

FCC TEST REPORT for Controlled Entry Distributors, Inc.

Access Control Model No.: SK1-H, K1

| Prepared for | : Controlled Entry Distributors, Inc. |
|--------------|--|
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| | |
| | |
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| | |

| Report Number | : | 201308723F |
|----------------|---|------------------------|
| Date of Test | : | Aug. 26~ Sep. 03, 2013 |
| Date of Report | : | Sep. 03, 2013 |



Shenzhen Anbotek Compliance Laboratory Limited FCC ID: SU7SK1-H Page 2 of 19 Report No.: 201308723F

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APPENDIX I (External Photos) (1 Pages) APPENDIX II (Internal Photos) (2 Pages)



TEST REPORT VERIFICATION

| Applicant | : | Controlled Entry Distributors, Inc. |
|--------------|---|-------------------------------------|
| Manufacturer | : | Secukey Technology Co., Ltd |
| EUT | : | Access Control |
| Model No. | : | SK1-H, K1 |
| Rating | : | DC 12-24V, 55mA or AC 12-18V, 55mA |
| Trade Mark | : | N/A |

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C 15.207&15.209-2011 & FCC / ANSI C63.4-2009

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited To determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both radiated and conducted emissions. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited Is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Test :

Aug. 26~ Sep. 03, 2013

Prepared by :

Reviewer:

(Engineer/ Rock Zeng)

(Project Manager/ Sally Zhang)

Ton Chen

Approved & Authorized Signer :

(Manager/ Tom Chen)



1. GENERAL INFORMATION

1.1. Description of Device (EUT)

| Description | : | Access Control |
|-------------------------|---|---|
| Model Number | : | SK1-H, K1 (Note: All samples are the same except the model number & appearance, so we prepare "SK1-H" for EMC test only.) |
| Test Power Supply | : | DC 12V |
| Frequency | : | 125KHz |
| Applicant Address | : | Controlled Entry Distributors, Inc. 2500 South 3850 West, Suite A, Salt Lake City, UT 84120 USA |
| Manufacturer Address | | Secukey Technology Co., Ltd 3/F, Building 8, Xintang Industrial Park, Fuyong, Bao'an District, Shenzhen, China |
| Date of Sample received | : | Aug. 26, 2013 |
| Date of Test | : | Aug. 26~ Sep. 03, 2013 |



1.2. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS - LAB Code: L3503

Shenzhen Anbotek Compliance Laboratory Limited., Laboratory has been assessed and in compliance with CNAS/CL01: 2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

FCC-Registration No.: 752021

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registed and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 752021, July 10, 2013.

IC-Registration No.: 8058A-1

Shenzhen Anbotek Compliance Laboratory Limited., EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration 8058A-1, February 22, 2013.

Test Location

All Emissions tests were performed 1/F., Building 1, SEC Industrial Park, No.0409 Qianhai Road, Nanshan District, Shenzhen, Guangdong, China

1.3. Measurement Uncertainty

| Radiation Uncertainty | : | Ur = 4.3dB |
|------------------------|---|------------|
| Conduction Uncertainty | : | Uc = 3.4dB |



2. Test Procedure

GENERAL: This report shall NOT be reproduced except in full without the written approval of Shenzhen Anbotek Compliance Laboratory Limited. The EUT was transmitting a test signal during the testing.

RADIATION INTERFERENCE: The test procedure used was ANSI STANDARD C63.4-2009 using a spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The resolution bandwidth was 100KHz and the video bandwidth was 300KHz up to 1.0GHz and 1.0MHz with a video BW of 3.0MHz above 1.0GHz. The ambient temperature of the EUT was 74.30F with a humidity of 69%.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB. The gain of the Preselector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

Freq (MHz) METER READING + ACF = FS 33 20 dBuV + 10.36 dB = 30.36 dBuV/m @ 3m

ANSI STANDARD C63.4-2009 10.1.7 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation.

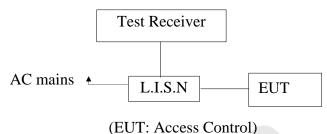
When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.



3. POWER LINE CONDUCTED MEASUREMENT

3.1. Block Diagram of Test Setup

3.1.1 Block diagram of connection between the EUT and simulators



3.2. Power Line Conducted Emission Measurement Limits (FCC Part 15

15.207)

| Frequency | Limits dB(µV) | | | |
|--------------|--------------------------------|----------|--|--|
| MHz | Quasi-peak Level Average Level | | | |
| 0.15 ~ 0.50 | 66 ~ 56* | 56 ~ 46* | | |
| 0.50 ~ 5.00 | 56 | 46 | | |
| 5.00 ~ 30.00 | 60 | 50 | | |

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.3. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

| EUT | : | Access Control |
|--------------|---|-------------------------------------|
| Model Number | : | SK1-H |
| Applicant | : | Controlled Entry Distributors, Inc. |

3.4. Operating Condition of EUT

- 3.4.1. Setup the EUT and simulator as shown as Section 3.1.
- 3.4.2. Turn on the power of all equipment.
- 3.4.3. Let the EUT work in test mode (ON) and measure it.



3.5. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.4-2009 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9KHz.

The frequency range from 150KHz to 30MHz is checked.

The test result are reported on Section 3.6.

| | Test Equipment | | | | | | |
|------|--------------------------------------|-------------------------|-----------|------------|---------------|---------------|--|
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval | |
| 1. | Two-Line V-network | Rohde & Schwarz | ENV216 | 100055 | Apr. 23, 2013 | 1 Year | |
| 2. | EMI Test Receiver | Rohde & Schwarz | ESCI | 100627 | Apr. 23, 2013 | 1 Year | |
| 3. | RF Switching Unit | Compliance Direction | RSU-M2 | 38303 | Apr. 23, 2013 | 1 Year | |
| | Conduction Uncertainty $Uc = 3.4 dB$ | | | | | | |

Test Fauinment

Conduction Uncertainty

= 3.4dB

3.6. Power Line Conducted Emission Measurement Results PASS.

The frequency range from 150KHz to 30 MHz is investigated.

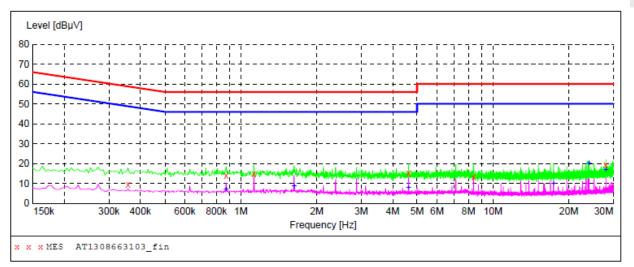
Please refer the following pages.

CONDUCTED EMISSION TEST DATA

| EUT: | Access Control M/N: SK1-H | |
|----------------------|---------------------------|--|
| Operating Condition: | ON | |
| Test Site: | 1# Shielded Room | |
| Operator: | Rock Zeng | |
| Test Specification: | DC 12V | |
| Comment: | + | |
| | Tem:25℃ Hum:50% | |

SCAN TABLE: "Voltage (150K~30M) FIN"

Short Description: 150K-30M Disturbance Voltages



MEASUREMENT RESULT: "AT1308663103_fin"

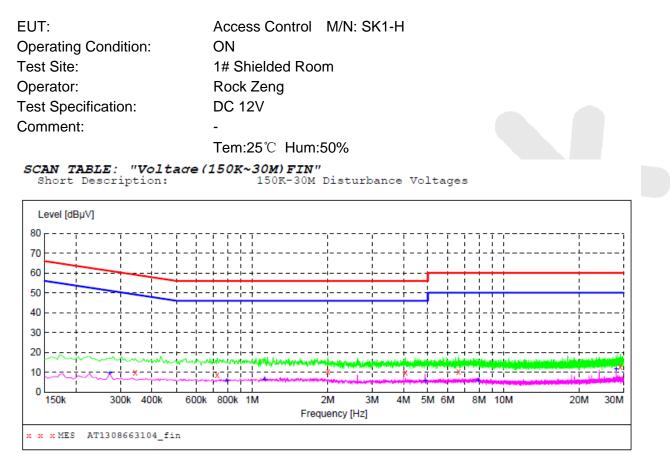
| 8/26/2013 | 11:34AM | | | | | | |
|-----------|---------|------------|---------|--------|----------|------|-----|
| Frequen | cy Lev | vel Transo | d Limit | Margin | Detector | Line | PE |
| М | Hz dE | βµV dI | 3 dBµV | dB | | | |
| | | | | | | | |
| 0.3570 | 00 9. | 60 20.1 | L 59 | 49.2 | QP | + | GND |
| 0.8745 | 00 14. | 00 20.1 | L 56 | 42.0 | QP | + | GND |
| 1.1260 | 00 14. | 70 20.2 | 2 56 | 41.3 | QP | + | GND |
| 4.6270 | 00 15. | 30 20.5 | 5 56 | 40.7 | QP | + | GND |
| 8.3755 | 00 13. | 30 20.6 | 5 60 | 46.7 | QP | + | GND |
| 28.0000 | 00 19. | 20 20.9 | 9 60 | 40.8 | QP | + | GND |
| | | | | | | | |

MEASUREMENT RESULT: "AT1308663103_fin2"

| 8/26/2013 11: Frequency MHz | | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|-----------------------------------|-------|--------------|---------------|--------------|----------|------|-----|
| 0.874500 | 7.20 | 20.1 | 46 | 38.8 | AV | + | GND |
| 1.625500 | 8.70 | 20.3 | 46 | 37.3 | AV | + | GND |
| 4.622500 | 7.80 | 20.5 | 46 | 38.2 | AV | + | GND |
| 17.375500 | 10.00 | 20.8 | 50 | 40.0 | AV | + | GND |
| 23.999500 | 20.10 | 20.8 | 50 | 29.9 | AV | + | GND |
| 28.000000 | 17.00 | 20.9 | 50 | 33.0 | AV | + | GND |

CONDUCTED EMISSION TEST DATA

Product S



MEASUREMENT RESULT: "AT1308663104 fin"

8/26/2013 11:38AM Frequency Level Transd Limit Margin Detector Line PE MHz dBµV dB dBµV dB 0.343500 9.70 20.1 0.726000 8.80 20.1 59 49.4 QP GND _ 56 47.2 QP GND 10.30 20.3 45.7 QP 2.003500 56 GND _ 9.90 20.5 56 46.1 QP 10.20 20.5 60 49.8 QP 12.80 20.9 60 47.2 QP 46.1 QP 49.8 QP 4.069000 GND 6.629500 GND 29.120500 GND

MEASUREMENT RESULT: "AT1308663104_fin2"

| 8/26/2013 11: Frequency MHz | | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|-----------------------------------|-------|--------------|---------------|--------------|----------|------|-----|
| 0.271500 | 9.50 | 20.1 | 51 | 41.6 | AV | - | GND |
| 0.793500 | 5.70 | 20.1 | 46 | 40.3 | AV | - | GND |
| 1.121500 | 6.30 | 20.2 | 46 | 39.7 | AV | - | GND |
| 4.874500 | 5.70 | 20.5 | 46 | 40.3 | AV | - | GND |
| 7.912000 | 5.90 | 20.5 | 50 | 44.1 | AV | - | GND |
| 28.000000 | 11.70 | 20.9 | 50 | 38.3 | AV | - | GND |



4. RADIATED EMISSION MEASUREMENT

| Frequency | Field Streng Limitation | | Field Strength Limitation at 3m Measurement Dist | | | | | |
|---------------|----------------------------|------|--|-------------------------|--|--|--|--|
| (MHz) | (uV/m) | Dist | (uV/m) | (dBuV/m) | | | | |
| 0.009 - 0.490 | 2400 / F(KHz) | 300m | 10000 * 2400/F(KHz) | 20log 2400/F(KHz) + 80 | | | | |
| 0.490 - 1.705 | 24000 / F(KHz) | 30m | 100 * 24000/F(KHz) | 20log 24000/F(KHz) + 40 | | | | |
| 1.705 – 30.00 | 30 | 30m | 100* 30 | 20log 30 + 40 | | | | |
| 30.0 - 88.0 | 100 | 3m | 100 | 20log 100 | | | | |
| 88.0 - 216.0 | 150 | 3m | 150 | 20log 150 | | | | |
| 216.0 - 960.0 | 200 | 3m | 200 | 20log 200 | | | | |
| Above 960.0 | 500 | 3m | 500 | 20log 500 | | | | |

4.1. Radiated Emission Limits

Note:

- (1) The tighter limit shall apply at the boundary between two frequency range.
- (2) Limitation expressed in dBuV/m is calculated by 20log Emission Level (uV/m).
- (3) If measurement is made at 3m distance, then F.S Limitation at 3m distance is adjusted by using the formula of Ld1 = Ld2 * (d2/d1)². Example:
 F.S Limit at 30m distance is 30uV/m, then F.S Limitation at 3m distance is adjusted as

 $Ld1 = L1 = 30uV/m * (10)^2 = 100 * 30 uV/m$

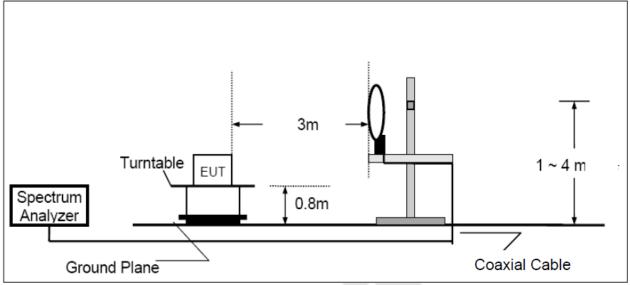
4.2. Test Procedure

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

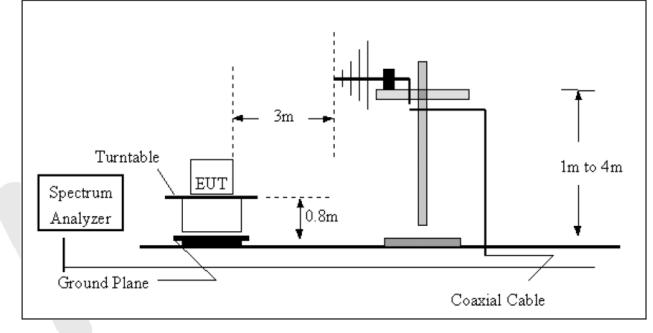


4.3. Test Setup

(A)Radiated Emission Test Set-Up, Frequency below 30MHz



(B)Radiated Emission Test Set-Up, Frequency 30-1000MHz





Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|--------------------------------|-----------------|-----------|------------------|---------------|---------------|
| 1. | EMI Test Receiver | Rohde & Schwarz | ESPI | 101604 | Apr. 23, 2013 | 1 Year |
| 2. | Bilog Broadband Antenna | Schwarzbeck | VULB9163 | VULB 9163-289 | May 14, 2013 | 3 Year |
| 3. | Pre-amplifier | SONOMA | 310N | 186860 | Aug. 09, 2013 | 1 Year |
| 4. | EMI Test Software EZ-EMC | SHURPLE | N/A | N/A | N/A | N/A |
| | Radiation U | Uncertainty | : | Ur = 4.3 dB | | |

Radiation Uncertainty

Ur = 4.3 dB

| Freq.(KHz) | Reading at 3m (dBuV/m) | Factor (dB) Cable loss | Result at 3m (dBuV/m) | Field Strength Limit (uV/m) | Required Measurement Distance (m) | Limitation Converted 3m dist. (dBuV/m) | Over Limit (dB) | Detector (PK/AV) |
|------------|------------------------------|---------------------------------|-----------------------------|--------------------------------------|--|---|-----------------------|---------------------|
| 125.00 | 80.19 | 16.00 | 96.19 | 19.20 | 300.00 | 105.67 | -9.48 | РК |
| 250.00 | 48.32 | 15.60 | 63.92 | 9.6 | 300.00 | 99.66 | -35.74 | РК |
| 375.00 | 47.19 | 15.30 | 62.49 | 6.4 | 300.00 | 96.12 | -33.63 | РК |
| 500.00 | 43.25 | 14.80 | 58.05 | 48 | 30.00 | 73.62 | -15.57 | PK |
| 625.00 | 42.17 | 14.50 | 56.67 | 38.4 | 30.00 | 71.69 | -15.02 | РК |
| 800.00 | 37.04 | 13.95 | 50.99 | 30 | 30.00 | 69.54 | -18.55 | PK |
| 925.00 | | | | | | | - | |
| 1050.00 | | | | | | - | - | |
| 1250.00 | | | | | | | | |
| 1500.00 | | | | | | | | |

4.4. Test Results (Below 30MHz)

Remark:

(1) Spectrum Setting:

9 KHz - 150 KHz, RBW= 1 KHz, VBW=1 KHz, Sweep time = 200 ms.

150 K Hz - 30 MHz, RBW= 9 KHz, VBW=9 KHz, Sweep time = 200 ms.

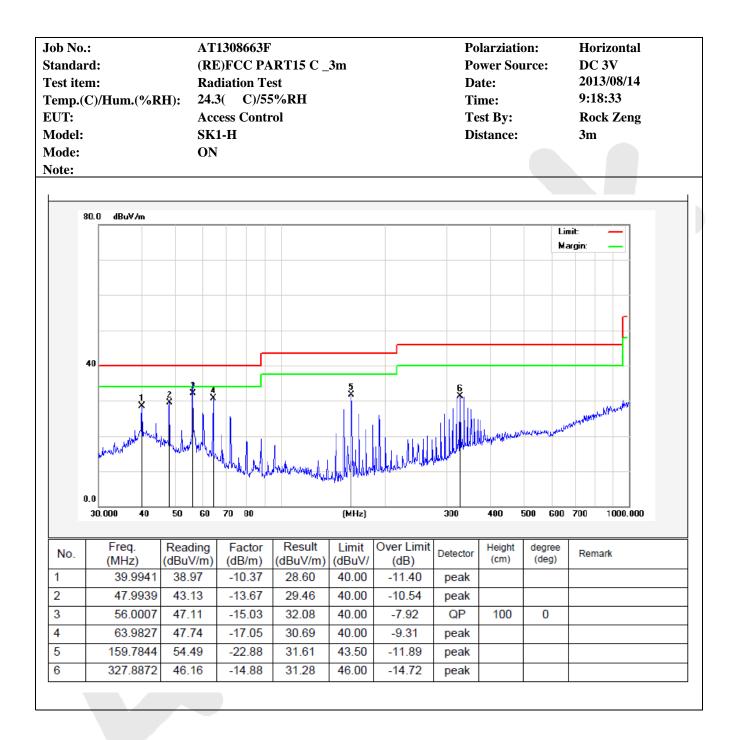
- (2) All readings are Peak unless otherwise stated QP in column of [Note]. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measure-ment didn't perform.
- (3) The Log-Bicon Antenna will use to test frequency range from 30MHz to 1000MHz and the Loop Antenna will use to test frequency below 30MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table

4.5. Test Results (Between 30-1000MHz)

Pass

The test curves are shown in the following pages.







| | .: | АТ | 1308663I | <u>r</u> | | | Po | larziati | on: | Verti | icai |
|---------------|---|--|--|--|---|--|--------------------------------|---------------------------------------|---|--|----------|
| anda | | | , | ART15 C | <u>3m</u> | | Po | wer Sou | arce: | DC 3 | |
| st ite | | | diation T | | | | | nte: | | | /08/14 |
| - | (C)/Hum.(%RH | | ` ' | 5%RH | | | | me: | | 9:15: | |
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| ode: ote: | | ON | 1 | | | | | | | | |
| ле. | | | | | | | | | | | |
| 1 | 80.0 dBuV/m | | | | | | | | | | |
| | | | | | | | | | Li | mit: | - |
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| | | <u> </u> | | 5 X | 6 X | | | | | | Marin |
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| | | 50 60 | 70 90 | \$ M M M M M M M M M M M M M M M M M M | (MHz) | | 300 | | | | 1000.000 |
| | | Z 3 | 70 90 | * | (MHz) | | 300 | | | | |
| | 0.0 30.000 40 | Reading | Factor | Result | Limit | Over Limit | | 400 Height | 500 600 degree | | 1000.000 |
| | 0.0 30.000 40 Freq. ((MHz) (| Reading dBuV/m) | Factor (dB/m) | (dBuV/m) | Limit (dBuV/ | (dB) | Detector | 400 | 500 600 | 700 | 1000.000 |
| No. | 0.0 30.000 40 Freq. ((MHz) () 39.9941 | Reading dBuV/m) 43.33 | Factor (dB/m) -10.37 | (dBuV/m) 32.96 | Limit (dBuV/ 40.00 | (dB) -7.04 | Detector peak | 400 Height | 500 600 degree | 700 | 1000.000 |
| No. | 0.0 30.000 40 Freq. ((MHz) (39.9941 47.9939 | Reading dBuV/m) 43.33 47.08 | Factor (dB/m) -10.37 -13.67 | (dBuV/m) 32.96 33.41 | Limit (dBuV/ 40.00 40.00 | (dB) -7.04 -6.59 | Detector peak peak | 400 Height (cm) | 500 600 degree (deg) | 700 | 1000.000 |
| No. | 0.0 30.000 40 Freq. ((MHz) (39.9941 47.9939 59.8588 | Reading dBuV/m) 43.33 47.08 48.54 | Factor (dB/m) -10.37 -13.67 -15.38 | (dBuV/m) 32.96 33.41 33.16 | Limit (dBuV/ 40.00 40.00 40.00 | (dB) -7.04 -6.59 -6.84 | Detector peak peak QP | 400 Height (cm) 100 | 500 600 degree (deg) 0 | 700 | 1000.000 |
| No. | 0.0 30.000 40 Freq. (MHz) ((39.9941 47.9939 59.8588 80.0806 | Reading dBuV/m) 43.33 47.08 48.54 52.47 | Factor (dB/m) -10.37 -13.67 -15.38 -19.95 | (dBuV/m) 32.96 33.41 33.16 32.52 | Limit (dBuV/ 40.00 40.00 40.00 40.00 | (dB) -7.04 -6.59 -6.84 -7.48 | Detector peak peak QP | 400 Height (cm) | 500 600 degree (deg) | 700 | 1000.000 |
| | 0.0 30.000 40 Freq. ((MHz) (39.9941 47.9939 59.8588 | Reading dBuV/m) 43.33 47.08 48.54 | Factor (dB/m) -10.37 -13.67 -15.38 | (dBuV/m) 32.96 33.41 33.16 | Limit (dBuV/ 40.00 40.00 40.00 | (dB) -7.04 -6.59 -6.84 | Detector peak peak QP | 400 Height (cm) 100 | 500 600 degree (deg) 0 | 700 | 1000.000 |



APPENDIX I (External Photos) Figure 1

The EUT-Front View



Figure 2 The EUT-Back View





APPENDIX II (Internal Photos)

Figure 3 The EUT-Inside View



Figure 4 PCB of the EUT-Front View





Figure 5 PCB of the EUT-Back View

