



STC Test Report

Date : 2012-09-21

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No. : HM167830

Applicant (CKT001):

CKICOM TECHNOLOGY LTD.

Flat F 4/F Universal Ind. Ctr. 19-21 Shan Mei St, Fotan,
Hong Kong.

Manufacturer:

CKICOM TECHNOLOGY LTD.

Flat F 4/F Universal Ind. Ctr. 19-21 Shan Mei St, Fotan,
Hong Kong.

Description of Sample(s):

Submitted sample(s) said to be

Product: Wetness Sensor

Brand Name: Carease

Model Number: T-230

FCC ID: YQKCEIPT-230

Date Sample(s) Received: 2012-08-15

Date Tested: 2012-08-29 to 2012-09-10

Investigation Requested:

Perform ElectroMagnetic Interference measurement in
accordance with FCC 47CFR [Codes of Federal Regulations]
Part 15: 2011 and ANSI C63.4:2009 for FCC Certification.

Conclusion(s):

The submitted product COMPLIED with the requirements of
Federal Communications Commission [FCC] Rules and
Regulations Part 15. The tests were performed in accordance
with the standards described above and on Section 2.2 in this
Test Report.

Remark(s):

Dr. LEE Kam Chuen
Authorized Signatory
ElectroMagnetic Compatibility Department
For and on behalf of
The Hong Kong Standards and Testing Centre Ltd.

The Hong Kong Standards and Testing Centre Ltd.

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1.0 General Details

1.1 Test Laboratory

The Hong Kong Standards and Testing Centre Ltd.
EMC Laboratory
10 Dai Wang Street, Taipo Industrial Estate
New Territories, Hong Kong

Telephone: 852 2666 1888
Fax: 852 2664 4353

1.2 Applicant Details

Applicant

CKICOM TECHNOLOGY LTD.
Flat F 4/F Universal Ind. Ctr. 19-21 Shan Mei St, Fotan, Hong Kong.

Manufacturer

CKICOM TECHNOLOGY LTD.
Flat F 4/F Universal Ind. Ctr. 19-21 Shan Mei St, Fotan, Hong Kong.

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1.3 Equipment Under Test [EUT]

Description of Sample

Submitted sample(s) said to be

Product: Wetness Sensor

Manufacturer: CKICOM TECHNOLOGY LTD.

Brand Name: Carease

Model Number: T-230

Rating: 3Vd.c. ("LR43" size battery x 2)

1.3.1 Description of EUT Operation

The Equipment Under Test (EUT) is a CKICOM TECHNOLOGY LTD., Wetness Sensor. The EUT is a 433MHz transceiver, a RF signal will be transmitted when the wetness sensor of EUT is triggered, the RF transmission will stop when the sensor resumed to un-triggered status or is disable by another transmitter.

1.4 Date of Order

2012-08-15

1.5 Submitted Sample(s):

1 Sample

1.6 Test Duration

2012-08-29 to 2012-09-10

1.7 Country of Origin

Hong Kong

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2.0 Technical Details

2.1 Investigations Requested

Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15 2011 and ANSI C63.4:2009 for FCC Certification.

2.2 Test Standards and Results Summary Tables

EMISSION Results Summary					
Test Condition	Test Requirement	Test Method	Class / Severity		Test Result
			Pass	Failed	
Field Strength of Fundamental Emissions & Spurious Emissions	FCC 47CFR 15.231e	ANSI C63.4:2009	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Radiated Emissions, 30MHz to 1GHz	FCC 47CFR 15.209	ANSI C63.4:2009	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Note: N/A - Not Applicable

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3.0 Test Results

3.1 Emission

3.1.1 Radiated Emissions (30 – 1000MHz)

Test Requirement: FCC 47CFR 15.231e
Test Method: ANSI C63.4:2009
Test Date: 2012-08-29
Mode of Operation: Tx on mode / Rx on mode

Test Method:

The sample was placed 0.8m above the ground plane of semi-anechoic Chamber*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

* Semi-anechoic chamber located on the G/F of “The Hong Kong Standards and Testing Centre Ltd.” with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 607756.

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Spectrum Analyzer Setting:

9KHz – 30MHz (Pk & Av)

RBW: 10kHz
VBW: 30kHz
Sweep: Auto
Span: Fully capture the emissions being measured
Trace: Max. hold

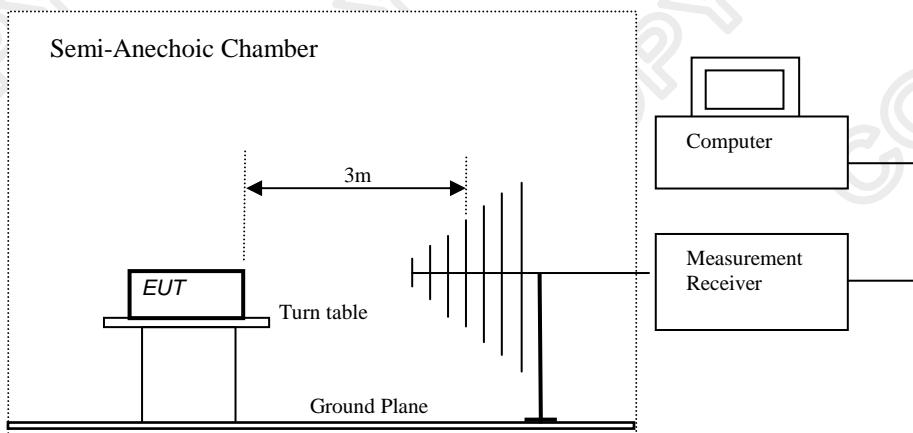
30MHz – 1GHz (QP)

RBW: 120kHz
VBW: 120kHz
Sweep: Auto
Span: Fully capture the emissions being measured
Trace: Max. hold

Above 1GHz (Pk & Av)

RBW: 3MHz
VBW: 3MHz
Sweep: Auto
Span: Fully capture the emissions being measured
Trace: Max. hold

Test Setup:



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Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.231e]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [Average] [μ V/m]	Field Strength of Spurious Emission [Average] [μ V/m]
40.66-40.70	1,000	100
70-130	500	50
130-174	500 to 1,500 **	50 to 150 **
174-260	1,500	150
260-470	1,500 to 5,000 **	150 to 500 **
Above 470	5,000	500

Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz, μ V/m at 3 meters = $22.72727(F) - 2454.545$; for the band 260-470 MHz, μ V/m at 3 meters = $16.6667(F) - 2833.3333$. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.

Results of Tx on mode: PASS

Field Strength of Fundamental Emissions Peak Value						
Frequency MHz	Measured Level @3m dB μ V/m	Correction Factor dB/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @3m μ V/m	E-Field Polarity
434.0	63.3	19.0	82.3	13,031.7	43,996.8	Horizontal
868.1	12.8	26.3	39.1	90.2	4,399.7	Horizontal
+	1301.9	< 1.0	28.2	< 29.2	< 28.8	5,000.0
	1735.9	< 1.0	31.4	< 32.4	< 41.7	4,399.7
	2169.9	< 1.0	32.9	< 33.9	< 49.5	4,399.7
	2603.9	< 1.0	32.9	< 33.9	< 49.5	4,399.7
	3037.9	< 1.0	5.8	< 6.8	< 2.2	4,399.7
	3471.8	< 1.0	34.9	< 35.9	< 62.4	4,399.7
+	3905.8	< 1.0	26.5	< 27.5	< 23.7	5,000.0
+	4339.8	< 1.0	26.5	< 27.5	< 23.7	5,000.0

Remarks:

FCC Limit for Fundamental Average Measurement = $16.6667(433.98) - 2833.3333 = 4,399.7 \mu$ V/m

+: Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 were not adjusted for averaging and the limits of FCC Rules Part 15 Section 15.209 were applied.

*: Adjusted by Duty Cycle = -19.3dB

Duty Cycle Correction = -20dB, if the calculation duty cycle correction >-20dB

Correction Factor includes Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz 5.1dB

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Results of Tx on mode: PASS

Field Strength of Fundamental Emissions							
Average Value							
Frequency MHz	Measured Level @3m dB μ V/m	Correction Factor dB/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @3m μ V/m	E-Field Polarity	
434.0	44.1	19.0	63.1	1,428.9	4,399.7	Horizontal	
868.1	0.0	26.3	26.3	20.7	440.0	Horizontal	
+	1301.9	< 17.2	28.2	< 45.4	< 186.2	500.0	Horizontal
	1735.9	< 11.7	31.4	< 43.1	< 142.9	440.0	Horizontal
	2169.9	< 10.4	32.9	< 43.3	< 146.2	440.0	Horizontal
	2603.9	< 13.8	32.9	< 46.7	< 216.3	440.0	Horizontal
	3037.9	< 1.0	5.8	< 6.8	< 2.2	440.0	Horizontal
	3471.8	< 1.0	34.9	< 35.9	< 62.4	440.0	Horizontal
+	3905.8	< 1.0	26.5	< 27.5	< 23.7	500.0	Horizontal
+	4339.80	< 1.0	26.5	< 27.5	< 23.7	500.0	Horizontal

Remarks:

FCC Limit for Fundamental Average Measurement = $16.6667(433.98)-2833.3333=4,399.7\mu$ V/m

+: Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 were not adjusted for averaging and the limits of FCC Rules Part 15 Section 15.209 were applied.

*: Adjusted by Duty Cycle = -19.3dB

Duty Cycle Correction = -20dB, if the calculation duty cycle correction >-20dB

Correction Factor includes Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz 5.1dB

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Limits for Radiated Emissions [FCC 47 CFR 15.209]:

Frequency Range [MHz]	Field strength [microvolts/meter]	Measurement distance [meters]
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above960	500	3

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Results of Tx on mode (9k – 30MHz): PASS

Field Strength of Spurious Emissions						
Average Value						
Frequency MHz	Measured Level dB μ V/m	Correction Factor dB/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit μ V/m	E-Field Polarity
Emissions detected are more than 20 dB below the FCC Limits						

Results of Tx on mode (30MHz – 1000MHz): PASS

Field Strength of Spurious Emissions						
Quasi-Peak Value						
Frequency MHz	Measured Level dB μ V/m	Correction Factor dB/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit μ V/m	E-Field Polarity
Emissions detected are more than 20 dB below the FCC Limits						

Results of Tx on mode (1000MHz): PASS

Field Strength of Spurious Emissions						
Peak Value						
Frequency MHz	Measured Level dB μ V/m	Correction Factor dB/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit μ V/m	E-Field Polarity
Emissions detected are more than 20 dB below the FCC Limits						

Results of Tx on mode (Above 1000MHz): PASS

Field Strength of Spurious Emissions						
Average Value						
Frequency MHz	Measured Level dB μ V/m	Correction Factor dB/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit μ V/m	E-Field Polarity
Emissions detected are more than 20 dB below the FCC Limits						

Remarks:

Correction Factor includes Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz 5.1dB

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Limits for Radiated Emissions [FCC 47 CFR 15.209]:

Frequency Range [MHz]	Field strength [microvolts/meter]	Measurement distance [meters]
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above960	500	3

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Results of Rx on mode (9k – 30MHz): PASS

Field Strength of Spurious Emissions Average Value						
Frequency MHz	Measured Level dB μ V/m	Correction Factor dB/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit μ V/m	E-Field Polarity
Emissions detected are more than 20 dB below the FCC Limits						

Results of Rx on mode (30MHz – 1000MHz): PASS

Field Strength of Spurious Emissions Quasi-Peak Value						
Frequency MHz	Measured Level dB μ V/m	Correction Factor dB/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit μ V/m	E-Field Polarity
434.30	1.3	19	20.3	10.4	200.0	Horizontal

Results of Rx on mode (1000MHz): PASS

Field Strength of Spurious Emissions Peak Value						
Frequency MHz	Measured Level dB μ V/m	Correction Factor dB/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit μ V/m	E-Field Polarity
Emissions detected are more than 20 dB below the FCC Limits						

Results of Rx on mode (Above 1000MHz): PASS

Field Strength of Spurious Emissions Average Value						
Frequency MHz	Measured Level dB μ V/m	Correction Factor dB/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit μ V/m	E-Field Polarity
Emissions detected are more than 20 dB below the FCC Limits						

Remarks:

Correction Factor includes Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz 5.1dB

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3.2 20dB Bandwidth of Fundamental Emission

Test Requirement:	FCC 47 CFR 15.231e
Test Method:	ANSI C63.4:2003 (Section 13.1.7)
Test Date:	2012-09-10
Mode of Operation:	Tx on mode

Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

Test Setup:

As Test Setup of clause 3.1.1 in this test report.

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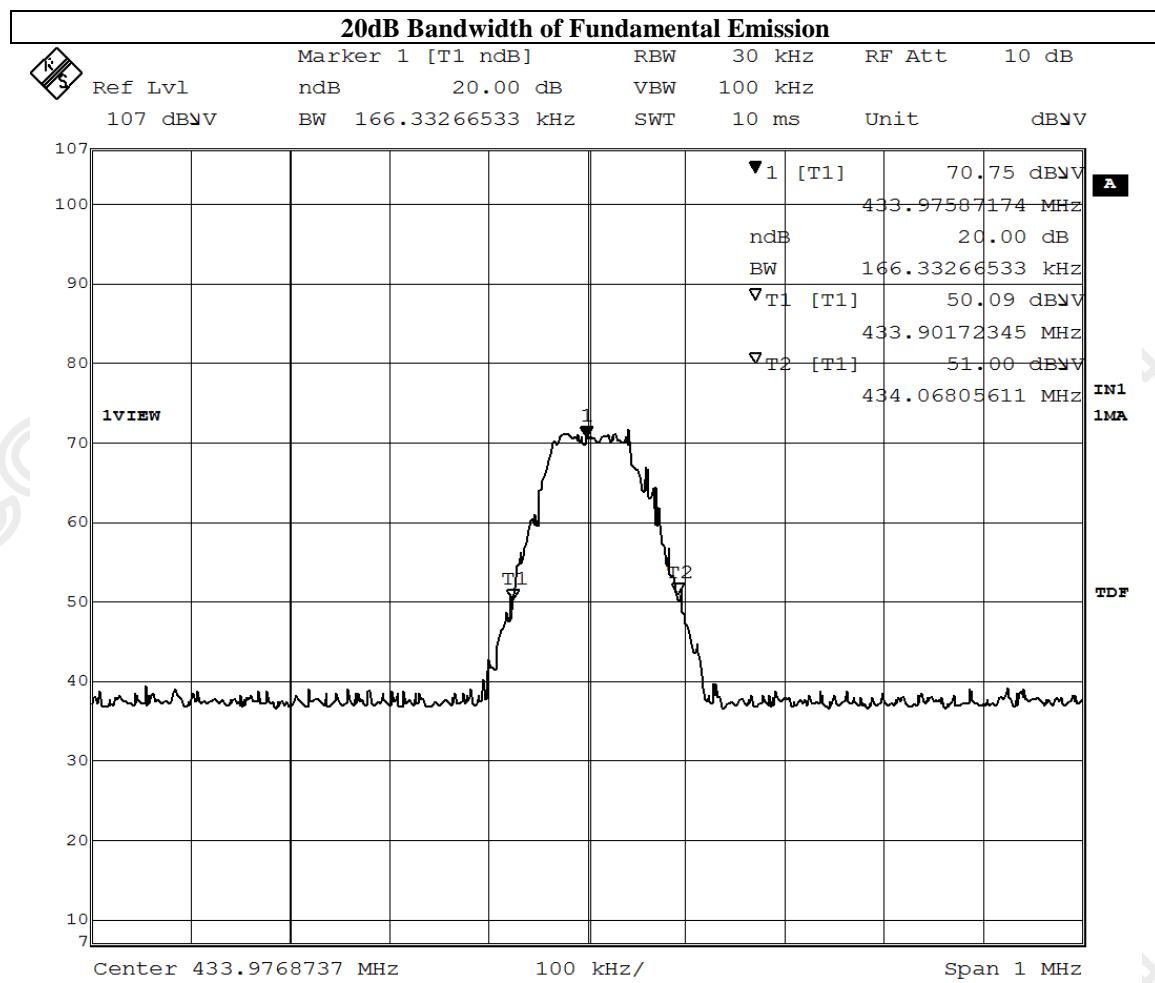
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Limits for 20 dB Bandwidth of Fundamental Emission:

Frequency Range [MHz]	20dB Bandwidth [kHz]	FCC Limits * [kHz]
433.98	166.3	1084.95

*: FCC Limit for Bandwidth measurement
= (0.25%)(Center Frequency)
=(0.0025)(433.98)
= 1084.95kHz



Date: 3.SEP.2012 13:50:12

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Appendix A

List of Measurement Equipment

Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM299	DOUBLE-RIDGED WAVEGUIDE HORN ANTENNA	ETS-LINDGREN	3115	00114120	2012/01/25	2014/01/25
EM215	MULTIDEVICE CONTROLLER	EMCO	2090	00024676	N/A	N/A
EM216	MINI MAST SYSTEM	EMCO	2075	00026842	N/A	N/A
EM217	ELECTRIC POWERED TURNTABLE	EMCO	2088	00029144	N/A	N/A
EM218	ANECHOIC CHAMBER	ETS-LINDGREN	FACT-3	--	2011/10/25	2012/10/25
EM194	BICONILOG ANTENNA	EMCO	3142B	1795	2010/10/06	2012/10/06
EM229	EMI TEST RECEIVER	R&S	ESIB40	100248	2012/05/03	2013/05/03
EM022	LOOP ANTENNA	EMCO	6502	1189-2424	2011/09/14	2013/09/14

Remarks:-

CM Corrective Maintenance

N/A Not Applicable

TBD To Be Determined

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Appendix B

Duty Cycle Correction During 100msec [FCC 47CFR 15.231(e)]

The transmitter periodically sends a different series of characters. There are 3 pulses (pulse duration = 3.61ms) within 100ms. Assuming any combination of short and long pulses may be obtained due to encoding the worst case transmit duty cycle would be considered $(3 \times 3.61\text{msec})/100 \times 100\% = 10.83\%$ duty cycle. Figure A through F show the characteristics of the pulses train for one of these functions.

Remarks:

Duty Cycle Correction = $20\log(0.1083) = -19.3\text{dB}$

Duty Cycle Correction = -20dB, if the calculation duty cycle correction >-20dB

The following figures [Figure A to Figure C] showed the characteristics of the pulse train for one of these functions.

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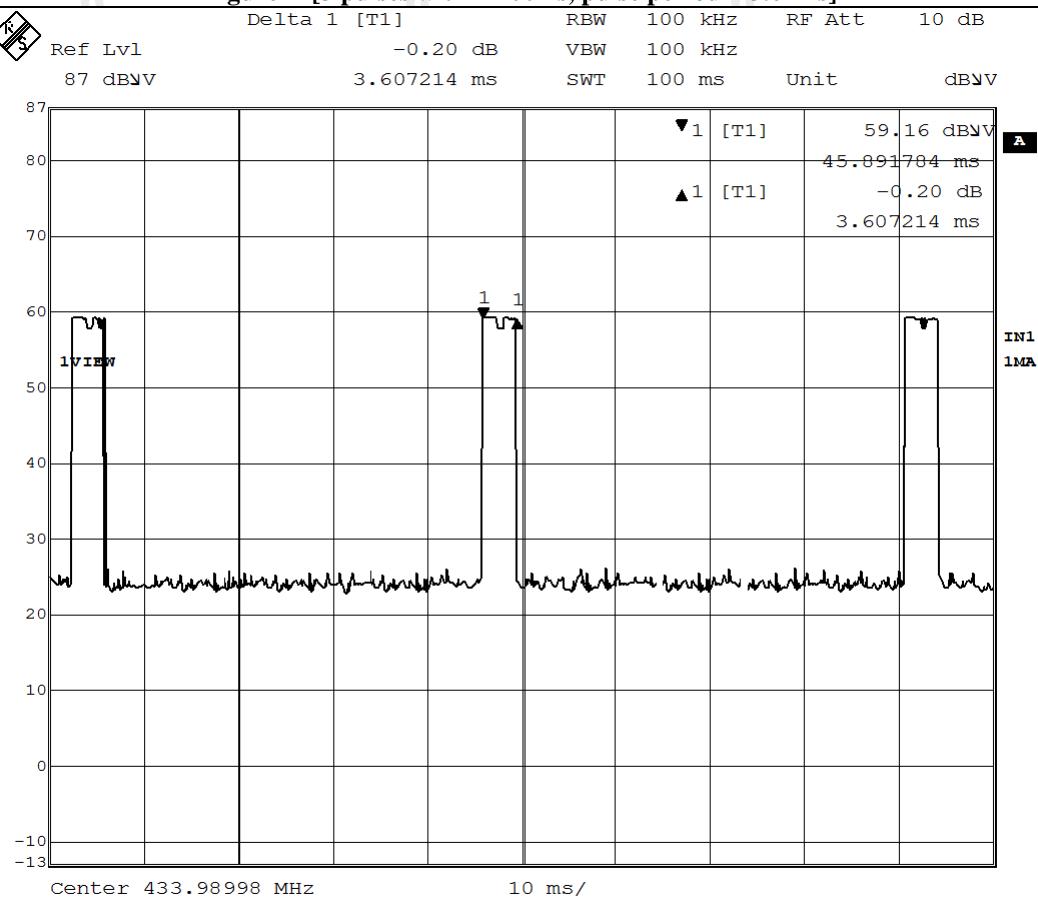
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Figure A [3 pulses within 100ms, pulse period = 3.61ms]



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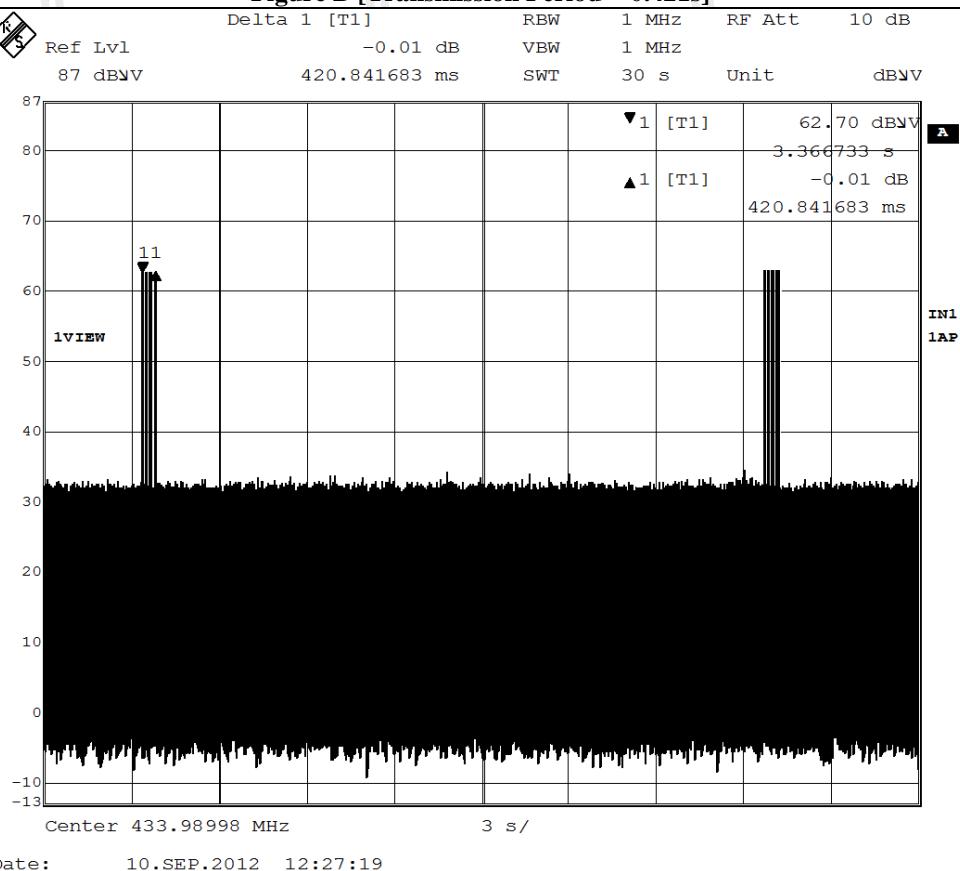
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Figure B [Transmission Period = 0.421s]



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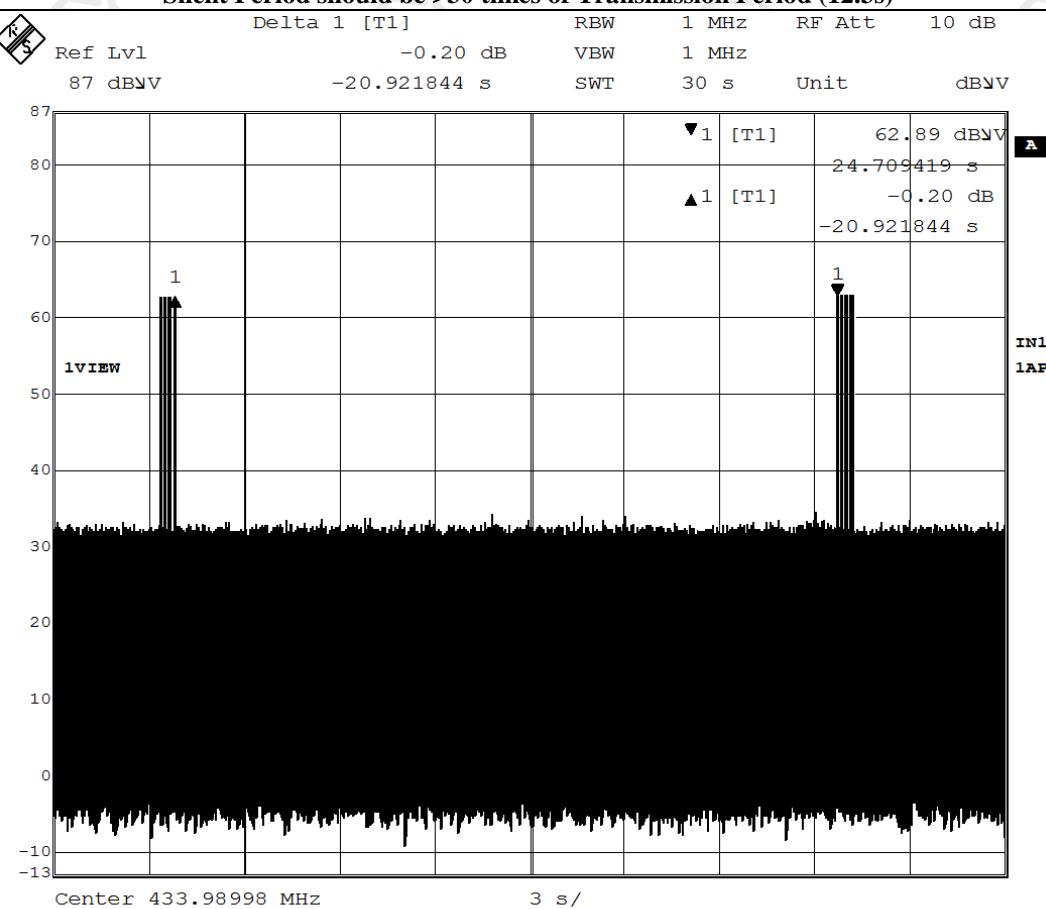
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**Figure C [Silent Period = 20.922s]
Silent Period should be >30 times of Transmission Period (12.3s)**



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Appendix C

Periodic Operation [FCC 47CFR 15.231(e)]

According to FCC 47CFR15.231 (e). A periodic transmitter shall be provided with a means for automatically limiting operation so that the duration of each transmission shall not be greater than one second and the silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 seconds.

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Appendix D

Photographs of EUT

Front View of the product



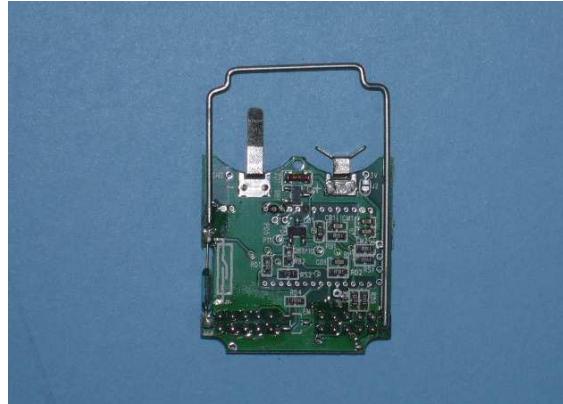
Rear View of the product



Inner Circuit Top View



Inner Circuit Bottom View



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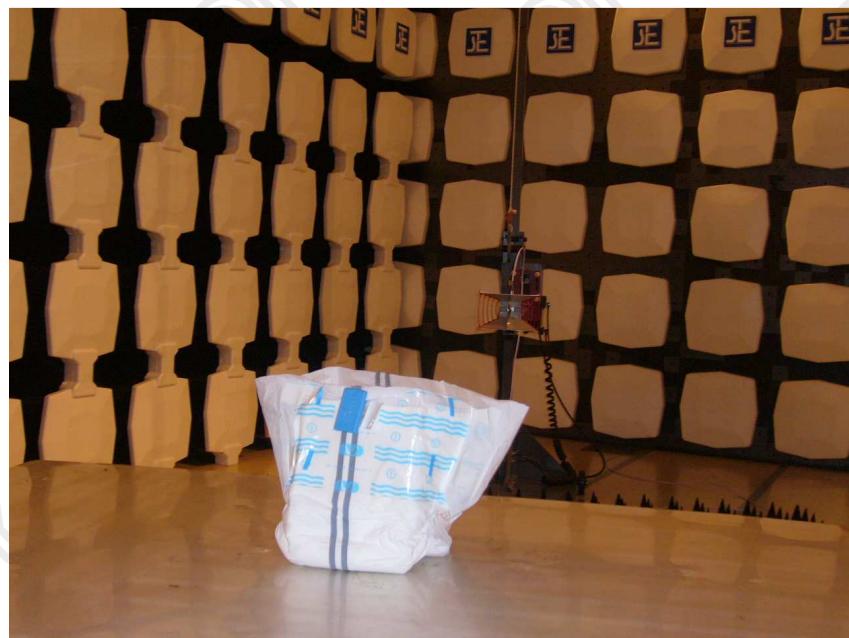
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Photographs of EUT

Measurement of Radiated Emission Test Set Up



***** End of Test Report *****

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