



STC Test Report

Date: 2013-08-19
No.: HM168677

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Applicant (NEB001): NEW BRIGHT INDUSTRIAL CO., LTD.
9/F., NEW BRIGHT BUILDING, 11 SHEUNG YUET
ROAD, KOWLOON BAY, KOWLOON, H.K.

Manufacturer: NEW BRIGHT INDUSTRIAL CO., LTD.
9/F., NEW BRIGHT BUILDING, 11 SHEUNG YUET
ROAD, KOWLOON BAY, KOWLOON, H.K.

Description of Sample(s): Product: Radio Control Toy Transmitter
Brand Name: New Bright
Model Number: G6DTH2
FCC ID: G6DTH2

Date Sample(s) Received: 2013-08-09

Date Tested: 2013-08-16 to 2013-08-19

Investigation Requested: Perform ElectroMagnetic Interference measurement in
accordance with FCC 47CFR [Codes of Federal Regulations]
Part 15: 2012 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.



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List of Measurement Equipment

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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

1.2 Applicant Details

Applicant

NEW BRIGHT INDUSTRIAL CO., LTD.
9/F., NEW BRIGHT BUILDING, 11 SHEUNG YUET ROAD, KOWLOON BAY,
KOWLOON, H.K.

Manufacturer

NEW BRIGHT INDUSTRIAL CO., LTD.
9/F., NEW BRIGHT BUILDING, 11 SHEUNG YUET ROAD, KOWLOON BAY,
KOWLOON, H.K.

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1.3 Equipment Under Test [EUT] Description of Sample(s)

Product: Radio Control Toy Transmitter
Manufacturer: NEW BRIGHT INDUSTRIAL CO., LTD.
9/F., NEW BRIGHT BUILDING, 11 SHEUNG YUET ROAD,
KOWLOON BAY, KOWLOON, H.K.
Brand Name: New Bright
Model Number: G6DTH2
Input Voltage: 3.7Vd.c. ("AA" size battery x 2)

1.3.1 Description of EUT Operation

The Equipment Under Test (EUT) is a New Bright Industrial Co., Ltd. Radio Control Toy Transmitter. The EUT is a transmitter of radio control toy. The transmitter was operating with a trigger, the EUT continues to transmit while trigger is being on, It is pulse transmitter, Modulation by IC, and type is FSK modulation.

1.4 Date of Order

2013-08-09

1.5 Submitted Sample(s):

1 Sample

1.6 Test Duration

2013-08-16 to 2013-08-19

1.7 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: 2012 Regulations 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	Fail	N/A
Field Strength of Fundamental & Harmonics Emissions	FCC 47CFR 15.249	ANSI C63.4:2009	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Radiated Emissions	FCC 47CFR 15.209	ANSI C63.4:2009	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 C63.4:2009
Test Date:	2013-08-16
Mode of Operation:	Tx mode

Test Method:

The sample was placed 0.8m above the ground plane on a standard radiated emission test site. 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. In the frequency range of 9kHz to 30MHz, The center of the loop antenna shall be 1 meter above the ground and rotated loop axis for maximum reading. The emissions worst-case are shown in Test Results of the following pages.

Remark: 3 orthogonal axis apply to hand-held device only.

*: 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

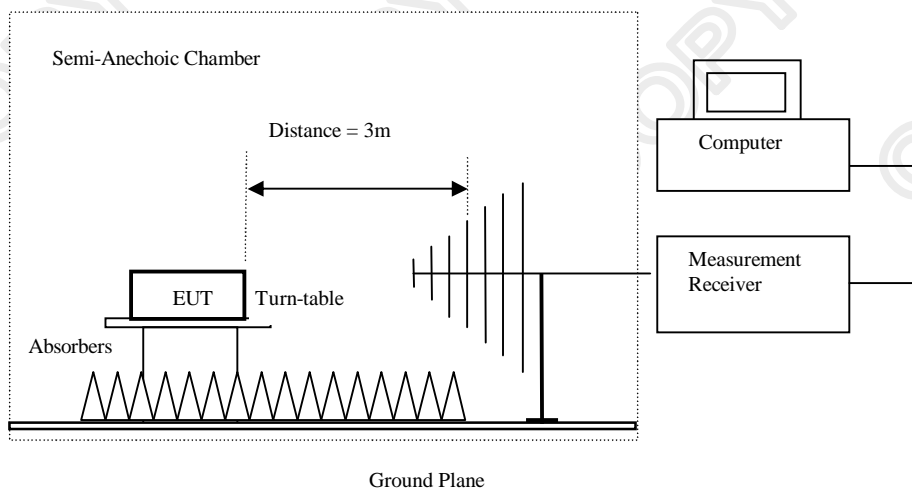
30MHz – 1GHz (QP)

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:



Absorbers placed on top of the ground plane are for measurements above 1000MHz only.

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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 (Channel 1): Pass

Field Strength of Fundamental Emissions Quasi-Peak Value						
Frequency MHz	Measured Level @3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @3m μ V/m	E-Field Polarity
909.1	39.7	26.9	66.6	2,138.0	50,000	Vertical

Field Strength of Harmonics Emission Peak Value						
Frequency MHz	Measured Level @3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @3m μ V/m	E-Field Polarity
1818.1	14.7	27.6	42.3	130.3	5,000	Vertical
* 2727.2	6.9	27.8	34.7	54.3	5,000	Vertical
3636.2	Emissions detected are more than 20 dB below the Limits				5,000	Vertical
* 4545.3					5,000	Vertical
* 5454.4					5,000	Vertical
6363.4					5,000	Vertical
* 7272.5					5,000	Vertical
* 8181.5					5,000	Vertical
* 9090.6					5,000	Vertical

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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 (Channel 1): Pass

Field Strength of Harmonics Emission Average Value						
Frequency MHz	Measured Level @3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @3m μ V/m	E-Field Polarity
1818.1	1.7	27.6	29.3	29.2	500	Vertical
* 2727.2	1.9	27.8	29.7	30.5	500	Vertical
3636.2	Emissions detected are more than 20 dB below the Limits				500	Vertical
* 4545.3					500	Vertical
* 5454.4					500	Vertical
6363.4					500	Vertical
* 7272.5					500	Vertical
* 8181.5					500	Vertical
* 9090.6					500	Vertical

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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 (Channel 2): Pass

Field Strength of Fundamental Emissions Quasi-Peak Value						
Frequency MHz	Measured Level @3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @3m μ V/m	E-Field Polarity
913.1	39.9	27.0	66.9	2,213.1	50,000	Vertical

Field Strength of Harmonics Emission Peak Value						
Frequency MHz	Measured Level @3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @3m μ V/m	E-Field Polarity
1826.1	14.7	27.6	42.3	130.3	5,000	Vertical
* 2739.2	7.3	27.8	35.1	56.9	5,000	Vertical
* 3652.2	Emissions detected are more than 20 dB below the Limits				5,000	Vertical
* 4565.3					5,000	Vertical
5478.4					5,000	Vertical
6391.4					5,000	Vertical
* 7304.5					5,000	Vertical
* 8217.5					5,000	Vertical
* 9130.6					5,000	Vertical

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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 (Channel 2): Pass

Field Strength of Harmonics Emission Average Value						
Frequency MHz	Measured Level @3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @3m μ V/m	E-Field Polarity
1826.1	1.8	27.6	29.4	29.5	500	Vertical
* 2739.2	1.8	27.8	29.6	30.2	500	Vertical
* 3652.2	Emissions detected are more than 20 dB below the Limits				500	Vertical
* 4565.3					500	Vertical
5478.4					500	Vertical
6391.4					500	Vertical
* 7304.5					500	Vertical
* 8217.5					500	Vertical
* 9130.6					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.

Calculated measurement uncertainty : 9kHz to 30MHz 2.0dB
30MHz to 1GHz 4.6dB
1GHz to 26GHz 4.5dB

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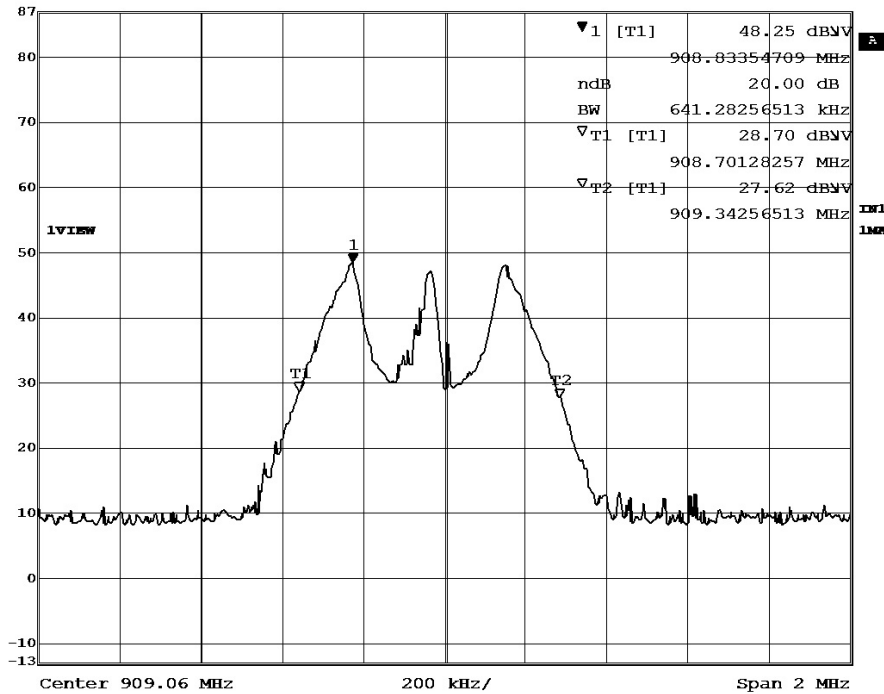
Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range [MHz]	20dB Bandwidth [MHz]
909.06	0.641

Channel 1

20dB Bandwidth of Fundamental Emission

Ref Lvl	Marker 1 [T1 ndB]	RBW	30 kHz	RF Att	0 dB
87 dBmV	ndB	20.00 dB	VBW	100 kHz	
	BW	641.28256513 kHz	SWT	6 ms	Unit
					dBmV



Date: 19.AUG.2013 13:24:41

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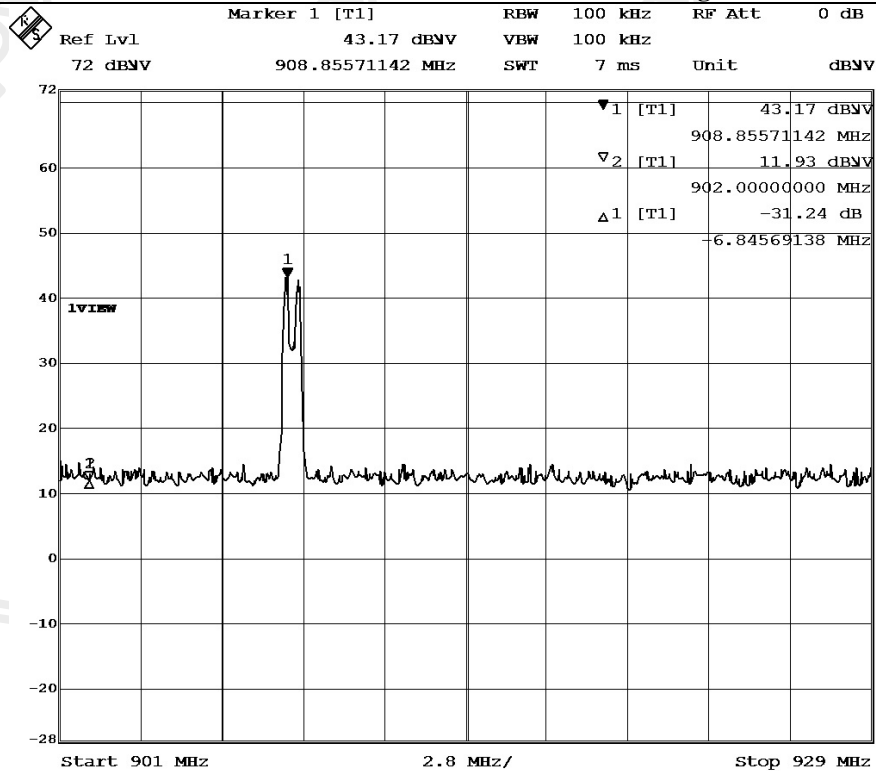
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Channel 1

31.2dB Level Reduction at Lower Band Edge



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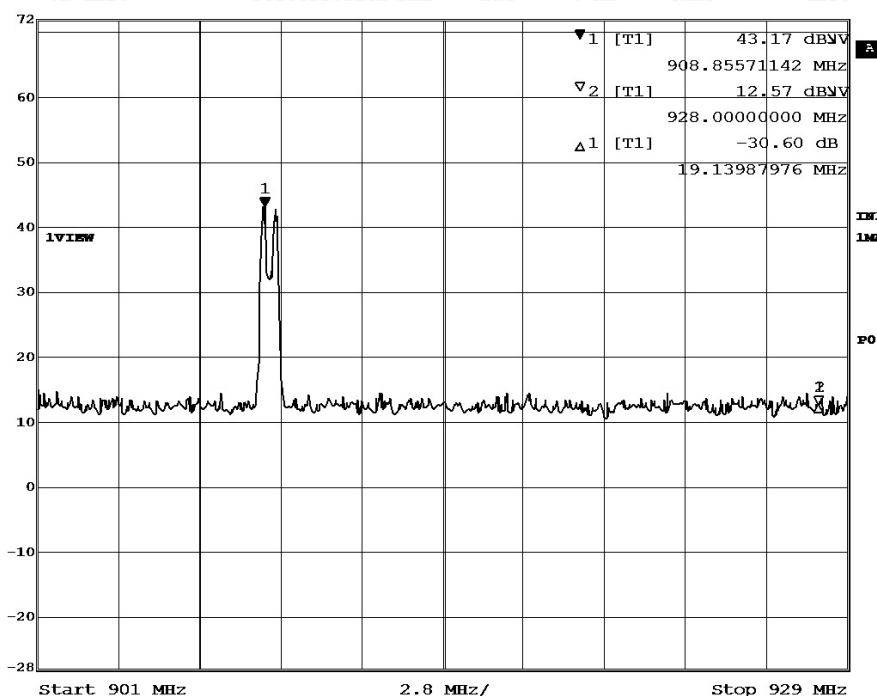
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Channel 1

30.6dB Level Reduction at Upper Band Edge

Marker 1 [T1]	RBW	100 kHz	RF Att	0 dB
Ref Lvl	43.17 dBmV	VBW	100 kHz	
72 dBmV	908.85571142 MHz	SWT	7 ms	Unit
				dBmV



Date: 19.AUG.2013 15:32:18

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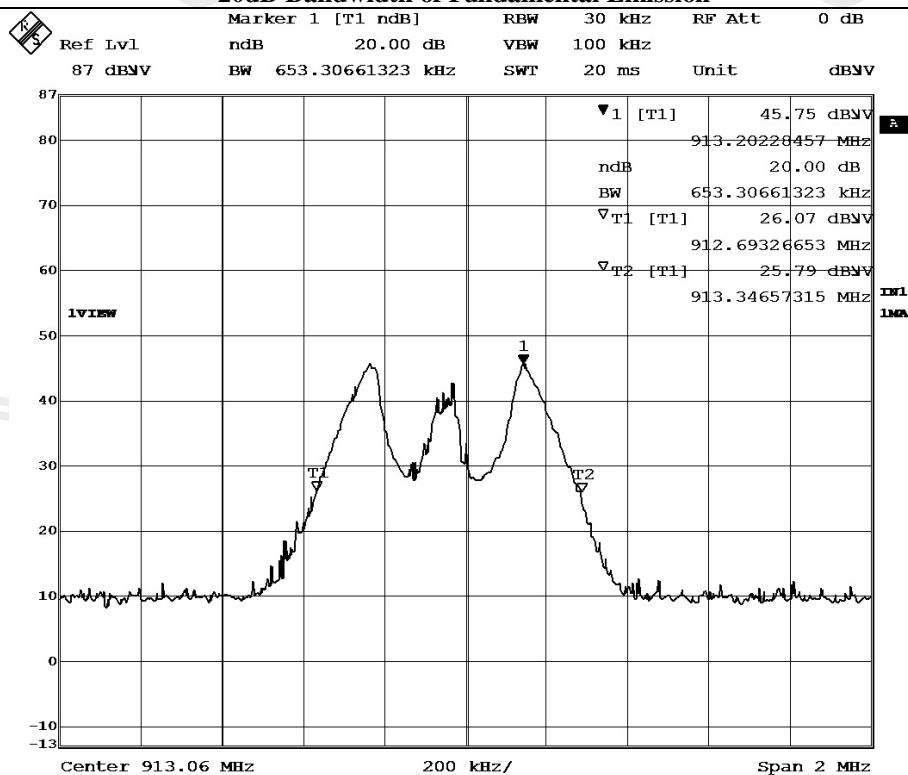
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Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range [MHz]	20dB Bandwidth [MHz]
913.06	0.653

Channel 2

20dB Bandwidth of Fundamental Emission



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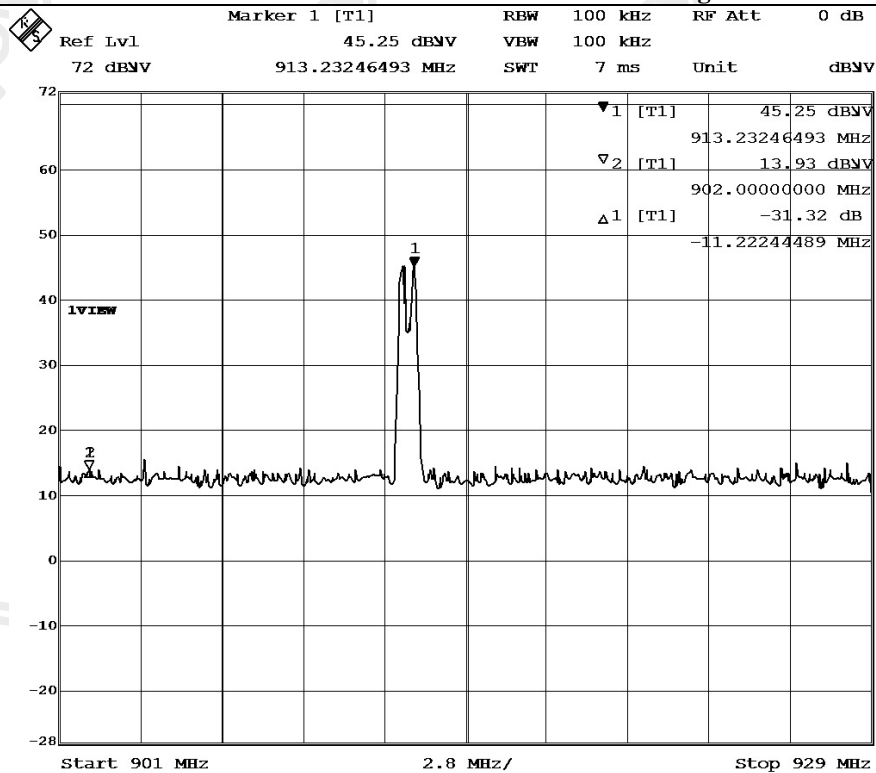
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Channel 2

31.3dB Level Reduction at Lower Band Edge



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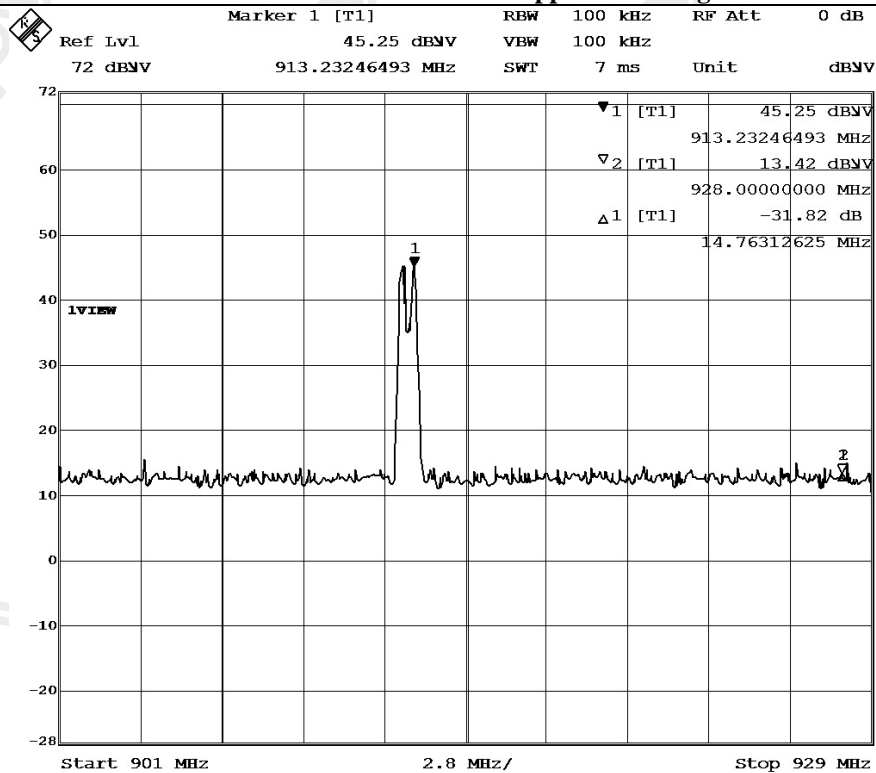
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Channel 2

31.8dB Level Reduction at Upper Band Edge



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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 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						

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						

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Results of Tx on mode (30MHz – 1000MHz): PASS
(Band-edge measurement) Channel 1

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
901.50	3.9	26.2	30.1	32.0	200.0	Vertical
928.50	4.8	26.4	31.2	36.3	200.0	Vertical

Results of Tx on mode (30MHz – 1000MHz): PASS
(Band-edge measurement) Channel 2

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
901.50	3.5	26.2	29.7	30.5	200.0	Vertical
928.50	3.5	26.4	29.9	31.3	200.0	Vertical

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

Field Strength of Spurious Emissions Peak Value						
Frequency MHz	Measured Level dB μ V	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	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 : 9kHz to 30MHz 2.0dB
30MHz to 1GHz 4.6dB
1GHz to 26GHz 4.5dB

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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	--	2012/10/25	2013/10/25
EM174	BICONILOG ANTENNA	EMCO	3142B	1671	2012/05/31	2014/05/31
EM229	EMI TEST RECEIVER	R&S	ESIB40	100248	2013/05/07	2014/05/07
EM022	LOOP ANTENNA	EMCO	6502	1189-2424	2011/09/14	2013/09/14
EM200	DUAL CHANNEL POWER METER	R & S	NRVD	100592	2011/10/10	2013/10/10
EM201	10V INSERTION UNIT	R & S	URV5-Z2	100089	2011/0/10	2013/10/10

Remarks:-

CM Corrective Maintenance
N/A Not Applicable
TBD To Be Determined

The Hong Kong Standards and Testing Centre Ltd.

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Appendix B

Photographs of EUT

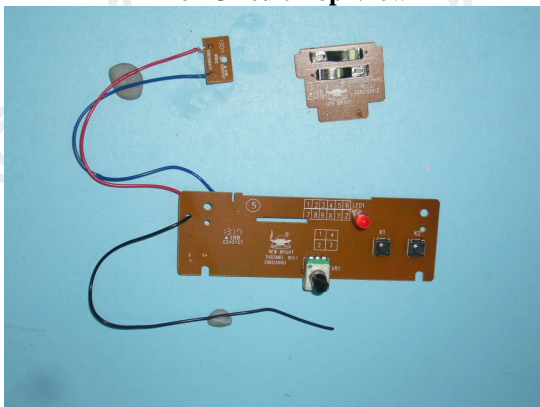
Front View of the product



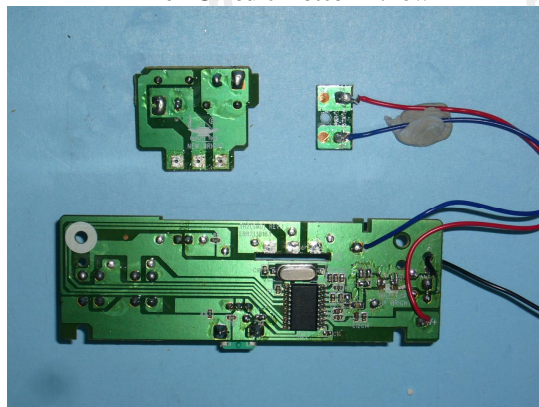
Rear View of the product



Inner Circuit Top View



Inner Circuit Bottom View



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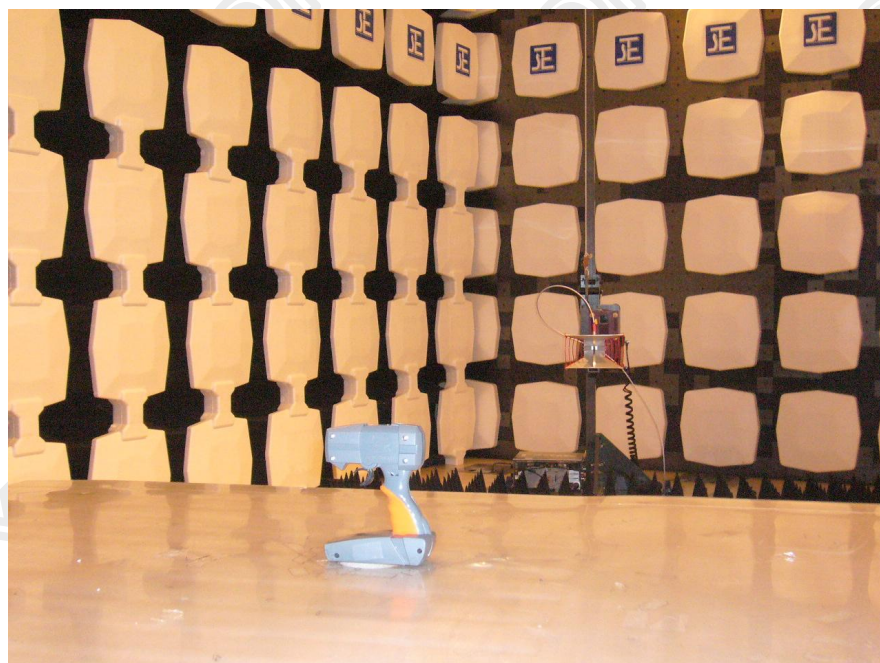
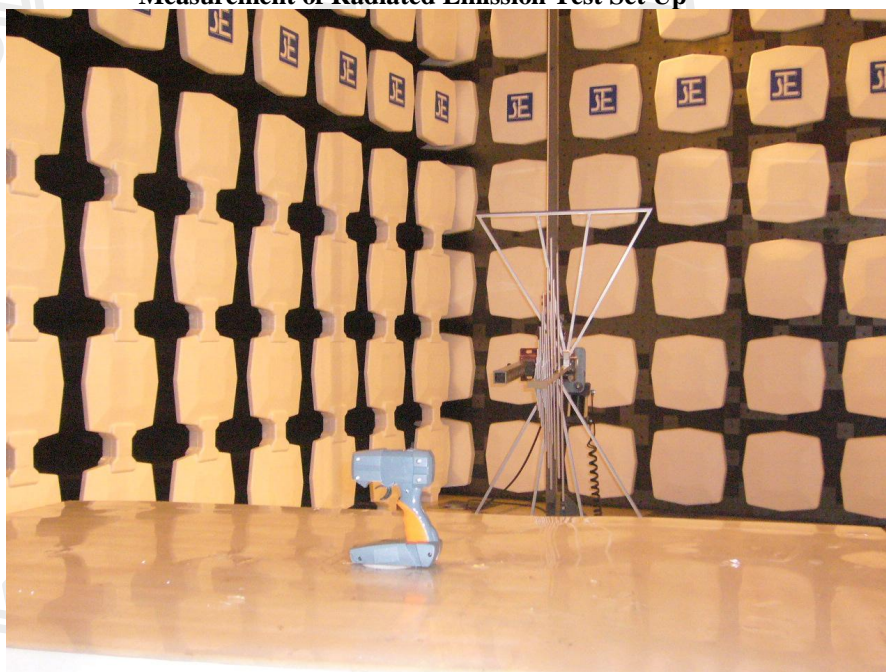
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Photographs of EUT

Measurement of Radiated Emission Test Set Up



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

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