



STC Test Report

Date : 2010-10-12

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No. : MH184530

Applicant (C01496): Shenzhen Shen's Tongchuang Aeronautic Model Co., Ltd
The opposition of Xinjiang Community Education Base,
Guangming New District, Shenzhen, China

Manufacturer: Shenzhen Shen's Tongchuang Aeronautic Model Co., Ltd
The opposition of Xinjiang Community Education Base,
Guangming New District, Shenzhen, China

Description of Sample(s):

Product:	Transmitter
Brand Name:	N/A
Model Number:	TX1P17A
FCC ID:	XUN015495

Date Sample(s) Received: 2010-09-14

Date Tested: 2010-09-23

Investigation Requested: Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2009 and ANSI C63.4:2003 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 Equipment Under Test [EUT] Description of Sample(s)

Product:	Transmitter
Manufacturer:	Shenzhen Shen's Tongchuang Aeronautic Model Co., Ltd
Brand Name:	N/A
Model Number:	TX1P17A
Input Voltage:	6Vd.c. ("AA" size battery×4)

1.2 Description of EUT Operation

The Equipment Under Test (EUT) is a Shenzhen Shen's Tongchuang Aeronautic Model Co., Ltd, Transmitter. The transmission signal is frequency hopping with channel frequency range 2410.0.-2475.0MHz during normal use. The EUT was set to fixed frequency test mode by application.

1.3 Date of Order

2010-09-14

1.4 Submitted Sample(s):

1 Sample

1.5 Test Duration

2010-09-23

1.6 Country of Origin

China

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2.0 Technical Details

2.1 Investigations Requested

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2009 Regulations and ANSI C63.4:2003 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	Fail	N/A
Field Strength of Fundamental & Harmonics Emissions	FCC 47CFR 15.249	ANSI C63.4:2003	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Radiated Emissions	FCC 47CFR 15.209	ANSI C63.4:2003	N/A	<input checked="" type="checkbox"/>	<input 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

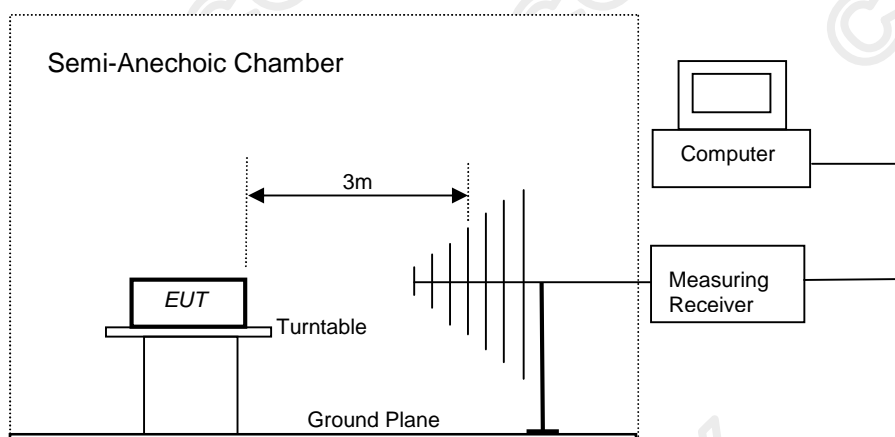
Test Requirement: FCC 47CFR 15.249
Test Method: ANSI C63.4:2003
Test Date: 2010-09-23
Mode of Operation: Tx mode

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, rotated about all 3 axis (X, Y & Z) and 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.

Test Setup:



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Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [microvolts/meter]	Field Strength of Harmonics Emission [microvolts/meter]
902-928	50,000 [Average]	500 [Average]
2400-2483.5	50,000 [Average]	500 [Average]

Results of Tx mode: Pass

Field Strength of Fundamental Emissions Peak Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
2410.0	73.1	36.8	109.9	312,607.9	500,000	Vertical
4820.0	21.1	41.9	63.0	1,412.5	5,000	Vertical
7230.0	20.8	47.8	68.6	2,691.5	5,000	Vertical
9640.0	No Emission Detected				500	Vertical
* 12050.0					500	Vertical
14460.0					500	Vertical
16870.0					500	Vertical
* 19280.0					500	Vertical
21690.0					500	Vertical
24100.0					500	Vertical

Field Strength of Fundamental Emissions Average Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
+ 2410.0	53.6	36.8	90.4	33,113.1	50,000	Vertical
+ 4820.0	1.6	41.9	43.5	149.6	500	Vertical
+ 7230.0	1.3	47.8	49.1	285.1	500	Vertical

Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz z

*: 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 and the limits of FCC Rules Part 15 Section 15.209 were applied.

+: Adjusted by Duty Cycle = -19.5dB

Calculated measurement uncertainty : 30MHz to 1GHz 5.2dB
1GHz to 18GHz 5.1dB

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Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [microvolts/meter]	Field Strength of Harmonics Emission [microvolts/meter]
902-928	50,000 [Average]	500 [Average]
2400-2483.5	50,000 [Average]	500 [Average]

Results of Tx mode: Pass

Field Strength of Fundamental Emissions Peak Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
2443.0	71.3	36.9	108.2	257,039.6	500,000	Vertical
* 4886.0	20.9	42.0	62.9	1,396.4	5,000	Vertical
* 7329.0	21.1	48.0	69.1	2,851.0	5,000	Vertical
9772.0	No Emission Detected				500	Vertical
* 12215.0					500	Vertical
14658.0					500	Vertical
17101.0					500	Vertical
* 19544.0					500	Vertical
21987.0					500	Vertical
24430.0					500	Vertical

Field Strength of Fundamental Emissions Average Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
+ 2443.0	51.8	36.9	88.7	27,227.0	50,000	Vertical
+* 4886.0	1.4	42.0	43.4	147.9	500	Vertical
+* 7329.0	1.6	48.0	49.6	302.0	500	Vertical

Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

*: 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 and the limits of FCC Rules Part 15 Section 15.209 were applied.

+: Adjusted by Duty Cycle = -19.5dB

Calculated measurement uncertainty : 30MHz to 1GHz 5.2dB
1GHz to 18GHz 5.1dB

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Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [microvolts/meter]	Field Strength of Harmonics Emission [microvolts/meter]
902-928	50,000 [Average]	500 [Average]
2400-2483.5	50,000 [Average]	500 [Average]

Results of Tx mode: Pass

Field Strength of Fundamental Emissions Peak Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
2475.0	70.8	37.1	107.9	248,313.3	500,000	Vertical
* 4950.0	20.3	42.0	62.3	1,303.2	5,000	Vertical
* 7425.0	20.0	48.2	68.2	2,570.4	5,000	Vertical
9900.0	No Emission Detected				500	Vertical
* 12375.0					500	Vertical
14850.0					500	Vertical
17325.0					500	Vertical
* 19800.0					500	Vertical
* 22275.0					500	Vertical
24750.0					500	Vertical

Field Strength of Fundamental Emissions Average Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
+ 2475.0	51.3	37.1	88.4	26,302.7	50,000	Vertical
+* 4950.0	0.8	42.0	42.8	138.0	500	Vertical
+* 7425.0	0.5	48.2	48.7	272.3	500	Vertical

Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

*: 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 and the limits of FCC Rules Part 15 Section 15.209 were applied.

+: Adjusted by Duty Cycle = -19.5dB

Calculated measurement uncertainty : 30MHz to 1GHz 5.2dB
1GHz to 18GHz 5.1dB

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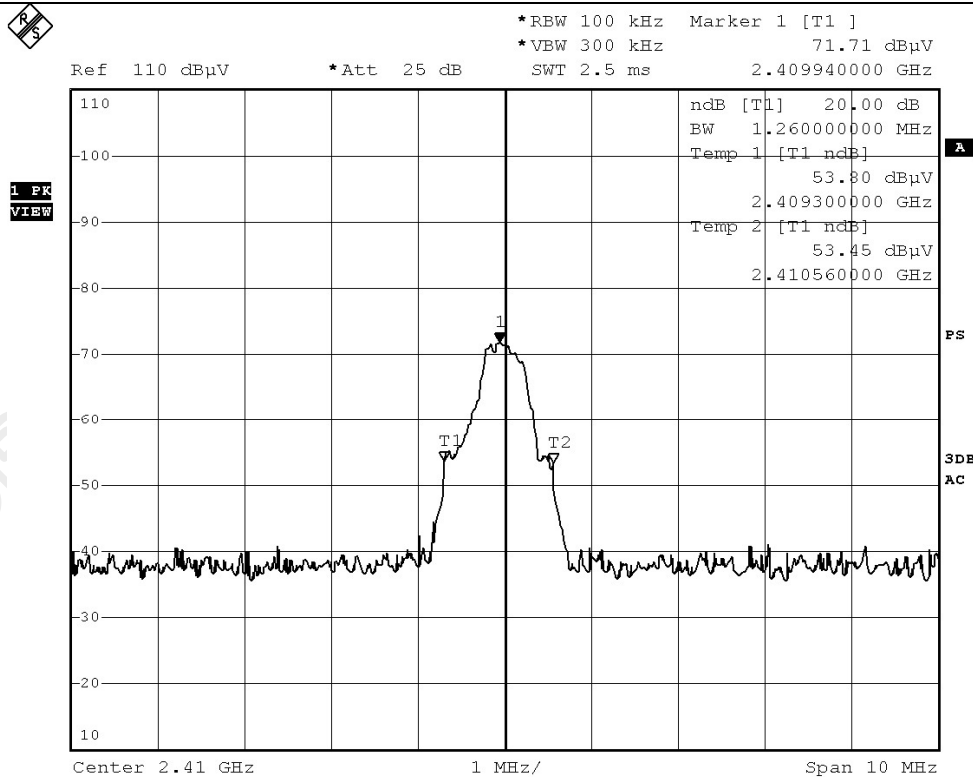
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Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range [MHz]	20dB Bandwidth [MHz]
2410	1.26

20dB Bandwidth of Fundamental Emission



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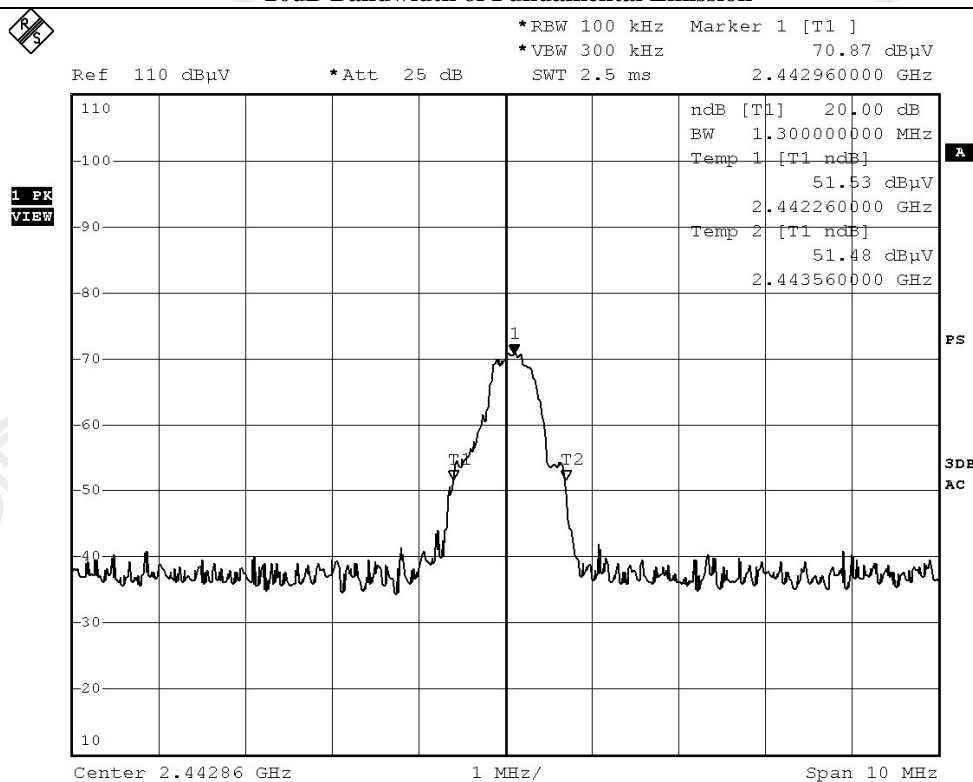
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Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range [MHz]	20dB Bandwidth [MHz]
2443	1.30

20dB Bandwidth of Fundamental Emission



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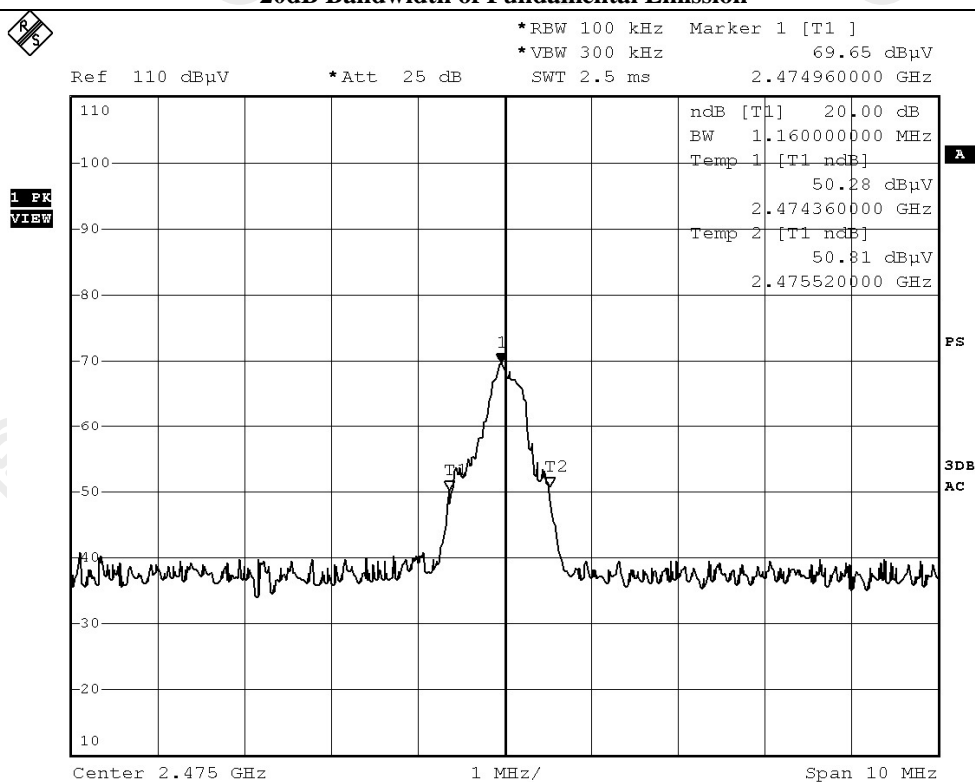
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Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range [MHz]	20dB Bandwidth [MHz]
2475	1.16

20dB Bandwidth of Fundamental Emission



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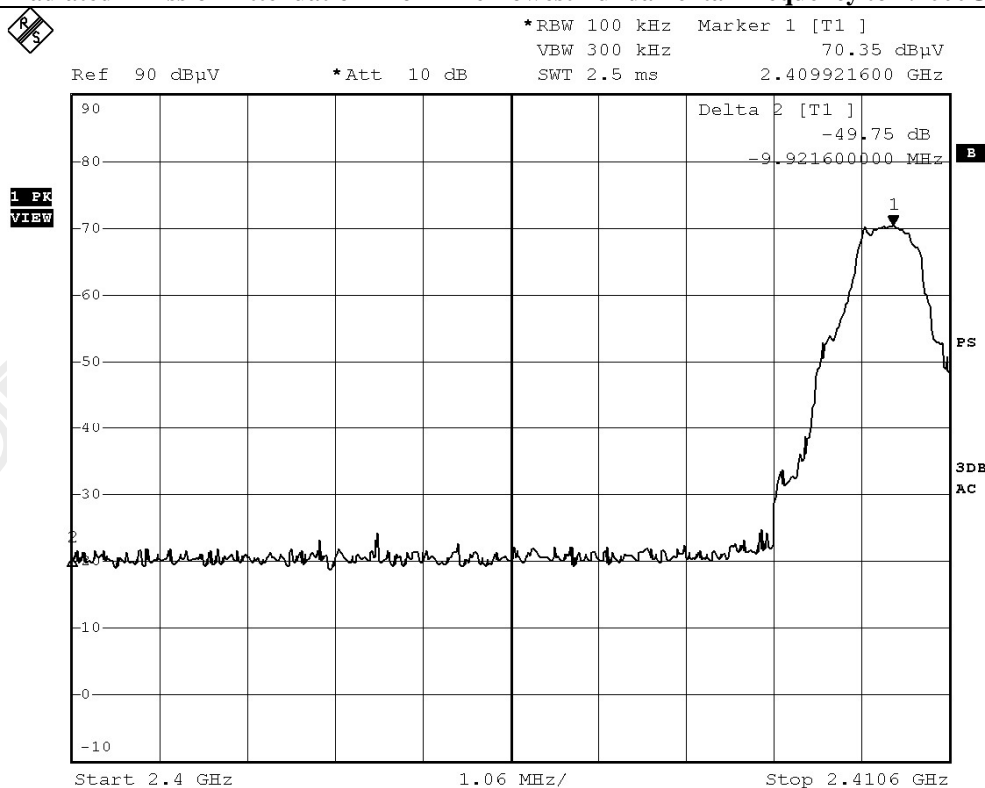
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Band Edge Measurement:

Frequency Range [MHz]	Radiated Emission Attenuated below the Fundamental [dB]
2400.0 – Lowest Fundamental	-49.75 (Actual Radiated Emission level = 20.60dB μ V/m)

Radiated Emission Attenuation From The Lowest Fundamental Frequency to 2.4000GHz



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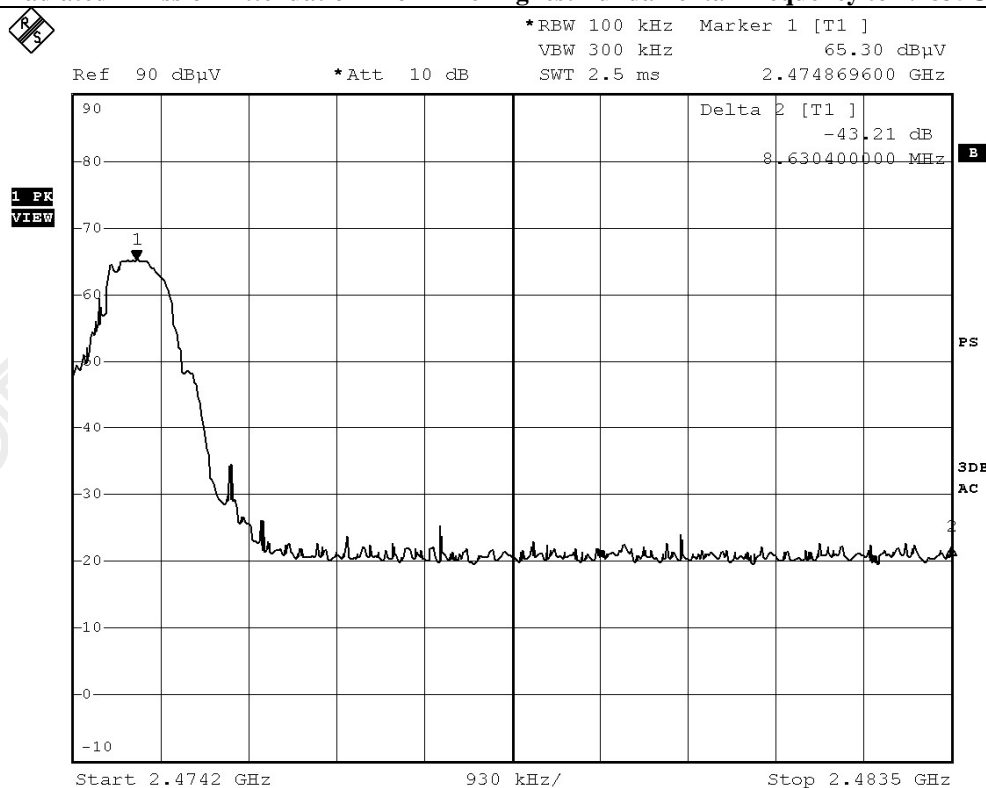
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Band Edge Measurement:

Frequency Range [MHz]	Radiated Emission Attenuated below the Fundamental [dB]
Highest Fundamental – 2483.5	-43.21 (Actual Radiated Emission level = 22.09dB μ V/m)

Radiated Emission Attenuation From The Highest Fundamental Frequency to 2.4835GHz



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Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

Frequency Range [MHz]	Quasi-Peak Limits [$\mu\text{V/m}$]
30-88	100
88-216	150
216-960	200
Above 960	500

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 mode: PASS

Please refer to the following table for result details

Radiated Emissions Quasi-Peak					
Emission Frequency MHz	E-Field Polarity	Level @ 3m $\text{dB}\mu\text{V/m}$	Limit @ 3m $\text{dB}\mu\text{V/m}$	Level @ 3m $\mu\text{V/m}$	Limit @ 3m $\mu\text{V/m}$
74.4	Vertical	24.5	40.0	16.8	100
148.8	Vertical	32.6	43.5	42.7	150
247.9	Vertical	34.3	46.0	51.9	200
297.6	Vertical	27.5	46.0	23.7	200
867.9	Horizontal	42.4	46.0	131.8	200
967.1	Vertical	44.2	54.0	162.2	500

Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz 5.2dB
1GHz to 18GHz 5.1dB

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Appendix A

List of Measurement Equipment

Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM020	HORN ANTENNA	EMCO	3115	4032	2009/09/02	2011/09/02
EM215	MULTIDEVICE CONTROLLER	EMCO	2090	00024676	N/A	N/A
EM216	MINI MAST SYSTEM	EMCO	2075	00026842	N/A	N/A
EM217	ELECTRIC POWERED TURNABLE	EMCO	2088	00029144	N/A	N/A
EM218	ANECHOIC CHAMBER	ETS-Linggren	FACT-3	--	2008/12/01	2011/12/01
EM083	STCOATS	--	--	--	2008/12/08	2011/12/08
EM174	BICONILOG ANTENNA	EMCO	3142B	1671	2010/02/09	2012/02/09
EM181	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESIB7	100072	2010/07/01	2011/07/01
EM145	EMI TEST RECEIVER	R & S	ESCS 30	830245/021	2010/01/17	2011/01/17
EM022	LOOP ANTENNA	EMCO	6502	1189-2424	2009/07/26	2011/07/26

Remarks:-

CM Corrective Maintenance

N/A Not Applicable

TBD To Be Determined

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Appendix B

Duty Cycle Correction During 100msec

Each sample unit sends a different series of characters, but each pulse period (100msec) never exceeds a series of 48 (0.22msec) pulses. Assuming any combination of sole pulses may be obtained due to encoding the worst case transmit duty cycle would be considered $48 \times 0.22\text{msec}$ per 100msec = 10.56% duty cycle. Figure A through B show the characteristics of the pulse train for one of these functions.

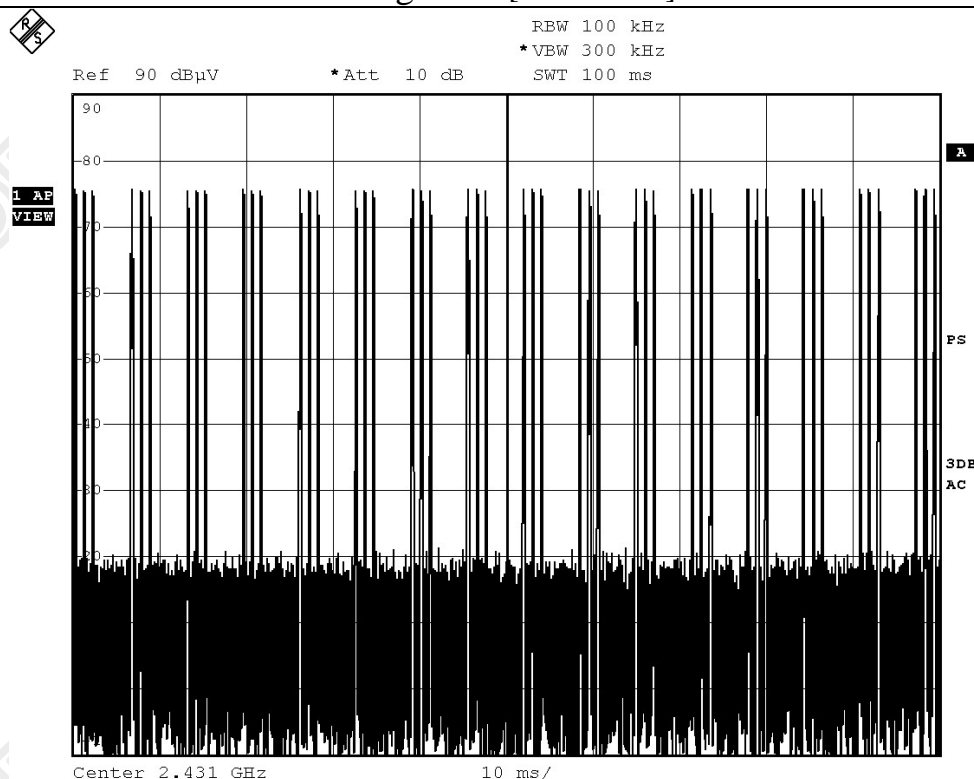
Remarks:

Duty Cycle Correction = $20\text{Log}(0.1056) = -19.5\text{ dB}$

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

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

Figure A [Pulse Train]



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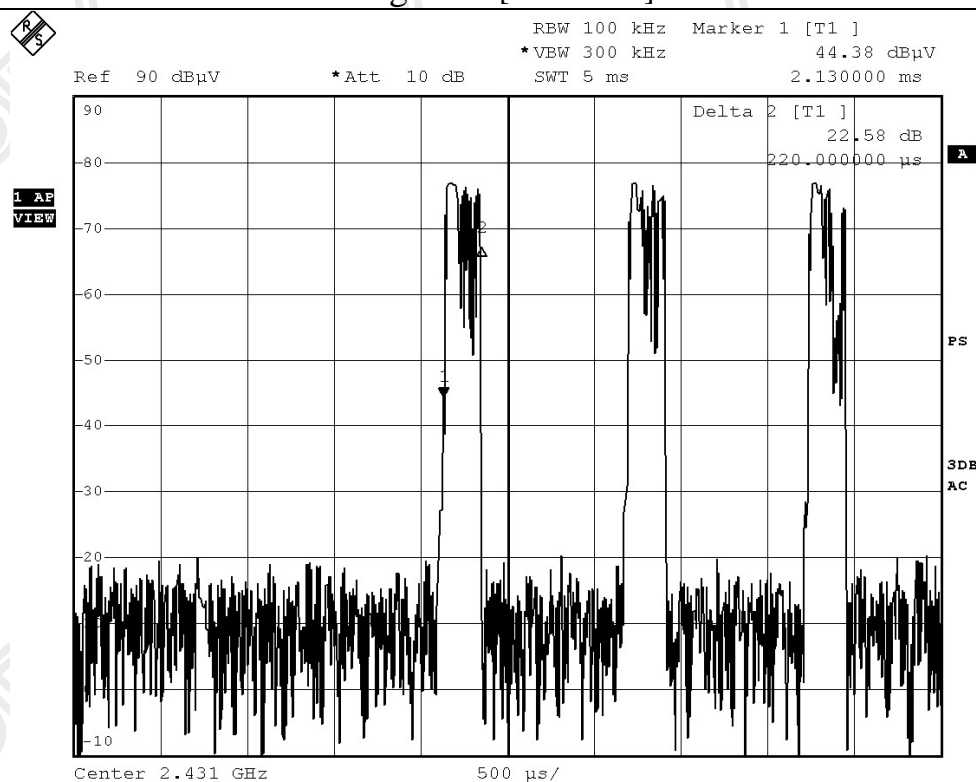
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Figure B [Sole Pulse]



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Appendix C

Photographs of EUT

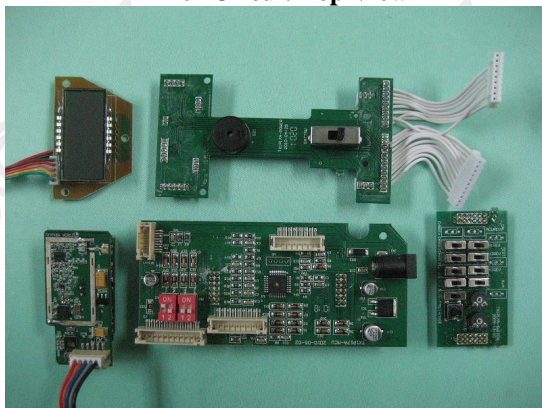
Front View of the product



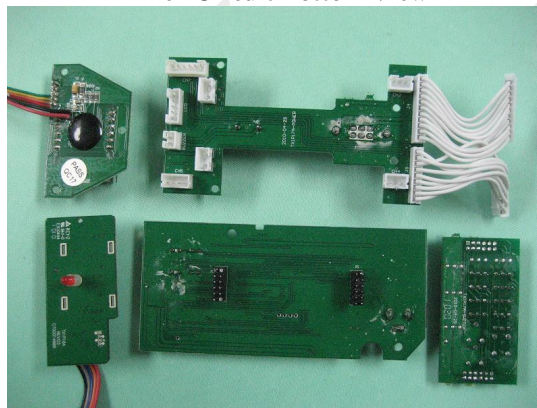
Rear View of the product



Inner Circuit Top View



Inner Circuit Bottom View



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STC Test Report

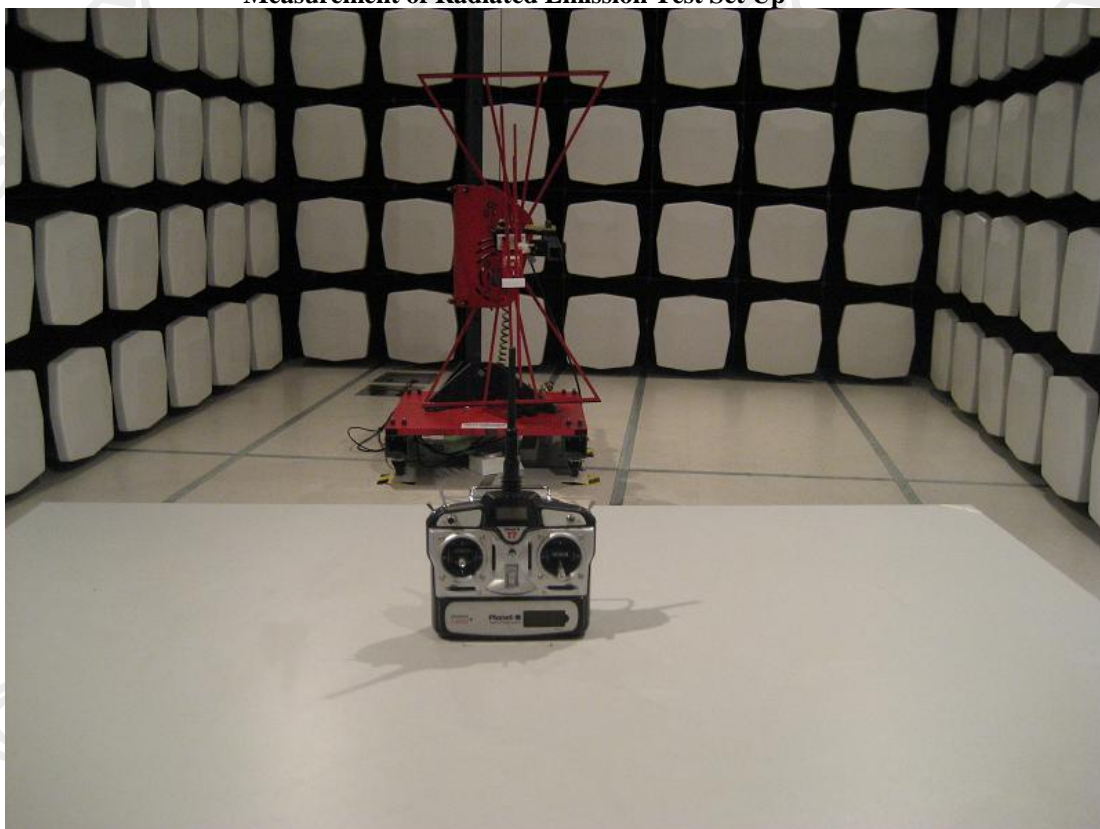
Date : 2010-10-12

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Photographs of EUT

Measurement of Radiated Emission Test Set Up



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

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