



STC Test Report

Date : 2007-04-28

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No. : HM158605

Applicant: New-Ray Toys Co., Ltd.
Unit 9, 12/F., Houston Centre, 63 Mody Road, T.S.T. East,
Kowloon, Hong Kong.

Description of Samples: Model name: B/O & RADIO CONTROL IVECO FIRE
ENGINE TRUCK
Model no.: 87933
Brand name: New-Ray
FCC ID: Q4S87933

Date Samples Received: 2007-04-20

Date Tested: 2007-04-25

Investigation Requested: FCC Part 15 Subpart C

Conclusions: 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.

Remarks: ----

LEE Kam Chuen, EMD
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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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

Telephone: 852 2666 1888
Fax: 852 2664 4353

1.2 Applicant Details

Applicant

New-Ray Toys Co., Ltd.
Unit 9, 12/F., Houston Centre, 63 Mody Road,
T.S.T. East, Kowloon, Hong Kong.

Manufacturer

New-Ray Toys Co., Ltd.
Unit 9, 12/F., Houston Centre, 63 Mody Road,
T.S.T. East, Kowloon, Hong Kong.

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1.3 Equipment Under Test [EUT]

Description of Sample

Model Name: B/O & RADIO CONTROL IVECO FIRE ENGINE TRUCK
Manufacturer: New-Ray Toys Co., Ltd.
Brand Name: New-Ray
Model Number: 87933
Rating: 9Vd.c. ("6F22" size battery x 1)

1.3.1 Description of EUT Operation

The Equipment Under Test (EUT) is a New-Ray Toys Co., Ltd., B/O & RADIO CONTROL IVECO FIRE ENGINE TRUCK. The transmitter is a 2 trigger transmitter. The EUT continues to transmit while trigger is being pressed, It is pulse transmitter, Modulation by IC, and type is pulse modulation.

1.4 Date of Order

2007-04-20

1.5 Submitted Sample(s):

1 Sample

1.6 Test Duration

2007-04-25

1.7 Country of Origin

China

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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: 2006 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 | Failed | N/A |
| Field Strength of Fundamental Emissions & Spurious Emissions | FCC 47CFR 15.227 | 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"/> |
| Conducted Emissions on AC, 0.15MHz to 30MHz | FCC 47CFR 15.207 | ANSI C63.4:2003 | N/A | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" 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)

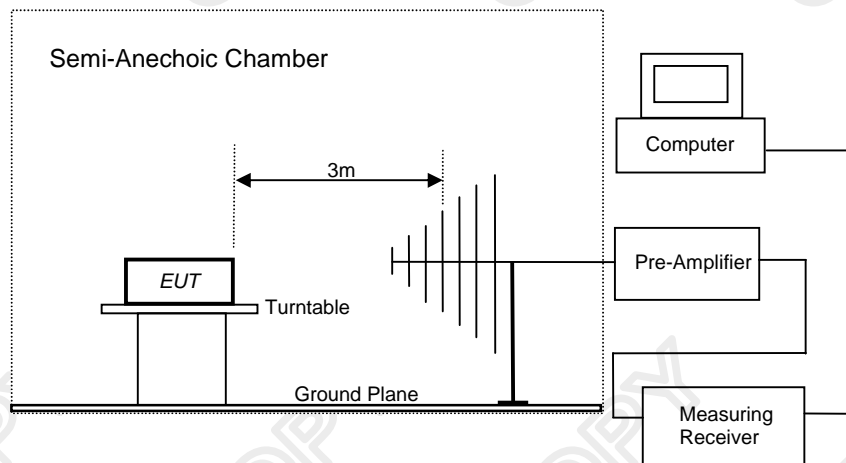
| | |
|--------------------|------------------|
| Test Requirement: | FCC 47CFR 15.227 |
| Test Method: | ANSI C63.4:2003 |
| Test Date: | 2007-04-25 |
| Mode of Operation: | Tx mode |

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.

*: Semi-anechoic chamber located on the G/F of HKSTC 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 Emissions [FCC 47CFR 15.227]:

| Frequency Range of Fundamental [MHz] | Field Strength of Fundamental Emission [Peak] [$\mu\text{V}/\text{m}$] | Field Strength of Fundamental Emission [Average] [$\mu\text{V}/\text{m}$] |
|---|--|---|
| 26.96-27.28 | 100,000 | 10,000 |

Results:

| Field Strength of Fundamental Emissions Peak Value | | | | | | |
|---|--|---------------------------|---|--|-------------------------------------|------------------|
| Frequency MHz | Measured Level @3m dB μV | Correction Factor dB/m | Field Strength dB $\mu\text{V}/\text{m}$ | Field Strength $\mu\text{V}/\text{m}$ | Limit @3m $\mu\text{V}/\text{m}$ | E-Field Polarity |
| 27.15 | 43.80 | 21.2 | 65.0 | 1,778.3 | 100,000 | Vertical |

| Field Strength of Fundamental Emissions Average | | | | | | | |
|--|--|------------------------------|---------------------------|---|--|-------------------------------------|------------------|
| Frequency MHz | Measured Level @3m dB μV | Adjusted by Duty Cycle dB | Correction Factor dB/m | Field Strength dB $\mu\text{V}/\text{m}$ | Field Strength $\mu\text{V}/\text{m}$ | Limit @3m $\mu\text{V}/\text{m}$ | E-Field Polarity |
| 27.15 | 38.7 | -5.1 | 21.2 | 59.9 | 988.6 | 10,000 | Vertical |

According to FCC 47CFR15.35, the limit on the radio frequency emissions as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

Remarks:

Correction Factor includes Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz $\pm 5.2\text{dB}$

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Limits for Radiated Emissions [FCC 47 CFR 15.209]:

| Frequency Range [MHz] | Quasi-Peak Limits [$\mu\text{V/m}$] |
|-----------------------|---------------------------------------|
| 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 :

| Radiated Emissions Quasi-Peak | | | | | | |
|----------------------------------|---|------------------------------|---|--------------------------------------|------------------------------|---------------------|
| Frequency MHz | Measured Level @3m dB μV | Correction Factor dB/m | Field Strength dB $\mu\text{V/m}$ | Field Strength $\mu\text{V/m}$ | Limit @3m $\mu\text{V/m}$ | E-Field Polarity |
| 54.29 | < 1.0 | 9.0 | < 10.0 | < 3.2 | 100 | Vertical |
| 81.44 | < 1.0 | 9.5 | < 10.5 | < 3.3 | 100 | Vertical |
| 108.58 | < 1.0 | 10.7 | < 11.7 | < 3.8 | 150 | Vertical |
| 135.73 | < 1.0 | 10.2 | < 11.2 | < 3.6 | 200 | Vertical |
| 162.87 | < 1.0 | 11.9 | < 12.9 | < 4.4 | 200 | Vertical |
| 190.02 | < 1.0 | 12.4 | < 13.4 | < 4.7 | 200 | Vertical |
| 217.16 | < 1.0 | 13.2 | < 14.2 | < 5.1 | 200 | Vertical |
| 244.31 | < 1.0 | 15.0 | < 16.0 | < 6.3 | 200 | Vertical |
| 271.45 | < 1.0 | 16.1 | < 17.1 | < 7.2 | 200 | Vertical |

Remarks:

Correction Factor includes Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz $\pm 5.2\text{dB}$

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3.1.1 Conducted Emissions (0.15MHz to 30MHz)

| | |
|--------------------|------------------|
| Test Requirement: | FCC 47CFR 15.207 |
| Test Method: | ANSI C63.4:2003 |
| Test Date: | N/A |
| Mode of Operation: | N/A |

Results: N/A

The EUT is operated by a single source of internal battery power [located in the battery compartment], therefore power line conducted emission was deemed unnecessary.

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3.2 20dB Bandwidth of Fundamental Emission

| | |
|--------------------|----------------------------------|
| Test Requirement: | FCC 47 CFR 15.227 |
| Test Method: | ANSI C63.4:2003 (Section 13.1.7) |
| Test Date: | 2007-04-25 |
| Mode of Operation: | 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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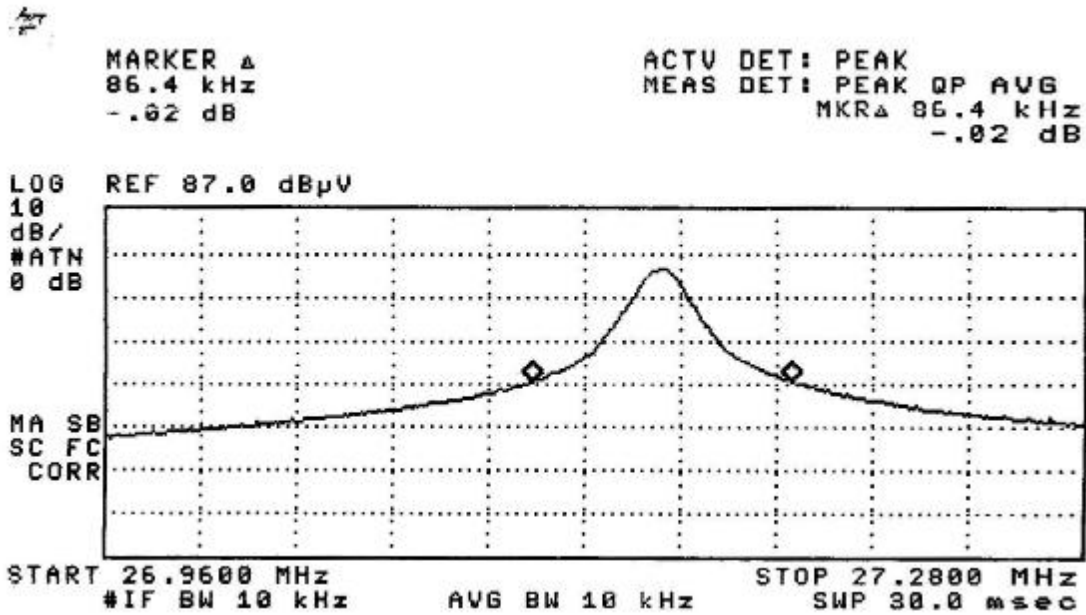
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Limits for 20dB Bandwidth of Fundamental Emission:

| Frequency Range [MHz] | 20dB Bandwidth [KHz] | FCC Limits [MHz] |
|--------------------------|-------------------------|---------------------|
| 27.145 | 86.4 | within 26.96-27.28 |

20dB Bandwidth of Fundamental Emission



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Appendix A

List of Measurement Equipment

Radiated Emission

| EQP NO. | DESCRIPTION | MANUFACTURER | MODEL NO. | SERIAL NO. |
|---------|----------------------------|-----------------|-----------|------------|
| EM007 | SPECTRUM ANALYZER | HEWLETT PACKARD | HP85660B | 3144A21192 |
| EM008 | SPECTRUM ANALYZER DISPLAY | HEWLETT PACKARD | HP85662A | 3144A20514 |
| EM009 | QUASI PEAK ADAPTOR | HEWLETT PACKARD | HP85650A | 3303A01702 |
| EM010 | RF PRESELECTOR | HEWLETT PACKARD | HP85685A | 3221A01410 |
| EM011 | ATTENUATOR/SWITCH | HEWLETT PACKARD | HP11713A | 2508A10595 |
| EM012 | PRE-AMPLIFIER | HEWLETT PACKARD | HP8449B | 3008A00262 |
| EM020 | HORN ANTENNA | ETS-Linggren | 3115 | 4032 |
| EM022 | LOOP ANTENNA | ETS-Linggren | 6502 | 1189-2424 |
| EM072 | SIGNAL GENERATOR | HEWLETT PACKARD | 8640B | 1948A11892 |
| EM083 | OPEN AREA TEST SITE | HKSTC | N/A | N/A |
| EM131 | EMC ANALYZER | HEWLETT PACKARD | 8595EM | 3710A00155 |
| EM145 | EMI TEST RECEIVER | ROHDE & SCHWARZ | ESCS 30 | 830245/021 |
| EM195 | ANTENNA POSITIONING MAST | ETS-Linggren | 2075 | 2368 |
| EM196 | MULTI-DEVICE CONTROLLER | ETS-Linggren | 2090 | 1662 |
| EM215 | MULTIDEVICE CONTROLLER | ETS-Linggren | 2090 | 00024676 |
| EM216 | MINI MAST SYSTEM | ETS-Linggren | 2075 | 00026842 |
| EM217 | ELECTRIC POWERED TURNTABLE | ETS-Linggren | 2088 | 00029144 |
| EM218 | ANECHOIC CHAMBER | ETS-Linggren | FACT-3 | -- |
| EM219 | BICONILOG ANTENNA | ETS-Linggren | 3142C | 00029071 |
| EM229 | EMI TEST RECEIVER | ROHDE & SCHWARZ | ESIB40 | 100248 |

Line Conducted

| EQP NO. | DESCRIPTION | MANUFACTURER | MODEL NO. | SERIAL NO. |
|---------|-----------------------------------|-------------------------------------|------------|-----------------|
| EM078 | VARIAC | SHANGHAI VOLTAGE | TDGC-3/0.5 | N/A |
| EM081 | SMALL SCREENED ROOM | MIKO INST HK | N/A | N/A |
| EM119 | LISN | ROHDE & SCHWARZ | ESH3-Z5 | 0831.5518.52 |
| EM127 | ISOLATION TRANSFORMER 220 TO 300V | WING SUN | N/A | N/A |
| EM233 | PULSE LIMITER | ROHDE & SCHWARZ | ESH3-Z2 | 100314 |
| EM181 | EMI TEST RECEIVER | ROHDE & SCHWARZ | ESIB7 | 100072 |
| EM154 | SHIELDING ROOM | SIEMENA MATSUSHITA COMPONENTS | N/A | 803-740-057-99A |
| EM197 | LISN | ETS-Linggren | 4825/2 | 1193 |
| EM213 | DIGITAL POWER METER | VICNOBL | VIP120 | 00277 |

Remarks:-

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

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Appendix B

Duty Cycle Correction During 100msec

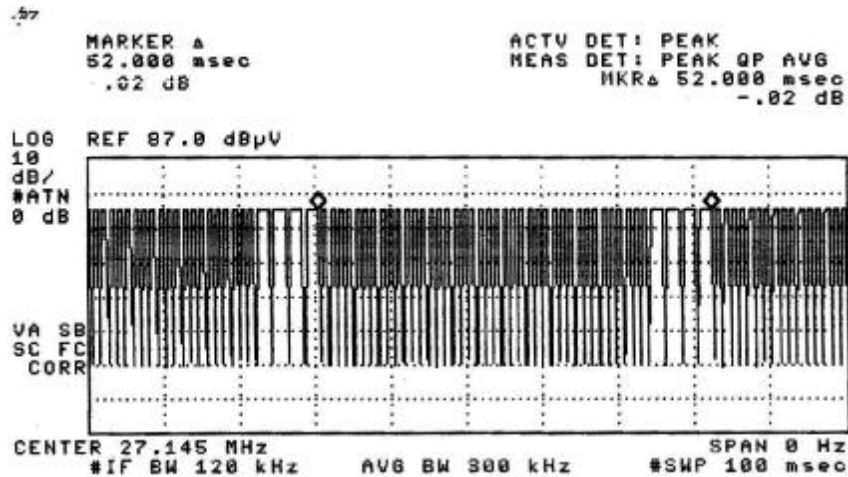
Each function key sends a different series of characters, but each packet period (52msec) never exceeds a series of 4 long (1.65msec) and 40 short (550µsec) pulses. Assuming any combination of short and long pulses may be obtained due to encoding the worst case transmit duty cycle would be considered $4 \times 1.65\text{msec} + 40 \times 550\mu\text{sec}$ per 52msec = 55% duty cycle. Figure A through C show the characteristics of the pulse train for one of these functions.

Remarks:

Duty Cycle Correction = $20\text{Log}(0.55) = -5.1\text{dB}$

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

Figure A [Pulse Train]



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Figure B [Long Pulse]

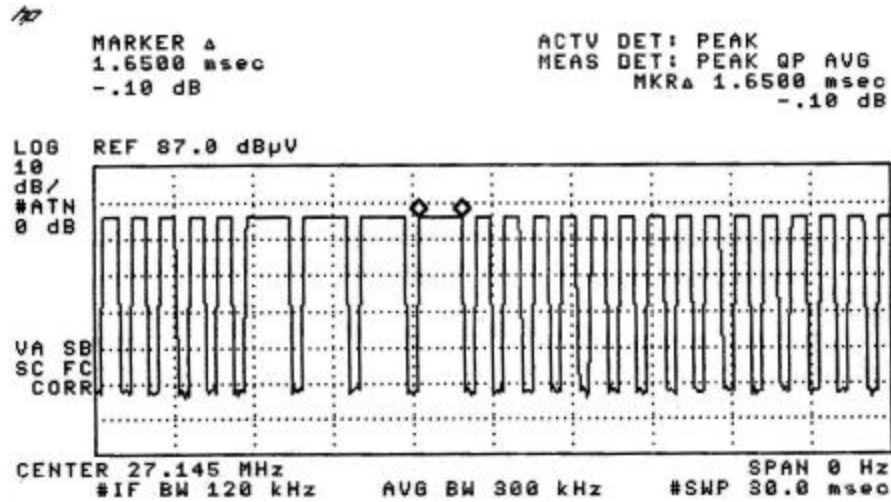
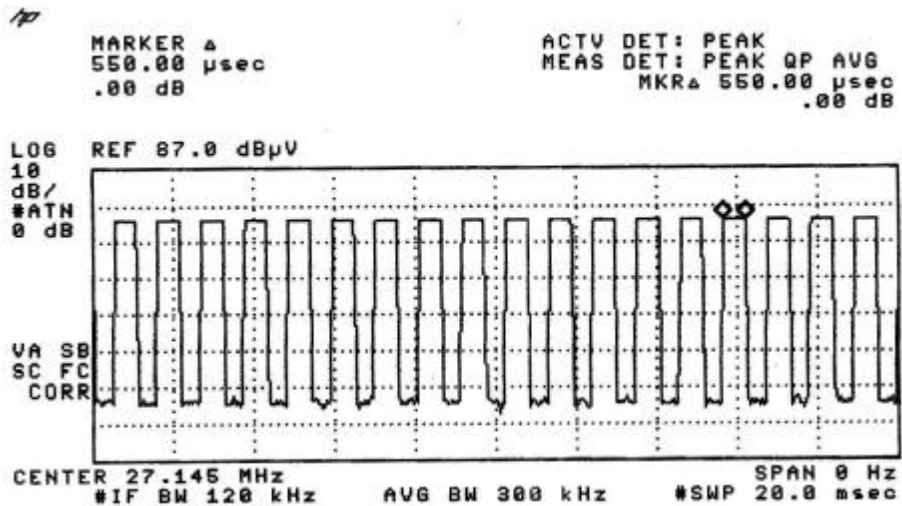


Figure C [Short Pulse]



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Appendix C

Photographs of EUT

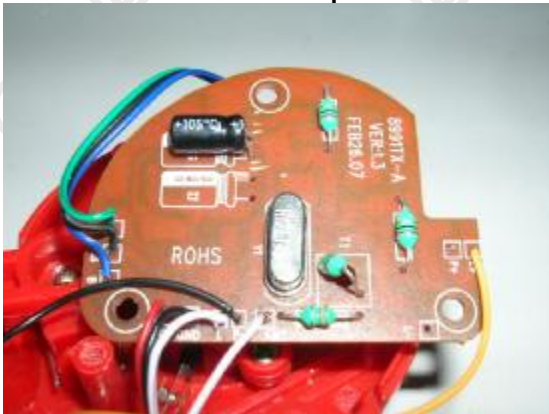
Front View of the product



Rear View of the product



Inner Circuit Top View



Inner Circuit Bottom View



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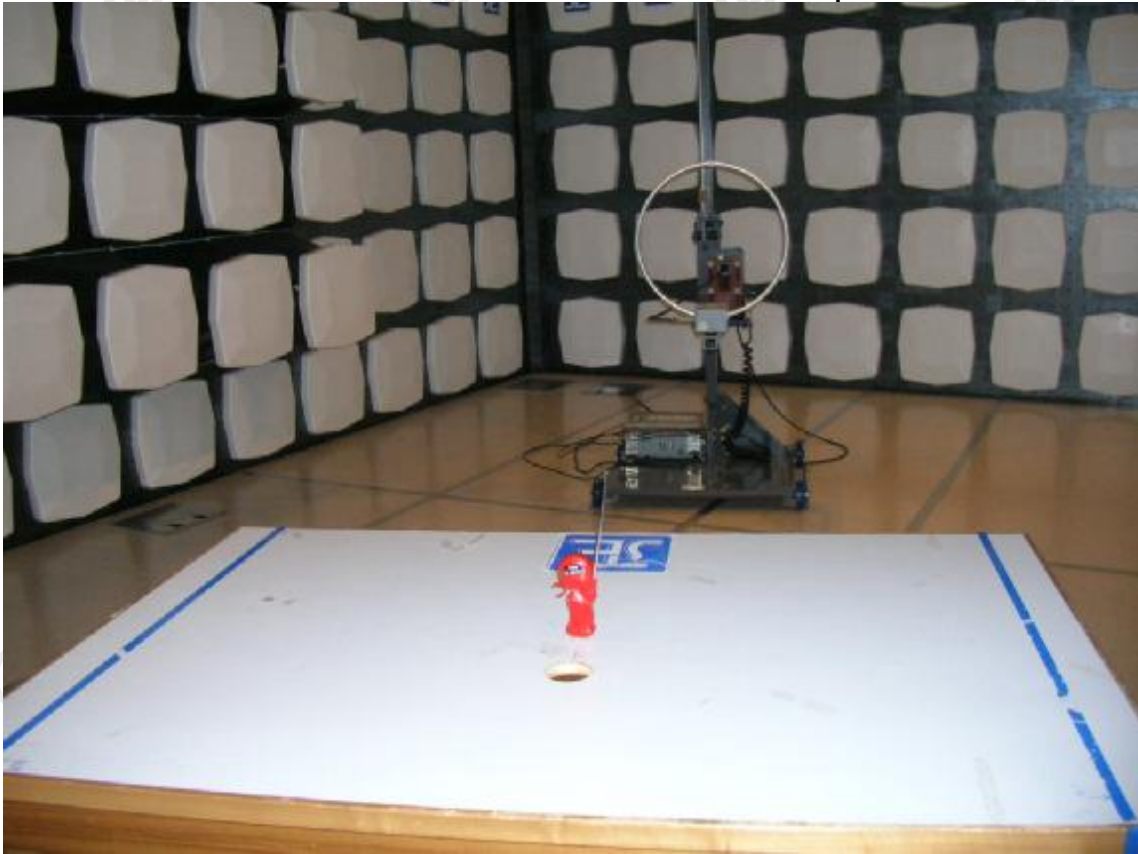
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Photographs of EUT

Measurement of Radiated Emission Test Set Up



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