

APPLICATION FOR VERIFICATION

On Behalf of
Ho Lee Co., Ltd.

Dog Trainer
Model No.: GDG4-1, GDG4-JR

FCC ID: Y4T-GDG4

Prepared for : Ho Lee Co., Ltd.
Address : 27th FL., No. 29-3, Sec. 2, Chung Cheng E RD, Tamshui District, New Taipei City, Taiwan
Prepared by : Accurate Technology Co., Ltd.
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Report No. : ATE20152132
Date of Test : Oct 9-27, 2015
Date of Report : Oct 28, 2015

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Test Report Declaration



Applicant : Ho Lee Co., Ltd.
Manufacturer : Ho Lee Co., Ltd.
EUT Description : Dog Trainer
MODEL NO.: GDG4-1

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart B
ANSI C63.4: 2014

The device described above is tested by Accurate Technology Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class B limits both radiated and conducted emissions. The measurement results are contained in this test report and Accurate Technology Co., Ltd. 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 Accurate Technology Co., Ltd.

| | |
|--------------------------------|---|
| Date of Test : | Sep 28-Oct 28,2015 |
| Date of Report : | Oct 29, 2015 |
| Prepared by : |  (Mark Chen, Engineer) |
| Approved & Authorized Signer : |  (Sean Liu, Manager) |

1. TEST RESULTS SUMMARY

| Test Items | Test Standard | Test Results |
|-------------------------------|-----------------|--------------|
| Power Line Conducted Emission | FCC Part 15.107 | Pass |
| Radiated Emission | FCC Part 15.109 | Pass |

2. GENERAL INFORMATION

2.1.Product of Device (EUT)

| | |
|----------------------------|--|
| EUT | : Dog Trainer |
| Model Number | : GDG4-1, GDG4-GR (Note: The internal structure is the same, The structure size is different. So we prepare GDG4-1 for test only.) |
| Power Supply | : AC 100-240V~50/60Hz |
| Adapter | : MODEL: GQ36-120300-AU Input: 100-240V~50/60Hz 1.0A Max 12V/3A |
| RX | : 315MHz |
| Trade Mark | : N/A |
| Applicant | : Ho Lee Co., Ltd. |
| Address | : 27th FL., No. 29-3, Sec. 2, Chung Cheng E RD, Tamshui District, New Taipei City, Taiwan |
| Manufacturer | : Ho Lee Co., Ltd. |
| Address | : 27th FL., No. 29-3, Sec. 2, Chung Cheng E RD, Tamshui District, New Taipei City, Taiwan |
| Date of sample received | : Oct 9, 2015 |
| Date of Test | : Oct 9-28, 2015 |

2.2.Accessory and Auxiliary Equipment

NA

2.3. Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen, May 10, 2004

Listed by FCC

The Registration Number is 253065

Listed by FCC

The Registration Number is 752051

Listed by Industry Canada

The Registration Number is 5077A-1

Listed by Industry Canada

The Registration Number is 5077A-2

Accredited by China National Accreditation Committee for Laboratories

The Certificate Registration Number is L3193

Name of Firm : Accurate Technology Co., Ltd.

Site Location : F1, Bldg. A&D, Changyuan New Material Port, Keyuan Rd., Science & Industry Park, Nanshan District, Shenzhen 518057, P.R. China

2.4. Measurement Uncertainty

Conducted emission expanded uncertainty : U=2.23dB, k=2

Power disturbance expanded uncertainty : U=2.92dB, k=2

Radiated emission expanded uncertainty : U=3.08dB, k=2
(9kHz-30MHz)

Radiated emission expanded uncertainty : U=4.42dB, k=2
(30MHz-1000MHz)

Radiated emission expanded uncertainty : U=4.06dB, k=2
(Above 1GHz)

3. MEASURING DEVICE AND TEST EQUIPMENT

3.1. The Equipments Used to Measure Conducted Disturbance

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|--|-----------------|-----------|------------|--------------|---------------|
| 1. | Test Receiver | Rohde & Schwarz | ESCS30 | 100307 | Jan.10, 2015 | 1 Year |
| 2. | Test Receiver | Rohde & Schwarz | ESPI | 100396/003 | Jan.10, 2015 | 1 Year |
| 3. | Test Receiver | Rohde & Schwarz | ESPI | 101526/003 | Jan.10, 2015 | 1 Year |
| 4. | Test Receiver | Rohde & Schwarz | ESR | 101817 | Jan.10, 2015 | 1 Year |
| 5. | L.I.S.N. | Schwarzbeck | NLSK8126 | 8126431 | Jan.10, 2015 | 1 Year |
| 6. | L.I.S.N. | Rohde & Schwarz | ESH3-Z5 | 100305 | Jan.10, 2015 | 1 Year |
| 7. | L.I.S.N. | Rohde & Schwarz | ESH3-Z5 | 100310 | Jan.10, 2015 | 1 Year |
| 8. | L.I.S.N. | Rohde & Schwarz | ESH3-Z6 | 100132 | Jan.10, 2015 | 1 Year |
| 9. | L.I.S.N. | Rohde & Schwarz | ESH3-Z6 | 100979 | Jan.10, 2015 | 1 Year |
| 10. | Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 100305 | Jan.10, 2015 | 1 Year |
| 11. | Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 100312 | Jan.10, 2015 | 1 Year |
| 12. | Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 100815 | Jan.10, 2015 | 1 Year |
| 13. | 50Ω Coaxial Switch | Anritsu Corp | MP59B | 6200283936 | Jan.10, 2015 | 1 Year |
| 14. | 50Ω Coaxial Switch | Anritsu Corp | MP59B | 6200283933 | Jan.10, 2015 | 1 Year |
| 15. | 50Ω Coaxial Switch | Anritsu Corp | MP59B | 6200506474 | Jan.10, 2015 | 1 Year |
| 16. | VOLTAGE PROBE | Schwarzbeck | TK9416 | N/A | Jan.10, 2015 | 1 Year |
| 17. | RF CURRENT PROBE | Rohde & Schwarz | EZ-17 | 100048 | Jan.10, 2015 | 1 Year |
| 18. | 8-Wire Impedance Stabilisation Network | Schwarzbeck | CAT5 8158 | 8158-0035 | Jan.10, 2015 | 1 Year |
| 19. | RF Coaxial Cable | SUHNER | N-2m | No.2 | Jan.10, 2015 | 1 Year |
| 20. | RF Coaxial Cable | SUHNER | N-2m | No.3 | Jan.10, 2015 | 1 Year |
| 21. | RF Coaxial Cable | SUHNER | N-2m | No.14 | Jan.10, 2015 | 1 Year |

3.2. The Equipments Used to Measure Radiated Disturbance

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|----------------------------------|----------------------|--------------------------|------------|--------------|---------------|
| 1. | Spectrum Analyzer | Agilent | E7405A | MY45115511 | Jan.10, 2015 | 1 Year |
| 2. | Spectrum Analyzer | Rohde&Schwarz | FSV40 | 101495 | Jan.10, 2015 | 1 Year |
| 3. | Test Receiver | Rohde&Schwarz | ESCS30 | 100307 | Jan.10, 2015 | 1 Year |
| 4. | Test Receiver | Rohde& Schwarz | ESPI | 100396/003 | Jan.10, 2015 | 1 Year |
| 5. | Test Receiver | Rohde& Schwarz | ESPI | 101526/003 | Jan.10, 2015 | 1 Year |
| 6. | Test Receiver | Rohde& Schwarz | ESR | 101817 | Jan.10, 2015 | 1 Year |
| 7. | Bilog Antenna | Schwarzbeck | VULB9163 | 9163-194 | Jan.15, 2015 | 1 Year |
| 8. | Bilog Antenna | Schwarzbeck | VULB9163 | 9163-323 | Jan.15, 2015 | 1 Year |
| 9. | Log.-Per.Antenna | Schwarzbeck | VUSLP 9111B | 9111B-074 | Jan.15, 2015 | 1 Year |
| 10. | Biconical Broad Band Antenna | Schwarzbeck | VHBB 9124+BBA 9106 | 9124-617 | Jan.15, 2015 | 1 Year |
| 11. | Loop Antenna | Schwarzbeck | FMZB1516 | 1516131 | Jan.15, 2015 | 1 Year |
| 12. | Horn Antenna | Schwarzbeck | BBHA9120D | 9120D-655 | Jan.15, 2015 | 1 Year |
| 13. | Horn Antenna | Schwarzbeck | BBHA9120D | 9120D-1067 | Jan.15, 2015 | 1 Year |
| 14. | Vertical Active Monopole Antenna | Schwarzbeck | VAMP 9243 | 9243-370 | Jan.15, 2015 | 1 Year |
| 15. | RF Switching Unit+PreAMP | Compliance Direction | RSU-M2 | 38322 | Jan.10, 2015 | 1 Year |
| 16. | Pre-Amplifier | Agilent | 8447D | 294A10619 | Jan.10, 2015 | 1 Year |
| 17. | Pre-Amplifier | Rohde&Schwarz | CBLU11835 40-01 | 3791 | Jan.10, 2015 | 1 Year |
| 18. | 50 Coaxial Switch | Anritsu Corp | MP59B | 6200237248 | Jan.10, 2015 | 1 Year |
| 19. | 50 Coaxial Switch | Anritsu Corp | MP59B | 6200506474 | Jan.10, 2015 | 1 Year |
| 20. | RF Coaxial Cable | Schwarzbeck | N-5m | No.1 | Jan.10, 2015 | 1 Year |
| 21. | RF Coaxial Cable | Schwarzbeck | N-1m | No.6 | Jan.10, 2015 | 1 Year |
| 22. | RF Coaxial Cable | Schwarzbeck | N-1m | No.7 | Jan.10, 2015 | 1 Year |
| 23. | RF Coaxial Cable | SUHNER | N-3m | No.8 | Jan.10, 2015 | 1 Year |
| 24. | RF Coaxial Cable | RESENBERGER | N-3.5m | No.9 | Jan.10, 2015 | 1 Year |
| 25. | RF Coaxial Cable | SUHNER | N-6m | No.10 | Jan.10, 2015 | 1 Year |
| 26. | RF Coaxial Cable | RESENBERGER | N-12m | No.11 | Jan.10, 2015 | 1 Year |
| 27. | RF Coaxial Cable | RESENBERGER | N-0.5m | No.12 | Jan.10, 2015 | 1 Year |
| 28. | RF Coaxial Cable | SUHNER | N-2m | No.13 | Jan.10, 2015 | 1 Year |
| 29. | RF Coaxial Cable | SUHNER | N-0.5m | No.15 | Jan.10, 2015 | 1 Year |
| 30. | RF Coaxial Cable | SUHNER | N-2m | No.16 | Jan.10, 2015 | 1 Year |
| 31. | RF Coaxial Cable | RESENBERGER | N-6m | No.17 | Jan.10, 2015 | 1 Year |

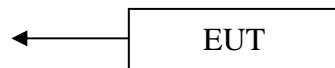
4. POWER LINE CONDUCTED MEASUREMENT

4.1. Block Diagram of Test Setup

4.1.1. Block diagram of connection between the EUT and simulators

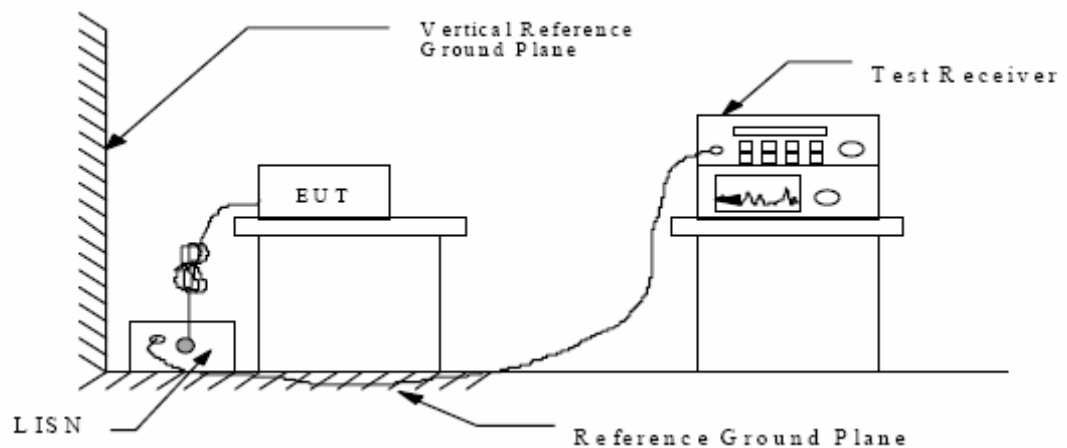
4.1.1.1. For ON

AC 120V/60Hz/240V/60HZ



(EUT: Dog Trainer)

4.1.2. Shielding Room Test Setup Diagram



(EUT: Dog Trainer)

4.2. The Emission Limit

4.2.1. Conducted Emission Measurement Limits According to Section 15.107(a)

| Frequency (MHz) | Limit dB(μV) | |
|--------------------|------------------|---------------|
| | Quasi-peak Level | Average Level |
| 0.15 - 0.50 | 66.0 – 56.0 * | 56.0 – 46.0 * |
| 0.50 - 5.00 | 56.0 | 46.0 |
| 5.00 - 30.00 | 60.0 | 50.0 |

* Decreases with the logarithm of the frequency.

4.3. 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.

4.3.1. Dog Trainer (EUT)

Model Number: GDG4-1

Serial Number: N/A

Manufacturer: Ho Lee Co., Ltd.

4.4. Operating Condition of EUT

4.4.1. Setup the EUT and simulator as shown as Section 3.2.

4.4.2. Turn on the power of all equipment.

4.4.3. Let the EUT work in test mode and measure it.

4.5. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and 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 lines 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 ANSI C63.4: 2014 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

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

4.6. Power Line Conducted Emission Measurement Results

PASS.

| Test Mode: ON(120V/60HZ) | | | | | | | | |
|---|---------------|--------------|---------------|--------------|----------|------|-----|--|
| MEASUREMENT RESULT: "RY-1019-2_fin" | | | | | | | | |
| 10/19/2015 8:49AM | | | | | | | | |
| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE | |
| 0.195000 | 39.80 | 10.5 | 64 | 24.0 | QP | L1 | GND | |
| 0.560000 | 38.50 | 10.7 | 56 | 17.5 | QP | L1 | GND | |
| 21.805000 | 40.80 | 11.4 | 60 | 19.2 | QP | L1 | GND | |
| MEASUREMENT RESULT: "RY-1019-2_fin2" | | | | | | | | |
| 10/19/2015 8:49AM | | | | | | | | |
| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE | |
| 0.190000 | 24.10 | 10.5 | 54 | 29.9 | AV | L1 | GND | |
| 0.565000 | 19.80 | 10.7 | 46 | 26.2 | AV | L1 | GND | |
| 21.685000 | 26.20 | 11.4 | 50 | 23.8 | AV | L1 | GND | |
| MEASUREMENT RESULT: "RY-1019-1_fin" | | | | | | | | |
| 10/19/2015 8:44AM | | | | | | | | |
| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE | |
| 0.190000 | 40.70 | 10.5 | 64 | 23.3 | QP | N | GND | |
| 0.570000 | 38.40 | 10.7 | 56 | 17.6 | QP | N | GND | |
| 21.580000 | 41.40 | 11.4 | 60 | 18.6 | QP | N | GND | |
| MEASUREMENT RESULT: "RY-1019-1_fin2" | | | | | | | | |
| 10/19/2015 8:44AM | | | | | | | | |
| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE | |
| 0.190000 | 24.00 | 10.5 | 54 | 30.0 | AV | N | GND | |
| 0.565000 | 19.80 | 10.7 | 46 | 26.2 | AV | N | GND | |
| 21.925000 | 25.70 | 11.4 | 50 | 24.3 | AV | N | GND | |

Test Mode: ON(240V/60HZ)

MEASUREMENT RESULT: "RY-1019-3_fin"

10/19/2015 8:53AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.195000 | 39.80 | 10.5 | 64 | 24.0 | QP | L1 | GND |
| 0.575000 | 37.60 | 10.7 | 56 | 18.4 | QP | L1 | GND |
| 21.520000 | 41.30 | 11.4 | 60 | 18.7 | QP | L1 | GND |

MEASUREMENT RESULT: "RY-1019-3_fin2"

10/19/2015 8:53AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.190000 | 24.20 | 10.5 | 54 | 29.8 | AV | L1 | GND |
| 0.560000 | 19.30 | 10.7 | 46 | 26.7 | AV | L1 | GND |
| 21.565000 | 26.50 | 11.4 | 50 | 23.5 | AV | L1 | GND |

MEASUREMENT RESULT: "RY-1019-4_fin"

10/19/2015 8:58AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.190000 | 40.30 | 10.5 | 64 | 23.7 | QP | N | GND |
| 0.400000 | 34.60 | 10.7 | 58 | 23.3 | QP | N | GND |
| 21.475000 | 41.10 | 11.4 | 60 | 18.9 | QP | N | GND |

MEASUREMENT RESULT: "RY-1019-4_fin2"

10/19/2015 8:58AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.250000 | 20.10 | 10.6 | 52 | 31.7 | AV | N | GND |
| 0.570000 | 19.40 | 10.7 | 46 | 26.6 | AV | N | GND |
| 21.655000 | 26.20 | 11.4 | 50 | 23.8 | AV | N | GND |

Emissions attenuated more than 20 dB below the permissible value are not reported.

The spectral diagrams are shown in the following pages.

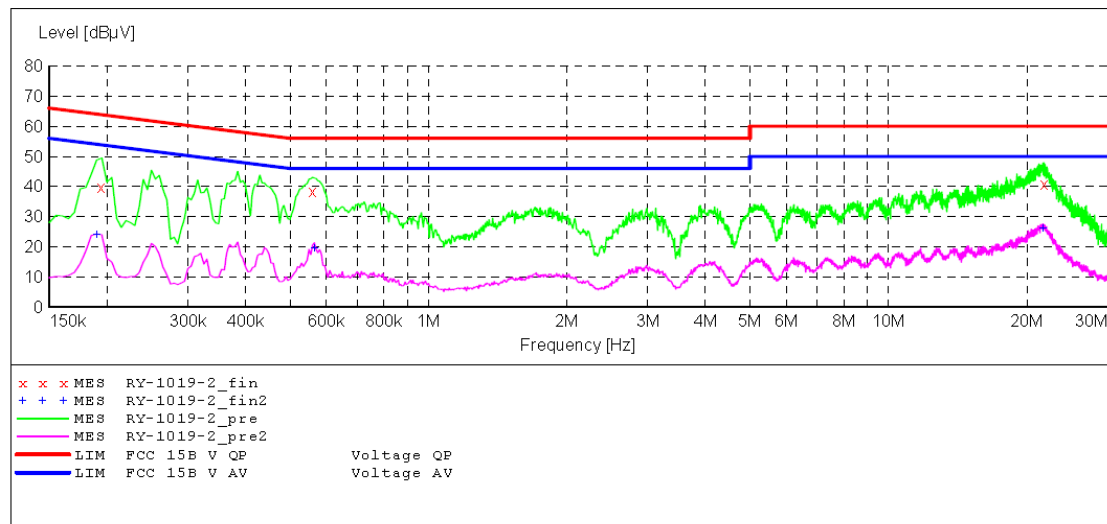
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Dog Trainer M/N:GDG4-1
 Manufacturer: Ho Lee Co., LTD
 Operating Condition: ON
 Test Site: 1#Shielding Room
 Operator: Ricky
 Test Specification: L 120V/60Hz
 Comment: Report NO.:ATE20152132
 Start of Test: 10/19/2015 / 8:46:04AM

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008
 Average
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average



MEASUREMENT RESULT: "RY-1019-2_fin"

10/19/2015 8:49AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.195000 | 39.80 | 10.5 | 64 | 24.0 | QP | L1 | GND |
| 0.560000 | 38.50 | 10.7 | 56 | 17.5 | QP | L1 | GND |
| 21.805000 | 40.80 | 11.4 | 60 | 19.2 | QP | L1 | GND |

MEASUREMENT RESULT: "RY-1019-2_fin2"

10/19/2015 8:49AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.190000 | 24.10 | 10.5 | 54 | 29.9 | AV | L1 | GND |
| 0.565000 | 19.80 | 10.7 | 46 | 26.2 | AV | L1 | GND |
| 21.685000 | 26.20 | 11.4 | 50 | 23.8 | AV | L1 | GND |

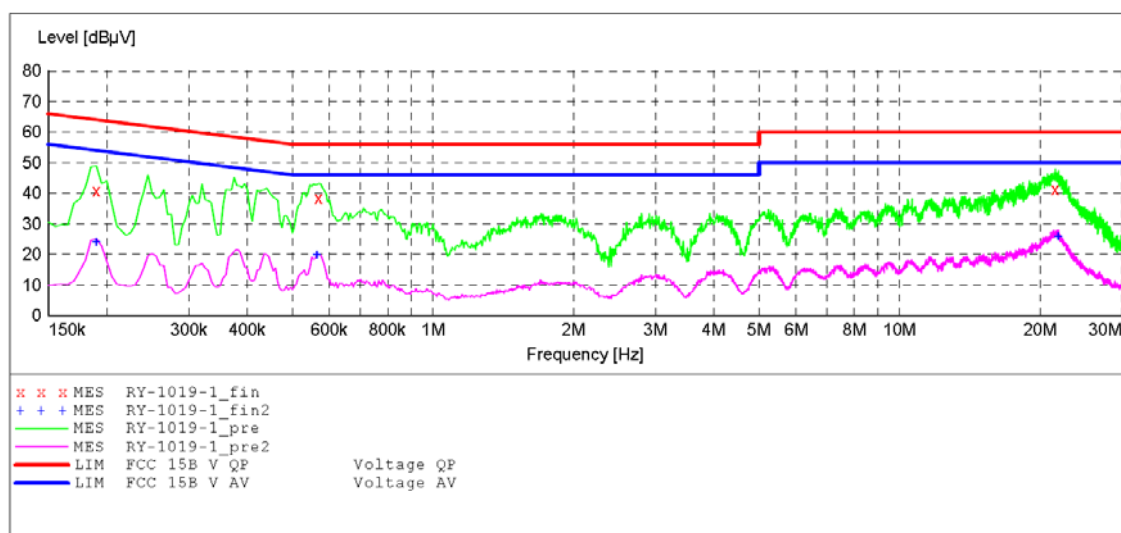
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Dog Trainer M/N:GDG4-1
 Manufacturer: Ho Lee Co.,LTD
 Operating Condition: ON
 Test Site: 1#Shielding Room
 Operator: Ricky
 Test Specification: N 120V/60Hz
 Comment: Report NO.:ATE20152132
 Start of Test: 10/19/2015 / 8:40:24AM

SCAN TABLE: "V 9K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008
 Average
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average



MEASUREMENT RESULT: "RY-1019-1_fin"

10/19/2015 8:44AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.190000 | 40.70 | 10.5 | 64 | 23.3 | QP | N | GND |
| 0.570000 | 38.40 | 10.7 | 56 | 17.6 | QP | N | GND |
| 21.580000 | 41.40 | 11.4 | 60 | 18.6 | QP | N | GND |

MEASUREMENT RESULT: "RY-1019-1_fin2"

10/19/2015 8:44AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.190000 | 24.00 | 10.5 | 54 | 30.0 | AV | N | GND |
| 0.565000 | 19.80 | 10.7 | 46 | 26.2 | AV | N | GND |
| 21.925000 | 25.70 | 11.4 | 50 | 24.3 | AV | N | GND |

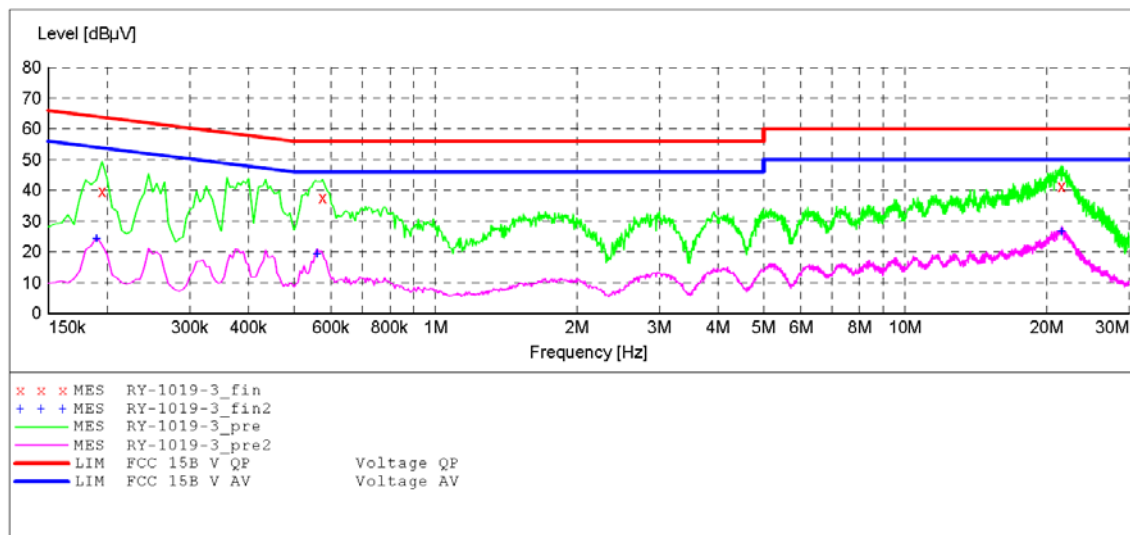
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Dog Trainer M/N:GDG4-1
Manufacturer: Ho Lee Co.,LTD
Operating Condition: ON
Test Site: 1#Shielding Room
Operator: Ricky
Test Specification: L 230V/50Hz
Comment: Report NO.:ATE20152132
Start of Test: 10/19/2015 / 8:50:08AM

SCAN TABLE: "V 9K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
Start Stop Step Detector Meas. IF Transducer
Frequency Frequency Width Time Bandw.
9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008
Average
150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
Average



MEASUREMENT RESULT: "RY-1019-3_fin"

10/19/2015 8:53AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.195000 | 39.80 | 10.5 | 64 | 24.0 | QP | L1 | GND |
| 0.575000 | 37.60 | 10.7 | 56 | 18.4 | QP | L1 | GND |
| 21.520000 | 41.30 | 11.4 | 60 | 18.7 | QP | L1 | GND |

MEASUREMENT RESULT: "RY-1019-3_fin2"

10/19/2015 8:53AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.190000 | 24.20 | 10.5 | 54 | 29.8 | AV | L1 | GND |
| 0.560000 | 19.30 | 10.7 | 46 | 26.7 | AV | L1 | GND |
| 21.565000 | 26.50 | 11.4 | 50 | 23.5 | AV | L1 | GND |

ACCURATE TECHNOLOGY CO., LTD

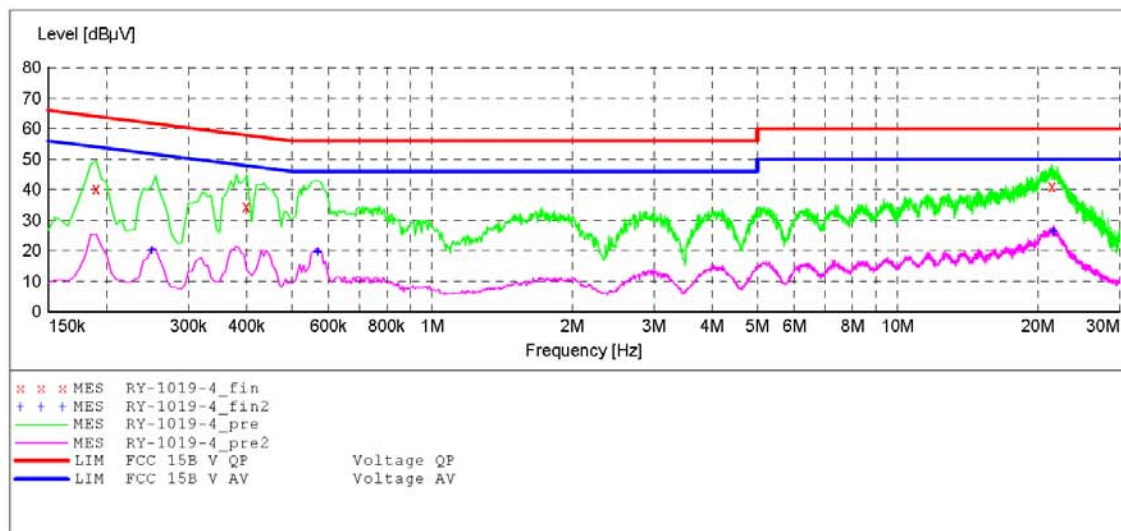
CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Dog Trainer M/N:GDG4-1
Manufacturer: Ho Lee Co., LTD
Operating Condition: ON
Test Site: 1#Shielding Room
Operator: Ricky
Test Specification: N 230V/50Hz
Comment: Report NO.:ATE20152132
Start of Test: 10/19/2015 / 8:54:47AM

SCAN TABLE: "V 9K-30MHz fin"

Short Description: SUB STD VTERM2 1.70

| Start Frequency | Stop Frequency | Step Width | Detector | Meas. Time | IF Bandw. | Transducer |
|-----------------|----------------|------------|-----------|------------|-----------|---------------|
| 9.0 kHz | 150.0 kHz | 100.0 Hz | QuasiPeak | 1.0 s | 200 Hz | NSLK8126 2008 |
| 150.0 kHz | 30.0 MHz | 5.0 kHz | Average | | | |
| 150.0 kHz | 30.0 MHz | 5.0 kHz | QuasiPeak | 1.0 s | 9 kHz | NSLK8126 2008 |
| | | | Average | | | |



MEASUREMENT RESULT: "RY-1019-4_fin"

10/19/2015 8:58AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.190000 | 40.30 | 10.5 | 64 | 23.7 | QP | N | GND |
| 0.400000 | 34.60 | 10.7 | 58 | 23.3 | QP | N | GND |
| 21.475000 | 41.10 | 11.4 | 60 | 18.9 | QP | N | GND |

MEASUREMENT RESULT: "RY-1019-4_fin2"

10/19/2015 8:58AM

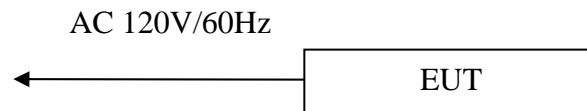
| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.250000 | 20.10 | 10.6 | 52 | 31.7 | AV | N | GND |
| 0.570000 | 19.40 | 10.7 | 46 | 26.6 | AV | N | GND |
| 21.655000 | 26.20 | 11.4 | 50 | 23.8 | AV | N | GND |

5. RADIATED EMISSION MEASUREMENT

5.1. Block Diagram of Test Setup

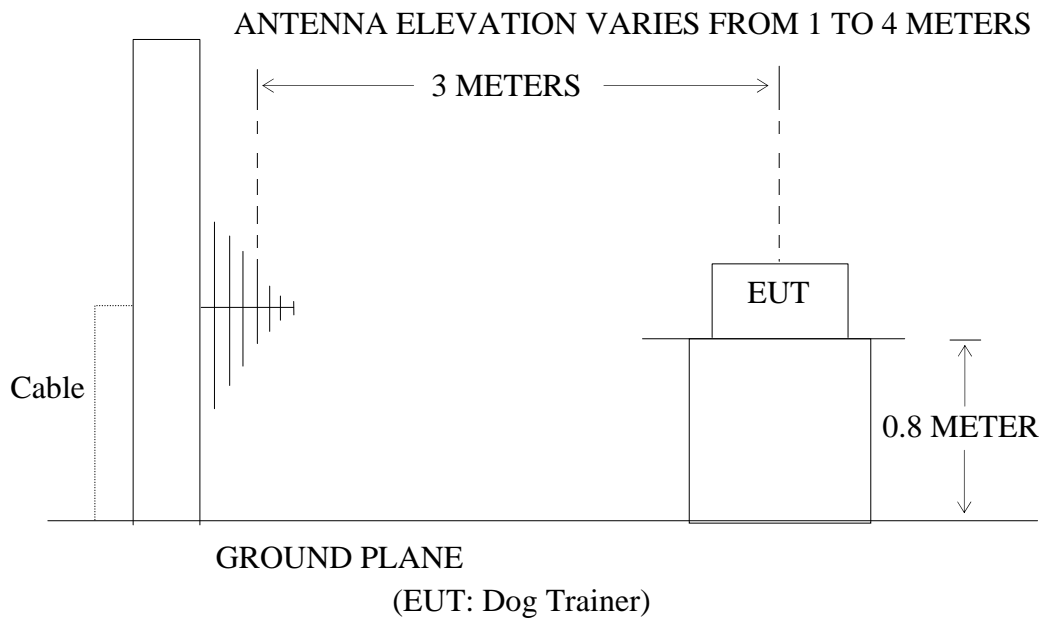
5.1.1. Block diagram of connection between the EUT and simulators

5.1.1.1 For ON



(EUT: Dog Trainer)

5.1.2. Semi-Anechoic Chamber Test Setup Diagram



5.2.The Emission Limit For Section 15.109 (a)

5.2.1.Radiation Emission Measurement Limits According to Section 15.109 (a).

| Frequency MHz | Distance Meters | Field Strengths Limit | |
|---|--------------------|-----------------------|----------------------------|
| | | $\mu\text{V/m}$ | $\text{dB}(\mu\text{V/m})$ |
| 30-88 | 3 | 100 | 40.0 |
| 88-216 | 3 | 150 | 43.5 |
| 216-960 | 3 | 200 | 46.0 |
| 960-1000 | 3 | 500 | 54.0 |
| Remark: (1) Emission level $\text{dB}(\mu\text{V}) = 20 \log$ Emission level $\mu\text{V/m}$. (2)The smaller limit shall apply at the cross point between two frequency bands. (3)Distance is the distance in meters between the measuring instrument antenna and the closest point of any part of the device or system. | | | |

5.3.EUT Configuration on Measurement

The following equipment is installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

5.3.1.Dog Trainer (EUT)

Model Number: GDG4-1

Serial Number: N/A

Manufacturer: Ho Lee Co., Ltd.

5.4.Operating Condition of EUT

5.4.1.Setup the EUT and simulator as shown as Section 4.2.

5.4.2.Turn on the power of all equipment.

5.4.3.Let the EUT work in test mode (ON) and measure it.

5.5. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2014 on radiated emission measurement.

The bandwidth of the EMI test receiver (R&S ESCS30) is set at 120kHz from 30MHz to 2000MHz.

The frequency range from 30MHz to 2000MHz is checked.

5.6. Radiated Emission Noise Measurement Result

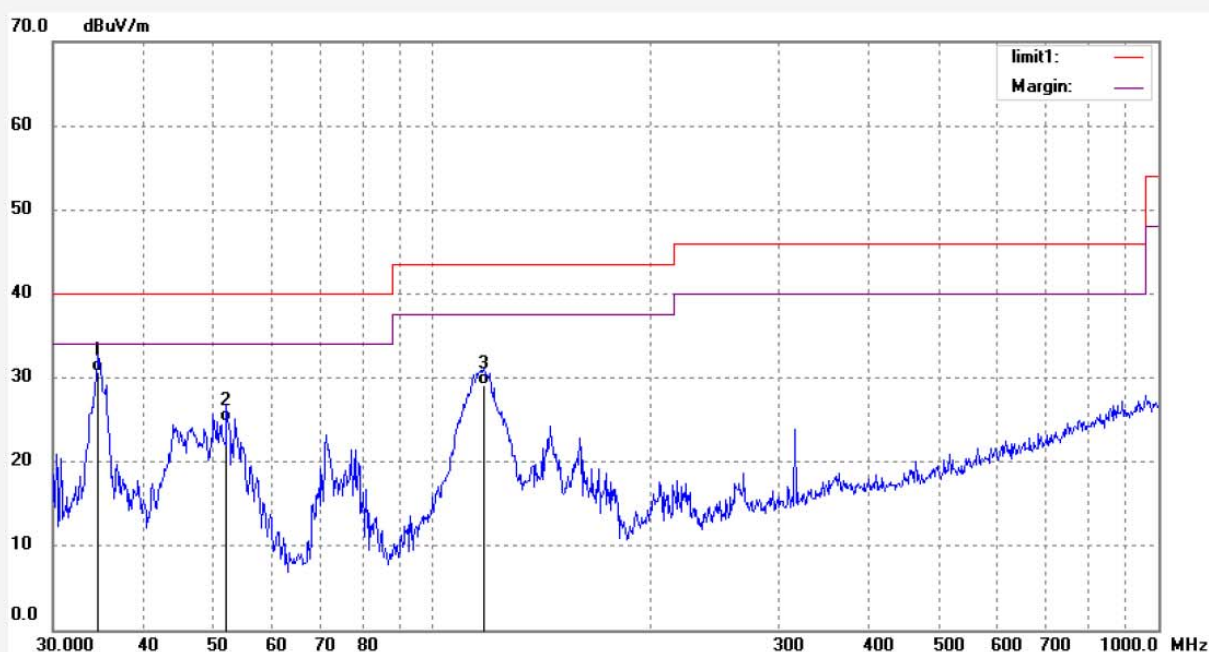
PASS.

| | | | | | | | | |
|----------------------|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|
| Model Number: GDG4-1 | | | | | | | | |
| Test mode: ON | | | | | | | | |
| Horizontal | No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| | 1 | 34.6485 | 48.22 | -17.45 | 30.77 | 40.00 | -9.23 | QP |
| | 2 | 52.0826 | 45.64 | -20.80 | 24.84 | 40.00 | -15.16 | QP |
| | 3 | 117.6815 | 51.53 | -22.45 | 29.08 | 43.50 | -14.42 | QP |
| Vertical | No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| | 1 | 34.4059 | 53.00 | -17.42 | 35.58 | 40.00 | -4.42 | QP |
| | 2 | 46.8721 | 54.85 | -19.88 | 34.97 | 40.00 | -5.03 | QP |
| | 3 | 72.4653 | 50.22 | -21.49 | 28.73 | 40.00 | -11.27 | QP |

Job No.: RICKY2015 #8
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Dog Trainer
Mode: ON
Model: GDG4-1
Manufacturer: Ho Lee Co.,LTD

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2015/10/13
Time: 15:18:33
Engineer Signature: Ricky
Distance: 3m

Note: Report NO.:ATE20152132



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 34.6485 | 48.22 | -17.45 | 30.77 | 40.00 | -9.23 | QP | | | |
| 2 | 52.0826 | 45.64 | -20.80 | 24.84 | 40.00 | -15.16 | QP | | | |
| 3 | 117.6815 | 51.53 | -22.45 | 29.08 | 43.50 | -14.42 | QP | | | |



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

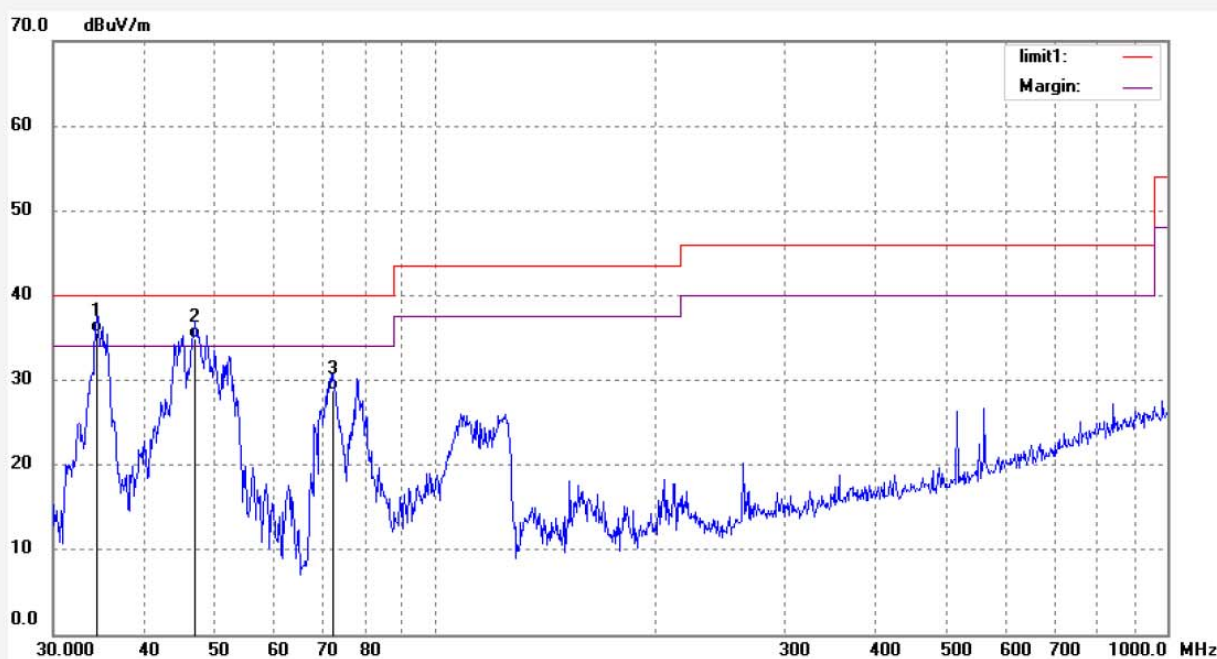
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: RICKY2015 #7
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Dog Trainer
Mode: ON
Model: GDG4-1
Manufacturer: Ho Lee Co.,LTD

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2015/10/13
Time: 15:14:59
Engineer Signature: Ricky
Distance: 3m

Note: Report NO.:ATE20152132



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 34.4059 | 53.00 | -17.42 | 35.58 | 40.00 | -4.42 | QP | | | |
| 2 | 46.8721 | 54.85 | -19.88 | 34.97 | 40.00 | -5.03 | QP | | | |
| 3 | 72.4653 | 50.22 | -21.49 | 28.73 | 40.00 | -11.27 | QP | | | |



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

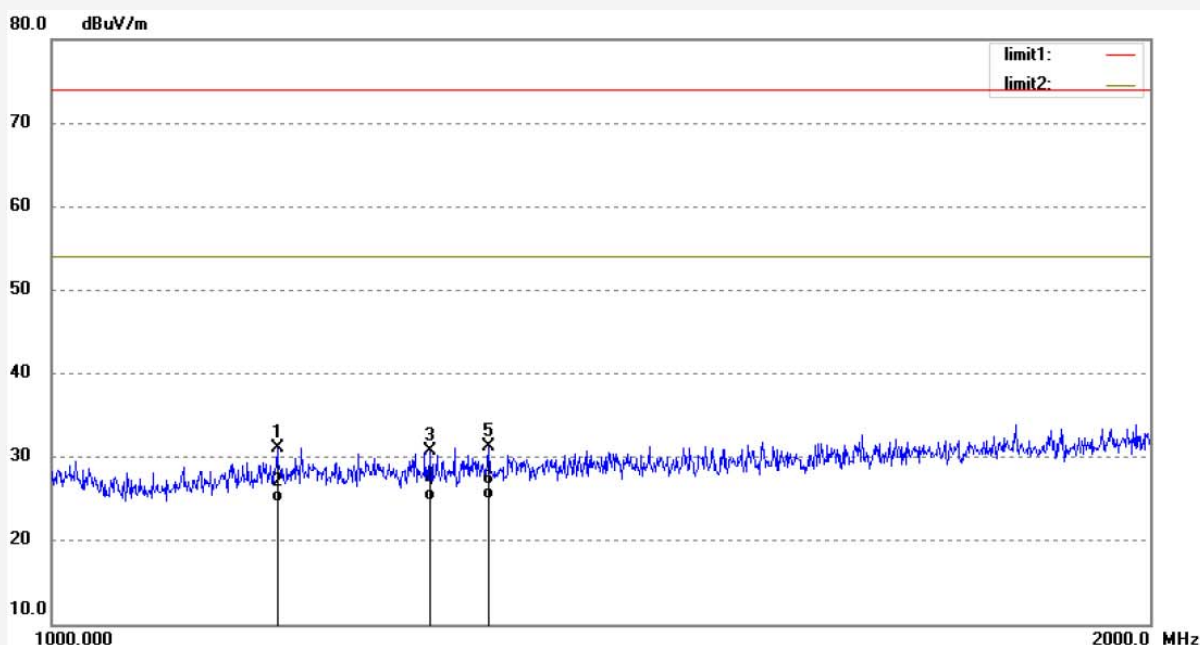
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: RICKY2015 #11
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Dog Trainer
Mode: ON
Model: GDG4-1
Manufacturer: Ho Lee Co.,LTD

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/11/20/
Time: 9/48/46
Engineer Signature: Ricky
Distance: 3m

Note: Report NO.:ATE20152132



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
| 1 | 1153.015 | 43.77 | -12.62 | 31.15 | 74.00 | -42.85 | peak | | | |
| 2 | 1153.015 | 37.31 | -12.62 | 24.69 | 54.00 | -29.31 | AVG | | | |
| 3 | 1269.878 | 43.00 | -12.34 | 30.66 | 74.00 | -43.34 | peak | | | |
| 4 | 1269.878 | 37.11 | -12.34 | 24.77 | 54.00 | -29.23 | AVG | | | |
| 5 | 1317.493 | 43.42 | -12.22 | 31.20 | 74.00 | -42.80 | peak | | | |
| 6 | 1317.493 | 37.12 | -12.22 | 24.90 | 54.00 | -29.10 | AVG | | | |



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

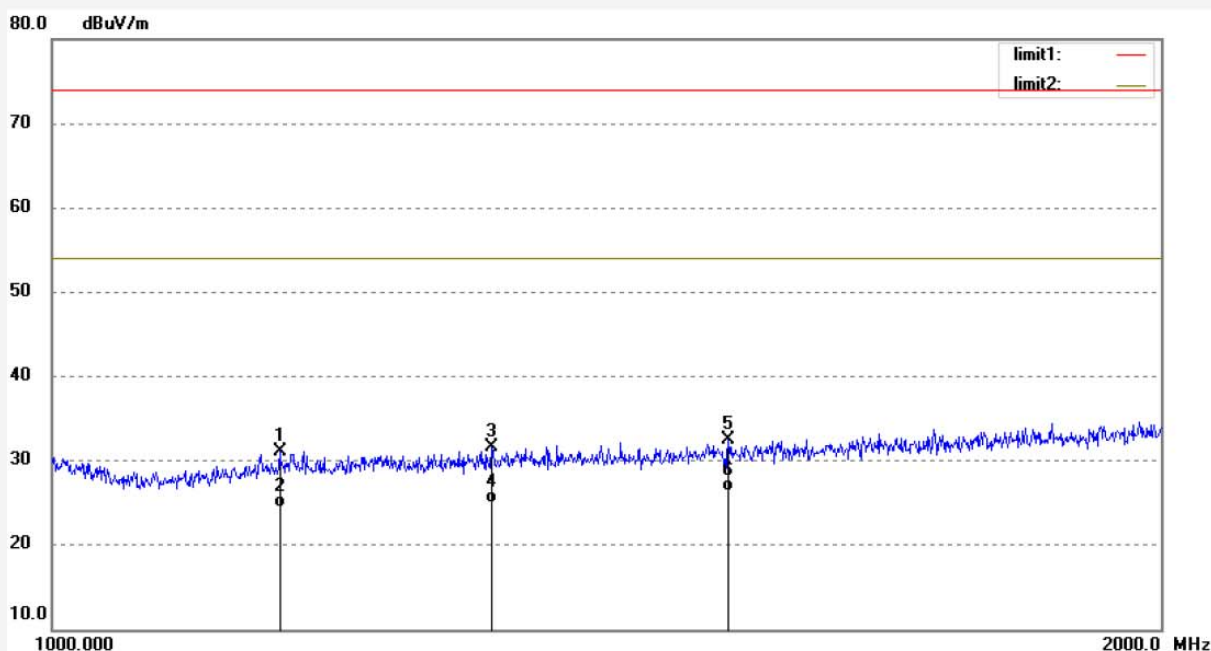
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: RICKY2015 #12
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Dog Trainer
Mode: ON
Model: GDG4-1
Manufacturer: Ho Lee Co.,LTD

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 15/11/20/
Time: 9/50/52
Engineer Signature: Ricky
Distance: 3m

Note: Report NO.:ATE20152132



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 1153.015 | 43.77 | -12.62 | 31.15 | 74.00 | -42.85 | peak | | | |
| 2 | 1153.015 | 37.14 | -12.62 | 24.52 | 54.00 | -29.48 | AVG | | | |
| 3 | 1316.579 | 43.87 | -12.22 | 31.65 | 74.00 | -42.35 | peak | | | |
| 4 | 1316.579 | 37.22 | -12.22 | 25.00 | 54.00 | -29.00 | AVG | | | |
| 5 | 1526.492 | 43.77 | -11.21 | 32.56 | 74.00 | -41.44 | peak | | | |
| 6 | 1526.492 | 37.51 | -11.21 | 26.30 | 54.00 | -27.70 | AVG | | | |