

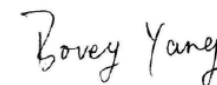
FCC RADIO TEST REPORT

Report Reference No. : NTEK-2011DG0723131E

Compiled by (+ signature) : Jim He



Approved by (+ signature) : Bovey Yang



Applicant's name : Aqua Ventus Ltd.

Address : Unit 514, 5/F, Kenning Industrial Bldg., NO 19 Wang Hoi Road, Kowloon Bay, HK

Manufacture's Name : Aqua Ventus Ltd.

Address : Unit 514, 5/F, Kenning Industrial Bldg., NO 19 Wang Hoi Road, Kowloon Bay, HK

Test specification:

Standard : FCC Part15.249

Test procedure : ANSI C63.4-2003

Test item description

Product name : Wireless Floating Speaker

FCC ID : ZN2SHARK-LFISH-TX

Trademark : N/A

Model and/or type reference : Shark / Lionfish

Rating(s) : DC 5V

Testing Laboratory information:

Testing Laboratory Name : NTEK Testing Technology Co., Ltd

Address : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao ' an District, Shenzhen P.R. China.

This device described above has been tested by NTEK Testing Technology Co., Ltd, 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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Testing :

Date of receipt of test item : 17 Jul. 2011

Date (s) of performance of tests : 18 Jul. 2011 ~23 Jul. 2011

Date of Issue : 25 Jul. 2011

Test Result : **Pass**

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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

| FCC Part15, Subpart C (15.249) | | | |
|--------------------------------|----------------------------|----------|--------|
| Standard Section | Test Item | Judgment | Remark |
| 15.207 | Conducted Emission | Pass | |
| 15.203 | Antenna Requirement | Pass | |
| 15.249 | Radiated Spurious Emission | Pass | |
| 15.249 | Occupied Bandwidth | Pass | |

NOTE:

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

1.1 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

| No. | Item | Uncertainty |
|-----|------------------------------|---------------------|
| 1 | Conducted Emission Test | $\pm 1.38\text{dB}$ |
| 2 | Radiated Emission Test | $\pm 3.17\text{dB}$ |
| 3 | RF power,conducted | $\pm 0.16\text{dB}$ |
| 4 | Spurious emissions,conducted | $\pm 0.21\text{dB}$ |
| 5 | All emissions,radiated(<1G) | $\pm 4.68\text{dB}$ |
| 6 | All emissions,radiated(>1G) | $\pm 4.89\text{dB}$ |

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

| | | |
|------------------------|---|-------------|
| Equipment | Wireless Floating Speaker | |
| Trade Name | N/A | |
| Model Name | Shark / Lionfish | |
| OEM Brand/Model Name | N/A | |
| Model Difference | All the model are identical except the model name | |
| Product Description | The EUT is a Wireless Floating Speaker | |
| | Operation Frequency: | 914~915 MHz |
| | Modulation Type: | GFSK |
| | Antenna Designation: | Printed ANT |
| | Antenna Gain(Peak) | 1.0 dBi |
| Channel List | Please refer to the Note 2. | |
| Power Source | DC Voltage supplied | |
| Power Rating | DC 5V from adapter AC 120V/60Hz | |
| Connecting I/O Port(s) | Please refer to the User's Manual | |
| Products Covered | N/A | |
| EUT Modification(s) | N/A | |

Note:

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

2.

| Channel List | | | | | | | |
|--------------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 01 | 914 | | | | | | |
| 02 | 914.5 | | | | | | |
| 03 | 915 | | | | | | |
| | | | | | | | |
| | | | | | | | |

3.

Table for Filed Antenna

| Ant . | Brand | Model Name | Antenna Type | Connector | Gain (dBi) | NOTE |
|-------|-------|------------|-----------------|-----------|------------|---------|
| 1 | N/A | N/A | Printed Antenna | NA | 1.0 | Antenna |

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly 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 | CH1 |
| Mode 2 | CH2 |
| Mode 3 | CH3 |

| For Conducted Emission | |
|------------------------|-------------|
| Final Test Mode | Description |
| Mode 2 | CH2 |

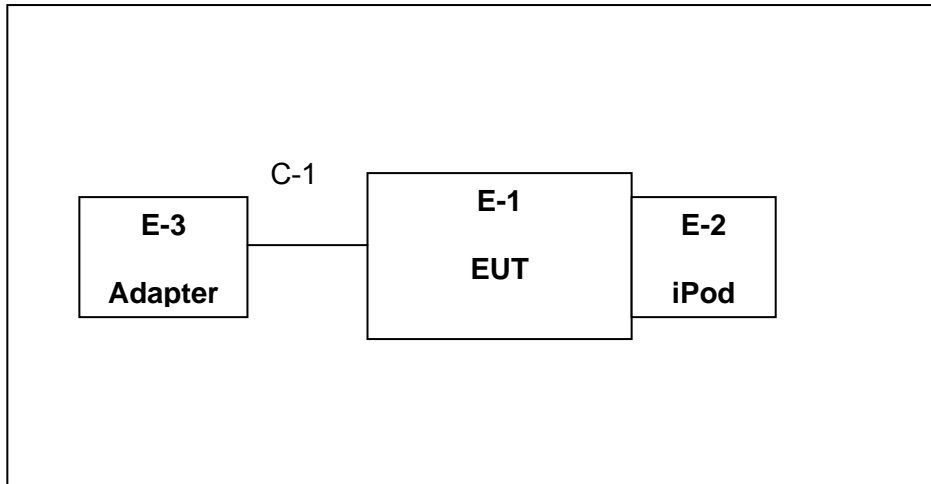
| For Radiated Emission | |
|-----------------------|-------------|
| Final Test Mode | Description |
| Mode 1 | CH1 |
| Mode 2 | CH2 |
| Mode 3 | CH3 |

Note:

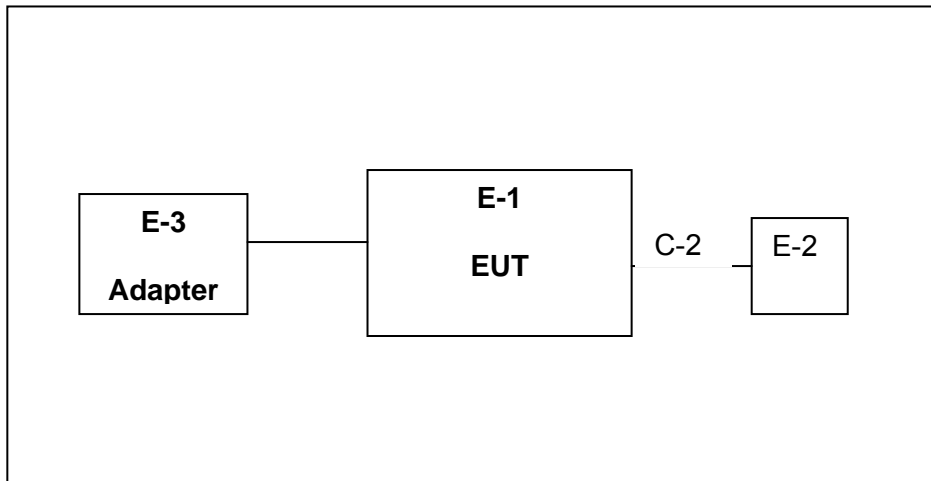
- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The EUT use new battery.

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Ipod input



Aux input



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. | FCC ID | Series No. | Note |
|------|---------------------------|-----------|-----------------|-------------------|------------|------|
| E-1 | Wireless Floating Speaker | N/A | LIONFISH | ZN2SHARK-LFISH-TX | N/A | EUT |
| E-2 | iPod | HP | iPod Touch | VOC | N/A | |
| E-3 | Adapter | N/A | CTR04-050-0500U | VOC | N/A | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|------|
| C-1 | NO | YES | 150 | |
| C-2 | NO | NO | 120 | |
| | | | | |
| | | | | |
| | | | | |

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

2.4.1 EQUIPMENTS LIST FOR ALL TEST ITEMS

2.4.2 CONDUCTED EMISSION

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-----------------------|--------------|----------|------------|------------------|
| 1 | Test Receiver | R&S | ESCI | 101160 | 2012-4-24 |
| 2 | LISN | R&S | ENV216 | 101313 | 2012-4-24 |
| 3 | LISN | Kyoritsu | KNW-407 | 8-1789-3 | 2012-4-24 |
| 4 | 50Ω Coaxial Switch | Anritsu | MP59B | 6200264417 | 2012-4-24 |
| 5 | Passive Voltage Probe | R&S | ESH2-Z3 | 100196 | 2012-4-24 |
| 6 | Absorbing clamp | R&S | MDS-21 | 100423 | 2012-4-24 |

2.4.3 RADIATED EMISSION

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------------|--------------|---------------------|------------|------------------|
| 1 | Spectrum Analyzer | Agilent | E4407B | 160400005 | 2012-4-24 |
| 2 | Test Receiver | R&S | ESPI7 | 101318 | 2012-4-24 |
| 3 | Bilog Antenna | TESEQ | CBL6111D | 31216 | 2012-4-24 |
| 4 | 50Ω Coaxial Switch | Anritsu | MP59B | 6200264416 | 2012-4-24 |
| 5 | Spectrum Analyzer | ADVANTEST | R3182 | 150900201 | 2012-4-24 |
| 6 | Low Noise Pre Amplifier | Tsj | MLA-0120-A 02-34 | 2648A04738 | 2012-4-24 |
| 7 | Broadband Horn Antenna | SCHWARZBECK | BBHA9120D | 451 | 2012-4-24 |
| 8 | Loop Antenna | ARA | PLA-1030/B | 1029 | 2012-3-19 |

3. TEST RESULT

3.1 ANTENNA REQUIREMENT

3.1.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

3.1.2 EUT ANTENNA

The EUT antenna is integral Antenna. It comply with the standard requirement.

3.2 CONDUCTED EMISSION MEASUREMENT

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

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

| | | | | | |
|-----------|--|--|-----------|-----------|--------|
| 0.15 -0.5 | | | 66 - 56 * | 56 - 46 * | LP002. |
| 0.50 -5.0 | | | 56.00 | 46.00 | LP002. |
| 5.0 -30.0 | | | 60.00 | 50.00 | LP002. |

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 |

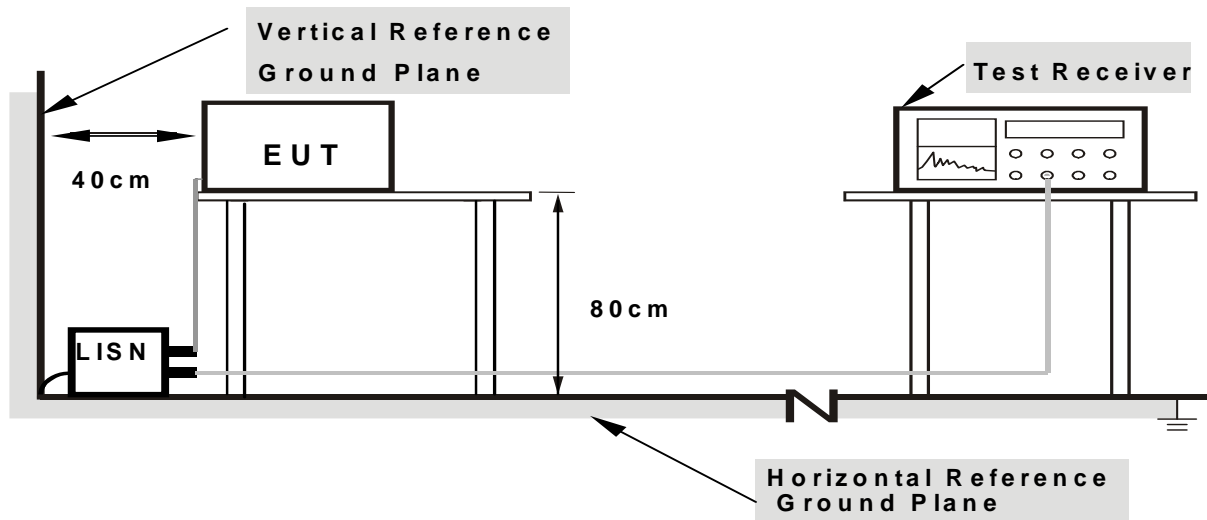
3.2.2 TEST PROCEDURE

- The EUT was placed 0.4 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.
- 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.
- 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.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.2.3 DEVIATION FROM TEST STANDARD

No deviation

3.2.4 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

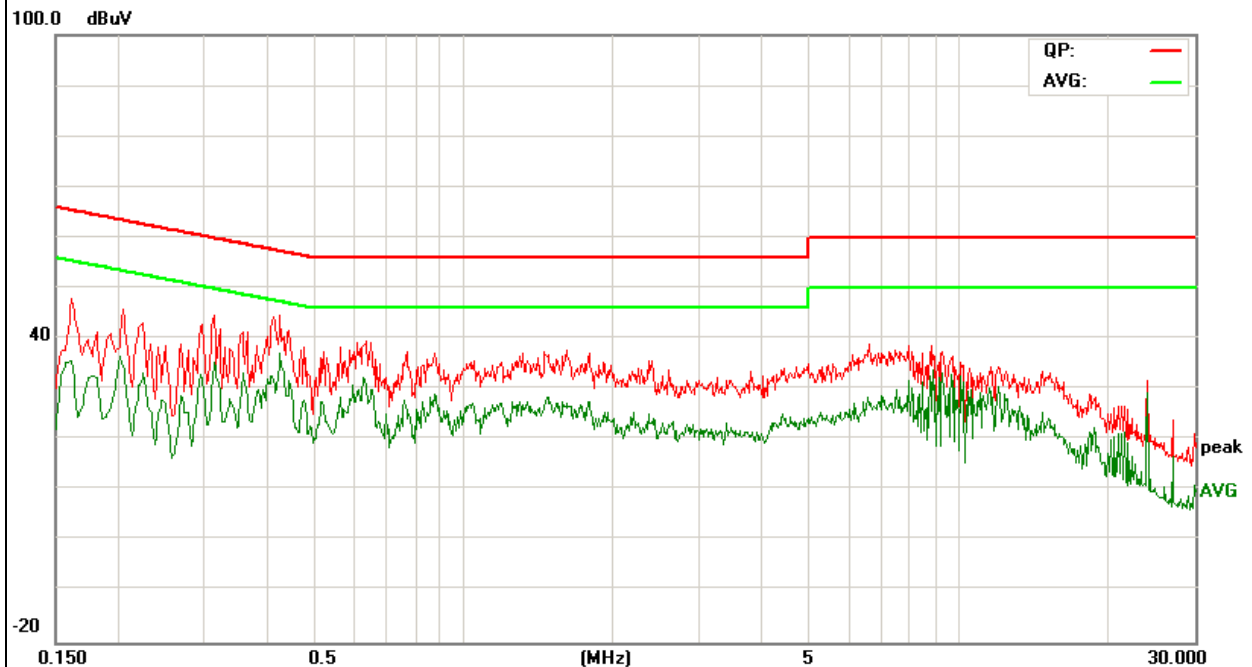
3.2.5 TEST RESULT

| | | | |
|----------------|---------------------------------|---------------------|-----------|
| EUT : | Wireless Floating Speaker | Model Name : | LIONFISH |
| Temperature : | 26 °C | Relative Humidity : | 54% |
| Pressure : | 1010hPa | Test Date : | 2011/7/22 |
| Test Mode : | Running | Phase : | Line |
| Test Voltage : | DC 5V from Adapter AC 120V/60Hz | | |

| Frequency (MHz) | Factor (dB) | Meter Reading (dBμV) | | Emission Level (dBμV) | | Limits (dBμV) | | Margin (dB) | |
|--------------------|----------------|----------------------|---------|-----------------------|---------|---------------|---------|-------------|---------|
| | | QP | Average | QP | Average | QP | Average | QP | Average |
| 0.1620 | 11.68 | 36.19 | 23.95 | 47.87 | 35.63 | 65.36 | 55.36 | -17.49 | -19.73 |
| 0.2060 | 11.10 | 34.90 | 25.51 | 46.00 | 36.61 | 63.37 | 53.53 | -17.37 | -16.92 |
| 0.3140 | 10.71 | 33.97 | 24.55 | 44.68 | 35.26 | 59.86 | 49.86 | -15.18 | -14.60 |
| *0.4260 | 10.49 | 34.10 | 26.61 | 44.59 | 37.10 | 57.33 | 47.33 | -12.74 | -10.23 |
| 0.6380 | 10.28 | 29.35 | 22.10 | 39.63 | 32.38 | 56.00 | 46.00 | -16.37 | -13.62 |
| 8.8220 | 10.26 | 28.43 | 23.53 | 38.69 | 33.79 | 60.00 | 50.00 | -21.31 | -16.21 |

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. '*' means the worst case

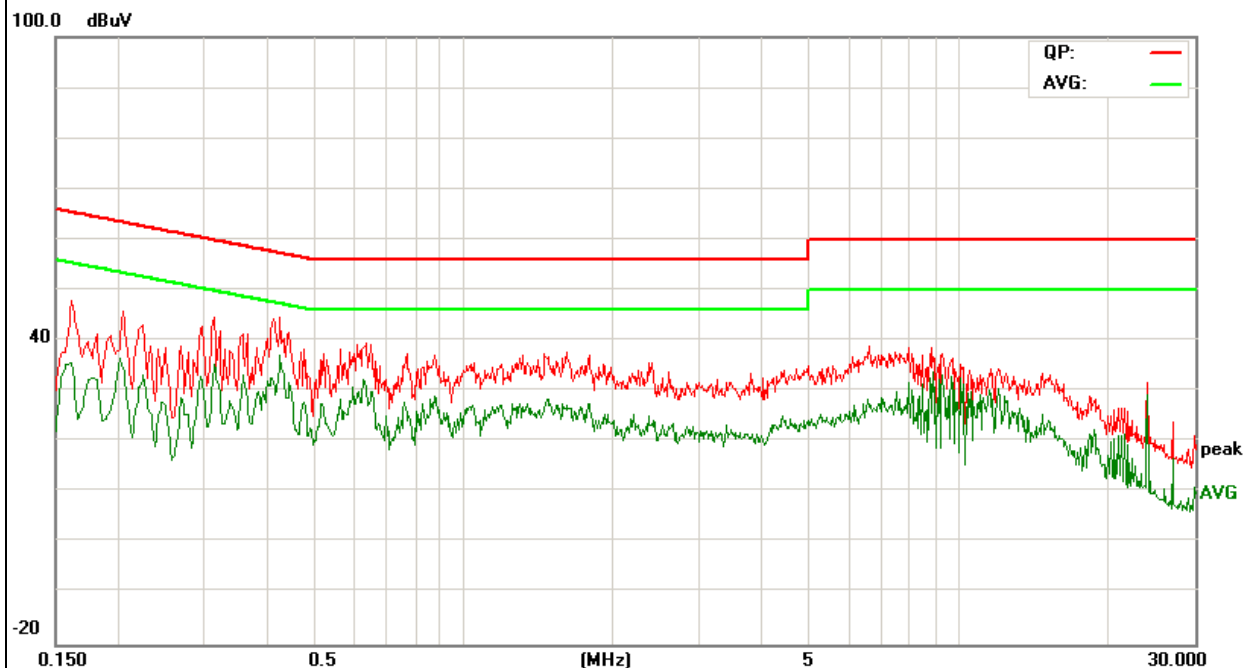


| | | | |
|----------------|---------------------------------|---------------------|-----------|
| EUT : | Wireless Floating Speaker | Model Name : | LIONFISH |
| Temperature : | 26 °C | Relative Humidity : | 54% |
| Pressure : | 1010hPa | Test Date : | 2011/7/22 |
| Test Mode : | Running | Phase : | Neutral |
| Test Voltage : | DC 5V from Adapter AC 120V/60Hz | | |

| Frequency (MHz) | Factor (dB) | Meter Reading (dBμV) | | Emission Level (dBμV) | | Limits (dBμV) | | Margin (dB) | |
|--------------------|----------------|----------------------|---------|-----------------------|---------|---------------|---------|-------------|---------|
| | | QP | Average | QP | Average | QP | Average | QP | Average |
| 0.1620 | 11.68 | 36.19 | 23.95 | 47.87 | 35.63 | 65.36 | 55.36 | -17.49 | -19.73 |
| 0.2060 | 11.10 | 34.90 | 25.51 | 46.00 | 36.61 | 63.37 | 53.53 | -17.37 | -16.92 |
| 0.3140 | 10.71 | 33.97 | 24.55 | 44.68 | 35.26 | 59.86 | 49.86 | -15.18 | -14.60 |
| *0.4260 | 10.49 | 34.10 | 26.61 | 44.59 | 37.10 | 57.33 | 47.33 | -12.74 | -10.23 |
| 0.6380 | 10.28 | 29.35 | 22.10 | 39.63 | 32.38 | 56.00 | 46.00 | -16.37 | -13.62 |
| 8.8220 | 10.26 | 28.43 | 23.53 | 38.69 | 33.79 | 60.00 | 50.00 | -21.31 | -16.21 |

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. '*' means the worst case



3.3 RADIATED EMISSION MEASUREMENT

3.3.1 Radiated Emission Limits (FCC 15.209)

| Frequencies (MHz) | Field Strength (micровolts/meter) | Measurement Distance (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 |

Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.249)

| Frequency of Emission (MHz) | Field Strength of fundamental ((millivolts /meter) | Field Strength of Harmonics (microvolts/meter) |
|--------------------------------|--|--|
| 2400 - 2483.5 | 50 | 500 |

Notes:

- (1) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

| Spectrum Parameter | Setting |
|---------------------------------------|-----------------------|
| Attenuation | Auto |
| Start Frequency | 1000 MHz |
| Stop Frequency | 10th carrier harmonic |
| RB / VB (emission in restricted band) | 1MHz / 1MHz for Peak |

| 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 |

3.3.2 TEST PROCEDURE

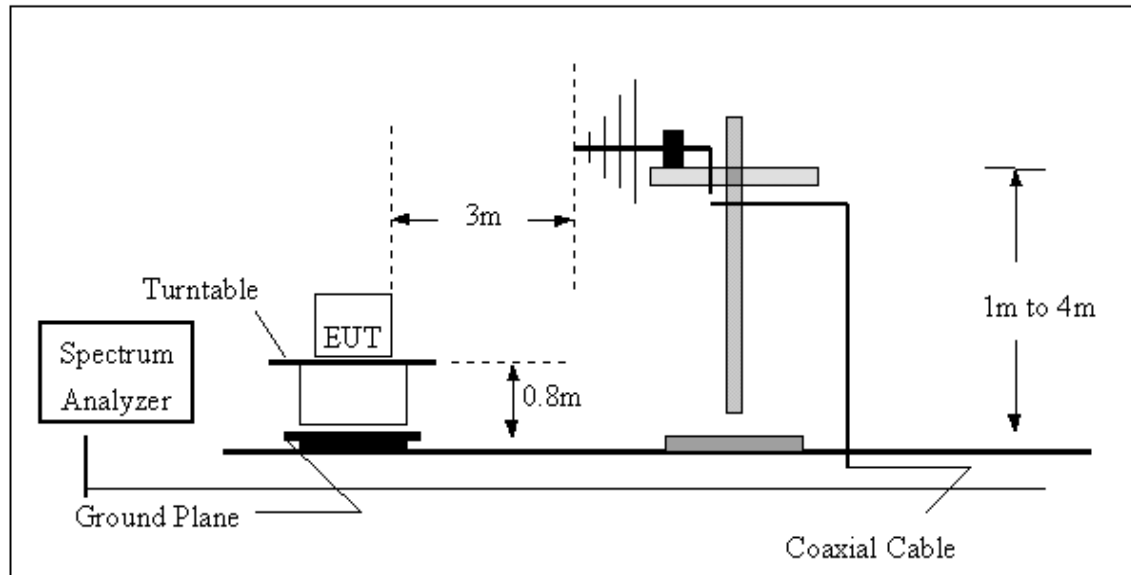
- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m meter open area test site. The table was rotated 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. performed pretest to three orthogonal axis.
- 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.

3.3.3 DEVIATION FROM TEST STANDARD

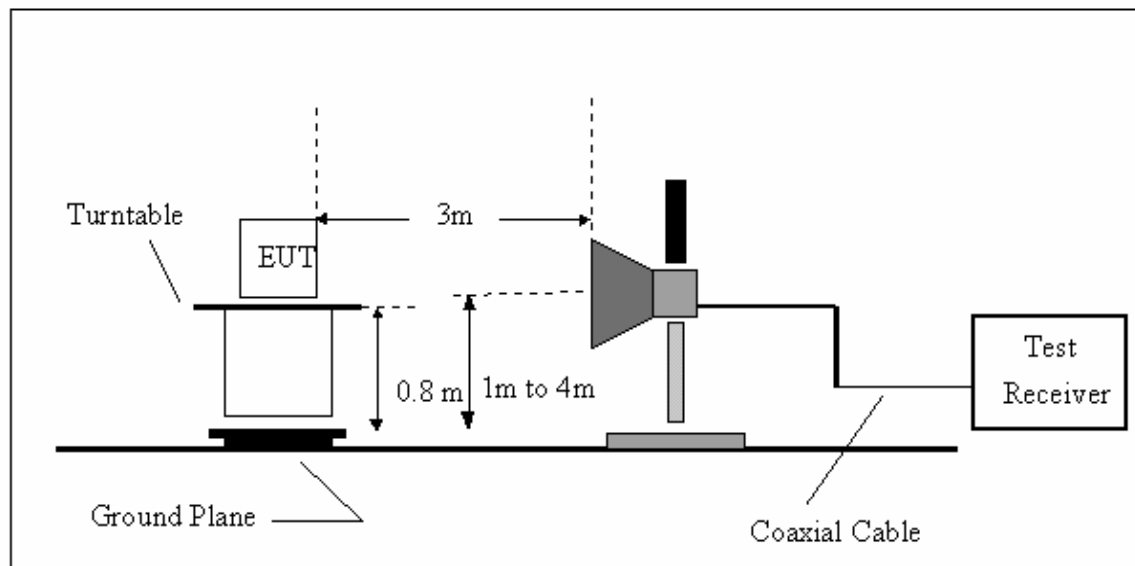
No deviation

3.3.4 TEST SETUP

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



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



3.3.5 TEST RESULTS (BLOW 30MHz)

not detected blow 30MHz.

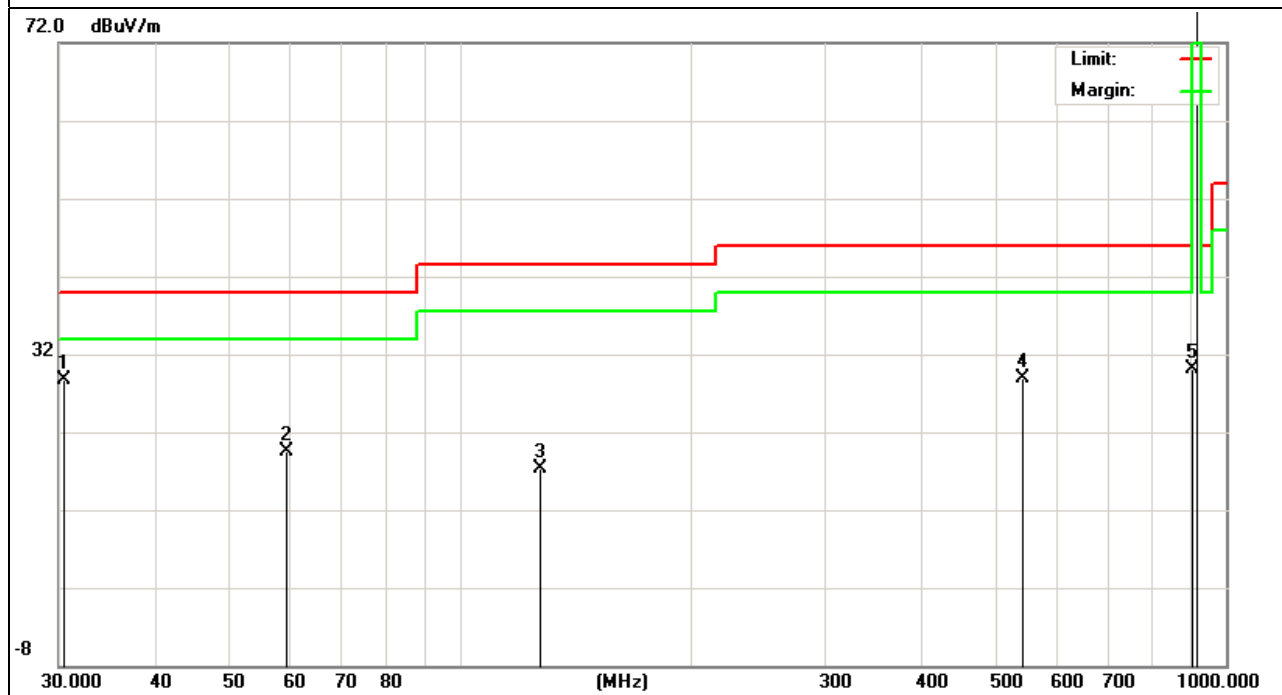
3.3.6 TEST RESULTS (BETWEEN 30 – 1000 MHZ)

| | | | |
|---------------|---------------------------|---------------------|------------|
| EUT : | Wireless Floating Speaker | Model Name : | LIONFISH |
| Temperature : | 24 °C | Relative Humidity : | 54% |
| Pressure : | 1010 hPa | Test Date : | 2011-7-20 |
| Test Mode : | CH1 ipod in | Polarization : | Horizontal |
| Test Power : | DC 5V | | |

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| 30.3171 | 10.49 | 18.18 | 28.67 | 40 | -11.33 | QP |
| 59.4405 | 14.17 | 5.25 | 19.42 | 40 | -20.58 | QP |
| 127.6645 | 5.31 | 11.9 | 17.21 | 43.5 | -26.29 | QP |
| 543.274 | 5.41 | 23.46 | 28.87 | 46 | -17.13 | QP |
| 902 | 4.32 | 25.75 | 30.07 | 46 | -15.93 | QP |
| 914.014 | 56.19 | 25.96 | 82.15 | 114 | -31.85 | peak |
| 914.014 | 55.16 | 25.96 | 81.12 | 94 | -12.88 | AVG |

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

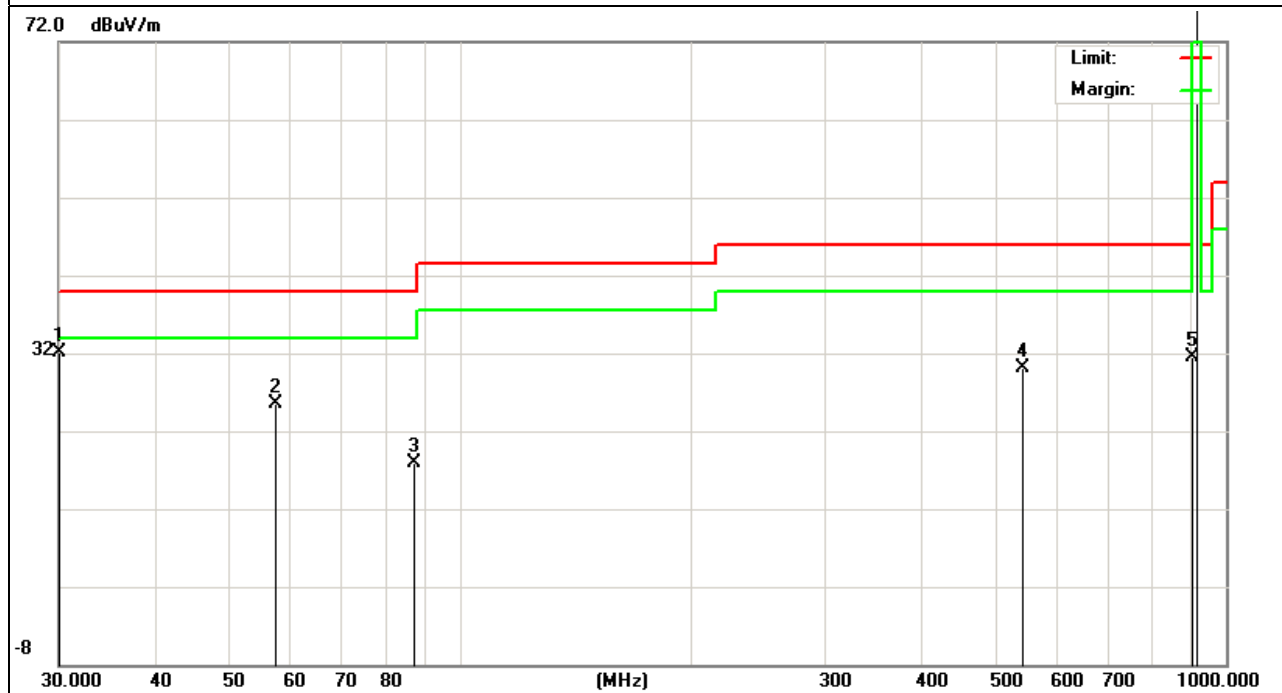


| | | | |
|---------------|---------------------------|---------------------|-----------|
| EUT : | Wireless Floating Speaker | Model Name : | LIONFISH |
| Temperature : | 24 °C | Relative Humidity : | 54% |
| Pressure : | 1010 hPa | Test Date : | 2011-7-20 |
| Test Mode : | CH1 ipod in | Polarization : | Vertical |
| Test Power : | DC 5V | | |

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| 30 | 13.69 | 18.33 | 32.02 | 40 | -7.98 | QP |
| 57.5938 | 19.94 | 5.51 | 25.45 | 40 | -14.55 | QP |
| 87.1115 | 8.87 | 9 | 17.87 | 40 | -22.13 | QP |
| 543.274 | 6.7 | 23.46 | 30.16 | 46 | -15.84 | QP |
| 902 | 5.79 | 25.75 | 31.54 | 46 | -14.46 | QP |
| 914.024 | 62.79 | 25.96 | 88.75 | 114 | -25.25 | peak |
| 914.024 | 60.29 | 25.96 | 86.25 | 94 | -7.75 | AVG |

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

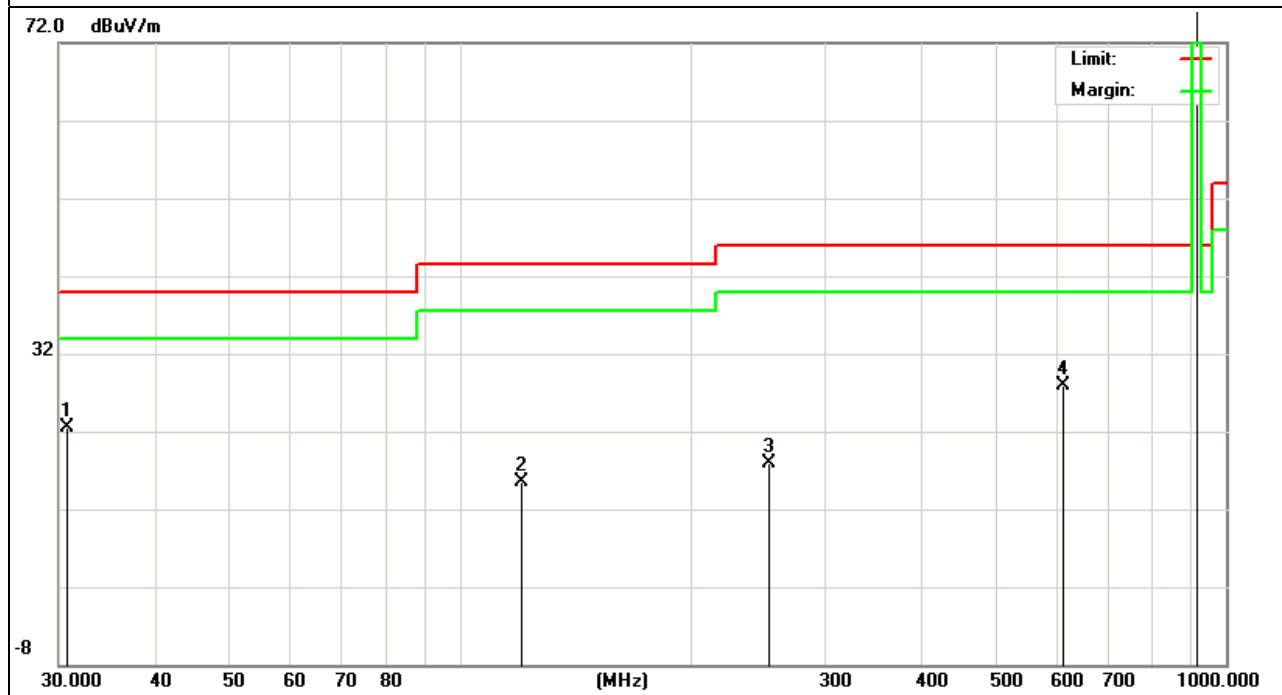


| | | | |
|---------------|---------------------------|---------------------|------------|
| EUT : | Wireless Floating Speaker | Model Name : | LIONFISH |
| Temperature : | 24 °C | Relative Humidity : | 54% |
| Pressure : | 1010 hPa | Test Date : | 2011-7-20 |
| Test Mode : | CH2 ipod in | Polarization : | Horizontal |
| Test Power : | DC 5V | | |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBμV) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | |
| 30.7454 | 4.57 | 17.96 | 22.53 | 40 | -17.47 | QP |
| 120.6991 | 3.69 | 11.78 | 15.47 | 43.5 | -28.03 | QP |
| 252.9482 | 4.48 | 13.45 | 17.93 | 46 | -28.07 | QP |
| 614.2142 | 5.99 | 21.86 | 27.85 | 46 | -18.15 | QP |
| 914.4985 | 58.86 | 25.98 | 84.84 | 114 | -29.16 | peak |
| 914.4985 | 56.28 | 25.98 | 82.26 | 94 | -11.74 | AVG |

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

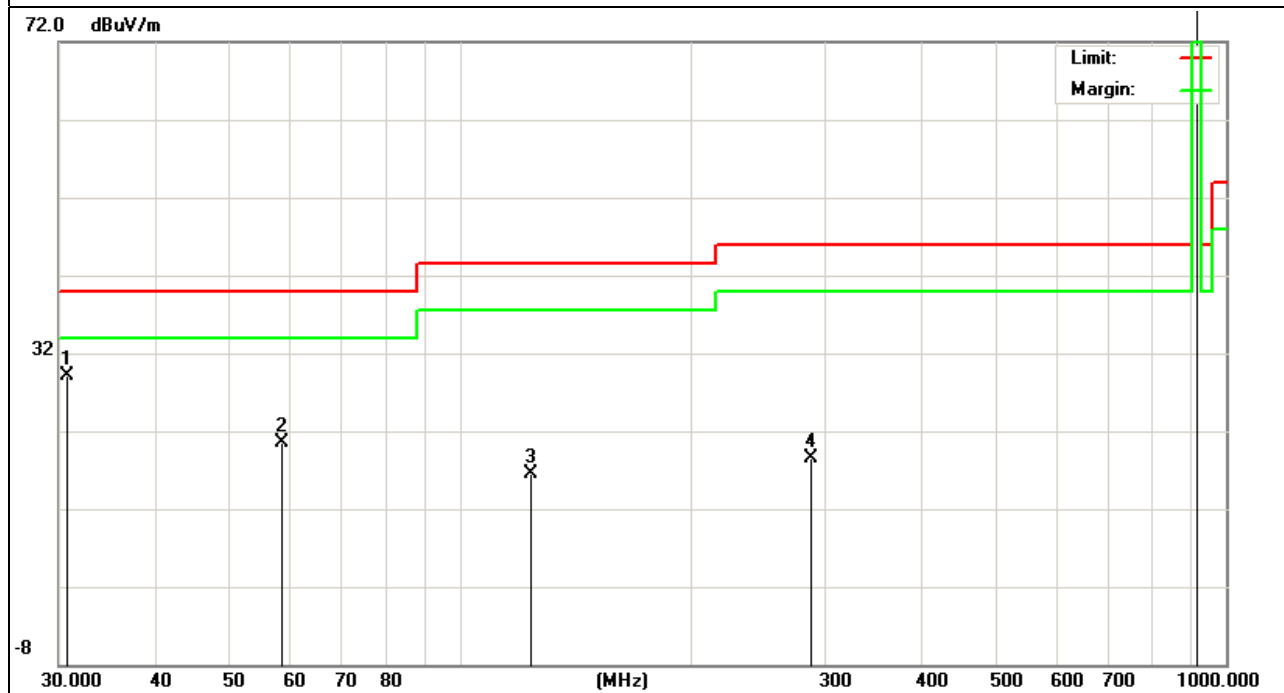


| | | | |
|---------------|---------------------------|---------------------|-----------|
| EUT : | Wireless Floating Speaker | Model Name : | LIONFISH |
| Temperature : | 24 °C | Relative Humidity : | 54% |
| Pressure : | 1010 hPa | Test Date : | 2011-7-20 |
| Test Mode : | CH2 ipod in | Polarization : | Vertical |
| Test Power : | DC 5V | | |

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| | | | | | | |
| 30.6376 | 11.16 | 18.02 | 29.18 | 40 | -10.82 | QP |
| 58.6126 | 15.2 | 5.36 | 20.56 | 40 | -19.44 | QP |
| 123.6984 | 4.69 | 11.87 | 16.56 | 43.5 | -26.94 | QP |
| 286.9823 | 4.84 | 13.75 | 18.59 | 46 | -27.41 | QP |
| 914.4996 | 56.23 | 25.98 | 82.21 | 114 | -31.79 | peak |
| 914.4996 | 54.44 | 25.98 | 80.42 | 94 | -13.58 | AVG |

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

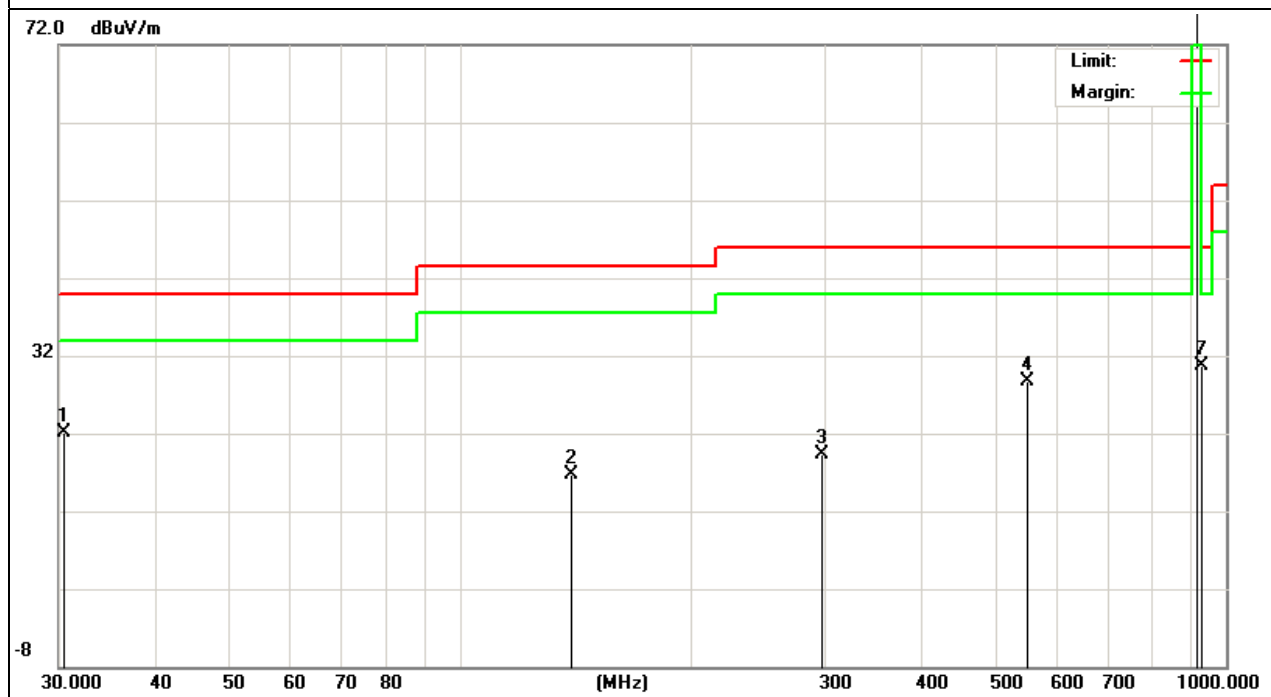


| | | | |
|---------------|---------------------------|---------------------|------------|
| EUT : | Wireless Floating Speaker | Model Name : | LIONFISH |
| Temperature : | 24 °C | Relative Humidity : | 54% |
| Pressure : | 1010 hPa | Test Date : | 2011-7-20 |
| Test Mode : | CH3 ipod in | Polarization : | Horizontal |
| Test Power : | DC 5V | | |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBμV) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | |
| 30.3172 | 3.96 | 18.18 | 22.14 | 40 | -17.86 | QP |
| 139.3611 | 4.78 | 11.93 | 16.71 | 43.5 | -26.79 | QP |
| 297.2241 | 4.85 | 14.45 | 19.3 | 46 | -26.7 | QP |
| 550.9479 | 5.42 | 23.27 | 28.69 | 46 | -17.31 | QP |
| 915.0345 | 61.76 | 25.99 | 87.75 | 114 | -26.25 | peak |
| 915.0345 | 59.34 | 25.99 | 85.33 | 94 | -8.67 | AVG |
| 928 | 4.16 | 26.57 | 30.73 | 46 | -15.27 | QP |

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

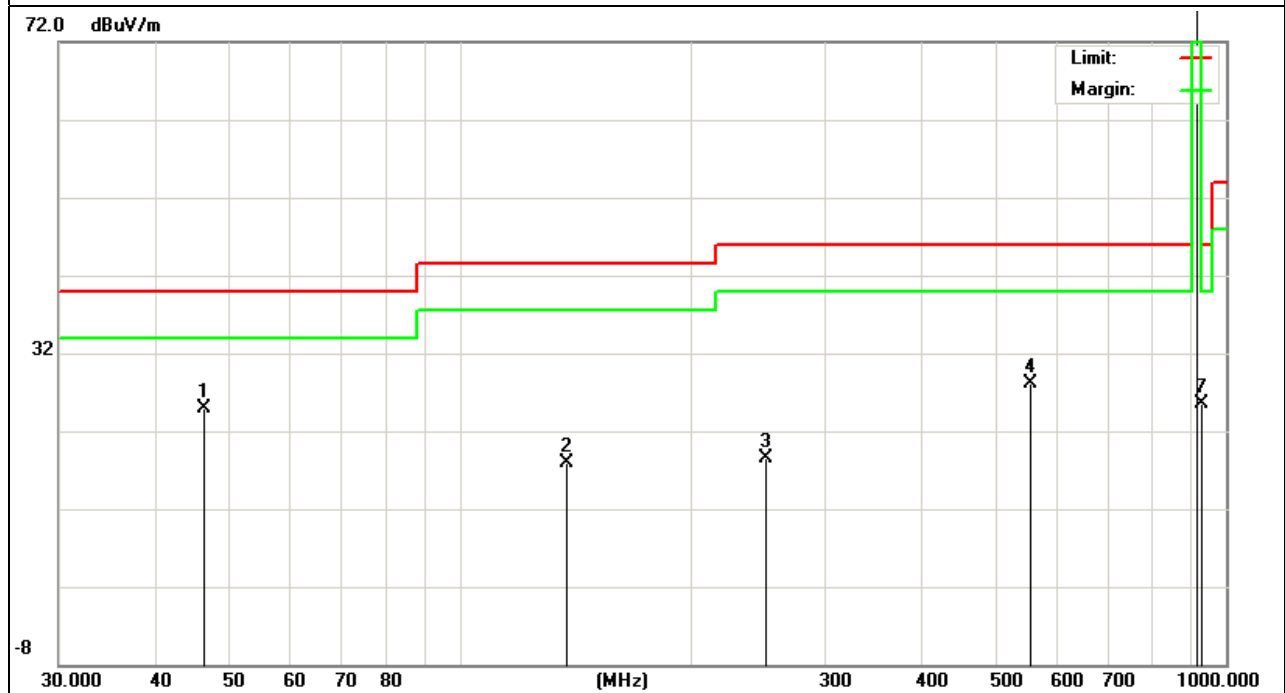


| | | | |
|---------------|---------------------------|---------------------|-----------|
| EUT : | Wireless Floating Speaker | Model Name : | LIONFISH |
| Temperature : | 24 °C | Relative Humidity : | 54% |
| Pressure : | 1010 hPa | Test Date : | 2011-7-20 |
| Test Mode : | CH3 ipod in | Polarization : | Vertical |
| Test Power : | DC 5V | | |

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| 46.3402 | 15.02 | 9.92 | 24.94 | 40 | -15.06 | QP |
| 137.9028 | 5.91 | 11.95 | 17.86 | 43.5 | -25.64 | QP |
| 250.3011 | 5.4 | 13.09 | 18.49 | 46 | -27.51 | QP |
| 556.7744 | 6.04 | 22 | 28.04 | 46 | -17.96 | QP |
| 915.0124 | 60.52 | 25.99 | 86.51 | 114 | -27.49 | peak |
| 915.0124 | 58.24 | 25.99 | 84.23 | 94 | -9.77 | AVG |
| 928 | -1.02 | 26.57 | 25.55 | 46 | -20.45 | QP |

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

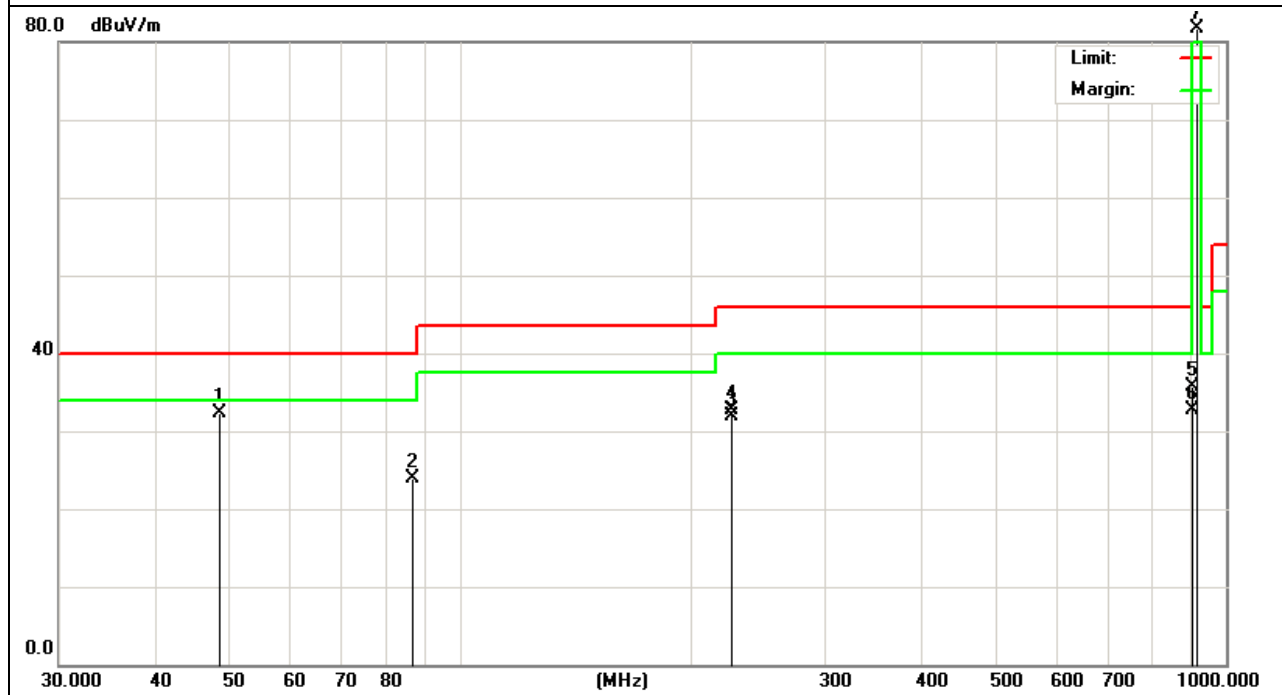


| | | | |
|---------------|---------------------------|---------------------|------------|
| EUT : | Wireless Floating Speaker | Model Name : | LIONFISH |
| Temperature : | 24 °C | Relative Humidity : | 54% |
| Pressure : | 1010 hPa | Test Date : | 2011-7-20 |
| Test Mode : | CH1 Aux input | Polarization : | Horizontal |
| Test Power : | DC 5V | | |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBμV) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | |
| 48.6358 | 23.41 | 8.82 | 32.23 | 40.00 | -7.77 | QP |
| 86.7674 | 14.87 | 8.98 | 23.85 | 40.00 | -16.15 | QP |
| 226.7578 | 21.52 | 10.33 | 31.85 | 46.00 | -14.15 | QP |
| 902.0000 | 10.01 | 25.75 | 35.76 | 46.00 | -10.24 | QP |
| 902.0000 | 6.90 | 25.75 | 32.65 | 46.00 | -13.35 | peak |
| 914.0327 | 55.66 | 25.96 | 81.62 | 94.00 | -12.38 | AVG |

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

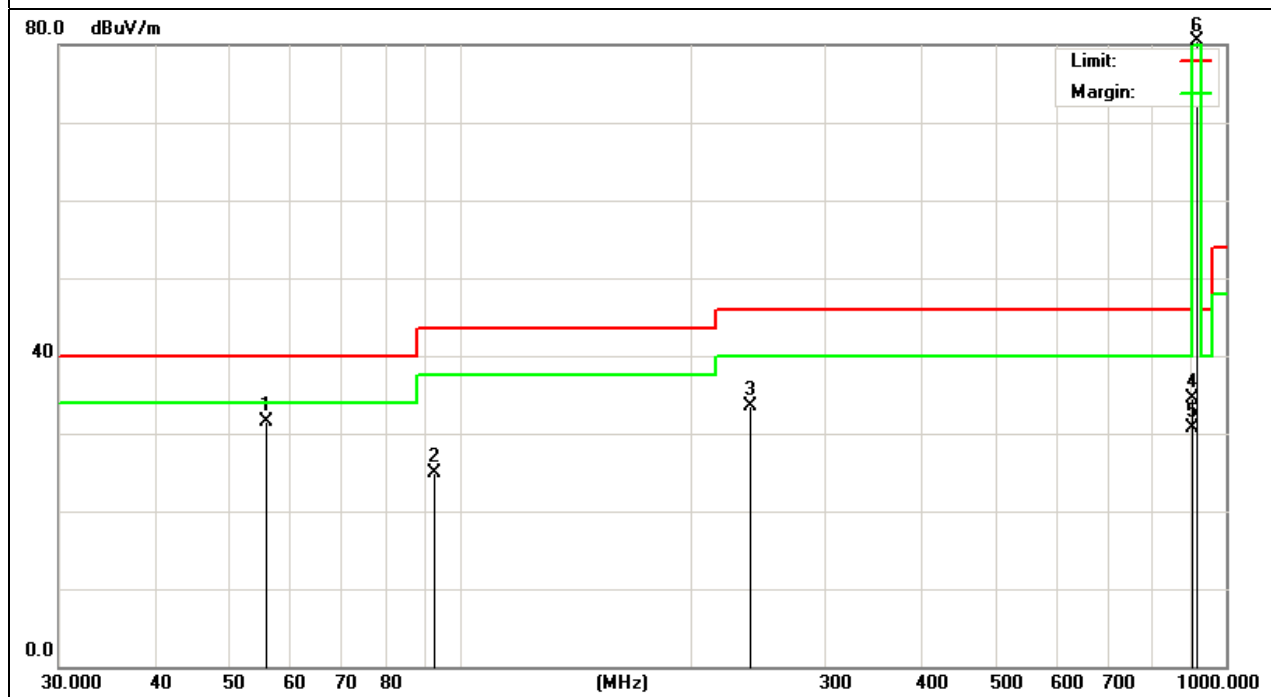


| | | | |
|---------------|---------------------------|---------------------|-----------|
| EUT : | Wireless Floating Speaker | Model Name : | LIONFISH |
| Temperature : | 24 °C | Relative Humidity : | 54% |
| Pressure : | 1010 hPa | Test Date : | 2011-7-20 |
| Test Mode : | CH1 Aux input | Polarization : | Vertical |
| Test Power : | DC 5V | | |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBμV) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | |
| 55.86 | 25.74 | 5.84 | 31.58 | 40.00 | -8.42 | QP |
| 92.59 | 15.15 | 9.70 | 24.85 | 43.50 | -18.65 | QP |
| 238.45 | 22.41 | 11.17 | 33.58 | 46.00 | -12.42 | QP |
| 902.00 | 8.70 | 25.75 | 34.45 | 46.00 | -11.55 | QP |
| 902.00 | 5.00 | 25.75 | 30.75 | 46.00 | -15.25 | QP |
| 914.00 | 54.55 | 25.96 | 80.51 | 94.00 | -13.49 | peak |
| 914.00 | 48.56 | 25.96 | 74.52 | 94.00 | -19.48 | AVG |

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

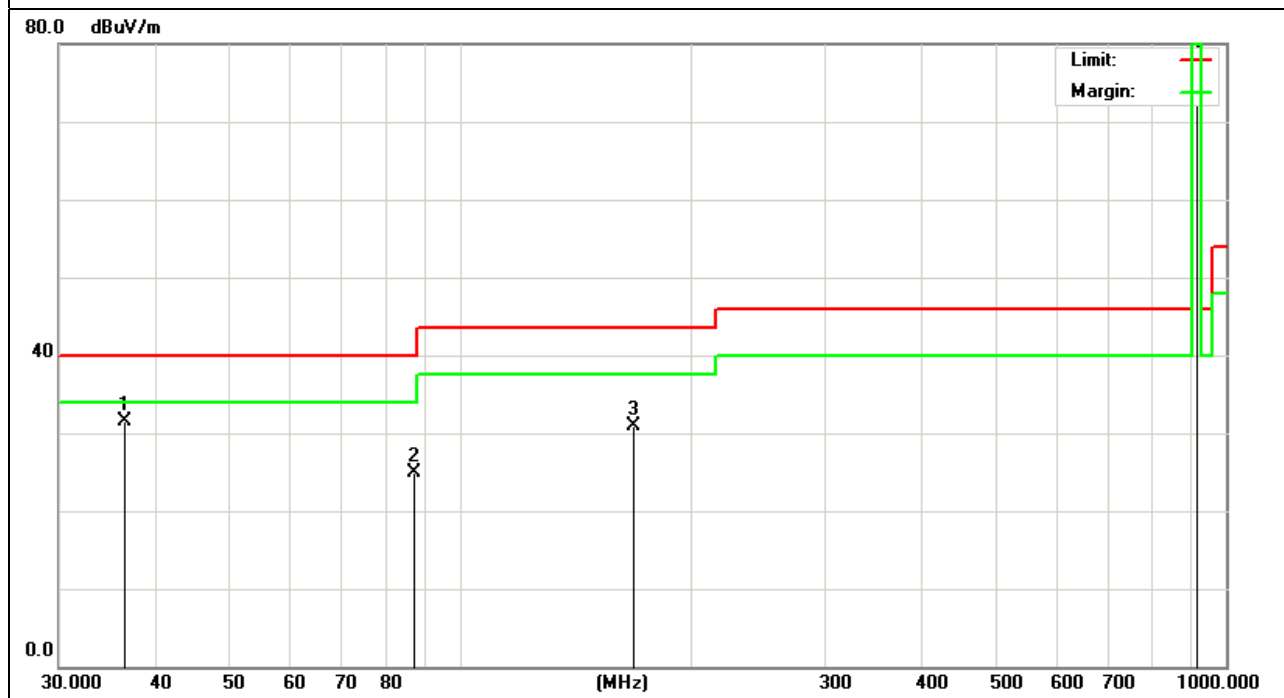


| | | | |
|---------------|---------------------------|---------------------|------------|
| EUT : | Wireless Floating Speaker | Model Name : | LIONFISH |
| Temperature : | 24 °C | Relative Humidity : | 54% |
| Pressure : | 1010 hPa | Test Date : | 2011-7-20 |
| Test Mode : | CH2 Aux input | Polarization : | Horizontal |
| Test Power : | DC 5V | | |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBμV) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | |
| 36.59 | 16.65 | 14.93 | 31.58 | 40.00 | -8.42 | QP |
| 87.30 | 15.84 | 9.02 | 24.86 | 40.00 | -15.14 | QP |
| 168.29 | 20.78 | 10.17 | 30.95 | 43.50 | -12.55 | QP |
| 914.49 | 50.60 | 25.98 | 76.58 | 94.00 | -17.42 | peak |
| 914.49 | 46.88 | 25.98 | 72.86 | 94.00 | -21.14 | AVG |

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

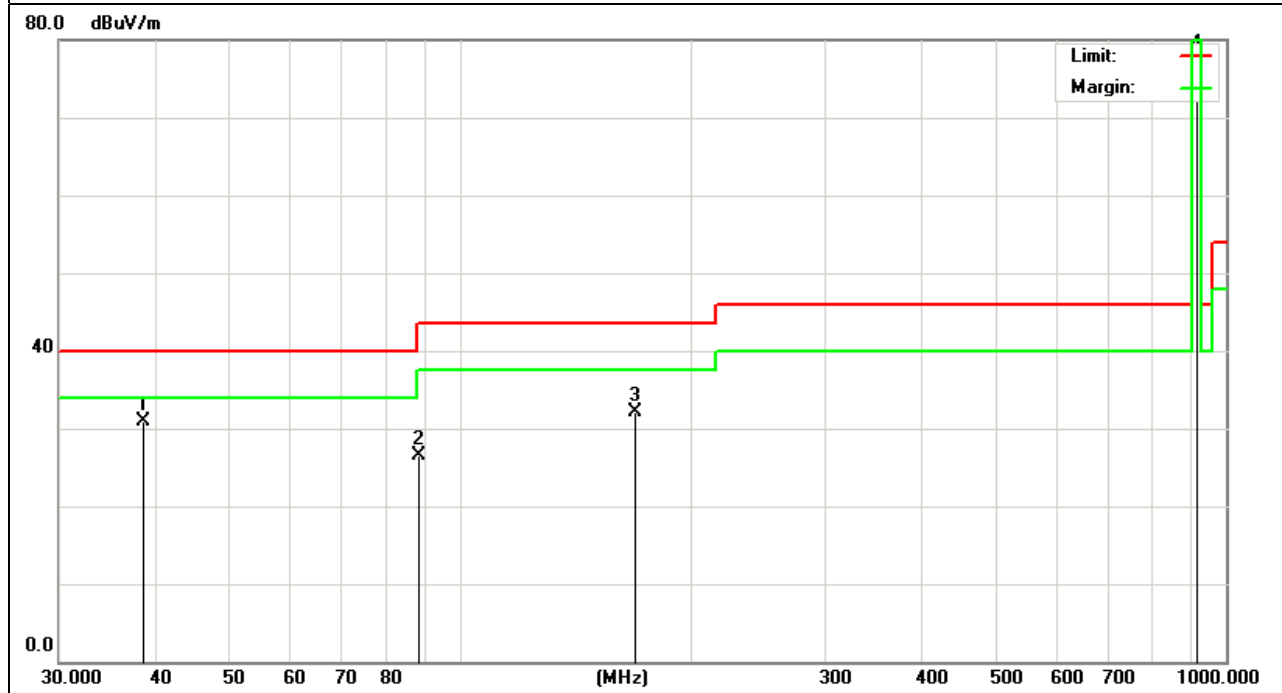


| | | | |
|---------------|---------------------------|---------------------|-----------|
| EUT : | Wireless Floating Speaker | Model Name : | LIONFISH |
| Temperature : | 24 °C | Relative Humidity : | 54% |
| Pressure : | 1010 hPa | Test Date : | 2011-7-20 |
| Test Mode : | CH2 Aux input | Polarization : | Vertical |
| Test Power : | DC 5V | | |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBμV) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | |
| 38.52 | 16.79 | 14.03 | 30.82 | 40.00 | -9.18 | QP |
| 88.26 | 17.43 | 9.11 | 26.54 | 43.50 | -16.96 | QP |
| 169.55 | 22.09 | 10.06 | 32.15 | 43.50 | -11.35 | QP |
| 914.49 | 51.60 | 25.98 | 77.58 | 94.00 | -16.42 | peak |
| 914.49 | 47.48 | 25.98 | 73.46 | 94.00 | -20.54 | AVG |

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

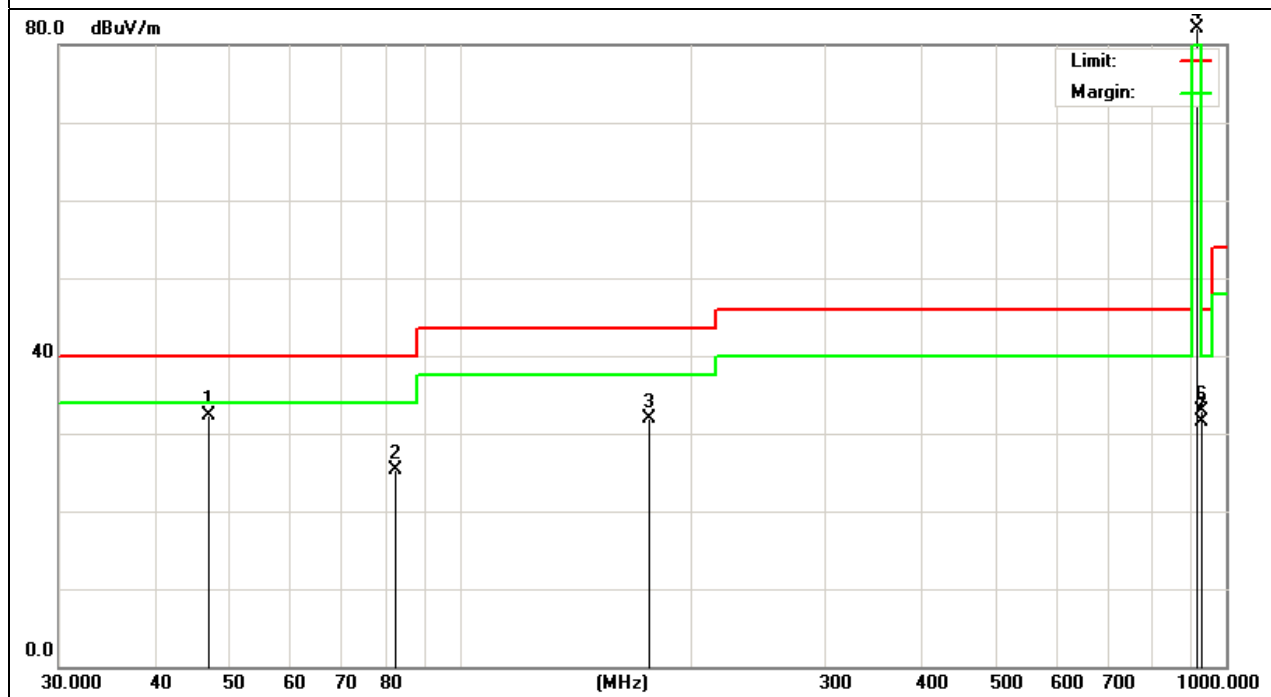


| | | | |
|---------------|---------------------------|---------------------|------------|
| EUT : | Wireless Floating Speaker | Model Name : | LIONFISH |
| Temperature : | 24 °C | Relative Humidity : | 54% |
| Pressure : | 1010 hPa | Test Date : | 2011-7-20 |
| Test Mode : | CH3 Aux input | Polarization : | Horizontal |
| Test Power : | DC 5V | | |

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| 46.87 | 22.62 | 9.66 | 32.28 | 40.00 | -7.72 | QP |
| 82.56 | 17.04 | 8.20 | 25.24 | 40.00 | -14.76 | QP |
| 176.29 | 22.20 | 9.69 | 31.89 | 43.50 | -11.61 | QP |
| 915.05 | 56.15 | 25.99 | 82.14 | 94.00 | -11.86 | QP |
| 915.05 | 49.70 | 25.99 | 75.69 | 94.00 | -18.31 | peak |
| 928.00 | 6.39 | 26.57 | 32.96 | 46.00 | -13.04 | AVG |
| 928.00 | 5.01 | 26.57 | 31.58 | 46.00 | -14.42 | QP |

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

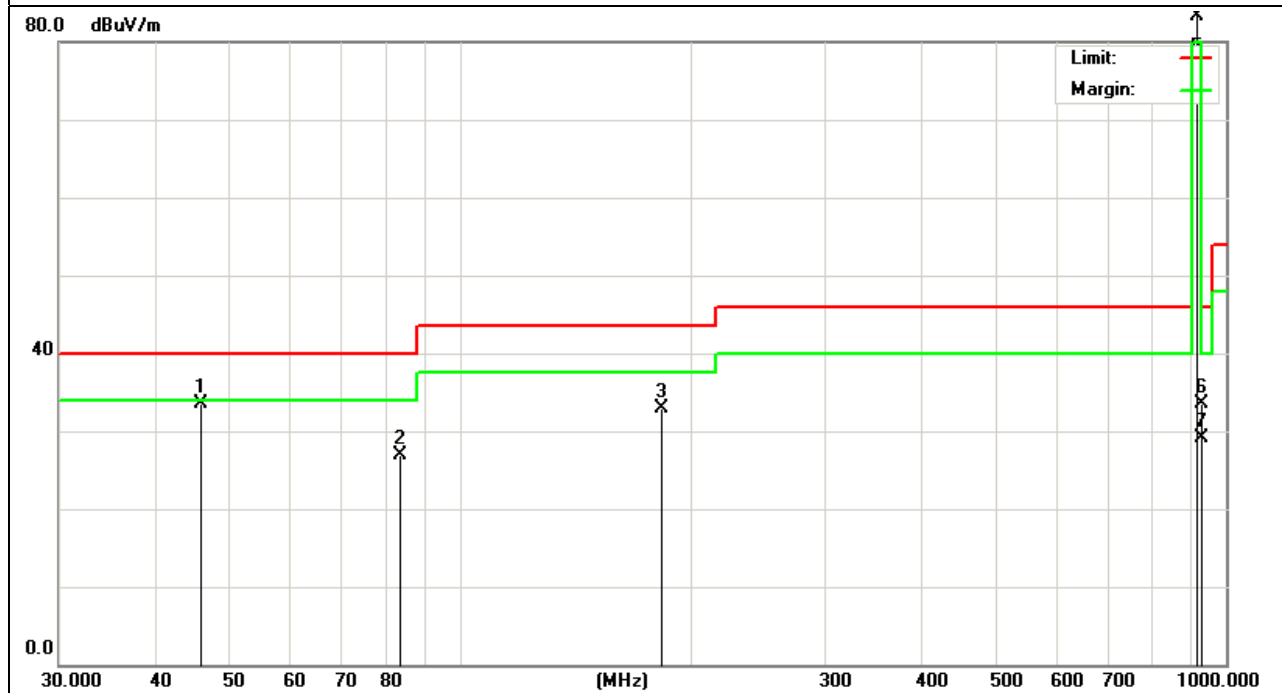


| | | | |
|---------------|---------------------------|---------------------|-----------|
| EUT : | Wireless Floating Speaker | Model Name : | LIONFISH |
| Temperature : | 24 °C | Relative Humidity : | 54% |
| Pressure : | 1010 hPa | Test Date : | 2011-7-20 |
| Test Mode : | CH3 Aux input | Polarization : | Vertical |
| Test Power : | DC 5V | | |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBμV) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | |
| 45.89 | 23.44 | 10.14 | 33.58 | 40.00 | -6.42 | QP |
| 83.58 | 18.45 | 8.42 | 26.87 | 40.00 | -13.13 | QP |
| 183.56 | 23.43 | 9.45 | 32.88 | 43.50 | -10.62 | QP |
| 915.05 | 57.52 | 25.99 | 83.51 | 94.00 | -10.49 | QP |
| 915.05 | 51.26 | 25.99 | 77.25 | 94.00 | -16.75 | peak |
| 928.00 | 7.02 | 26.57 | 33.59 | 46.00 | -12.41 | AVG |
| 928.00 | 2.55 | 26.57 | 29.12 | 46.00 | -16.88 | QP |

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



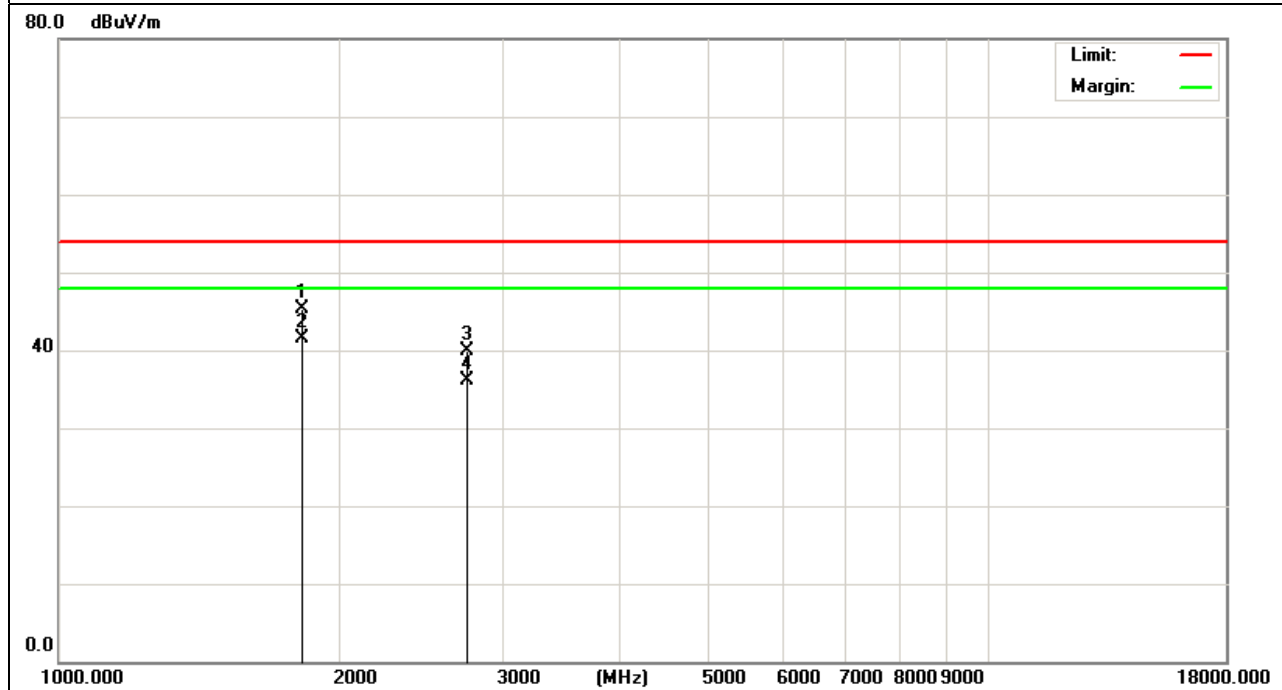
3.3.7 TEST RESULTS (ABOVE 1000 MHZ)

| | | | |
|---------------|---------------------------|---------------------|------------|
| EUT : | Wireless Floating Speaker | Model Name : | LIONFISH |
| Temperature : | 24 °C | Relative Humidity : | 54% |
| Pressure : | 1010 hPa | Test Date : | 2011-7-20 |
| Test Mode : | CH1 ipod in | Polarization : | Horizontal |
| Test Power : | DC 5V | | |

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| 1828.158 | 16.9 | 28.35 | 45.25 | 54 | -8.75 | peak |
| 1828.158 | 13.21 | 28.35 | 41.56 | 54 | -12.44 | AVG |
| 2742.159 | 4.81 | 35.19 | 40 | 54 | -14 | peak |
| 2742.159 | 0.96 | 35.19 | 36.15 | 54 | -17.85 | AVG |

Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- No emission detected above 18GHz.

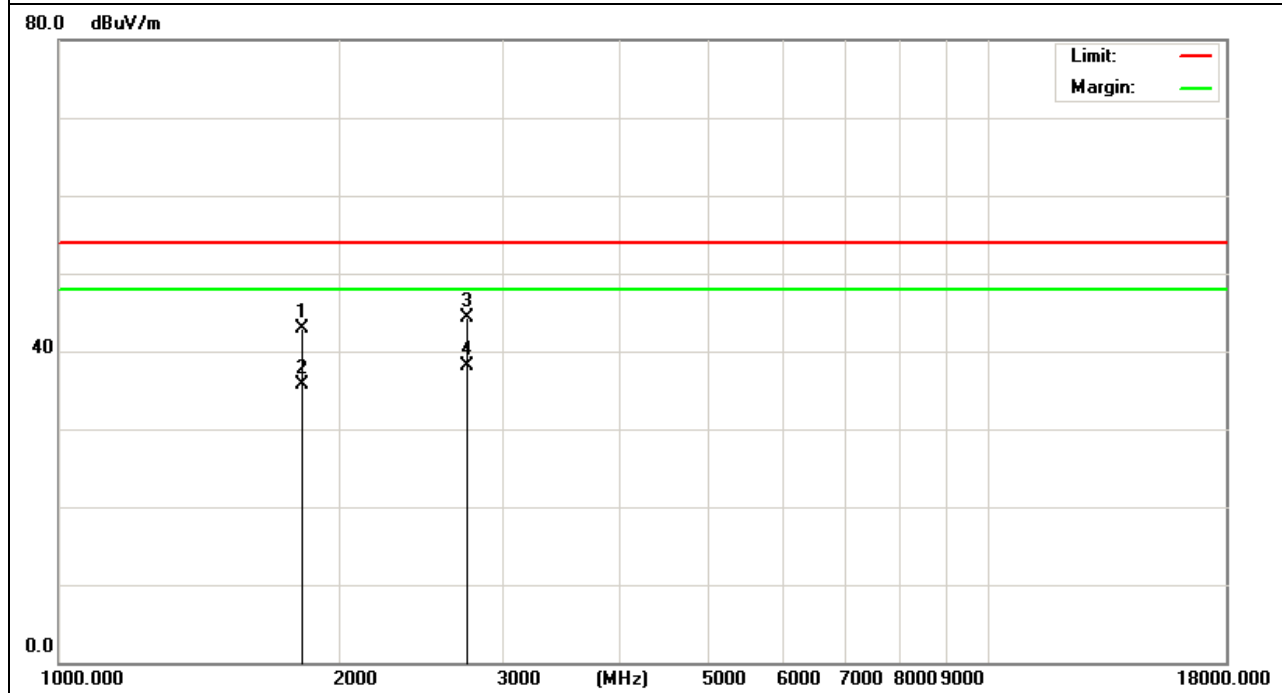


| | | | |
|---------------|---------------------------|---------------------|-----------|
| EUT : | Wireless Floating Speaker | Model Name : | LIONFISH |
| Temperature : | 24 °C | Relative Humidity : | 54% |
| Pressure : | 1010 hPa | Test Date : | 2011-7-20 |
| Test Mode : | CH1 ipod in | Polarization : | Vertical |
| Test Power : | DC 5V | | |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBμV) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | |
| 1828.356 | 14.51 | 28.35 | 42.86 | 54 | -11.14 | peak |
| 1828.356 | 7.3 | 28.35 | 35.65 | 54 | -18.35 | AVG |
| 2742.872 | 9.05 | 35.2 | 44.25 | 54 | -9.75 | peak |
| 2742.872 | 2.96 | 35.2 | 38.16 | 54 | -15.84 | AVG |

Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- No emission detected above 18GHz.

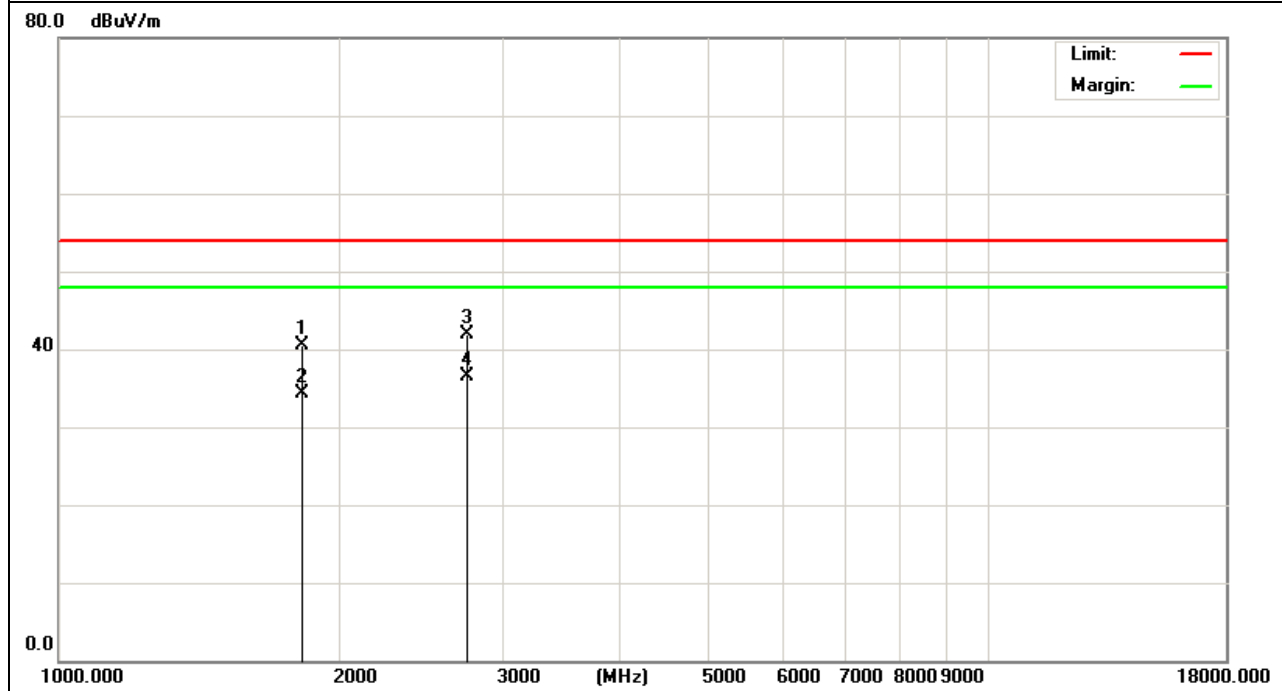


| | | | |
|---------------|---------------------------|---------------------|------------|
| EUT : | Wireless Floating Speaker | Model Name : | LIONFISH |
| Temperature : | 24 °C | Relative Humidity : | 54% |
| Pressure : | 1010 hPa | Test Date : | 2011-7-20 |
| Test Mode : | CH2 ipod in | Polarization : | Horizontal |
| Test Power : | DC 5V | | |

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| 1829.547 | 12.22 | 28.35 | 40.57 | 54 | -13.43 | peak |
| 1829.547 | 5.91 | 28.35 | 34.26 | 54 | -19.74 | AVG |
| 2743.876 | 6.65 | 35.21 | 41.86 | 54 | -12.14 | peak |
| 2743.876 | 1.3 | 35.21 | 36.51 | 54 | -17.49 | AVG |

Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- No emission detected above 18GHz.

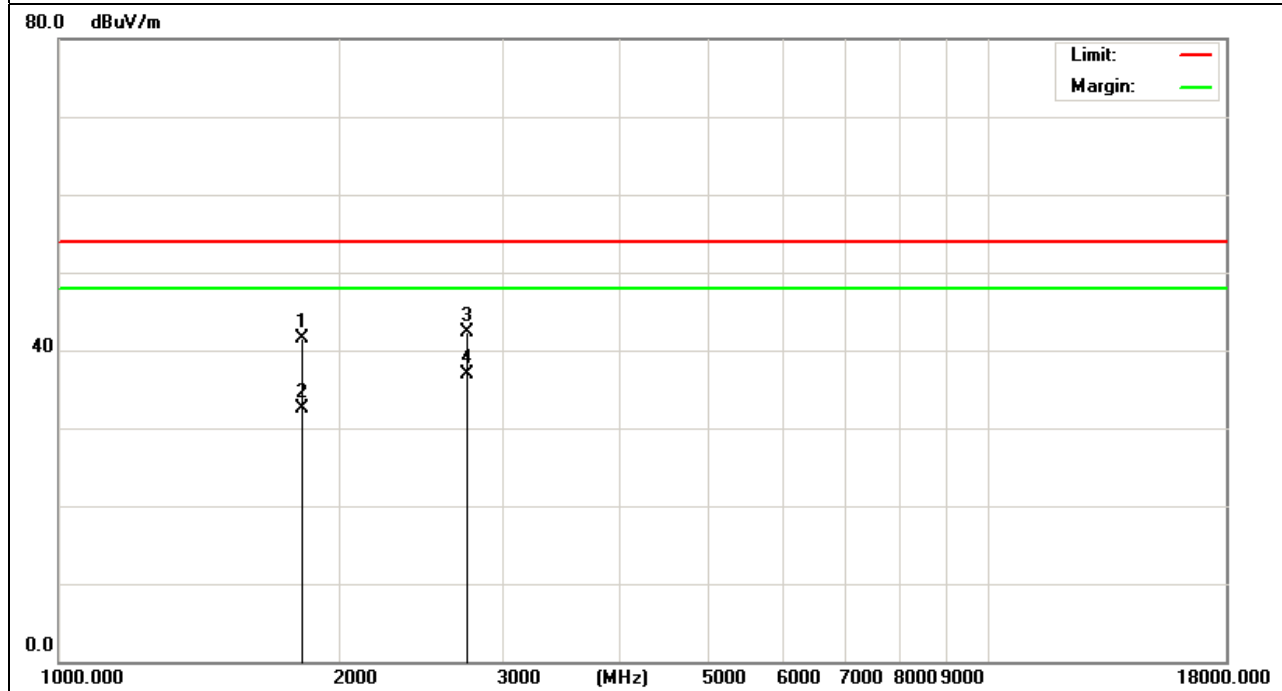


| | | | |
|---------------|---------------------------|---------------------|-----------|
| EUT : | Wireless Floating Speaker | Model Name : | LIONFISH |
| Temperature : | 24 °C | Relative Humidity : | 54% |
| Pressure : | 1010 hPa | Test Date : | 2011-7-20 |
| Test Mode : | CH2 ipod in | Polarization : | Vertical |
| Test Power : | DC 5V | | |

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| 1829.576 | 13.1 | 28.35 | 41.45 | 54 | -12.55 | peak |
| 1829.576 | 4.07 | 28.35 | 32.42 | 54 | -21.58 | AVG |
| 2743.458 | 7.07 | 35.2 | 42.27 | 54 | -11.73 | peak |
| 2743.458 | 1.62 | 35.2 | 36.82 | 54 | -17.18 | AVG |

Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- No emission detected above 18GHz.

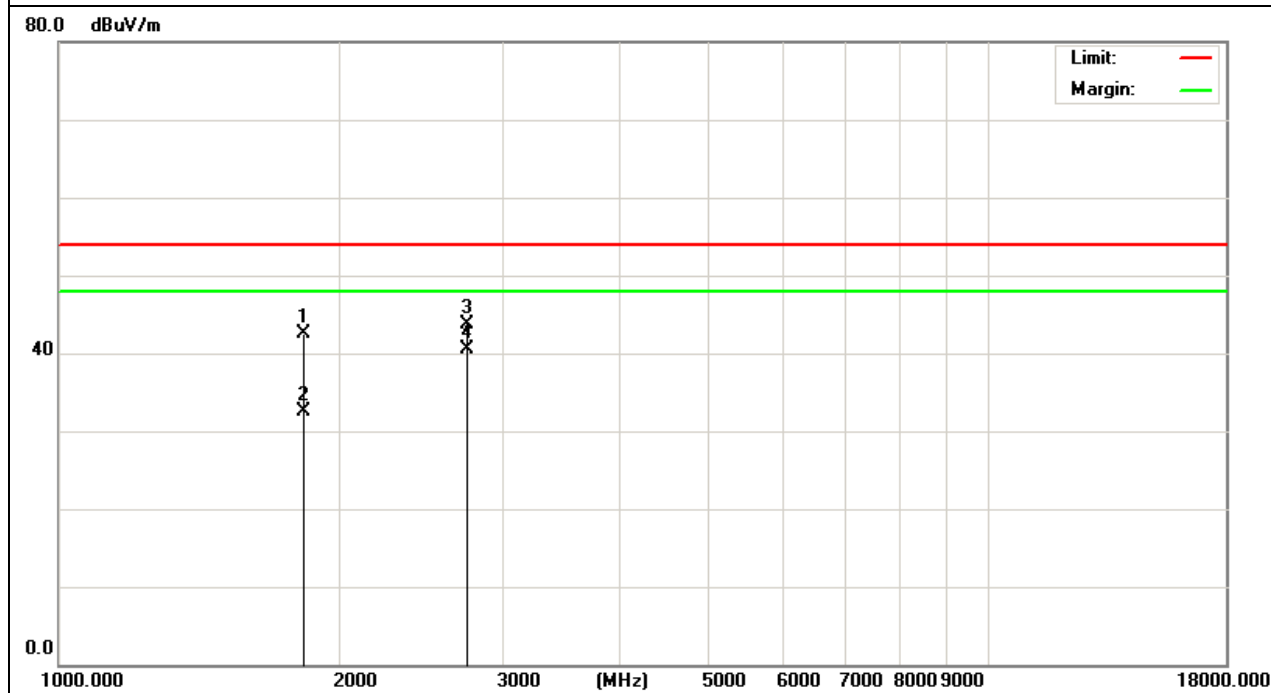


| | | | |
|---------------|---------------------------|---------------------|------------|
| EUT : | Wireless Floating Speaker | Model Name : | LIONFISH |
| Temperature : | 24 °C | Relative Humidity : | 54% |
| Pressure : | 1010 hPa | Test Date : | 2011-7-20 |
| Test Mode : | CH3 ipod in | Polarization : | Horizontal |
| Test Power : | DC 5V | | |

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| | | | | | | |
| 1830.523 | 14.21 | 28.36 | 42.57 | 54 | -11.43 | peak |
| 1830.523 | 4.22 | 28.36 | 32.58 | 54 | -21.42 | AVG |
| 2745.577 | 8.43 | 35.22 | 43.65 | 54 | -10.35 | peak |
| 2745.577 | 5.31 | 35.22 | 40.53 | 54 | -13.47 | AVG |

Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- No emission detected above 18GHz.

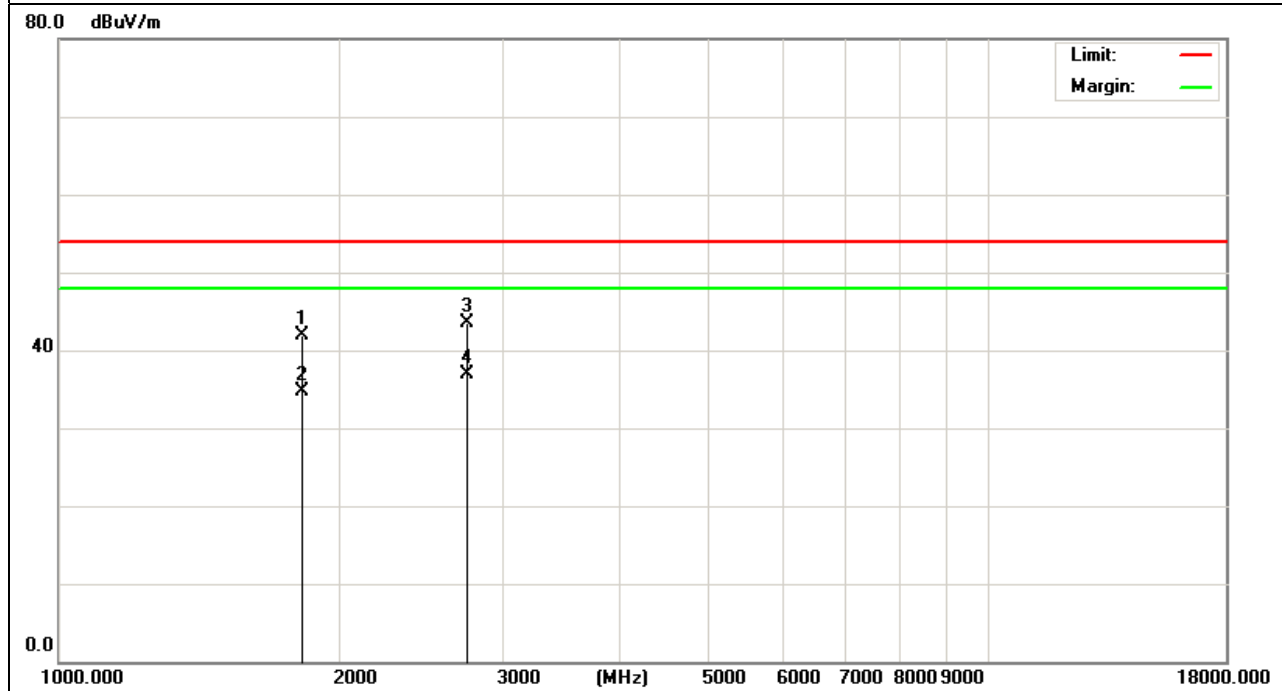


| | | | |
|---------------|---------------------------|---------------------|-----------|
| EUT : | Wireless Floating Speaker | Model Name : | LIONFISH |
| Temperature : | 24 °C | Relative Humidity : | 54% |
| Pressure : | 1010 hPa | Test Date : | 2011-7-20 |
| Test Mode : | CH3 ipod in | Polarization : | Vertical |
| Test Power : | DC 5V | | |

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| 1830.451 | 15.2 | 28.36 | 43.56 | 54 | -10.44 | peak |
| 1830.451 | 2.84 | 28.36 | 31.2 | 54 | -22.8 | AVG |
| 2745.126 | 9 | 35.22 | 44.22 | 54 | -9.78 | peak |
| 2745.126 | 6.28 | 35.22 | 41.5 | 54 | -12.5 | AVG |

Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- No emission detected above 18GHz.

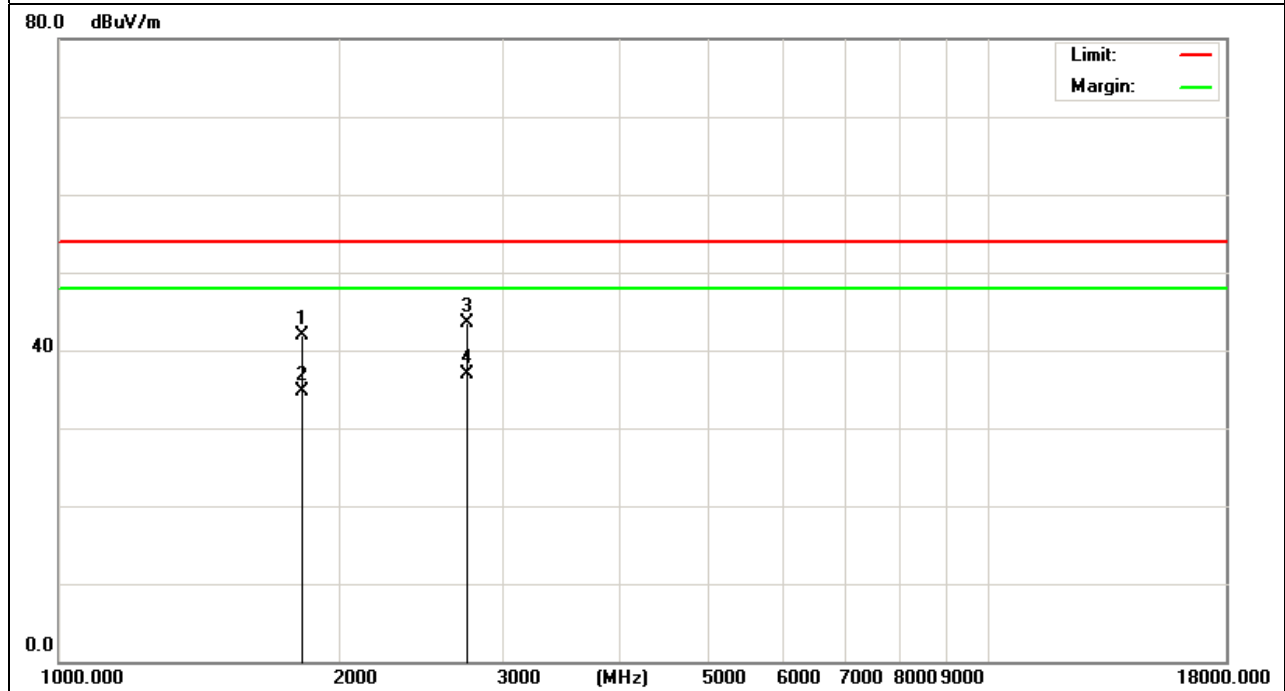


| | | | |
|---------------|---------------------------|---------------------|------------|
| EUT : | Wireless Floating Speaker | Model Name : | LIONFISH |
| Temperature : | 24 °C | Relative Humidity : | 54% |
| Pressure : | 1010 hPa | Test Date : | 2011-7-20 |
| Test Mode : | CH1 Aux input | Polarization : | Horizontal |
| Test Power : | DC 5V | | |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBμV) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | |
| 1828.35 | 13.50 | 28.35 | 41.85 | 54.00 | -12.15 | peak |
| 1828.35 | 6.27 | 28.35 | 34.62 | 54.00 | -19.38 | AVG |
| 2742.19 | 8.39 | 35.19 | 43.58 | 54.00 | -10.42 | peak |
| 2742.19 | 1.68 | 35.19 | 36.87 | 54.00 | -17.13 | AVG |

Remark:

3. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
4. No emission detected above 18GHz.

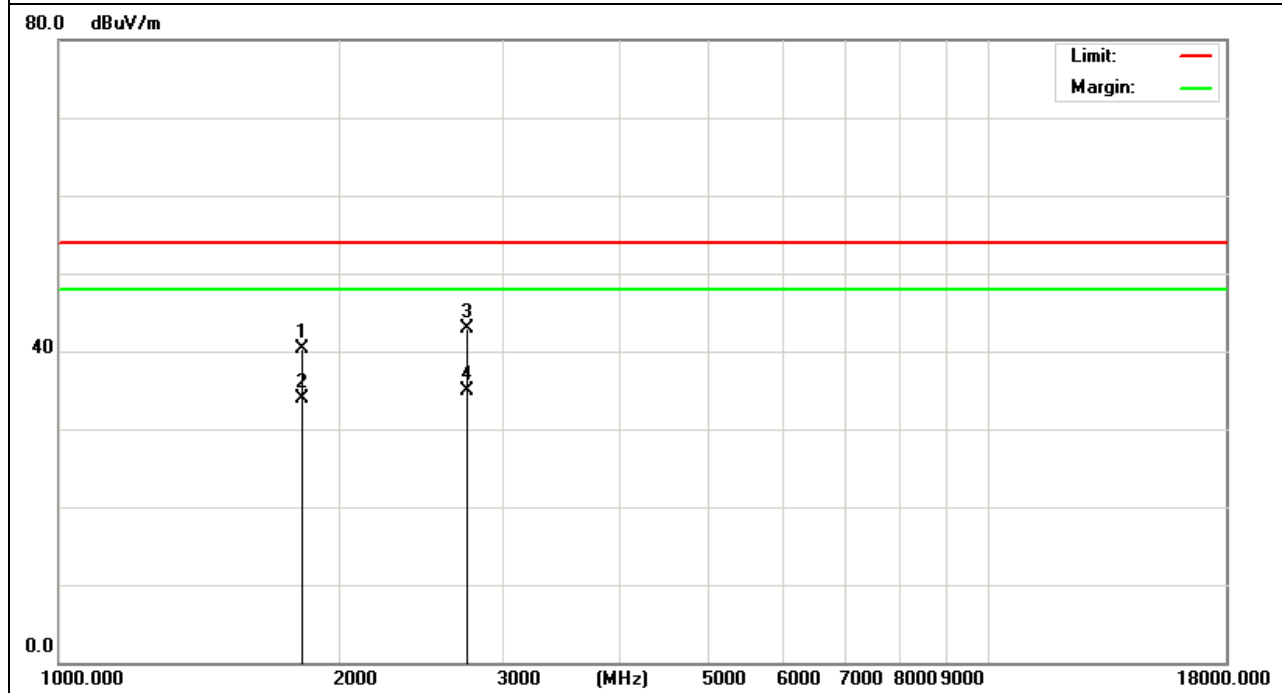


| | | | |
|---------------|---------------------------|---------------------|-----------|
| EUT : | Wireless Floating Speaker | Model Name : | LIONFISH |
| Temperature : | 24 °C | Relative Humidity : | 54% |
| Pressure : | 1010 hPa | Test Date : | 2011-7-20 |
| Test Mode : | CH1 Aux input | Polarization : | Vertical |
| Test Power : | DC 5V | | |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBμV) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | |
| 1828.28 | 11.91 | 28.35 | 40.26 | 54.00 | -13.74 | peak |
| 1828.35 | 5.50 | 28.35 | 33.85 | 54.00 | -20.15 | AVG |
| 2742.35 | 7.76 | 35.20 | 42.96 | 54.00 | -11.04 | peak |
| 2742.35 | -0.35 | 35.20 | 34.85 | 54.00 | -19.15 | AVG |

Remark:

3. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
4. No emission detected above 18GHz.



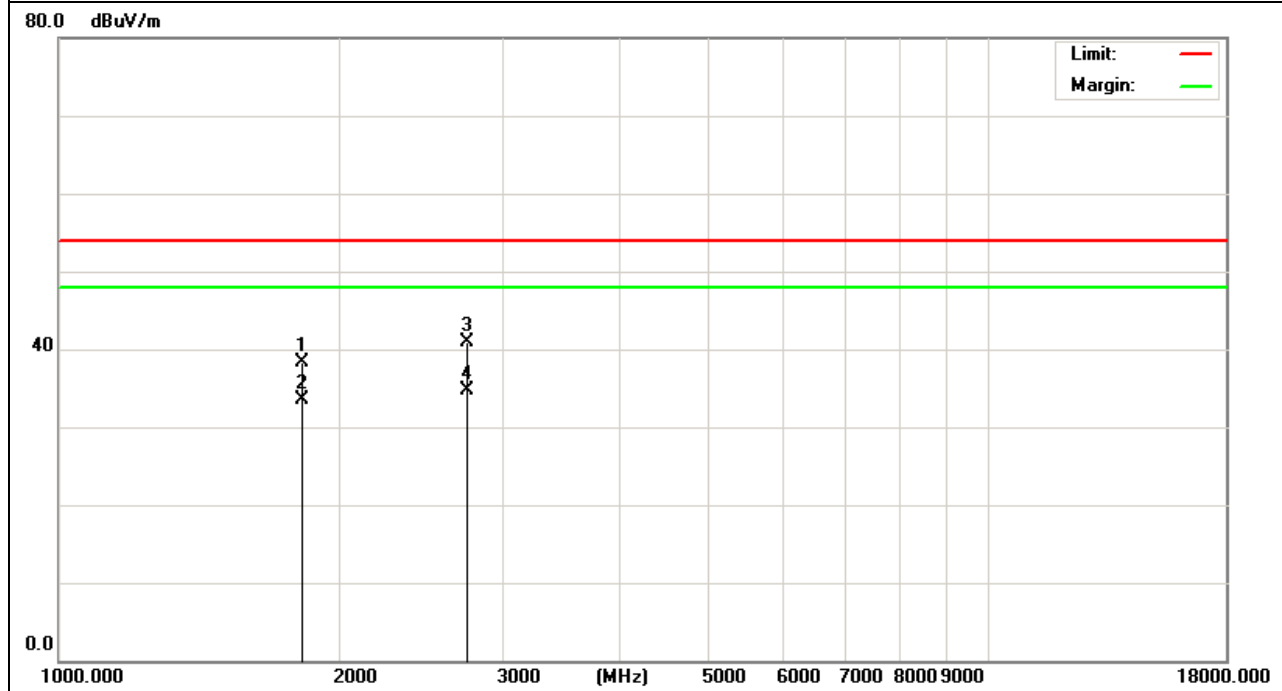
| | | | |
|---------------|---------------------------|---------------------|------------|
| EUT : | Wireless Floating Speaker | Model Name : | LIONFISH |
| Temperature : | 24 °C | Relative Humidity : | 54% |
| Pressure : | 1010 hPa | Test Date : | 2011-7-20 |
| Test Mode : | CH2 Aux input | Polarization : | Horizontal |
| Test Power : | DC 5V | | |

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| 1829.43 | 9.93 | 28.35 | 38.28 | 54.00 | -15.72 | peak |
| 1829.43 | 5.23 | 28.35 | 33.58 | 54.00 | -20.42 | AVG |
| 2743.68 | 5.65 | 35.21 | 40.86 | 54.00 | -13.14 | peak |
| 2743.68 | -0.52 | 35.21 | 34.69 | 54.00 | -19.31 | AVG |

Remark:

3. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

4. No emission detected above 18GHz.

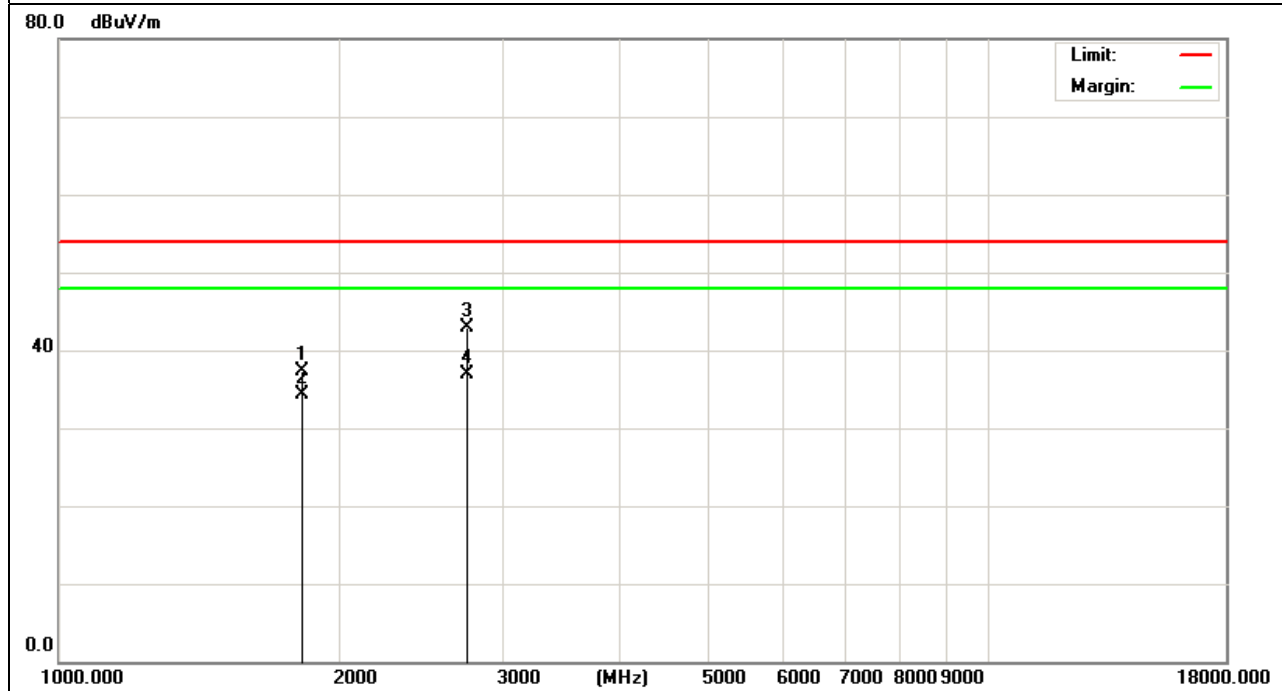


| | | | |
|---------------|---------------------------|---------------------|-----------|
| EUT : | Wireless Floating Speaker | Model Name : | LIONFISH |
| Temperature : | 24 °C | Relative Humidity : | 54% |
| Pressure : | 1010 hPa | Test Date : | 2011-7-20 |
| Test Mode : | CH2 Aux input | Polarization : | Vertical |
| Test Power : | DC 5V | | |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBμV) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | |
| 1829.36 | 8.91 | 28.35 | 37.26 | 54.00 | -16.74 | peak |
| 1829.37 | 5.93 | 28.35 | 34.28 | 54.00 | -19.72 | AVG |
| 2743.55 | 7.66 | 35.20 | 42.86 | 54.00 | -11.14 | peak |
| 2743.55 | 1.64 | 35.20 | 36.84 | 54.00 | -17.16 | AVG |

Remark:

3. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
4. No emission detected above 18GHz.



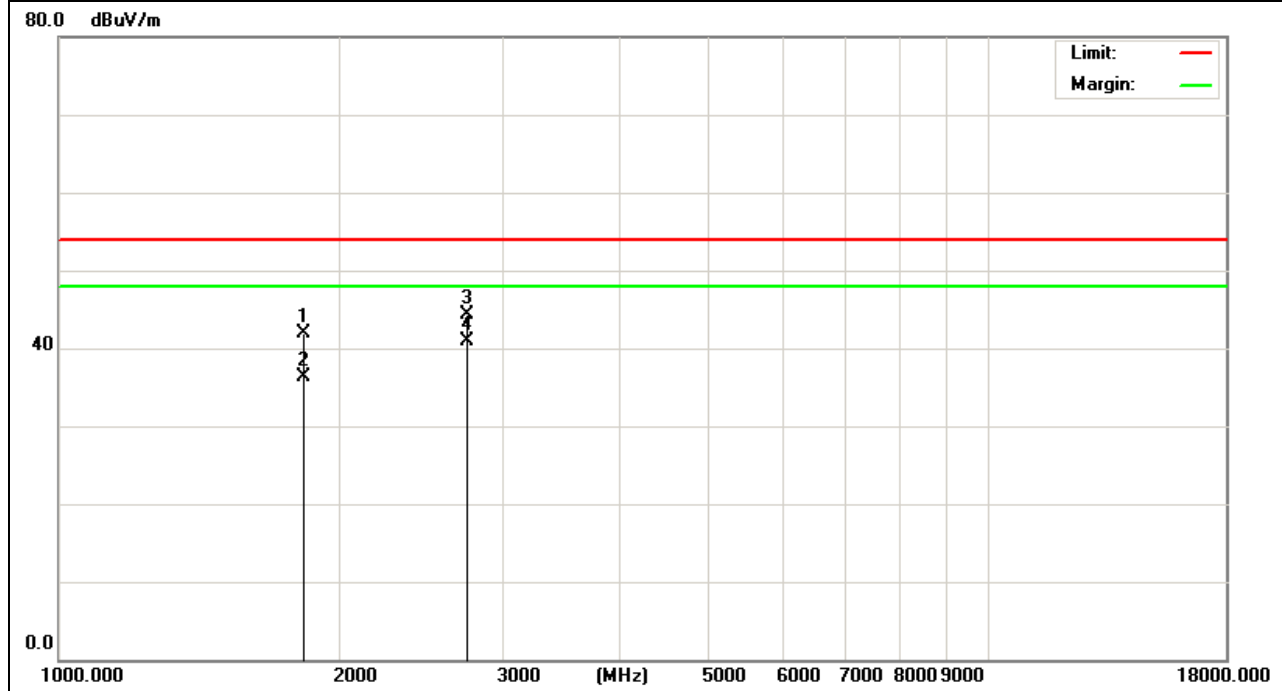
| | | | |
|---------------|---------------------------|---------------------|------------|
| EUT : | Wireless Floating Speaker | Model Name : | LIONFISH |
| Temperature : | 24 °C | Relative Humidity : | 54% |
| Pressure : | 1010 hPa | Test Date : | 2011-7-20 |
| Test Mode : | CH3 Aux input | Polarization : | Horizontal |
| Test Power : | DC 5V | | |

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| | | | | | | |
| 1830.28 | 13.50 | 28.36 | 41.86 | 54.00 | -12.14 | peak |
| 1830.28 | 7.92 | 28.36 | 36.28 | 54.00 | -17.72 | AVG |
| 2745.44 | 9.04 | 35.22 | 44.26 | 54.00 | -9.74 | peak |
| 2745.44 | 5.66 | 35.22 | 40.88 | 54.00 | -13.12 | AVG |

Remark:

3. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

4. No emission detected above 18GHz.

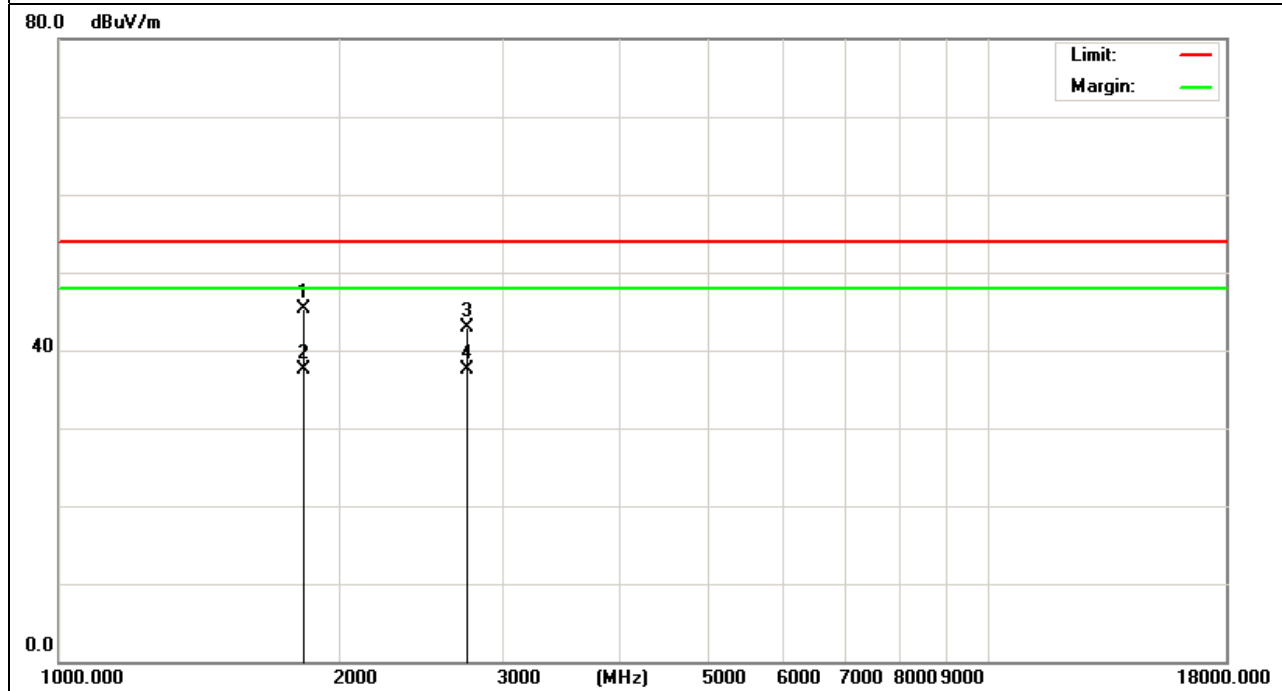


| | | | |
|---------------|---------------------------|---------------------|-----------|
| EUT : | Wireless Floating Speaker | Model Name : | LIONFISH |
| Temperature : | 24 °C | Relative Humidity : | 54% |
| Pressure : | 1010 hPa | Test Date : | 2011-7-20 |
| Test Mode : | CH3 Aux input | Polarization : | Vertical |
| Test Power : | DC 5V | | |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBμV) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | |
| 1830.13 | 16.93 | 28.35 | 45.28 | 54.00 | -8.72 | peak |
| 1830.13 | 9.16 | 28.35 | 37.51 | 54.00 | -16.49 | AVG |
| 2745.38 | 7.63 | 35.22 | 42.85 | 54.00 | -11.15 | peak |
| 2745.38 | 2.36 | 35.22 | 37.58 | 54.00 | -16.42 | AVG |

Remark:

3. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
4. No emission detected above 18GHz.



4. BANDWIDTH TEST

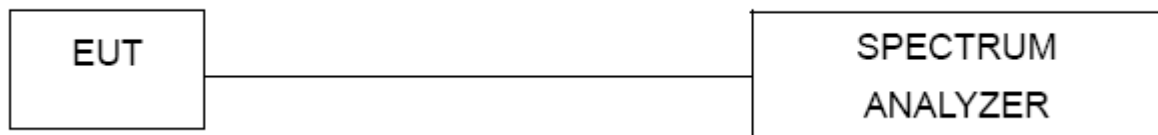
4.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 300KHz, VBW \geq RBW, Sweep time = Auto.

4.2 DEVIATION FROM STANDARD

No deviation.

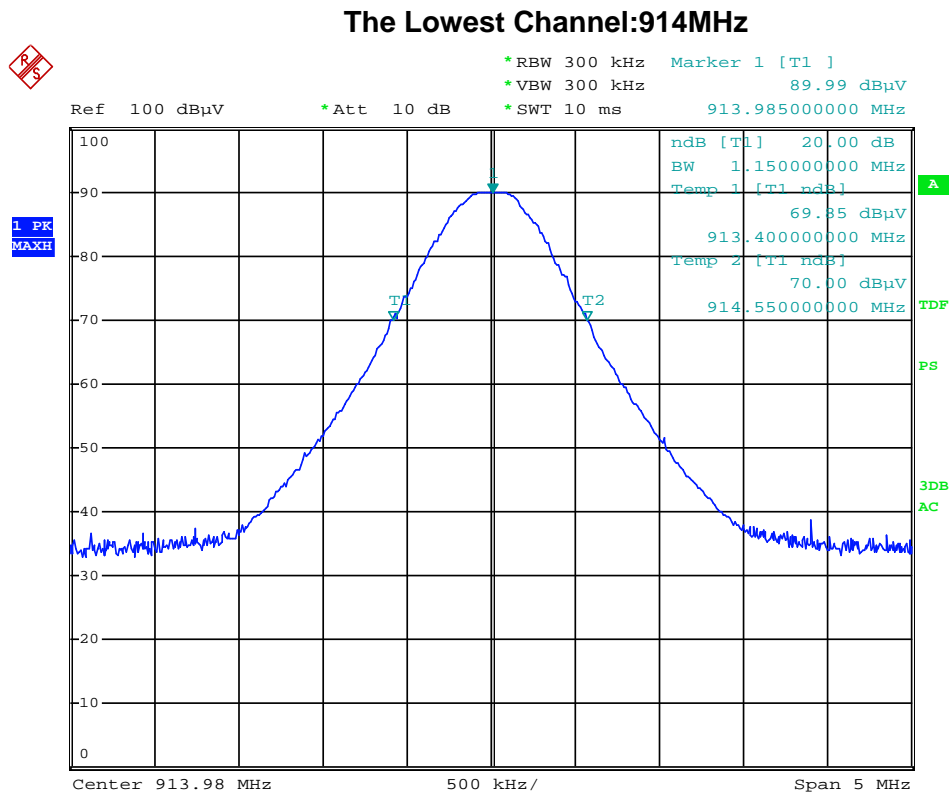
4.3 TEST SETUP



4.4 TEST RESULTS

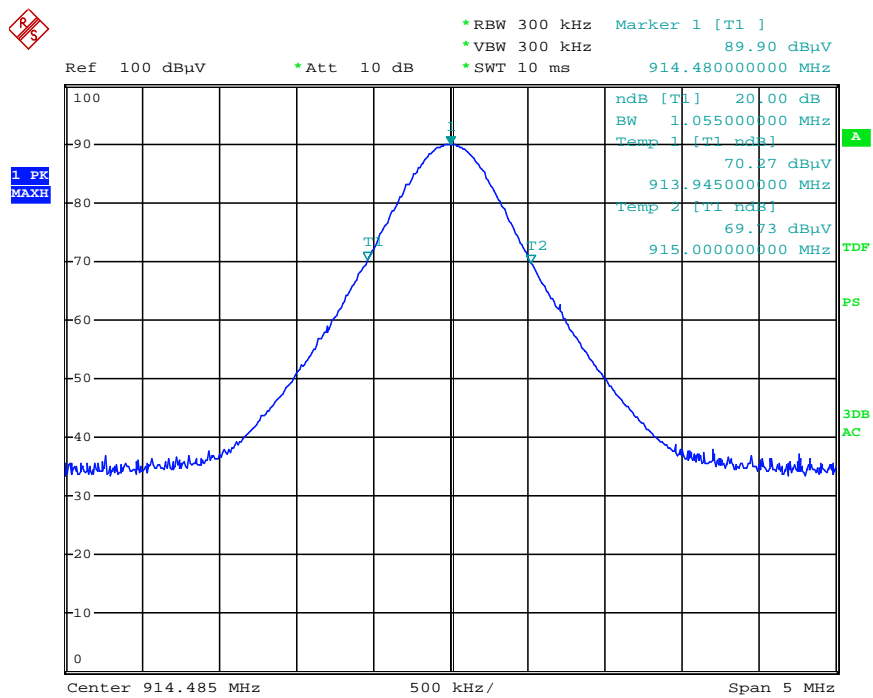
| | | | |
|---------------|---------------------------|---------------------|----------|
| EUT : | Wireless Floating Speaker | Model Name : | LIONFISH |
| Temperature : | 26 °C | Relative Humidity : | 53% |
| Pressure : | 1020 hPa | Test Power : | DC 5V |
| Test Mode : | TX CH 1/2/3 | | |

| Test Channel | Frequency (MHz) | 20 dBc Bandwidth (MHz) |
|--------------|-----------------|------------------------|
| CH1 | 914 | 1.150 |
| CH2 | 914.5 | 1.055 |
| CH3 | 915 | 1.155 |



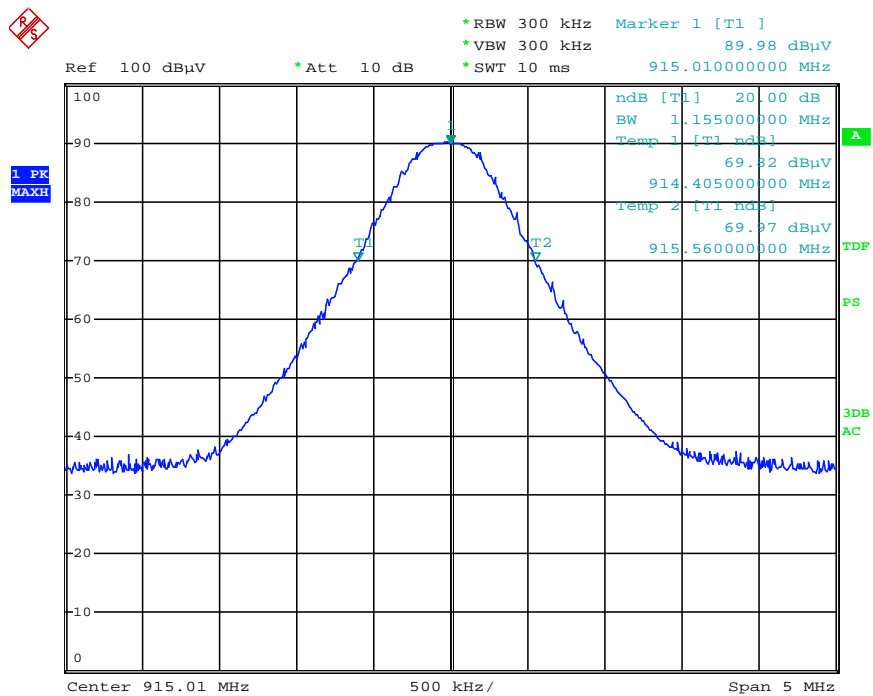
Date: 19.JUL.2011 14:14:12

The Middle Channel:914.5MHz



Date: 19.JUL.2011 14:15:17

The Middle Channel:915MHz



Date: 19.JUL.2011 14:16:09