17.19	46.00	-28.81	QP
2	322.4448	-37.40	69.18	31.78	46.00	-14.22	QP
3	747.4949	-27.43	45.70	18.27	46.00	-27.73	QP
4	778.3567	-26.98	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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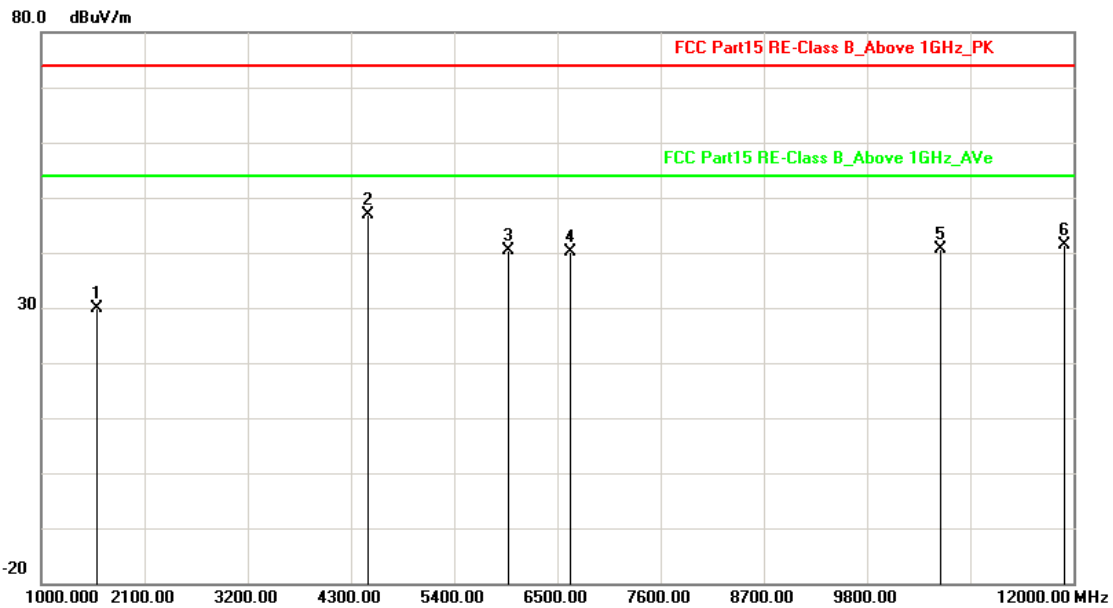
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Above 1GHz



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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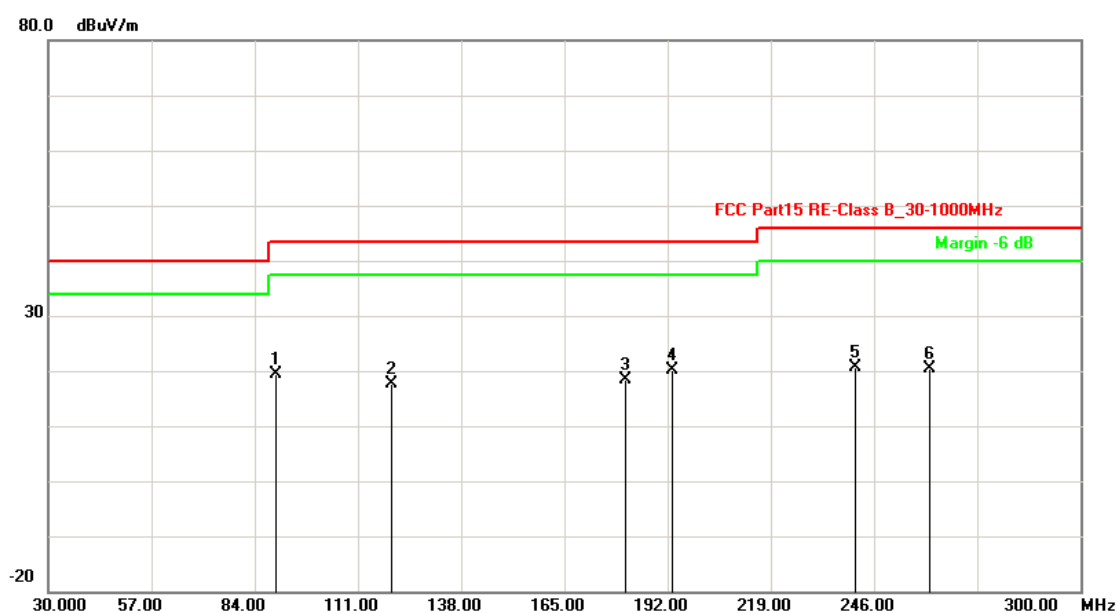
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Channel:	433.99 MHz (RX)	Result:	■ - passed □ - not passed
Test point:	Vertical		
Frequency range:	30-MHz~12GHz		

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	350TX

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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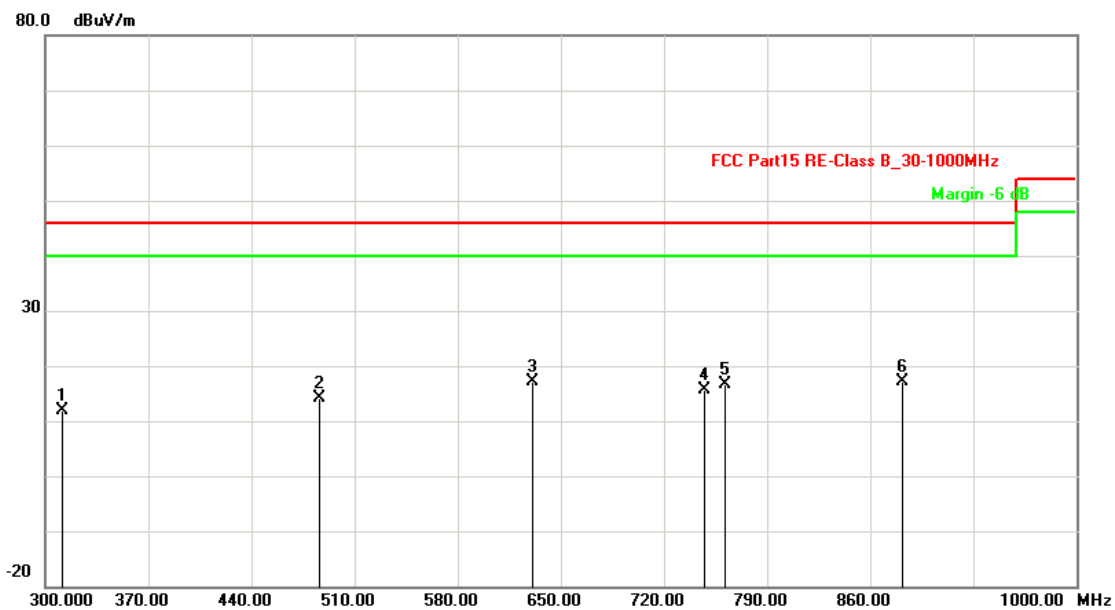
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBμV/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	311.2223	-39.23	51.19	11.96	46.00	-34.04	QP
2	486.5731	-30.26	44.28	14.02	46.00	-31.98	QP
3	631.0620	-28.09	45.29	17.20	46.00	-28.80	QP
4	747.4949	-27.43	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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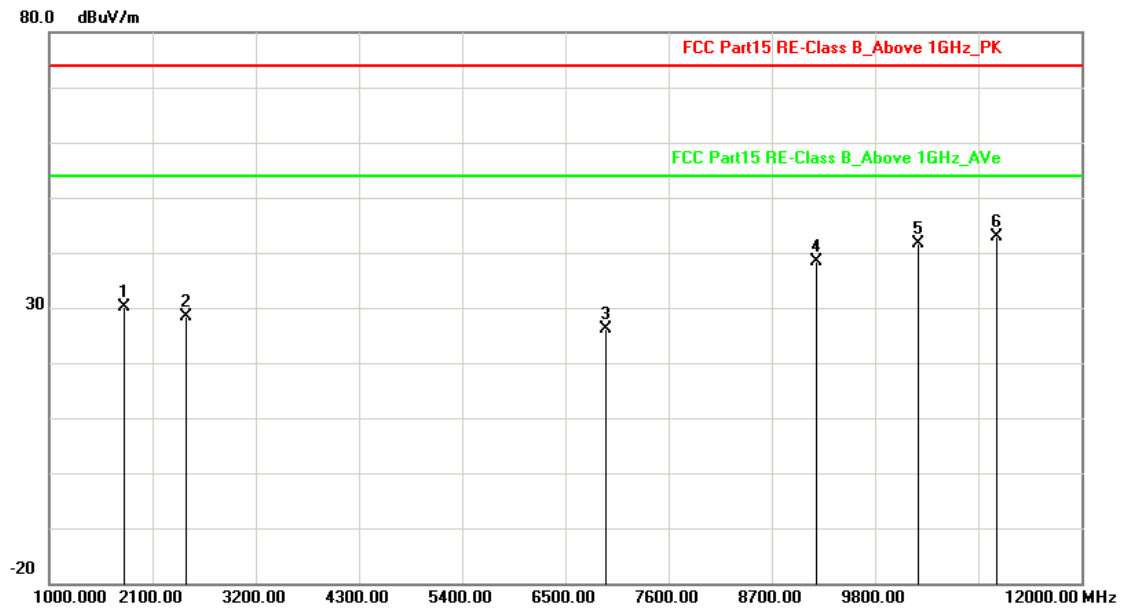
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Above 1GHz



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.



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:	Canadian Weather Trivia Thermometer
M/N:	350TX
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:	433.99 MHz
Test Date:	25 Sep. 2012
Test By:	Duke

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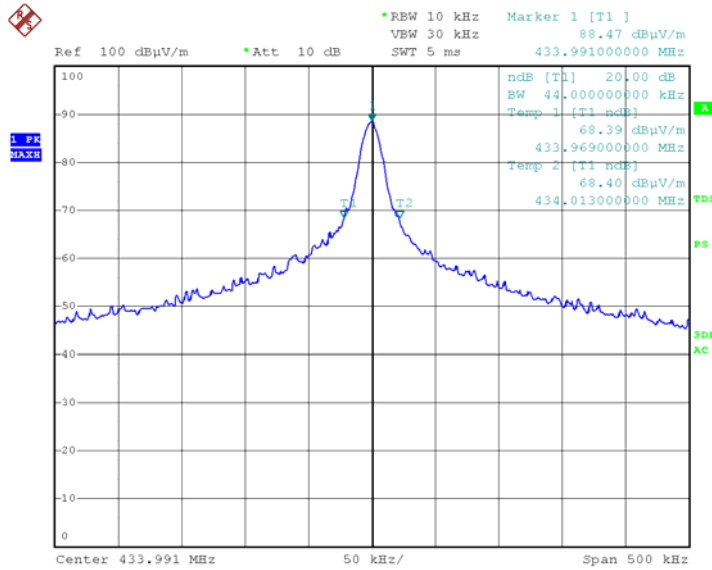


8.3. Test Results

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
433.99	44	434*0.25%=1.085MHz	PASSED



Date: 25.SEP.2012 12:42:32

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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:	Canadian Weather Trivia Thermometer
M/N:	350TX
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:	433.99 MHz
Test Date:	25 Sep. 2012
Test By:	Duke

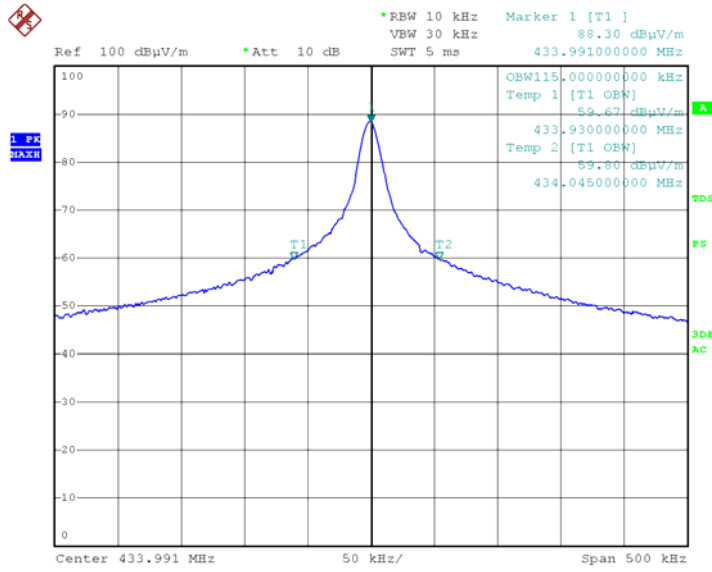
9.4. Test Results

PASSED.

Frequency (MHz)	Bandwidth (MHz)
433.99	115KHz



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

10.2. Test Information

EUT:	Canadian Weather Trivia Thermometer
M/N:	350TX
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:	433.99 MHz
Test Date:	25 Sep. 2012
Test By:	Duke

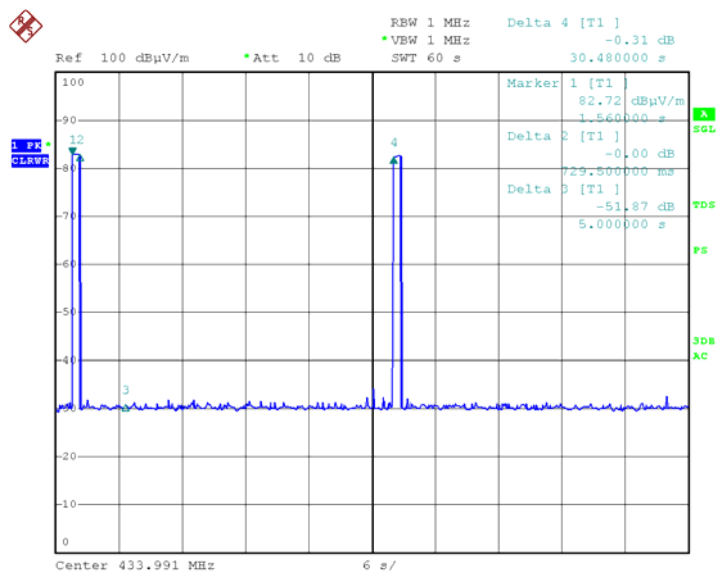
10.3. Test Results

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 729.5ms, we could see the EUT stop transmitting.

Frequency (MHz)	Stop Transmitting Time	Limit: not more than 5 seconds of being released	Conclusion
433.99	729.5ms	5s	PASSED



Date: 25.SEP.2012 13:00:36

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11. Pulse Desensitization Correction Factor

11.1. 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

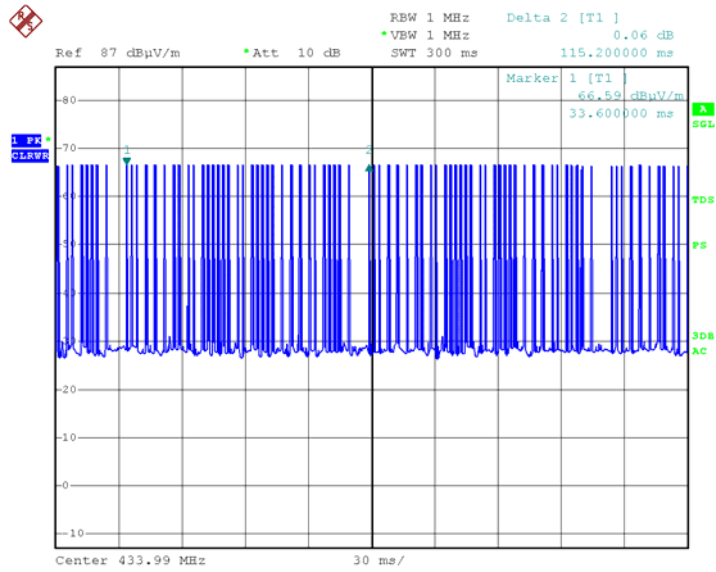
11.2. Test Information

EUT:	Canadian Weather Trivia Thermometer
M/N:	350TX
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:	433.99 MHz
Test Date:	25 Sep. 2012
Test By:	Duke

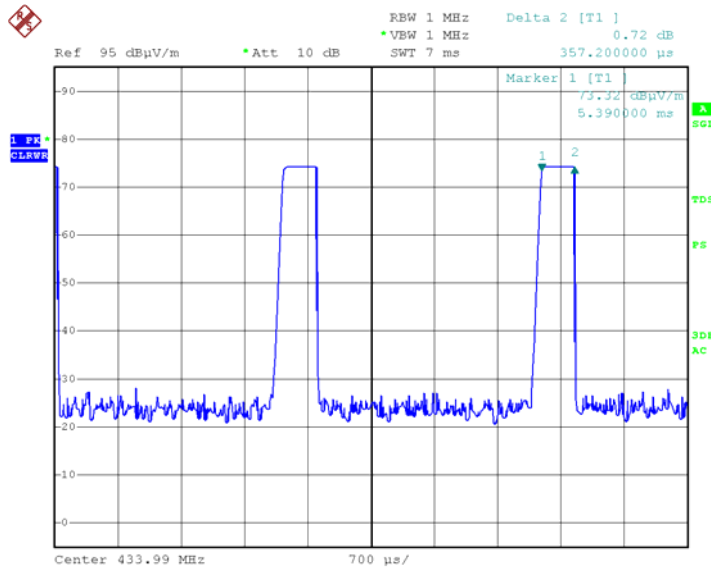
11.3. Test Results

PASSED.

The testing data was attached in the next pages.



Date: 22.OCT.2012 17:40:44



Date: 25.OCT.2012 16:42:53

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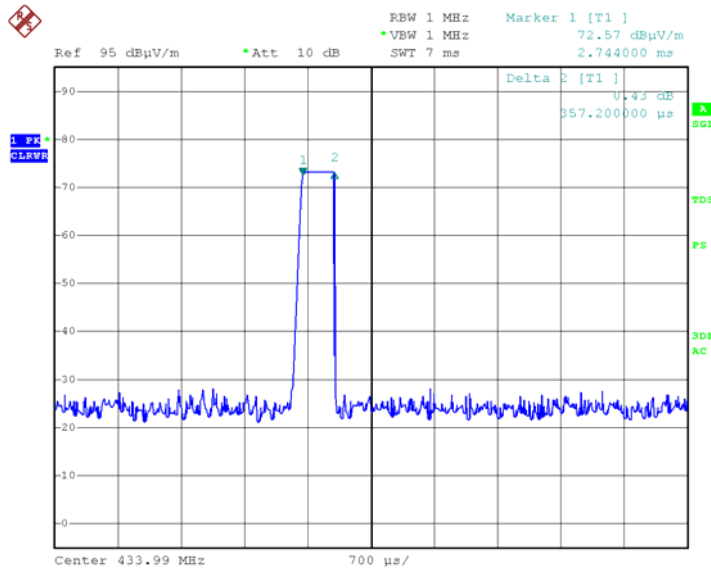
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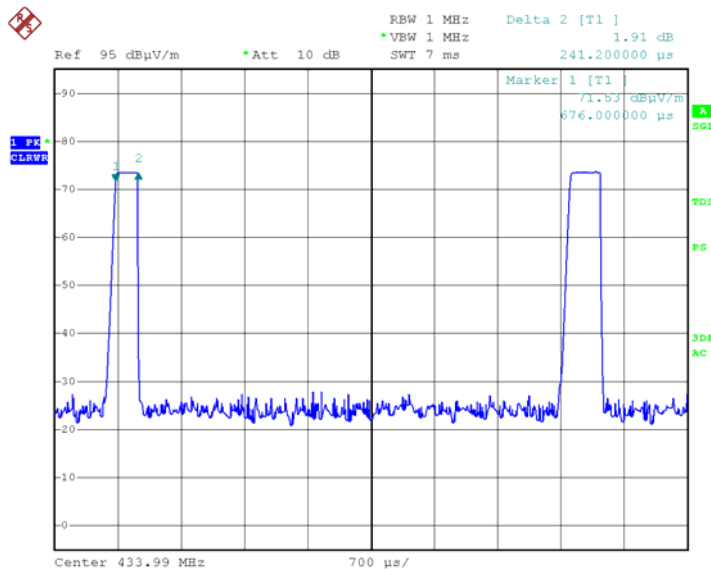
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Date: 25.OCT.2012 16:48:57



Date: 25.OCT.2012 16:45:41

Test Data

Ton+off=729.5ms(which exceeds 0.1 seconds,and use the formula Ton/100ms to calculate the duty-cycle correction factor)
 Ton=0.2412ms*12+0.3572ms*21=10.3956ms
 Duty cycle Correction Factor=20*log(Ton/Ton+off)= 20*log 10.3956ms /100ms= -19.66dB

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12. Manufacturer/ Approval holder Declaration

The following identical model(s):

259TX, 261TX, 264TX

Belong to the tested device:

Product description: **Canadian Weather Trivia Thermometer**
Model name: **350TX**

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