



STC Test Report

Date : 2006-08-07

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No. : HM157006

Applicant:

Sumitronics Asia Pte. Ltd.

31 International Business Park #05-10, Creative Resource
Building Singapore 609921

Description of Samples:

Model name: FM Stereo Transmitter with DAP
Model no.: SP205-H-000~999
Brand name: picoSD™
FCC ID: UGESP205

Date Samples Received:

2006-07-11, 2006-07-31

Date Tested:

2006-07-14 to 2006-08-03

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:

TSANG Chi Ho, Steven, EMD

For and on behalf of

The Hong Kong Standards and Testing Centre Ltd.

The Hong Kong Standards and Testing Centre Ltd.

10 Dai Wang Street, Taipo Industrial Estate, N.T., Hong Kong

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Appendix A

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**

Sumitronics Asia Pte. Ltd.
31 International Business Park #05-10,
Creative Resource Building Singapore 609921

Manufacturer

Sumitronics Asia Pte. Ltd.
31 International Business Park #05-10,
Creative Resource Building Singapore 609921

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1.3 Equipment Under Test [EUT] Description of Sample

Model Name: FM Stereo Transmitter with DAP
Manufacturer: Sumitronics Asia Pte. Ltd.
Brand Name: picoSD™
Model Number: SP205-H-000~999
Input Voltage: 12Vd.c. car battery

1.3.1 Description of EUT Operation

The Equipment Under Test (EUT) is a Sumitronics Asia Pte. Ltd., FM Stereo Transmitter with DAP. It is 3 buttons transmitter, modulation by IC and type is frequency modulation.

1.4 Date of Order

2006-07-11, 2006-07-31

1.5 Submitted Sample(s):

4 Samples per model

1.6 Test Duration

2006-07-14 to 2006-08-03

1.7 Country of Origin

Malaysia

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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: 2005 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 15.239 | ANSI C63.4:2003 | N/A | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Radiated Emissions, 30MHz to 1GHz | FCC 47CFR 15.209 | ANSI C63.4:2003 | Class B | <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 | Class B | <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)

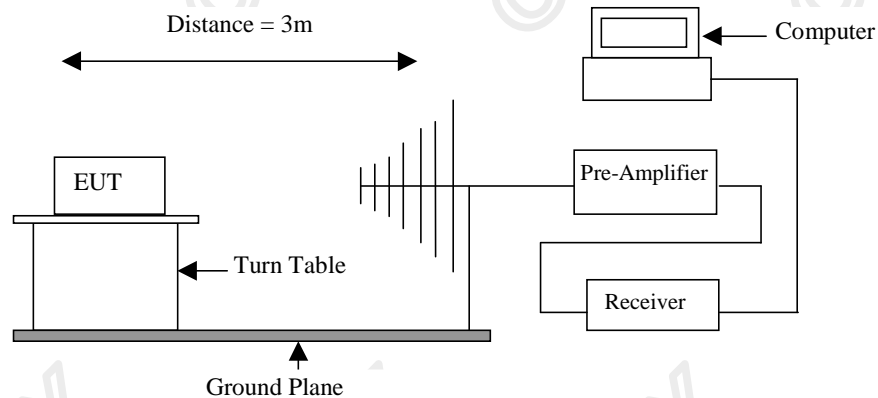
Test Requirement: FCC 47CFR 15.239
Test Method: ANSI C63.4:2003
Test Date: 2006-08-03
Mode of Operation: Tx mode

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. The emissions worst-case are shown in Test Results of the following pages.

*: On a standard radiated emission test site located at HKSTC with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 90657 or 607756.

Test Setup:



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Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.239]:

| Frequency Range of Fundamental [MHz] | Peak Limits [μV/m] | Average Limits [μV/m] |
|--------------------------------------|--------------------|-----------------------|
| 88-108 | 2,500 | 250 |

Results of Tx mode: PASS

| Field Strength of Fundamental Emissions Peak Value | | | | | | |
|---|----------------------------|---------------------------|--------------------------|------------------------|-------------------|------------------|
| Frequency MHz | Measured Level @3m dBμV | Correction Factor dB/m | Field Strength dBμV/m | Field Strength μV/m | Limit @3m μV/m | E-Field Polarity |
| 106.70 | 31.80 | 9.2 | 41.0 | 112.2 | 2,500 | Horizontal |

| Field Strength of Fundamental Emissions Average Value | | | | | | |
|--|----------------------------|---------------------------|--------------------------|------------------------|-------------------|------------------|
| Frequency MHz | Measured Level @3m dBμV | Correction Factor dB/m | Field Strength dBμV/m | Field Strength μV/m | Limit @3m μV/m | E-Field Polarity |
| 106.70 | 31.20 | 9.2 | 40.4 | 104.7 | 250 | Horizontal |

Remarks:

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz ±4.1dB

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.

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

| Frequency Range [MHz] | 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

| 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 |
| 213.40 | < 1.0 | 10.9 | < 11.9 | < 3.9 | 150 | Vertical |
| 320.10 | < 1.0 | 14.0 | < 15.0 | < 5.6 | 200 | Vertical |
| 426.80 | < 1.0 | 17.5 | < 18.5 | < 8.4 | 200 | Vertical |
| 533.50 | < 1.0 | 10.2 | < 11.2 | < 3.6 | 200 | Vertical |
| 640.20 | < 1.0 | 11.9 | < 12.9 | < 4.4 | 200 | Vertical |
| 746.90 | < 1.0 | 12.4 | < 13.4 | < 4.7 | 200 | Vertical |
| 853.60 | < 1.0 | 13.2 | < 14.2 | < 5.1 | 200 | Vertical |
| 960.30 | < 1.0 | 15.0 | < 16.0 | < 6.3 | 200 | Vertical |
| 1067.00 | < 1.0 | 16.1 | < 17.1 | < 7.2 | 200 | Vertical |

Remarks:

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz $\pm 4.1\text{dB}$

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Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.239]:

| Frequency Range of Fundamental [MHz] | Peak Limits [μV/m] | Average Limits [μV/m] |
|--------------------------------------|--------------------|-----------------------|
| 88-108 | 2,500 | 250 |

Results of Tx mode: PASS

| Field Strength of Fundamental Emissions Peak Value | | | | | | |
|---|----------------------------|---------------------------|--------------------------|------------------------|-------------------|------------------|
| Frequency MHz | Measured Level @3m dBμV | Correction Factor dB/m | Field Strength dBμV/m | Field Strength μV/m | Limit @3m μV/m | E-Field Polarity |
| 107.90 | 31.00 | 9.2 | 40.2 | 102.3 | 2,500 | Horizontal |

| Field Strength of Fundamental Emissions Average Value | | | | | | |
|--|----------------------------|---------------------------|--------------------------|------------------------|-------------------|------------------|
| Frequency MHz | Measured Level @3m dBμV | Correction Factor dB/m | Field Strength dBμV/m | Field Strength μV/m | Limit @3m μV/m | E-Field Polarity |
| 107.90 | 30.10 | 9.2 | 39.3 | 92.3 | 250 | Horizontal |

Remarks:

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz ±4.1dB

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.

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

| Frequency Range [MHz] | 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

| 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 |
| 215.80 | < 1.0 | 11.3 | < 12.3 | < 4.1 | 150 | Vertical |
| 323.70 | < 1.0 | 14.8 | < 15.8 | < 6.2 | 200 | Vertical |
| 431.60 | < 1.0 | 18.4 | < 19.4 | < 9.3 | 200 | Vertical |
| 539.50 | < 1.0 | 10.2 | < 11.2 | < 3.6 | 200 | Vertical |
| 647.40 | < 1.0 | 11.9 | < 12.9 | < 4.4 | 200 | Vertical |
| 755.30 | < 1.0 | 12.4 | < 13.4 | < 4.7 | 200 | Vertical |
| 863.20 | < 1.0 | 13.2 | < 14.2 | < 5.1 | 200 | Vertical |
| 971.10 | < 1.0 | 15.0 | < 16.0 | < 6.3 | 200 | Vertical |
| 1079.00 | < 1.0 | 16.1 | < 17.1 | < 7.2 | 200 | Vertical |

Remarks:

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz $\pm 4.1\text{dB}$

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3.1.2 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 car battery power, therefore power line conducted emission was deemed unnecessary.

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3.2 20B Bandwidth of Fundamental Emission

Test Requirement: FCC 47 CFR 15.227
Test Method: ANSI C63.4:2003 (Section 13.1.7)
Test Date: 2006-08-03
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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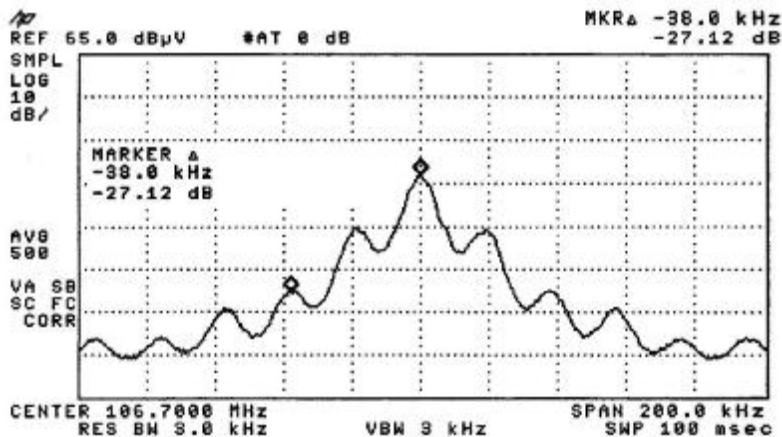
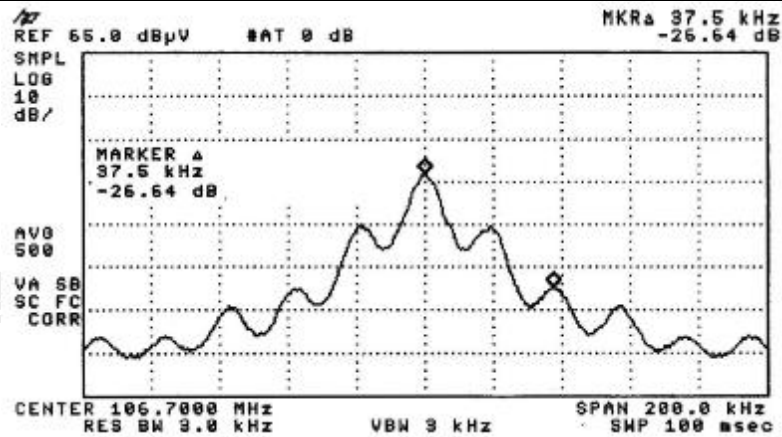
Limits for 20dB Bandwidth of Fundamental Emission:

| Frequency Range [MHz] | 20dB Bandwidth [kHz] | FCC Limits [kHz] |
|--------------------------|-------------------------|---------------------|
| 106.7 | 76 | 200 |

Result:

The following figure is the measured bandwidth of Fundamental Emission.

20dB Bandwidth of Fundamental Emission



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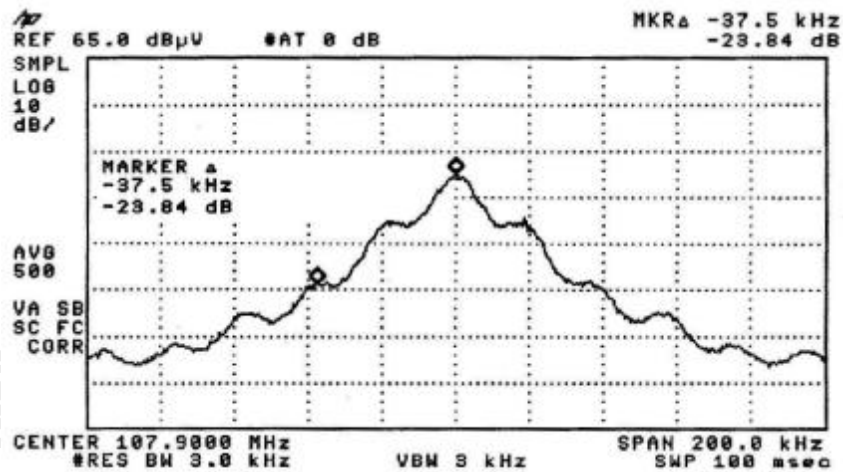
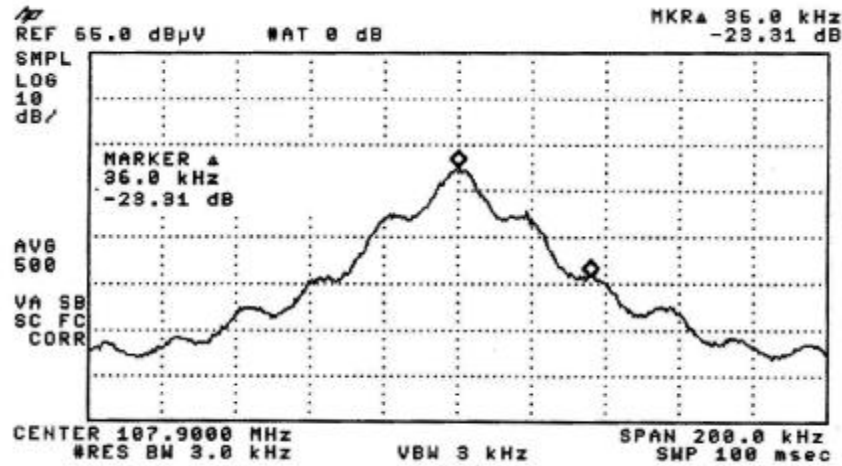
Limits for 20dB Bandwidth of Fundamental Emission:

| Frequency Range [MHz] | 20dB Bandwidth [kHz] | FCC Limits [kHz] |
|--------------------------|-------------------------|---------------------|
| 107.9 | 129 | 200 |

Result:

The following figure is the measured bandwidth of Fundamental Emission.

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. | LAST CAL |
|---------|----------------------------|-----------------|-----------|------------|------------|
| EM007 | SPECTRUM ANALYZER | HEWLETT PACKARD | HP85660B | 3144A21192 | 2005/06/27 |
| EM008 | SPECTRUM ANALYZER DISPLAY | HEWLETT PACKARD | HP85662A | 3144A20514 | 2005/06/27 |
| EM009 | QUASI PEAK ADAPTOR | HEWLETT PACKARD | HP85650A | 3303A01702 | 2005/06/27 |
| EM010 | RF PRESELECTOR | HEWLETT PACKARD | HP85685A | 3221A01410 | 2005/06/27 |
| EM011 | ATTENUATOR/SWITCH | HEWLETT PACKARD | HP11713A | 2508A10595 | 2005/06/27 |
| EM012 | PRE-AMPLIFIER | HEWLETT PACKARD | HP8449B | 3008A00262 | 2005/06/27 |
| EM020 | HORN ANTENNA | ETS-Linggren | 3115 | 4032 | 2003/07/30 |
| EM022 | LOOP ANTENNA | ETS-Linggren | 6502 | 1189-2424 | 2003/09/19 |
| EM072 | SIGNAL GENERATOR | HEWLETT PACKARD | 8640B | 1948A11892 | N/A |
| EM083 | OPEN AREA TEST SITE | HKSTC | N/A | N/A | 2005/12/08 |
| EM131 | EMC ANALYZER | HEWLETT PACKARD | 8595EM | 3710A00155 | 2006/03/29 |
| EM145 | EMI TEST RECEIVER | ROHDE & SCHWARZ | ESCS 30 | 830245/021 | 2004/10/04 |
| EM195 | ANTENNA POSITIONING MAST | ETS-Linggren | 2075 | 2368 | N/A |
| EM196 | MULTI-DEVICE CONTROLLER | ETS-Linggren | 2090 | 1662 | N/A |
| EM215 | MULTIDEVICE CONTROLER | ETS-Linggren | 2090 | 00024676 | N/A |
| EM216 | MINI MAST SYSTEM | ETS-Linggren | 2075 | 00026842 | N/A |
| EM217 | ELECTRIC POWERED TURNTABLE | ETS-Linggren | 2088 | 00029144 | N/A |
| EM218 | ANECHOIC CHAMBER | ETS-Linggren | FACT-3 | -- | 2006/05/02 |
| EM219 | BICONILOG ANTENNA | ETS-Linggren | 3142C | 00029071 | 2006/02/01 |
| EM229 | EMI TEST RECEIVER | ROHDE & SCHWARZ | ESIB40 | 100248 | 2005/02/04 |

Line Conducted

| EQP NO. | DESCRIPTION | MANUFACTURER | MODEL NO. | SERIAL NO. | LAST CAL |
|---------|-----------------------------------|-------------------------------------|------------|-----------------|------------|
| EM078 | VARIAC | SHANGHAI VOLTAGE | TDGC-3/0.5 | N/A | CM |
| EM081 | SMALL SCREENED ROOM | MIKO INST HK | N/A | N/A | 2006/01/12 |
| EM119 | LISN | ROHDE & SCHWARZ | ESH3-Z5 | 0831.5518.52 | 2004/10/14 |
| EM127 | ISOLATION TRANSFORMER 220 TO 300V | WING SUN | N/A | N/A | CM |
| EM233 | PULSE LIMITER | ROHDE & SCHWARZ | ESH3-Z2 | 100314 | 2006/01/09 |
| EM181 | EMI TEST RECEIVER | ROHDE & SCHWARZ | ESIB7 | 100072 | 2006/03/17 |
| EM154 | SHIELDING ROOM | SIEMENA MATSUSHITA COMPONENTS | N/A | 803-740-057-99A | 2006/01/12 |
| EM197 | LISN | ETS-Linggren | 4825/2 | 1193 | 2005/06/27 |
| EM213 | DIGITAL POWER METER | VICNOBL | VIP120 | 00277 | 2004/09/14 |

Remarks:-

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

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Appendix B

Photographs of EUT

Front View of the product



Rear View of the product



Front View of the product



Rear View of the product



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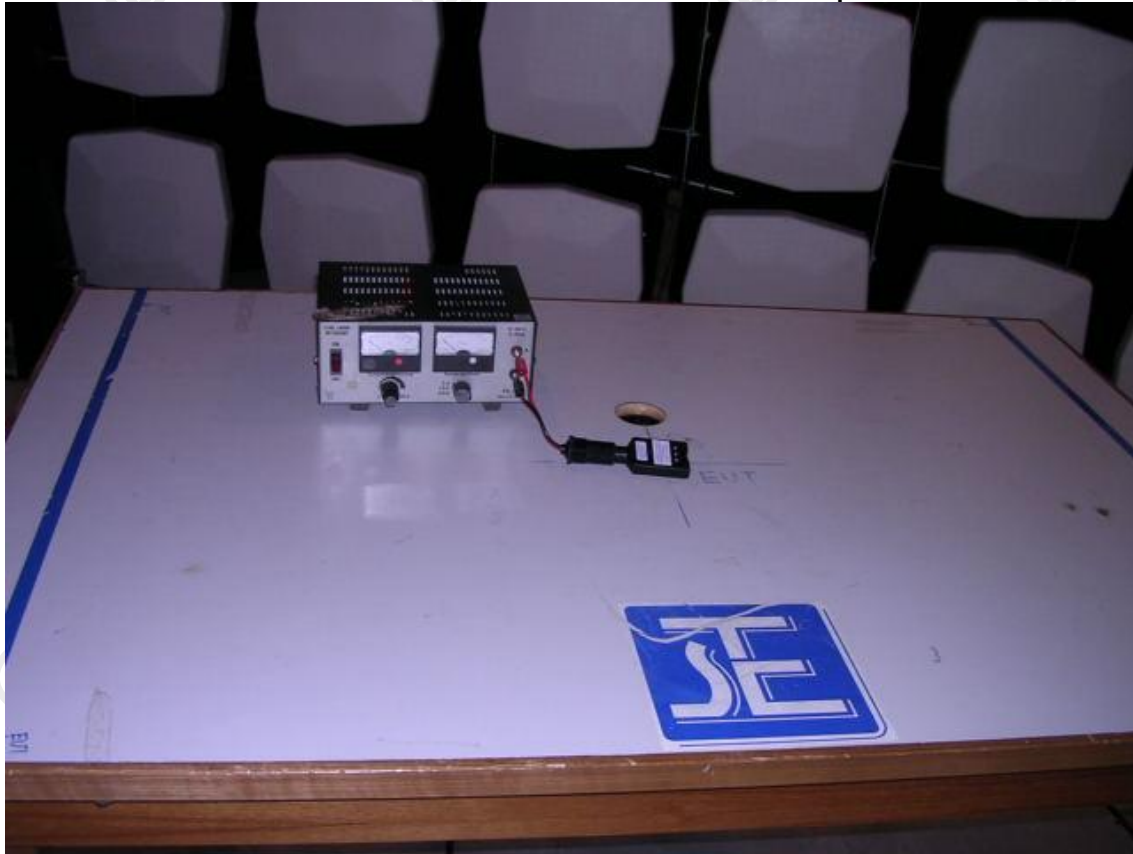
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Photographs of EUT

Measurement of Radiated Emission Test Set Up



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

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