

FCC Part 15B Test Report

Report No.: BCTC-LH170803399-1E

FCC ID: 2ANHIRX-P10

| Product Name: | Dog Training Collar |
|------------------|--|
| Trademark: | N/A |
| Model Name : | RX-P10 RX-P09, RX-P11, RX-P12, RX-P13, RX-P15, RX-P16, RX-P17, RX-P18 |
| Prepared For : | Shenzhen Smart Pet Technology Co., Ltd |
| Address : | 304 A Blog, ZhongCheng Industry Park, Longhua, Shenzhen, China |
| Prepared By : | Shenzhen BCTC Technology Co., Ltd. |
| Address : | No.101, Yousong Road, Longhua New District, Shenzhen, China |
| Test Date: | Jul. 01 – Jul. 07, 2017 |
| Date of Report : | Jul. 07, 2017 |
| Report No.: | BCTC-LH170803399-1E |



TEST RESULT CERTIFICATION

Applicant's name.....: Shenzhen Smart Pet Technology Co., Ltd

Address: 304 A Blog, ZhongCheng Industry Park, Longhua, Shenzhen,

China

Manufacture's Name.....: Shenzhen Smart Pet Technology Co., Ltd

Address: 304 A Blog, ZhongCheng Industry Park, Longhua, Shenzhen,

China

Product description

Product name...... Dog Training Collar

RX-P09, RX-P11, RX-P12, RX-P13, RX-P15, RX-P16,

Inow Leng

Report No.: BCTC-LH170803399-1E

RX-P17, RX-P18

Standards.....: FCC Part15B

ANSI C63.4-2014

This device described above has been tested by BCTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Prepared by(Engineer): Snow Zeng

Reviewer(Supervisor): Jade Yang

Approved(Manager): Carson Zhang



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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

| FCC Part15 | | | | | | |
|---------------------|-------------------------------|------|--|--|--|--|
| Standard Section | lest Item ludament Remark | | | | | |
| Part 15.107 | Conducted Emission | PASS | | | | |
| Part 15.109 | Radiated Spurious Emission | PASS | | | | |

Report No.: BCTC-LH170803399-1E

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

1.1 TEST FACILITY

Shenzhen BCTC Technology Co., Ltd.

Add.: No.101, Yousong Road, Longhua New District, Shenzhen, China

FCC Registered No.: 187086

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately 95 % $^{\circ}$

| No. | Item | Uncertainty |
|-----|------------------------------|-------------|
| 1 | Conducted Emission Test | ±1.38dB |
| 2 | RF power,conducted | ±0.16dB |
| 3 | Spurious emissions,conducted | ±0.21dB |
| 4 | All emissions,radiated(<1G) | ±4.68dB |
| 5 | All emissions,radiated(>1G) | ±4.89dB |
| 6 | Temperature | ±0.5°C |
| 7 | Humidity | ±2% |



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

| Equipment | Dog Training Collar | | |
|------------------------|---|--|--|
| Trade Name | N/A | | |
| Model Name | RX-P10 RX-P09, RX-P11, RX-P12, RX-P13, RX-P15, RX-P16, RX-P17, RX-P18 | | |
| Model Difference | The product's different for model name and outlook color. | | |
| Product Description | The EUT is a Dog Training Collar Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual. | | |
| Power | DC 5V from adapter | | |
| rowei | DC 3.7V | | |
| Adapter | | | |
| hardware version | | | |
| Software version | | | |
| Serial number | | | |
| Connecting I/O Port(s) | Please refer to the User's Manual | | |
| Max Operation | 433.92MHz | | |
| Frequency | 433.9ZIVII 1Z | | |

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Pretest Mode | Description |
|--------------|-------------|
| Mode 1 | RX Mode |

| For Radiated Emission | | | | |
|-----------------------------|---------|--|--|--|
| Final Test Mode Description | | | | |
| Mode 1 | RX Mode | | | |

Note:

(1) The measurements are performed at the highest, middle, lowest available channels.

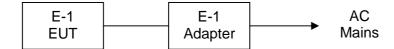


2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Emission Test

E-1 EUT

Conducted Emission Test



2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Note |
|------|------------------------------|-----------|----------------|------------|---|
| E-1 | Dog Training Collar | N/A | RX-P10 | N/A | EUT |
| E-2 | Adapter(Provide by test lab) | N/A | BC050050 | N/A | I/P:AC 100-240V 50/60Hz O/P:DC 5V/0.5A |
| | | | | | |
| | | | | | |
| | | | | | |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|---------|
| C1 | No | No | 0.8m | DC Line |
| | | | | |
| | | | | |
| | | | | |

Note:

(1) For detachable type I/O cable should be specified the length in cm in <code>[Length]</code> column.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until |
|------|-----------------------|-----------------|--------------------------|-------------------|------------------|------------------|
| 1 | Spectrum Analyzer | Agilent | E4407B | MY45109572 | 2016.08.27 | 2017.08.26 |
| 2 | Test Receiver | R&S | ESPI | 101396 | 2016.08.27 | 2017.08.26 |
| 3 | Bilog Antenna | SCHWARZBE CK | VULB9160 | VULB9160-3 369 | 2016.08.27 | 2017.08.26 |
| 4 | 50Ω Coaxial Switch | Anritsu | MP59B | 6200264416 | 2016.08.27 | 2017.08.26 |
| 5 | Spectrum Analyzer | Agilent | N9020A | MY5051041 | 2016.08.27 | 2017.08.26 |
| 6 | Horn Antenna | SCHWARZBE CK | 9120D | 9120D-1275 | 2016.08.29 | 2017.08.28 |
| 7 | Horn Ant | Schwarzbeck | BBHA 9170 | 9170-181 | 2016.08.29 | 2017.08.28 |
| 8 | Amplifier | SCHWARZBE CK | BBV9718 | 9718-270 | 2016.08.29 | 2017.08.28 |
| 9 | Amplifier | SCHWARZBE CK | BBV9743 | 9743-119 | 2016.08.29 | 2017.08.28 |
| 10 | Loop Antenna | ARA | PLRX-P10MI -BTH0730/B | 1029 | 2016.07.06 | 2017.07.05 |
| 11 | Power Meter | R&S | NRVS | 100696 | 2016.08.27 | 2017.08.26 |
| 12 | Power Sensor | R&S | URV5-Z4 | 0395.1619.0 5 | 2016.08.27 | 2017.08.26 |
| 13 | RF cables | R&S | N/A | N/A | 2016.08.27 | 2017.08.26 |
| 14 | 966 chamber | ChengYu | 966 Room | 966 | 2016.08.27 | 2017.08.26 |

Conduction Test equipment

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until |
|------|-----------------------|--------------|--------------|----------------------------|------------------|------------------|
| 1 | Test Receiver | R&S | ESCI | 1166.5950K03- 101165-ha | 2016.08.27 | 2017.08.26 |
| 2 | LISN | R&S | NSLK81 26 | 8126466 | 2016.08.27 | 2017.08.26 |
| 3 | LISN | R&S | NSLK81 26 | 8126487 | 2016.08.27 | 2017.08.26 |
| 4 | 50Ω Coaxial Switch | Anritsu | MP59B | 6200264417 | 2016.08.27 | 2017.08.26 |
| 5 | RF cables | R&S | R204 | R20X | 2016.08.27 | 2017.08.26 |



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

Report No.: BCTC-LH170803399-1E

| | Class B (| Ctondord | |
|-----------------|------------|-----------|----------|
| FREQUENCY (MHz) | Quasi-peak | Average | Standard |
| 0.15 -0.5 | 66 - 56 * | 56 - 46 * | FCC |
| 0.50 -5.0 | 56.00 | 46.00 | FCC |
| 5.0 -30.0 | 60.00 | 50.00 | FCC |

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

| Receiver Parameters | Setting |
|---------------------|----------|
| Attenuation | 10 dB |
| Start Frequency | 0.15 MHz |
| Stop Frequency | 30 MHz |
| IF Bandwidth | 9 kHz |

3.1.2 TEST PROCEDURE

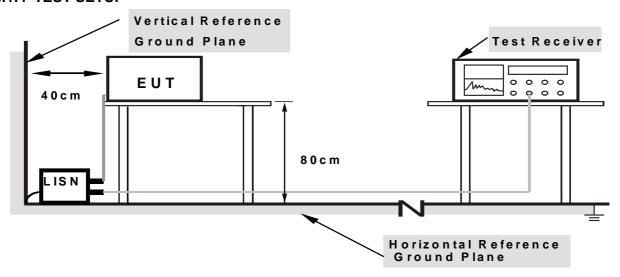
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation



3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

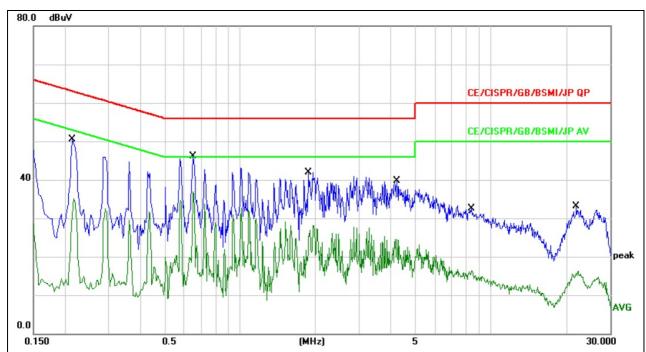
3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

3.1.6 TEST RESULTS



| Temperature: | 25 ℃ | Relative Humidity: | 54% |
|----------------|--------------|--------------------|--------|
| Pressure: | 1010hPa | Phase : | L |
| Test Voltage : | AC 120V/60Hz | Test Mode: | Mode 4 |



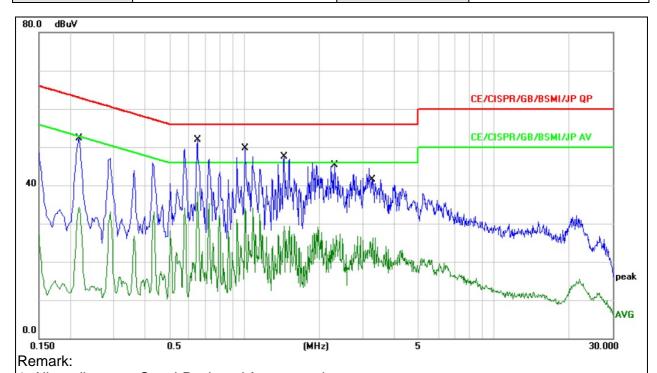
Remark:

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.

| No. Mk | . Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|--------|---------|------------------|-------------------|------------------|------------------|------------------------|-------------------------------|-----------------------------------|
| | MHz | dBuV | dB | dBuV | dBu∨ | dB | Detector | Comment |
| 1 | 0.2140 | 40.39 | 10.07 | 50.46 | 63.04 | -12.58 | QP | |
| 2 | 0.2140 | 25.06 | 10.07 | 35.13 | 53.04 | -17.91 | AVG | |
| 3 | 0.6540 | 35.97 | 10.13 | 46.10 | 56.00 | -9.90 | QP | |
| 4 * | 0.6540 | 26.68 | 10.13 | 36.81 | 46.00 | -9.19 | AVG | |
| 5 | 1.8860 | 31.66 | 10.18 | 41.84 | 56.00 | -14.16 | QP | |
| 6 | 1.8860 | 18.01 | 10.18 | 28.19 | 46.00 | -17.81 | AVG | |
| 7 | 4.2300 | 29.52 | 10.16 | 39.68 | 56.00 | -16.32 | QP | |
| 8 | 4.2300 | 14.43 | 10.16 | 24.59 | 46.00 | -21.41 | AVG | |
| 9 | 8.4100 | 22.47 | 10.11 | 32.58 | 60.00 | -27.42 | QP | |
| 10 | 8.4100 | 6.27 | 10.11 | 16.38 | 50.00 | -33.62 | AVG | |
| 11 | 21.9580 | 22.86 | 10.18 | 33.04 | 60.00 | -26.96 | QP | |
| 12 | 21.9580 | 6.10 | 10.18 | 16.28 | 50.00 | -33.72 | AVG | |
| 12 | 21.9580 | 6 | 5.10 | 5.10 10.18 | 5.10 10.18 16.28 | 5.10 10.18 16.28 50.00 | 5.10 10.18 16.28 50.00 -33.72 | 5.10 10.18 16.28 50.00 -33.72 AVG |



| Temperature : | 25 ℃ | Relative Humidity: | 54% |
|----------------|--------------|--------------------|--------|
| Pressure : | 1010hPa | Phase : | N |
| Test Voltage : | AC 120V/60Hz | Test Mode: | Mode 4 |



- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.

| | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|-----|--------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV | dBu∀ | dB | Detector | Comment |
| 0 | 0.2180 | 42.29 | 10.07 | 52.36 | 62.89 | -10.53 | QP | |
| 0 | 0.2180 | 24.24 | 10.07 | 34.31 | 52.89 | -18.58 | AVG | |
| * 0 | 0.6500 | 41.82 | 10.13 | 51.95 | 56.00 | -4.05 | QP | |
| 0 | 0.6500 | 28.13 | 10.13 | 38.26 | 46.00 | -7.74 | AVG | |
| 1 | 1.0100 | 39.48 | 10.17 | 49.65 | 56.00 | -6.35 | QP | |
| 1 | 1.0100 | 23.87 | 10.17 | 34.04 | 46.00 | -11.96 | AVG | |
| 1 | 1.4460 | 37.26 | 10.17 | 47.43 | 56.00 | -8.57 | QP | |
| 1 | 1.4460 | 19.16 | 10.17 | 29.33 | 46.00 | -16.67 | AVG | |
| 2 | 2.3060 | 35.08 | 10.18 | 45.26 | 56.00 | -10.74 | QP | |
| 2 | 2.3060 | 17.08 | 10.18 | 27.26 | 46.00 | -18.74 | AVG | |
| 3 | 3.2820 | 31.38 | 10.18 | 41.56 | 56.00 | -14.44 | QP | |
| 3 | 3.2820 | 16.16 | 10.18 | 26.34 | 46.00 | -19.66 | AVG | |
| | | | | | | | | · |



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

1. In case the emission fall within the restricted band specified on 15.205(a), then the 15.109(a) limit in the table below has to be followed.

Report No.: BCTC-LH170803399-1E

| Frequencies | Field Strength | Measurement Distance |
|-------------|--------------------|----------------------|
| (MHz) | (micorvolts/meter) | (meters) |
| 0.009~0.490 | 2400/F(KHz) | 300 |
| 0.490~1.705 | 24000/F(KHz) | 30 |
| 1.705~30.0 | 30 | 30 |
| 30~88 | 100 | 3 |
| 88~216 | 150 | 3 |
| 216~960 | 200 | 3 |
| Above 960 | 500 | 3 |

| Receiver Parameter | Setting | | |
|------------------------|----------------------------------|--|--|
| Attenuation | Auto | | |
| Start ~ Stop Frequency | 9kHz~150kHz / RB 200Hz for QP | | |
| Start ~ Stop Frequency | 150kHz~30MHz / RB 9kHz for QP | | |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP | | |

3.2.2 TEST PROCEDURE

Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

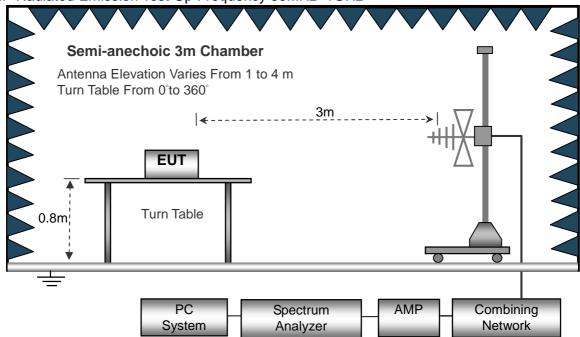
3.2.3 DEVIATION FROM TEST STANDARD

No deviation

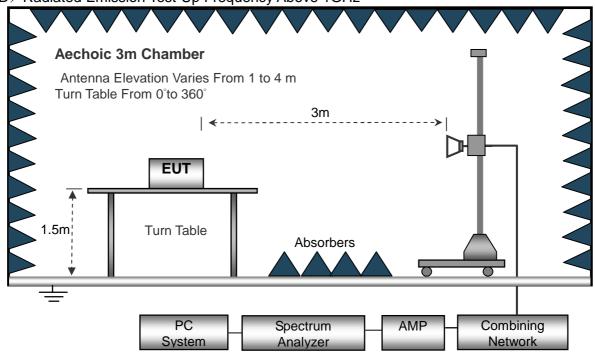


3.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency 30MHz~1GHz



(B) Radiated Emission Test-Up Frequency Above 1GHz



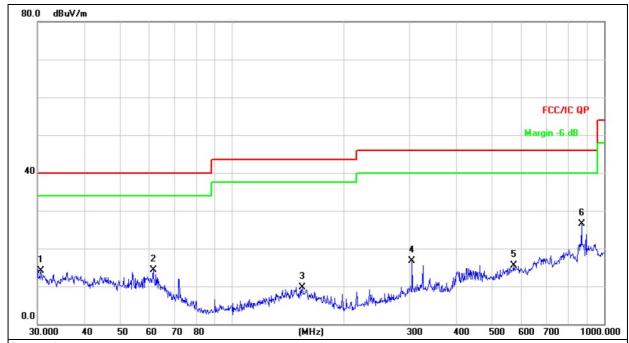
3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



3.2.6 TEST RESULTS (BETWEEN 30MHZ - 1GHZ)

| Temperature : | 26℃ | Relative Humidity: | 54% |
|----------------|----------|--------------------|------------|
| Pressure: | 1010 hPa | Polarization: | Horizontal |
| Test Voltage : | DC 3.7V | | |
| Test Mode : | Mode 1 | | |

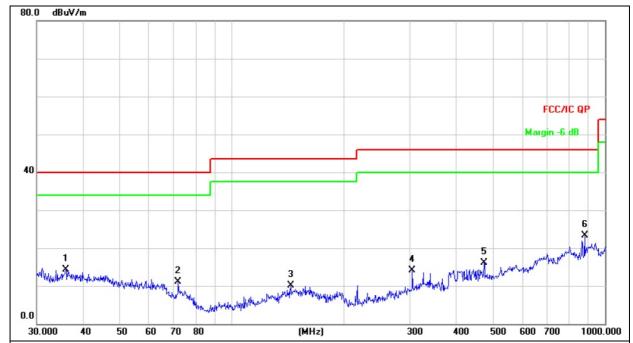


Remark:

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|
| | | MHz | dBu∀ | dB/m | dBuV/m | dBu∀/m | dB | Detector |
| 1 | | 30.6379 | 22.25 | -8.11 | 14.14 | 40.00 | -25.86 | QP |
| 2 | | 61.3463 | 26.06 | -11.78 | 14.28 | 40.00 | -25.72 | QP |
| 3 | | 154.2786 | 22.59 | -12.86 | 9.73 | 43.50 | -33.77 | QP |
| 4 | | 304.6099 | 29.25 | -12.47 | 16.78 | 46.00 | -29.22 | QP |
| 5 | | 570.6100 | 22.06 | -6.54 | 15.52 | 46.00 | -30.48 | QP |
| 6 | * | 869.1302 | 28.61 | -2.05 | 26.56 | 46.00 | -19.44 | QP |



| Temperature : | 26 ℃ | Relative Humidity: | 54% |
|----------------|-------------|--------------------|----------|
| Pressure: | 1010 hPa | Polarization: | Vertical |
| Test Voltage : | DC 3.7V | | |
| Test Mode : | Mode 1 | | |

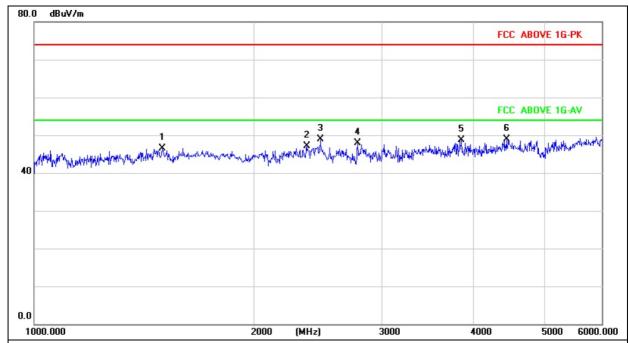


Remark:

| No. | Mk | . Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|-----|----|----------|------------------|-------------------|------------------|--------|--------|----------|
| | | MHz | dBu∀ | dB/m | dBuV/m | dBuV/m | dB | Detector |
| 1 | | 35.8746 | 22.98 | -8.58 | 14.40 | 40.00 | -25.60 | QP |
| 2 | | 71.8320 | 26.36 | -15.19 | 11.17 | 40.00 | -28.83 | QP |
| 3 | | 143.8295 | 23.36 | -13.18 | 10.18 | 43.50 | -33.32 | QP |
| 4 | | 304.6099 | 26.56 | -12.47 | 14.09 | 46.00 | -31.91 | QP |
| 5 | | 473.8347 | 24.63 | -8.56 | 16.07 | 46.00 | -29.93 | QP |
| 6 | * | 881.4067 | 25.04 | -1.68 | 23.36 | 46.00 | -22.64 | QP |



| Temperature: | 26℃ | Relative Humidity: | 54% |
|----------------|----------|--------------------|------------|
| Pressure: | 1010 hPa | Polarization: | Horizontal |
| Test Voltage : | DC 3.7V | | |
| Test Mode : | Mode 1 | | |

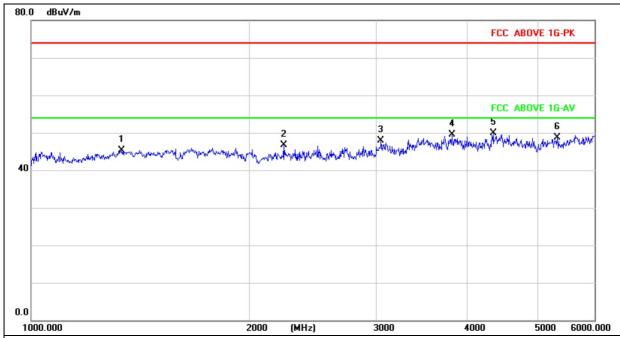


Remark:

| No. | Mk. | . Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|
| | | MHz | dBu∀ | dB/m | dBuV/m | dBuV/m | dB | Detector |
| 1 | | 1499.209 | 38.92 | 7.55 | 46.47 | 74.00 | -27.53 | peak |
| 2 | | 2363.266 | 38.65 | 8.55 | 47.20 | 74.00 | -26.80 | peak |
| 3 | * | 2467.108 | 40.12 | 8.80 | 48.92 | 74.00 | -25.08 | peak |
| 4 | | 2776.810 | 38.38 | 9.57 | 47.95 | 74.00 | -26.05 | peak |
| 5 | | 3854.321 | 35.31 | 13.45 | 48.76 | 74.00 | -25.24 | peak |
| 6 | | 4440.397 | 34.19 | 14.73 | 48.92 | 74.00 | -25.08 | peak |



| Temperature: | 26℃ | Relative Humidity: | 54% |
|----------------|----------|--------------------|----------|
| Pressure: | 1010 hPa | Polarization: | Vertical |
| Test Voltage : | DC 3.7V | | |
| Test Mode : | Mode 1 | | |



Remark:

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|
| | | MHz | dBu∀ | dB/m | dBuV/m | dBu∀/m | dB | Detector |
| 1 | | 1334.389 | 37.80 | 7.52 | 45.32 | 74.00 | -28.68 | peak |
| 2 | | 2231.576 | 38.45 | 8.23 | 46.68 | 74.00 | -27.32 | peak |
| 3 | | 3042.509 | 37.58 | 10.28 | 47.86 | 74.00 | -26.14 | peak |
| 4 | | 3813.107 | 36.30 | 13.30 | 49.60 | 74.00 | -24.40 | peak |
| 5 | * | 4345.943 | 35.24 | 14.57 | 49.81 | 74.00 | -24.19 | peak |
| 6 | | 5330.811 | 32.34 | 16.41 | 48.75 | 74.00 | -25.25 | peak |



4. TEST SEUUP PHOTO

Radiated Measurement Photos













5. EUT PHOTO









******** END OF REPORT *******