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No.: DMA000037

**Applicant:** Spin Master Toys Far East Ltd.

Room 1113, 11th Floor, Chinachen Golden Plaza, 77 Mody

Road, Tsim Sha Tsui East, Kowloon Hong Kong

Manufacturer: WAH SHING (Everwin Toys (Dongguan) Co., Ltd.),

(Everfront Plastic and Electronics Manufacturing Co., Ltd.)

**Description of Sample(s):** Submitted sample(s) said to be

Product: ARH RDC SW XL Millennim Falcn

Brand Name: AIR HOGS Model Number: 44550TX

FCC ID: PQN44550TX2G4

**Date Sample(s) Received:** 2016-07-04

**Date Tested:** 2016-07-08 to 2016-07-14

**Investigation Requested:** Perform ElectroMagnetic Interference measurement in

accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2015 and ANSI C63.10: 2013 for FCC Certification.

**Conclusion(s):** The submitted product <u>COMPLIED</u> 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): ---



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: ARH RDC SW XL Millennim Falcn

Manufacturer: WAH SHING (Everwin Toys (Dongguan) Co., Ltd.),

(Everfront Plastic and Electronics Manufacturing Co., Ltd.)

Brand Name: AIR HOGS Model Number: 44550TX

Rating: 6Vd.c. (AA battery \*4)

#### 1.2 Description of EUT Operation

The Equipment Under Test (EUT) is a ARH RDC SW XL Millennim Falcn . The transceiver operating in the 2.4 GHz ISM frequency band. The RF signal is modulated by IC, the type of modulation used is FSK.

#### 1.3 Date of Order

2016-07-04

#### 1.4 Submitted Sample(s):

1 Sample

#### 1.5 Test Duration

2016-07-08 to 2016-07-14

### 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: 2015 Regulations and ANSI C63.10: 2013 for FCC Certification.

The device was realized by test software.

### 2.2 Test Standards and Results Summary Tables

EMISSION Results Summary									
Test Condition	Test Requirement	Test Method	Class /	Te	est Resu	ılt			
			Severity	Pass	Fail	N/A			
Field Strength of Fundamental & Harmonics Emissions	FCC 47CFR 15.249	ANSI C63.10: 2013	N/A						
Radiated Emissions	FCC 47CFR 15.209	ANSI C63.10: 2013	N/A	$\boxtimes$					
Antenna requirement	FCC 47CFR 15.203	N/A	N/A	$\boxtimes$					

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 & FCC 47CFR 15.209

Test Method: ANSI C63.10: 2013

Test Date: 2016-07-14 Mode of Operation: TX mode

#### **Test Method:**

For emission measurements at or below 1 GHz, the sample was placed 0.8m above the ground plane of semi-anechoic Chamber\*. For emission measurements above 1 GHz, the sample was placed 1.5m above the ground plane of semi-anechoic Chamber\*. For emission measurements above 1 GHz, 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

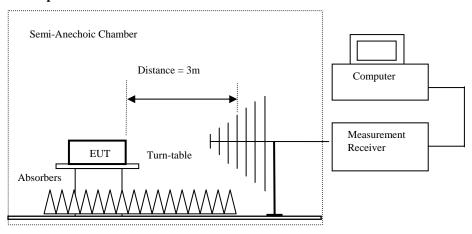
Above 1GHz (Pk & Av) RBW: 1MHz

VBW: 1MHz 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.
- Measurements between 30 MHz to 1000 MHz made with Bi-log antennas, above 1000 MHz horn antennas are used, 9 kHz to 30 MHz loop antennas are used.

Ground Plane

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

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

### Results of Tx mode (Lowest Frequency Channel-2408 MHz): Pass

Field Strength of Fundamental Emissions									
			Peak Value						
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field			
	Level @3m	Factor	Strength	Strength		Polarity			
MHz	dBμV/m	dBμV/m	dBμV/m	μV/m	μV/m				
2408.00	57.8	36.8	94.6	53,703.2	500,000	Vertical			
2408.00	53.6	36.4	90.0	31,622.8	500,000	Horizontal			

Field Strength of Fundamental Emissions										
	Average Value									
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field				
	Level @3m	Factor	Strength	Strength		Polarity				
MHz	dBμV/m	dBμV/m	dBμV/m	μV/m	μV/m					
2408.00	34.0	36.8	70.8	3,467.4	50,000	Vertical				
2408.00	31.7	36.4	68.1	2,541.0	50,000	Horizontal				

	Field Strength of Harmonics Emission									
			Peak Value							
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field				
	Level @3m	Factor	Strength	Strength		Polarity				
MHz	dBμV/m	dBμV/m	dBμV/m	μV/m	μV/m					
4816.0	14.8	41.5	56.3	653.1	5,000	Vertical				
4816.0	12.8	42.4	55.2	575.4	5,000	Horizontal				
7224.0	9.7	45.1	54.8	549.5	5,000	Vertical				
7224.0	8.9	46.2	55.1	568.9	5,000	Horizontal				
9632.0	7.6	48.0	55.6	602.6	5,000	Vertical				
9632.0	7.1	48.8	55.9	623.7	5,000	Horizontal				



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	Field Strength of Harmonics Emission Average Value									
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field				
	Level @3m	Factor	Strength	Strength		Polarity				
MHz	dBμV/m	dBμV/m	dBμV/m	μV/m	μV/m					
4816.0	-1.3	41.5	40.2	102.3	500	Vertical				
4816.0	-2.5	42.4	39.9	98.9	500	Horizontal				
7224.0	-6.9	45.1	38.2	81.3	500	Vertical				
7224.0	-9.1	46.2	37.1	71.6	500	Horizontal				
9632.0	-9.6	48.0	38.4	83.2	500	Vertical				
9632.0	-10.5	48.8	38.3	82.2	500	Horizontal				

Results of Tx mode (Middle Frequency Channel- 2440MHz): Pass

Results of 1x	Results of 1x mode (Middle Frequency Channel- 2440MHz): Pass									
Field Strength of Fundamental Emissions										
	Peak Value									
Frequency	Frequency Measured Correction Field Field Limit @3m E-Field									
	Level @3m	Factor	Strength	Strength		Polarity				
MHz	dBμV/m	dBμV/m	dBμV/m	μV/m	μV/m					
2440.00	2440.00 59.3 36.8 96.1 63,826.3 500,000 Vertical									
2440.00	57.3	36.4	93.7	48,417.2	500,000	Horizontal				

Field Strength of Fundamental Emissions Average Value										
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field				
	Level @3m	Factor	Strength	Strength		Polarity				
MHz	dBμV/m	dBμV/m	dBμV/m	μV/m	μV/m					
2440.00	36.0	36.8	72.8	4,365.2	50,000	Vertical				
2440.00	35.5	36.4	71.9	3,935.5	50,000	Horizontal				

	Field Strength of Harmonics Emission										
	Peak Value										
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field					
	Level @3m	Factor	Strength	Strength		Polarity					
MHz	dBμV/m	dBμV/m	dBμV/m	μV/m	μV/m						
4880.0	15.2	41.6	56.8	691.8	5,000	Vertical					
4880.0	13.0	42.5	55.5	595.7	5,000	Horizontal					
7320.0	9.4	45.2	54.6	537.0	5,000	Vertical					
7320.0	8.4	46.3	54.7	543.3	5,000	Horizontal					
9760.0	7.3	48.1	55.4	588.8	5,000	Vertical					
9760.0	6.3	48.9	55.2	575.4	5,000	Horizontal					



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	Field Strength of Harmonics Emission Avarage Value									
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field				
	Level @3m	Factor	Strength	Strength		Polarity				
MHz	dBμV/m	dBμV/m	dBμV/m	μV/m	μV/m					
4880.0	-2.3	41.6	39.3	92.3	500	Vertical				
4880.0	-3.8	42.5	38.7	86.1	500	Horizontal				
7320.0	-6.5	45.2	38.7	86.1	500	Vertical				
7320.0	-8.5	46.3	37.8	77.6	500	Horizontal				
9760.0	-9.2	48.1	38.9	88.1	500	Vertical				
9760.0	-10.1	48.9	38.8	87.1	500	Horizontal				

Results of Tx mode (Highest Frequency Channel – 2472MHz): Pass

TCSUIGS OF TAIL	Acsults of 1x mode (Highest Frequency Channel – 24/2//112). 1 ass									
Field Strength of Fundamental Emissions										
	Peak Value									
Frequency	Frequency Measured Correction Field Field Limit @3m E-Field									
	Level @3m	Factor	Strength	Strength		Polarity				
MHz	dBμV/m	dBμV/m	dBμV/m	μV/m	μV/m					
2472.00	2472.00 59.3 36.8 96.1 63,826.3 500,000 Vertical									
2472.00	56.3	36.4	92.7	43,151.9	500,000	Horizontal				

Field Strength of Fundamental Emissions						
		A	Average Valu	e		
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field
	Level @3m	Factor	Strength	Strength		Polarity
MHz	dBμV/m	dBμV/m	dBμV/m	μV/m	μV/m	
2472.00	36.9	36.8	73.7	4,841.7	50,000	Vertical
2472.00	33.7	36.4	70.1	3,198.9	50,000	Horizontal



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	Field Strength of Harmonics Emission Peak Value						
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field	
	Level @3m	Factor	Strength	Strength		Polarity	
MHz	dBμV/m	dBμV/m	dBμV/m	μV/m	μV/m		
4944.0	15.7	41.4	57.1	716.1	5,000	Vertical	
4944.0	13.7	42.7	56.4	660.7	5,000	Horizontal	
7416.0	8.9	45.6	54.5	530.9	5,000	Vertical	
7416.0	8.2	46.5	54.7	543.3	5,000	Horizontal	
9988.0	6.5	48.6	55.1	568.9	5,000	Vertical	
9988.0	5.7	49.7	55.4	588.8	5,000	Horizontal	

	Field Strength of Harmonics Emission Avarage Value							
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field		
	Level @3m	Factor	Strength	Strength		Polarity		
MHz	dBμV/m	dBμV/m	dBμV/m	μV/m	μV/m			
4944.0	0.4	41.4	41.8	123.0	500	Vertical		
4944.0	-1.8	42.7	40.9	110.9	500	Horizontal		
7416.0	-7.3	45.6	38.3	82.2	500	Vertical		
7416.0	-7.7	46.5	38.8	87.1	500	Horizontal		
9988.0	-10.0	48.6	38.6	85.1	500	Vertical		
9988.0	-10.8	49.7	38.9	88.1	500	Horizontal		

#### Remarks:

\* Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000MHz 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.

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty: (9kHz-30MHz): 2.0dB

(30MHz -1GHz): 4.9dB (1GHz -6GHz): 4.02dB (6GHz -26.5GHz): 4.03dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.



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

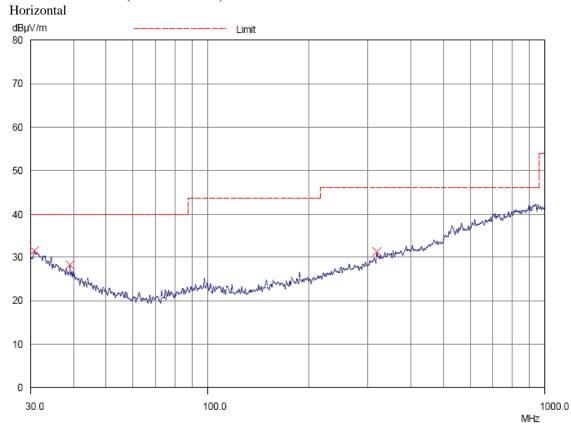
Frequency Range [MHz]	Quasi-Peak Limits [μV/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

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 (9kHz - 30MHz): PASS

Emissions detected are more than 20 dB below the FCC Limits

### Results of TX mode (30MHz - 1GHz): PASS



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Results of TX mode (30MHz - 1GHz): PASS

	Radiated Emissions Quasi-Peak						
Emission	E-Field	Level	Limit	Level	Limit		
Frequency	Polarity	@3m	@3m	@3m	@3m		
MHz		dBμV/m	dBμV/m	μV/m	μV/m		
30.7	Horizontal	31.5	40.0	37.6	100		
39.1	Horizontal	28.1	40.0	25.4	100		
316.9	Horizontal	31.3	46.0	36.7	200		



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

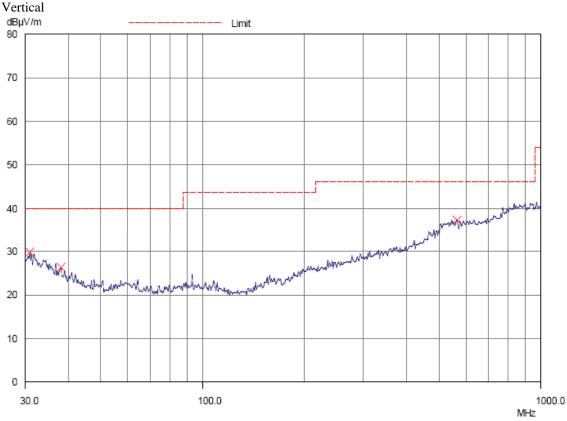
Frequency Range [MHz]	Quasi-Peak Limits [μV/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

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 (9kHz - 30MHz): PASS

Emissions detected are more than 20 dB below the FCC Limits

### Results of TX mode (30MHz - 1GHz): PASS



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Results of TX mode (30MHz - 1GHz): PASS

	Radiated Emissions Quasi-Peak						
Emission	E-Field	Level	Limit	Level	Limit		
Frequency	Polarity	@3m	@3m	@3m	@3m		
MHz	·	dBμV/m	dBμV/m	μV/m	μV/m		
30.9	Vertical	29.8	40.0	30.9	100		
38.3	Vertical	26.4	40.0	20.9	100		
564.3	Vertical	37.3	46.0	73.3	200		

#### Remarks:

Calculated measurement uncertainty (30MHz – 1GHz): 4.9dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.



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#### **RF Radiated Emissions Measurement:**

#### Limit:

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

Result: RF Radiated Emissions (1GHz-26GHz)(worse data) (Lowest)

Field Strength of Band-edge Compliance						
Peak Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dΒμV	dB/m	$dB\mu V/m$	dBμV/m	dBμV/m	
2400.0	12.4	36.8	49.2	74.0	24.8	Vertical

Field Strength of Band-edge Compliance						
Average Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dΒμV	dB/m	$dB\mu V/m$	dBμV/m	dBμV/m	
2400.0	1.3	36.8	38.1	54.0	15.9	Vertical

#### Result: RF Radiated Emissions(1GHz-26GHz)(worse data) (Highest)

Field Strength of Band-edge Compliance						
Peak Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dΒμV	dB/m	$dB\mu V/m$	$dB\mu V/m$	dBμV/m	
2483.5	9.7	36.4	46.1	74.0	27.9	Horizontal

Field Strength of Band-edge Compliance						
Average Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dΒμV	dB/m	dBμV/m	$dB\muV/m$	$dB\mu V/m$	
2483.5	0.8	36.4	37.2	54.0	16.8	Horizontal



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3.1.2 Antenna Requirement

Test Requirements: § 15.203

#### **Test Specification:**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### **Test Results:**

This is Wire antenna. There is no external antenna, the antenna gain = 0.5dBi. User is unable to remove or changed the Antenna.



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#### 3.2 20dB Bandwidth of Fundamental Emission

Test Requirement: FCC 47 CFR 15.249 Test Method: ANSI C63.10: 2013

Test Date: 2016-07-11 Mode of Operation: Tx 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.

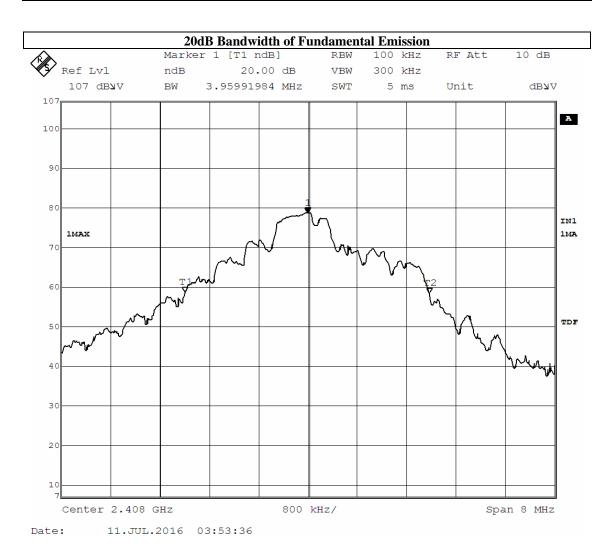


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#### Limits for 20dB Bandwidth of Fundamental Emission (Low Frequency Channel):

Frequency Range	20dB Bandwidth
[MHz]	[MHz]
2408	3.96



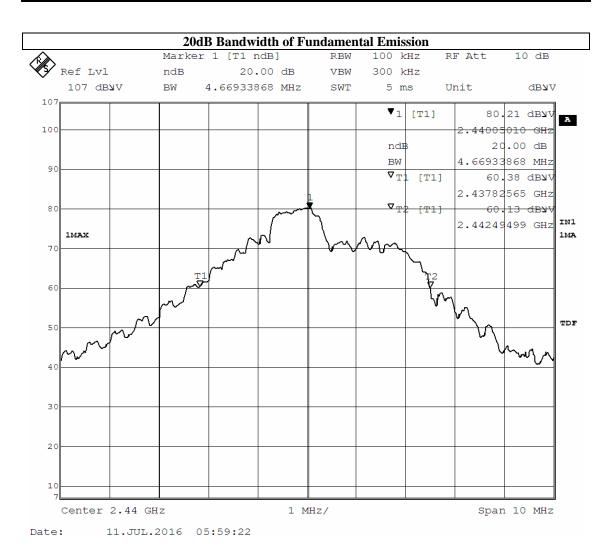


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#### Limits for 20dB Bandwidth of Fundamental Emission (Middle Frequency Channel):

Frequency Range	20dB Bandwidth		
[MHz]	[MHz]		
2440	4.67		



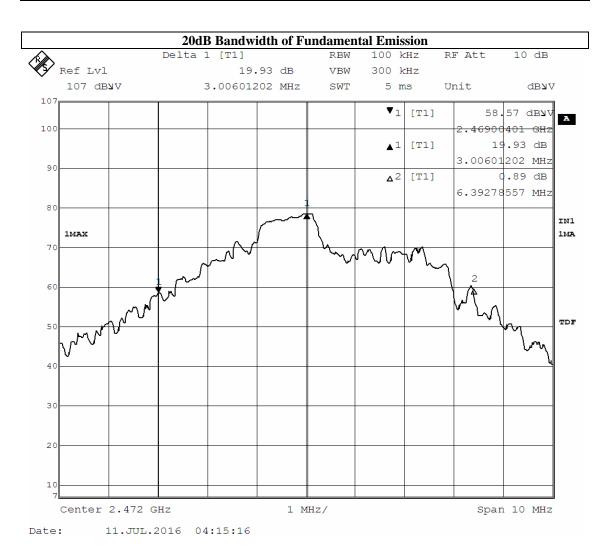


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#### Limits for 20dB Bandwidth of Fundamental Emission (High Frequency Channel):

Frequency Range	20dB Bandwidth		
[MHz]	[MHz]		
2472	6.39		





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### Appendix A

### List of Measurement Equipment

### **Radiated Emission**

A TOTAL AND								
EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL		
EM299	Double-Ridged Waveguide Horn	ETS-Lindgren	3115	00114120	2016/04/27	2018/04/27		
	Antenna							
EM215	MULTIDEVICE CONTROLLER	EMCO	2090	00024676	N/A	N/A		
EM216	MINI MAST SYSTEM	EMCO	2075	00026842	N/A	N/A		
EM217	ELECTRIC POWERED	EMCO	2088	00029144	N/A	N/A		
	TURNTABLE							
EM218	ANECHOIC CHAMBER	ETS-Lindgren	FACT-3		2016/04/24	2017/04/24		
EM355	Biconilog Antenna	ETS-Lindgren	3143B	00094856	2016/03/03	2018/03/03		
EM229	EMI Test Receiver	R&S	ESIB40	100248	2016/06/01	2017/06/01		
EM181	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESIB7	100072	2016/06/01	2017/06/01		
EM145	EMI Test Receiver	R & S	ESCS 30	830245/021	2016/06/01	2017/06/01		
EM353	LOOP ANTENNA	ETS_LINDGREN	6502	00206533	2016/03/16	2018/03/16		
EM302	Precision Omnidirectional Dipole	Seibersdorf	POD 16	161806/L	2016/05/11	2018/05/11		
	(1-6GHz)	Laboratories						
EM303	Precision Omnidirectional Dipole	Seibersdorf	POD 618	6181908/L	2016/05/11	2018/05/11		
	(6 – 18GHz)	Laboratories						

### **Line Conducted**

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM119	LISN	R & S	ESH3-Z5	0831.5518.52	2015/10/22	2016/10/22
EM145	EMI Test Receiver	R & S	ESCS 30	830245/021	2016/06/01	2017/06/01
EM179	IMPULSE LIMITER	ROHDE & SCHWARZ	ESH3-Z2	357- 8810.52/54	2016/01/11	2017/01/11
EM154	SHIELDING ROOM	SIEMENS MATSUSHITA COMPONENTS	N/A	803-740-057- 99A	2012/02/03	2017/02/03
N/A	mEASUREMENT AND EVALUATION SOFTWARE	ROHDE & SCHWARZ	esib-k1	v1.20	n/a	n/a

Remarks:-

N/A Not Applicable or Not Available



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Appendix B

Photographs of EUT

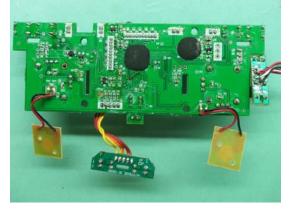
Front View of the product



**Inside View of the product** 



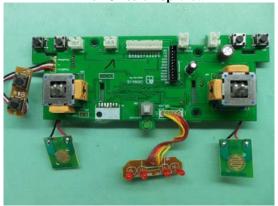
**Inner Circuit Bottom View** 



Rear View of the product



**Inner Circuit Top View** 



**Inner Circuit Top View** 



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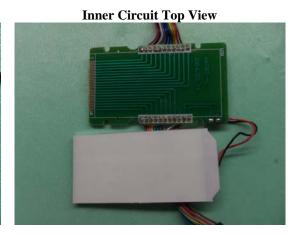
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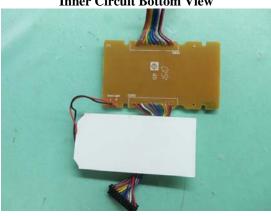
Photographs of EUT

**Inner Circuit Bottom View** 





**Inner Circuit Bottom View** 

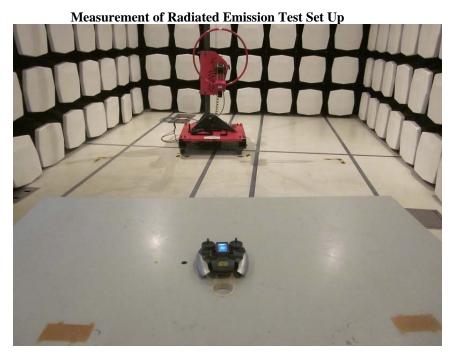


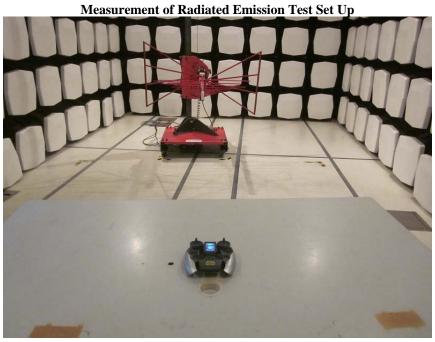


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No.: DMA000037

### Photographs of EUT





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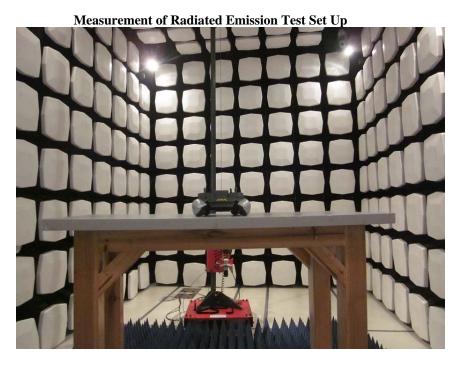
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Photographs of EUT



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