# FCC CERTIFICATION
On Behalf of
Interactive Toy Concepts Limited

2.4G VECHICLE
Model No.: 425XXRX

FCC ID: RSD-425XXRX

| | | |
|---|---|---|
| Prepared for | : | Interactive Toy Concepts Limited |
| Address | : | Unit 709, 7/F., Tower 2, Cheung Sha Wan Plaza, No.833 Cheung Sha Wan Rd., Kowloon, Hong Kong |
| Prepared by | : | ACCURATE TECHNOLOGY CO. LTD |
| Address | : | F1, Bldg. A, Changyuan New Material Port, Keyuan Rd. Science & Industry Park, Nanshan, Shenzhen, Guangdong P.R. China<br><br>Tel: (0755) 26503290<br>Fax: (0755) 26503396 |

| | | |
|---|---|---|
| Report Number | : | ATE20140685 |
| Date of Test | : | May 6, 2014 |
| Date of Report | : | May 19, 2014 |

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APPENDIX I ( TEST CURVES) (27 pages)

# Test Report Certification

| | | |
|---|---|---|
| Applicant | : | Interactive Toy Concepts Limited |
| Manufacturer | : | Interactive Toy Concepts Limited |
| EUT Description | : | 2.4G VECHICLE |
| | | (A) MODEL NO.: 425XXRX |
| | | (B) POWER SUPPLY: DC 10.5V |

Measurement Procedure Used:

**FCC Rules and Regulations Part 15 Subpart C Section 15.249**
**ANSI C63.4: 2009**

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 C Section15.249 limits. 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 : May 6, 2014

Prepared by :

(Engineer)

Approved & Authorized Signer :

(Manager)

# 1. GENERAL INFORMATION

## 1.1.Description of Device (EUT)

| | | |
|---|---|---|
| EUT | : | 2.4G VECHICLE |
| Model Number | : | 425XXRX |
| Power Supply | : | DC 10.5V |
| Operate Frequency | : | 2405.000-2468.000MHz |
| Applicant | : | Interactive Toy Concepts Limited |
| Address | : | Unit 709, 7/F., Tower 2, Cheung Sha Wan Plaza, No.833 Cheung Sha Wan Rd., Kowloon, Hong Kong |
| Manufacturer | : | Interactive Toy Concepts Limited |
| Address | : | Unit 709, 7/F., Tower 2, Cheung Sha Wan Plaza, No.833 Cheung Sha Wan Rd., Kowloon, Hong Kong |
| Date of sample received | : | May 4, 2014 |
| Date of Test | : | May 6, 2014 |

## 1.2.Description of Test Facility

| | | |
|---|---|---|
| EMC Lab | : | Accredited by TUV Rheinland Shenzhen<br><br>Listed by FCC<br>The Registration Number is 752051<br><br>Listed by Industry Canada<br>The Registration Number is 5077A-2<br><br>Accredited by China National Accreditation Committee for Laboratories<br>The Certificate Registration Number is L3193 |
| Name of Firm | : | ACCURATE TECHNOLOGY CO. LTD |
| Site Location | : | F1, Bldg. A, Changyuan New Material Port, Keyuan Rd. Science & Industry Park, Nanshan, Shenzhen, Guangdong P.R. China |

## 1.3.Measurement Uncertainty

| | | |
|---|---|---|
| Conducted Emission Expanded Uncertainty | = | 2.23dB, k=2 |
| Radiated emission expanded uncertainty (9kHz-30MHz) | = | 3.08dB, k=2 |
| Radiated emission expanded uncertainty (30MHz-1000MHz) | = | 4.42dB, k=2 |
| Radiated emission expanded uncertainty (Above 1GHz) | = | 4.06dB, k=2 |

# 2. MEASURING DEVICE AND TEST EQUIPMENT

**Table 1: List of Test and Measurement Equipment**

| Kind of equipment | Manufacturer | Type | S/N | Calibrated date | Calibrated until |
|---|---|---|---|---|---|
| EMI Test Receiver | Rohde&Schwarz | ESCS30 | 100307 | Jan. 11, 2014 | Jan. 10, 2015 |
| EMI Test Receiver | Rohde&Schwarz | ESPI3 | 101526/003 | Jan. 11, 2014 | Jan. 10, 2015 |
| Spectrum Analyzer | Agilent | E7405A | MY45115511 | Jan. 11, 2014 | Jan. 10, 2015 |
| Pre-Amplifier | Rohde&Schwarz | CBLU1183540-01 | 3791 | Jan. 11, 2014 | Jan. 10, 2015 |
| Loop Antenna | Schwarzbeck | FMZB1516 | 1516131 | Jan. 15, 2014 | Jan. 14, 2015 |
| Bilog Antenna | Schwarzbeck | VULB9163 | 9163-323 | Jan. 15, 2014 | Jan. 14, 2015 |
| Horn Antenna | Schwarzbeck | BBHA9120D | 9120D-655 | Jan. 15, 2014 | Jan. 14, 2015 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 9170-359 | Jan. 15, 2014 | Jan. 14, 2015 |
| LISN | Rohde&Schwarz | ESH3-Z5 | 100305 | Jan. 11, 2014 | Jan. 10, 2015 |
| LISN | Schwarzbeck | NSLK8126 | 8126431 | Jan. 11, 2014 | Jan. 10, 2015 |

# 3. SUMMARY OF TEST RESULTS

| **FCC Rules** | **Description of Test** | **Result** |
|---|---|---|
| Section 15.207 | Conducted Emission | Compliant |
| Section 15.249(a) | Fundamental and Harmonics Radiated Emission | Compliant |
| Section 15.249(d) | Spurious Radiated Emission | Compliant |
| Section 15.249(d) | Band Edge | Compliant |
| Section 15.203 | Antenna Requirement | Compliant |
| Section 15.207 | AC Power Line Conducted Emission Test | N/A |

Remark: “N/A” means “Not applicable”.

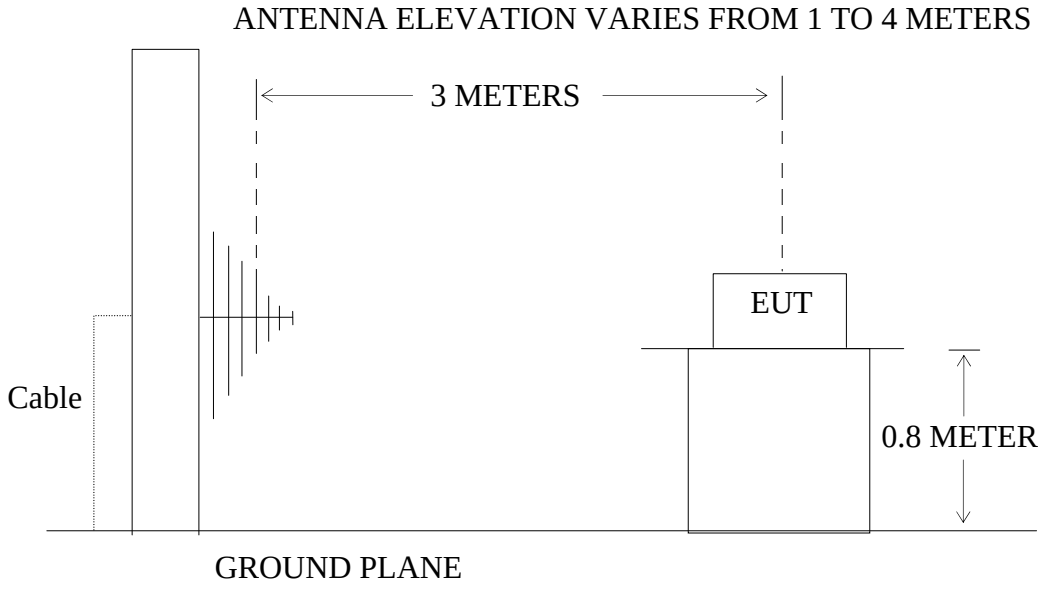
# 4. FUNDAMENTAL AND HARMONICS RADIATED EMISSION FOR SECTION 15.249(A)

## 4.1.Block Diagram of Test Setup

### 4.1.1.Block diagram of connection between the EUT and simulators

(EUT: 2.4G VECHICLE)

### 4.1.2.Semi-Anechoic Chamber Test Setup Diagram




(EUT: 2.4G VECHICLE)

## 4.2.The Emission Limit

4.2.1.For intentional radiators, According to section 15.249(a), Operation within the frequency band of 2.4 to 2.4835GHz, The fundamental field strength shall not exceed 94 dBμV/m and the harmonics shall not exceed 54 dBμV/m.

| Fundamental Frequency | Field Strength of Fundamental (millivolts/meter) | Field Strength of harmonics (microvolts/meter) |
|---|---|---|
| 902-928MHz | 50 | 500 |
| 2400-2483.5MHz | 50 | 500 |
| 5725-5875MHz | 50 | 500 |
| 24.0-24.25GHz | 250 | 2500 |

4.2.2.According to section 15.249(e), as shown in section 15.35(b), the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

## 4.3.Configuration of EUT on Measurement

The following equipment are 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.

4.3.1. 2.4G VECHICLE (EUT)

Model Number : 425XXRX
Serial Number : N/A
Manufacturer : Interactive Toy Concepts Limited

## 4.4.Operating Condition of EUT

4.4.1.Setup the EUT and simulator as shown as Section 4.1.

4.4.2.Turn on the power of all equipment.

4.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2405.000-2468.000MHz. We are select 2405.000MHz, 2442.000MHz, 2468.000MHz TX frequency to transmit.

## 4.5. 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 bi-log 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: 2009 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The bandwidth of test receiver is set at 120kHz in 30-1000MHz. and set at 1MHz in above 1000MHz.

The frequency range from 30MHz to 25000MHz is checked.

## 4.6.The Field Strength of Radiation Emission Measurement Results

**PASS.**

| | | | |
|---|---|---|---|
| Date of Test: | May 6, 2014 | Temperature: | 25°C |
| EUT: | 2.4G VECHICLE | Humidity: | 50% |
| Model No.: | 425XXRX | Power Supply: | DC 10.5V |
| Test Mode: | TX 2405.000MHz | Test Engineer: | Pei |

**Fundamental Radiated Emissions**

| Frequency (MHz) | Reading(dBμV/m) | | Factor(dB) Corr. | Result(dBμV/m) | | Limit(dBμV/m) | | Margin(dB) | | Polarization |
|---|---|---|---|---|---|---|---|---|---|---|
| | AV | PEAK | | AV | PEAK | AV | PEAK | AV | PEAK | |
| 2405.000 | 89.15 | 96.91 | -6.75 | 82.40 | 90.16 | 94.00 | 114.00 | -11.60 | -23.84 | Vertical |
| 2405.000 | 92.87 | 100.10 | -6.75 | 86.12 | 93.35 | 94.00 | 114.00 | -7.88 | -20.65 | Horizontal |

**Harmonics Radiated Emissions**

| Frequency (MHz) | Reading(dBμV/m) | | Factor(dB) Corr. | Result(dBμV/m) | | Limit(dBμV/m) | | Margin(dB) | | Polarization |
|---|---|---|---|---|---|---|---|---|---|---|
| | AV | PEAK | | AV | PEAK | AV | PEAK | AV | PEAK | |
| 4810.000 | 52.36 | 57.73 | -1.59 | 50.77 | 56.14 | 54.00 | 74.00 | -3.23 | -17.86 | Vertical |
| 7215.000 | 47.52 | 52.32 | 1.30 | 48.82 | 53.62 | 54.00 | 74.00 | -5.18 | -20.38 | Vertical |
| 4810.000 | 50.10 | 56.61 | -1.59 | 48.51 | 55.02 | 54.00 | 74.00 | -5.49 | -18.98 | Horizontal |
| 7215.000 | 45.27 | 50.32 | 1.30 | 46.57 | 51.62 | 54.00 | 74.00 | -7.43 | -22.38 | Horizontal |

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

   Result = Reading + Corrected Factor

   Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain
3. The spectral diagrams in appendix I display the measurement of peak values.

| | | | |
|---|---|---|---|
| Date of Test: | May 6, 2014 | Temperature: | 25°C |
| EUT: | 2.4G VECHICLE | Humidity: | 50% |
| Model No.: | 425XXRX | Power Supply: | DC 10.5V |
| Test Mode: | TX 2442.000MHz | Test Engineer: | Pei |

**Fundamental Radiated Emissions**

| Frequency (MHz) | Reading(dBμV/m) | | Factor(dB) Corr. | Result(dBμV/m) | | Limit(dBμV/m) | | Margin(dB) | | Polarization |
|---|---|---|---|---|---|---|---|---|---|---|
| | AV | PEAK | | AV | PEAK | AV | PEAK | AV | PEAK | |
| 2442.000 | 92.74 | 99.68 | -6.64 | 86.10 | 93.04 | 94.00 | 114.00 | -7.90 | -20.60 | Vertical |
| 2442.000 | 93.57 | 101.75 | -6.64 | 86.93 | 95.11 | 94.00 | 114.00 | -7.07 | -18.89 | Horizontal |

**Harmonics Radiated Emissions**

| Frequency (MHz) | Reading(dBμV/m) | | Factor(dB) Corr. | Result(dBμV/m) | | Limit(dBμV/m) | | Margin(dB) | | Polarization |
|---|---|---|---|---|---|---|---|---|---|---|
| | AV | PEAK | | AV | PEAK | AV | PEAK | AV | PEAK | |
| 4884.000 | 51.80 | 57.36 | -1.34 | 50.46 | 56.02 | 54.00 | 74.00 | -3.54 | -17.98 | Vertical |
| 7326.000 | 46.00 | 50.43 | 1.40 | 47.40 | 51.83 | 54.00 | 74.00 | -6.60 | -22.17 | Vertical |
| 4884.000 | 49.78 | 55.87 | -1.34 | 48.44 | 54.53 | 54.00 | 74.00 | -5.56 | -19.47 | Horizontal |
| 7326.000 | 44.96 | 50.09 | 1.40 | 46.36 | 51.49 | 54.00 | 74.00 | -7.64 | -22.51 | Horizontal |

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

   Result = Reading + Corrected Factor

   Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain
3. The spectral diagrams in appendix I display the measurement of peak values.

| | | | |
|---|---|---|---|
| Date of Test: | May 6, 2014 | Temperature: | 25°C |
| EUT: | 2.4G VECHICLE | Humidity: | 50% |
| Model No.: | 425XXRX | Power Supply: | DC 10.5V |
| Test Mode: | TX 2468.000MHz | Test Engineer: | Pei |

**Fundamental Radiated Emissions**

| Frequency (MHz) | Reading(dBμV/m) | | Factor(dB) Corr. | Result(dBμV/m) | | Limit(dBμV/m) | | Margin(dB) | | Polarization |
|---|---|---|---|---|---|---|---|---|---|---|
| | AV | PEAK | | AV | PEAK | AV | PEAK | AV | PEAK | |
| 2468.000 | 93.10 | 100.12 | -6.57 | 86.53 | 93.55 | 94.00 | 114.00 | -7.47 | -20.45 | Vertical |
| 2468.000 | 92.68 | 100.49 | -6.57 | 86.11 | 93.92 | 94.00 | 114.00 | -7.89 | -20.08 | Horizontal |

**Harmonics Radiated Emissions**

| Frequency (MHz) | Reading(dBμV/m) | | Factor(dB) Corr. | Result(dBμV/m) | | Limit(dBμV/m) | | Margin(dB) | | Polarization |
|---|---|---|---|---|---|---|---|---|---|---|
| | AV | PEAK | | AV | PEAK | AV | PEAK | AV | PEAK | |
| 4936.000 | 51.14 | 56.46 | -1.18 | 49.96 | 55.28 | 54.00 | 74.00 | -4.04 | -18.72 | Vertical |
| 7404.000 | 45.10 | 50.31 | 1.47 | 46.57 | 51.78 | 54.00 | 74.00 | -7.43 | -22.22 | Vertical |
| 4936.000 | 52.69 | 58.41 | -1.18 | 51.51 | 57.23 | 54.00 | 74.00 | -2.49 | -16.77 | Horizontal |
| 7404.000 | 47.63 | 53.89 | 1.47 | 49.10 | 55.36 | 54.00 | 74.00 | -4.90 | -18.64 | Horizontal |

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

   Result = Reading + Corrected Factor

   Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain
3. The spectral diagrams in appendix I display the measurement of peak values.

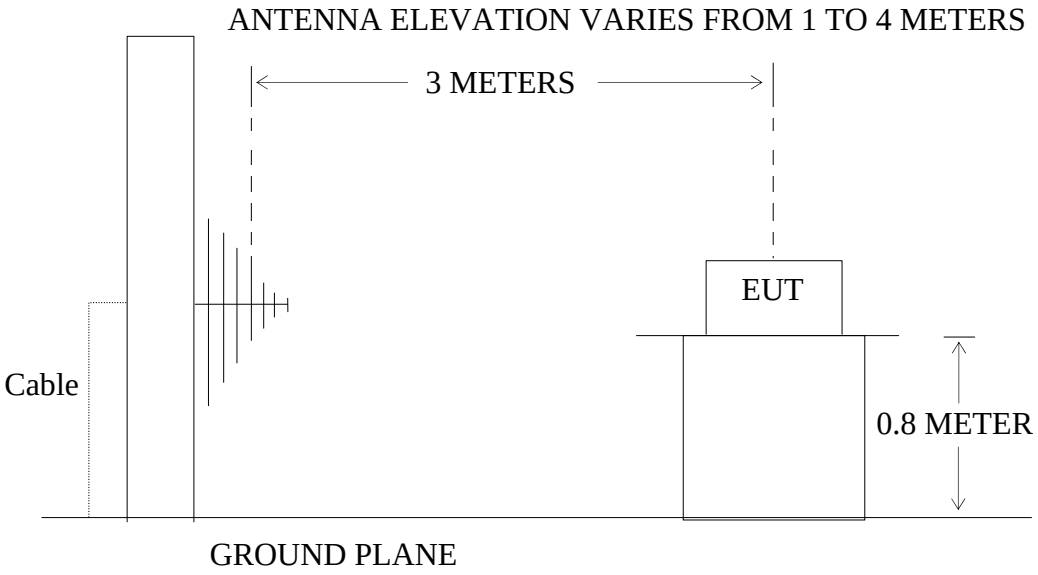
# 5. SPURIOUS RADIATED EMISSION FOR SECTION 15.249(D)

## 5.1.Block Diagram of Test Setup

### 5.1.1.Block diagram of connection between the EUT and simulators

(EUT: 2.4G VECHICLE)

### 5.1.2.Semi-Anechoic Chamber Test Setup Diagram




(EUT: 2.4G VECHICLE)

## 5.2.The Emission Limit For Section 15.249(d)

### 5.2.1.Emission radiated outside of the specified frequency bands, except for harmonics, shall be comply with the general radiated emission limits in Section 15.209.

Radiation Emission Measurement Limits According to Section 15.209

| Frequency (MHz) | Limit | | |
|---|---|---|---|
| | Field Strength (microvolts/meter) | Measurement Distance (meters) | The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Average detector. |
| 0.009 – 0.490 | 2400/F(kHz) | 300 | |

| | | | |
|---|---|---|---|
| 0.490 – 1.705 | 24000/F(kHz) | 30 | Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector. |
| 1.705 – 30.0 | 30 | 30 | |
| 30 - 88 | 100 | 3 | |
| 88 - 216 | 150 | 3 | |
| 216 - 960 | 200 | 3 | |
| Above 960 | 500 | 3 | |

## 5.3.EUT Configuration on Measurement

The following equipment are installed on the 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. 2.4G VECHICLE (EUT)

Model Number : 425XXRX
Serial Number : N/A
Manufacturer : Interactive Toy Concepts Limited

## 5.4.Operating Condition of EUT

5.4.1.Setup the EUT and simulator as shown as Section 5.1.

5.4.2.Turn on the power of all equipment.

5.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2405.000-2468.000MHz. We are select 2405.000MHz, 2442.000MHz, 2468.000MHz TX frequency to transmit.

## 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: 2009 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The bandwidth of test receiver is set at 9kHz in below 30MHz. and set at 120kHz in 30-1000MHz, and 1MHz in above 1000MHz.

The frequency range from 9kHz to 25GHz is checked.

The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

## 5.6.The Emission Measurement Result

**PASS.**

| | | | |
|---|---|---|---|
| Date of Test: | May 6, 2014 | Temperature: | 25°C |
| EUT: | 2.4G VECHICLE | Humidity: | 50% |
| Model No.: | 425XXRX | Power Supply: | DC 10.5V |
| Test Mode: | TX 2405.000MHz | Test Engineer: | Pei |

30MHz-25GHz

| Frequency (MHz) | Reading (dBμV/m) | Factor(dB) Corr. | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
|---|---|---|---|---|---|---|
| | QP | | QP | QP | QP | |
| 119.8555 | 47.91 | -22.52 | 25.39 | 43.50 | -18.11 | Vertical |
| 360.4476 | 40.58 | -15.92 | 24.66 | 46.00 | -21.34 | |
| 768.7481 | 39.96 | -8.30 | 31.66 | 46.00 | -14.34 | |
| 228.4903 | 50.45 | -19.87 | 30.58 | 46.00 | -15.42 | Horizontal |
| 360.4476 | 52.29 | -15.92 | 36.37 | 46.00 | -9.63 | |
| 768.7481 | 39.81 | -8.30 | 31.51 | 46.00 | -14.49 | |

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

   Result = Reading + Corrected Factor

   Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain
3. The spectral diagrams in appendix I display the measurement of peak values.

| | | | |
|---|---|---|---|
| Date of Test: | May 6, 2014 | Temperature: | 25°C |
| EUT: | 2.4G VECHICLE | Humidity: | 50% |
| Model No.: | 425XXRX | Power Supply: | DC 10.5V |
| Test Mode: | TX 2442.000MHz | Test Engineer: | Pei |

30MHz-25GH

| Frequency (MHz) | Reading (dBμV/m) | Factor(dB) Corr. | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
|---|---|---|---|---|---|---|
| | QP | | QP | QP | QP | |
| 119.8555 | 47.67 | -22.52 | 25.15 | 43.50 | -18.35 | Vertical |
| 360.44763 | 41.03 | -15.92 | 25.11 | 46.00 | -20.89 | |
| 768.7481 | 39.55 | -8.30 | 31.25 | 46.00 | -14.75 | |
| 228.4903 | 50.55 | -19.87 | 30.68 | 46.00 | -15.32 | Horizontal |
| 360.4476 | 51.90 | -15.92 | 35.98 | 46.00 | -10.02 | |
| 793.3958 | 38.48 | -7.87 | 30.61 | 46.00 | -15.39 | |

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

   Result = Reading + Corrected Factor

   Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain
3. The spectral diagrams in appendix I display the measurement of peak values.

| | | | |
|---|---|---|---|
| Date of Test: | May 6, 2014 | Temperature: | 25°C |
| EUT: | 2.4G VECHICLE | Humidity: | 50% |
| Model No.: | 425XXRX | Power Supply: | DC 10.5V |
| Test Mode: | TX 2468.000MHz | Test Engineer: | Pei |

30MHz-25GH

| Frequency (MHz) | Reading (dBμV/m) | Factor(dB) Corr. | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
|---|---|---|---|---|---|---|
| | QP | | QP | QP | QP | |
| 119.8555 | 47.50 | -22.52 | 24.98 | 43.50 | -18.52 | Vertical |
| 360.4476 | 41.39 | -15.92 | 25.47 | 46.00 | -20.53 | |
| 768.7481 | 39.35 | -8.30 | 31.05 | 46.00 | -14.95 | |
| 228.4903 | 50.23 | -19.87 | 30.36 | 46.00 | -15.64 | Horizontal |
| 360.4476 | 52.47 | -15.92 | 36.55 | 46.00 | -9.45 | |
| 768.7481 | 38.90 | -8.30 | 30.60 | 46.00 | -15.40 | |

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

   Result = Reading + Corrected Factor

   Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain
3. The spectral diagrams in appendix I display the measurement of peak values.

# 6. BAND EDGES

## 6.1.The Requirement

6.1.1.Band Edge from 2400MHz to 2483.5MHz. Emission 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.

## 6.2.EUT Configuration on Measurement

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

6.2.1. 2.4G VECHICLE (EUT)

| | | |
|---|---|---|
| Model Number | : | 425XXRX |
| Serial Number | : | N/A |
| Manufacturer | : | Interactive Toy Concepts Limited |

## 6.3.Operating Condition of EUT

6.3.1.Setup the EUT and simulator as shown as Section 4.1.

6.3.2.Turn on the power of all equipment.

6.3.3. Let the EUT work in TX modes measure it. The transmit frequency are 2405.000-2468.000MHz MHz. We are select 2405.000MHz, 2468.000MHz TX frequency to transmit.

## 6.4.Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
   RBW=1MHz, VBW=1MHz

## 6.5.The Measurement Result

**Pass.**

| | | | |
|---|---|---|---|
| Date of Test: | May 6, 2014 | Temperature: | 25°C |
| EUT: | 2.4G VECHICLE | Humidity: | 50% |
| Model No.: | 425XXRX | Power Supply: | DC 10.5V |
| Test Mode: | TX 2405.000MHz | Test Engineer: | Pei |

| Frequency (MHz) | Reading(dBμV/m) | | Factor(dB) Corr. | Result(dBμV/m) | | Limit(dBμV/m) | | Margin(dB) | | Polarization |
|---|---|---|---|---|---|---|---|---|---|---|
| | AV | PEAK | | AV | PEAK | AV | PEAK | AV | PEAK | |
| 2310.000 | 36.14 | 43.14 | -6.99 | 29.15 | 36.15 | 54.00 | 74.00 | -24.85 | -37.85 | Vertical |
| 2390.000 | 34.50 | 41.80 | -6.78 | 27.72 | 35.02 | 54.00 | 74.00 | -26.28 | -38.98 | Vertical |
| 2310.000 | 35.17 | 42.91 | -6.99 | 28.18 | 35.92 | 54.00 | 74.00 | -25.82 | -38.08 | Horizontal |
| 2390.000 | 36.20 | 42.87 | -6.78 | 29.42 | 36.09 | 54.00 | 74.00 | -24.58 | -37.91 | Horizontal |

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

   Result = Reading + Corrected Factor

   Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain
3. The spectral diagrams in appendix I display the measurement of peak values.

| | | | |
|---|---|---|---|
| Date of Test: | May 6, 2014 | Temperature: | 25°C |
| EUT: | 2.4G VECHICLE | Humidity: | 50% |
| Model No.: | 425XXRX | Power Supply: | DC 10.5V |
| Test Mode: | TX 2468.000MHz | Test Engineer: | Pei |

| Frequency (MHz) | Reading(dBμV/m) | | Factor(dB) Corr. | Result(dBμV/m) | | Limit(dBμV/m) | | Margin(dB) | | Polarization |
|---|---|---|---|---|---|---|---|---|---|---|
| | AV | PEAK | | AV | PEAK | AV | PEAK | AV | PEAK | |
| 2483.500 | 36.51 | 43.40 | -6.54 | 29.97 | 36.86 | 54.00 | 74.00 | -24.03 | -37.14 | Vertical |
| 2500.000 | 37.90 | 43.21 | -6.50 | 31.40 | 36.71 | 54.00 | 74.00 | -22.60 | -37.29 | Vertical |
| 2483.500 | 37.60 | 43.68 | -6.54 | 31.06 | 37.14 | 54.00 | 74.00 | -22.94 | -36.86 | Horizontal |
| 2500.000 | 36.90 | 43.13 | -6.50 | 30.40 | 36.63 | 54.00 | 74.00 | -23.60 | -37.37 | Horizontal |

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

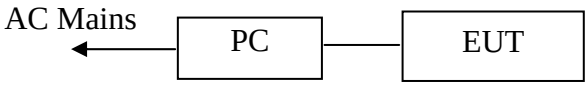
   Result = Reading + Corrected Factor

   Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain
3. The spectral diagrams in appendix I display the measurement of peak values.

# 7. AC POWER LINE CONDUCTED EMISSION FOR FCC PART 15 SECTION 15.207(A)

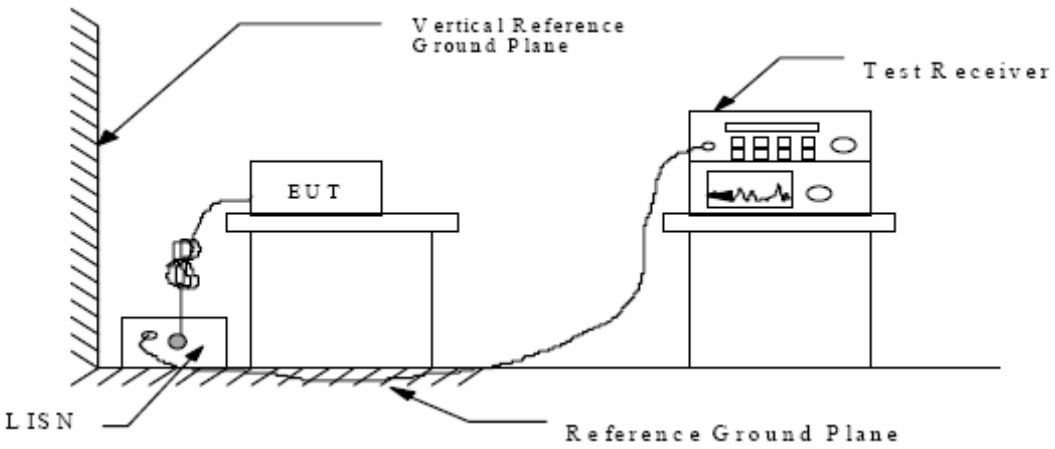
## 7.1.Block Diagram of Test Setup

### 7.1.1.Block diagram of connection between the EUT and simulators




(EUT: 2.4G VECHICLE)

### 7.1.2.Shielding Room Test Setup Diagram




(EUT: 2.4G VECHICLE)

## 7.2.The Emission Limit

### 7.2.1.Conducted Emission Measurement Limits According to Section 15.207(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.

## 7.3. Configuration of EUT on Measurement

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

7.3.1.2.4G VECHICLE (EUT)

| | | |
|---|---|---|
| Model Number | : | 425XXRX |
| Serial Number | : | N/A |
| Manufacturer | : | Interactive Toy Concepts Limited |

## 7.4. Operating Condition of EUT

7.4.1. Setup the EUT and simulator as shown as Section 7.1.

7.4.2. Turn on the power of all equipment.

7.4.3. Let the EUT work in charging mode measure it.

## 7.5. 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: 2003 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.

## 7.6. Power Line Conducted Emission Measurement Results

There is no connection to AC mains. Therefore, the test is not applicable and skipped.

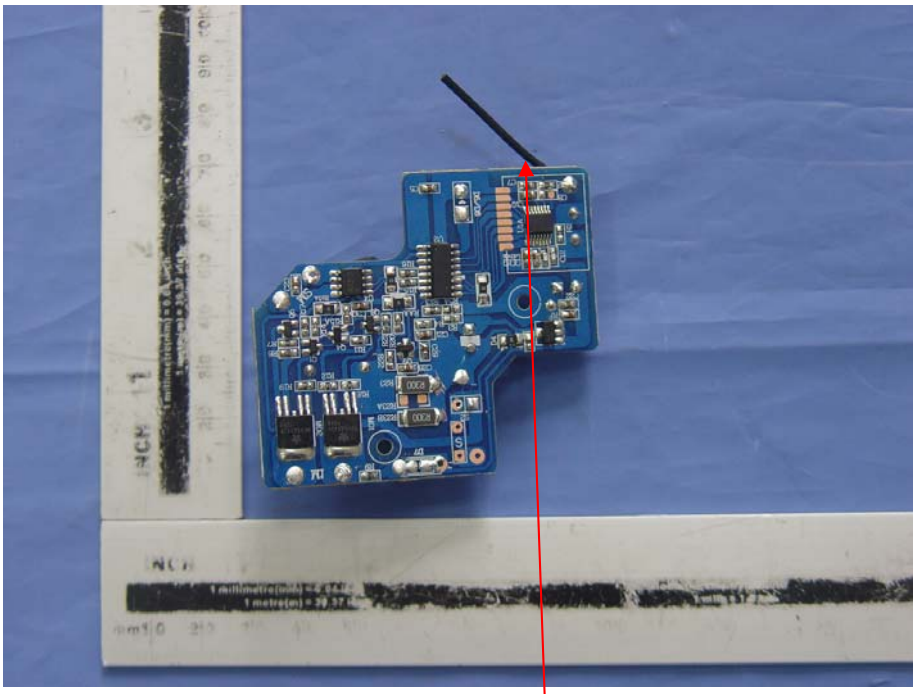
# 8. ANTENNA REQUIREMENT

## 8.1. The Requirement

8.1.1. According to Section 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.

## 8.2. Antenna Construction

Device is equipped with unique antenna, which isn't displaced by other antenna. Therefore, the equipment complies with the antenna requirement of Section 15.203.



**Antenna**

# APPENDIX I
# (Test Curves)

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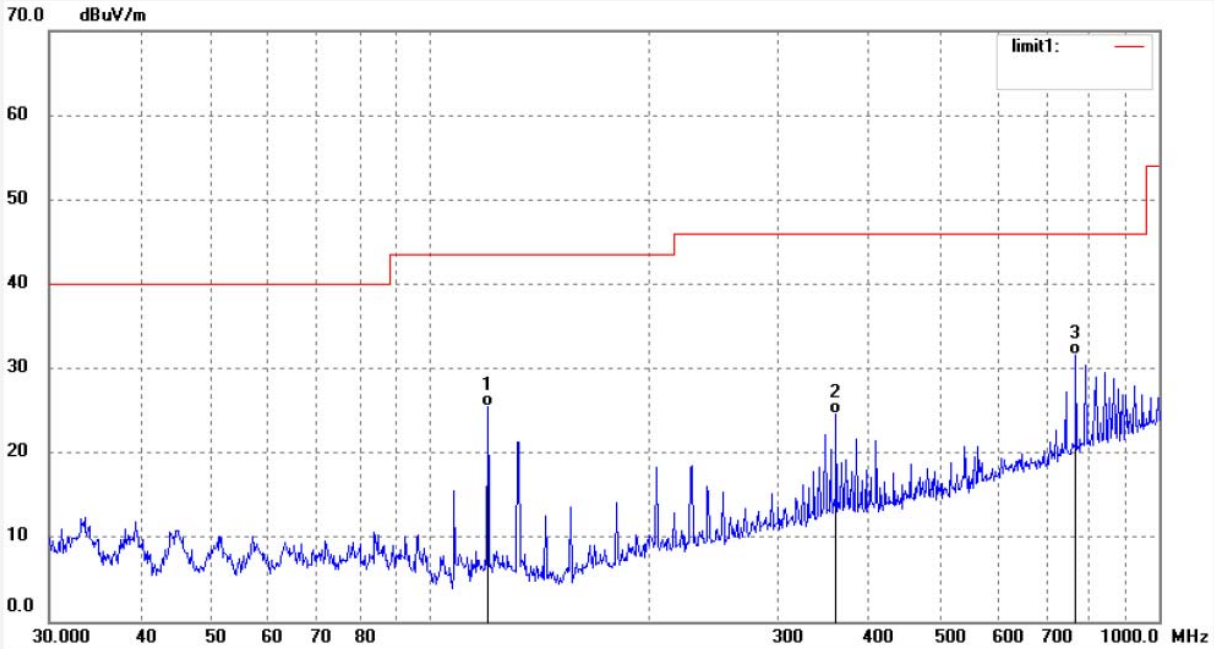
| | |
|---|---|
| Job No.: star2014 #261 | Polarization: Vertical |
| Standard: FCC PART 15B 3M Radiated | Power Source: DC 10.5V |
| Test item: Radiation Test | Date: 14/05/06/ |
| Temp.( C)/Hum.(%) 25 C / 55 % | Time: 17/10/38 |
| EUT: 2.4G VECHICLE | Engineer Signature: STAR |
| Mode: TX 2405MHz | Distance: 3m |
| Model: 425XXRX | |
| Manufacturer: Interactive | |

Note: Report No.:ATE20140685




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 119.8555 | 47.91 | -22.52 | 25.39 | 43.50 | -18.11 | QP | | | |
| 2 | 360.4476 | 40.58 | -15.92 | 24.66 | 46.00 | -21.34 | QP | | | |
| 3 | 768.7481 | 39.96 | -8.30 | 31.66 | 46.00 | -14.34 | QP | | | |

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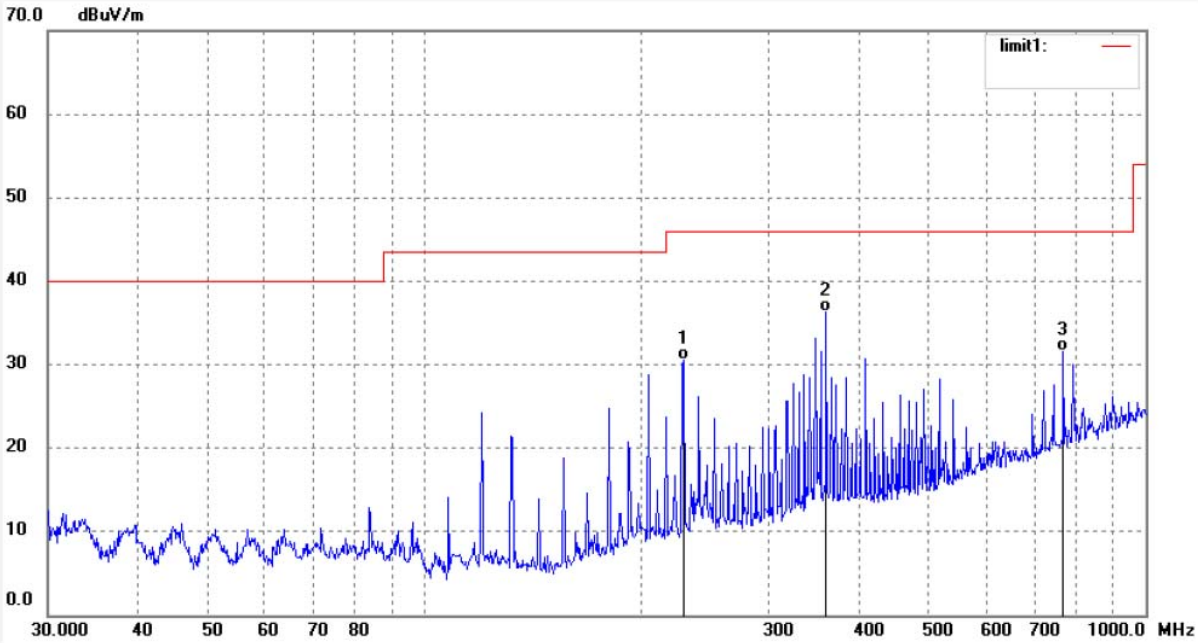
| | |
|---|---|
| Job No.: star2014 #262 | Polarization: Horizontal |
| Standard: FCC PART 15B 3M Radiated | Power Source: DC 10.5V |
| Test item: Radiation Test | Date: 14/05/06/ |
| Temp.( C)/Hum.(%) 25 C / 55 % | Time: 17/13/18 |
| EUT: 2.4G VECHICLE | Engineer Signature: STAR |
| Mode: TX 2405MHz | Distance: 3m |
| Model: 425XXRX | |
| Manufacturer: Interactive | |

Note: Report No.:ATE20140685




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 228.4903 | 50.45 | -19.87 | 30.58 | 46.00 | -15.42 | QP | | | |
| 2 | 360.4476 | 52.29 | -15.92 | 36.37 | 46.00 | -9.63 | QP | | | |
| 3 | 768.7481 | 39.81 | -8.30 | 31.51 | 46.00 | -14.49 | QP | | | |

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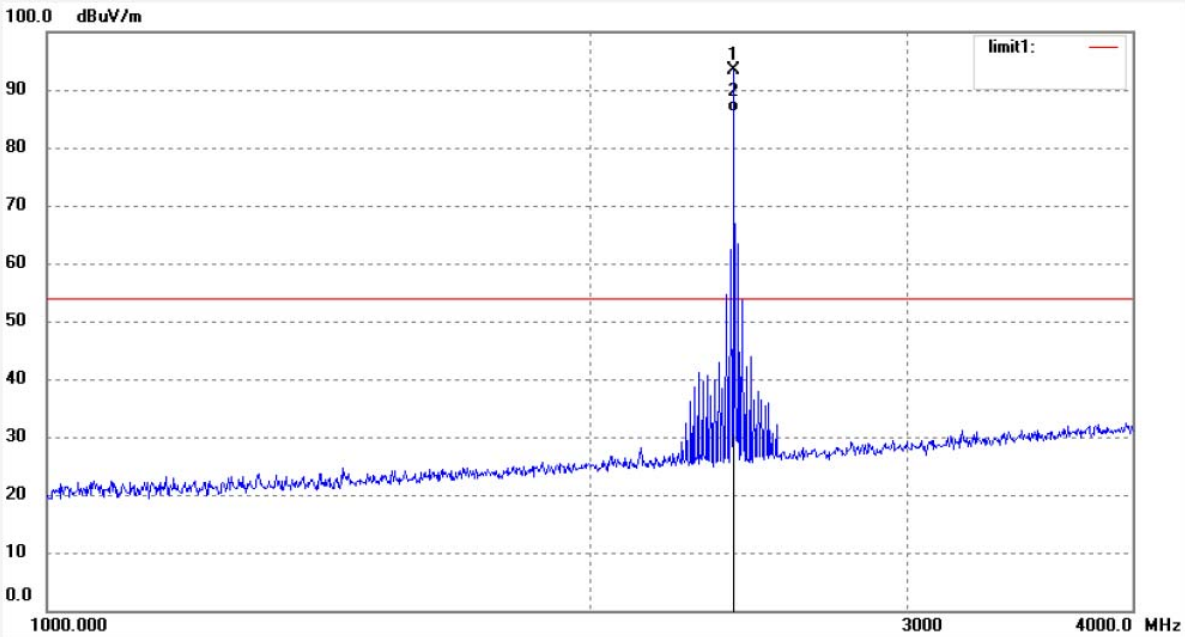
| | |
|---|---|
| Job No.: star2014 #273 | Polarization: Horizontal |
| Standard: FCC PART 15B 3M Radiated | Power Source: DC 10.5V |
| Test item: Radiation Test | Date: 14/05/06/ |
| Temp.( C)/Hum.(%) 25 C / 55 % | Time: 17/56/55 |
| EUT: 2.4G VECHICLE | Engineer Signature: STAR |
| Mode: TX 2405MHz | Distance: 3m |
| Model: 425XXRX | |
| Manufacturer: Interactive | |

Note: Report No.:ATE20140685




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2405.000 | 100.10 | -6.75 | 93.35 | 114.00 | -20.65 | peak | | | |
| 2 | 2405.000 | 92.87 | -6.75 | 86.12 | 94.00 | -7.88 | AVG | | | |

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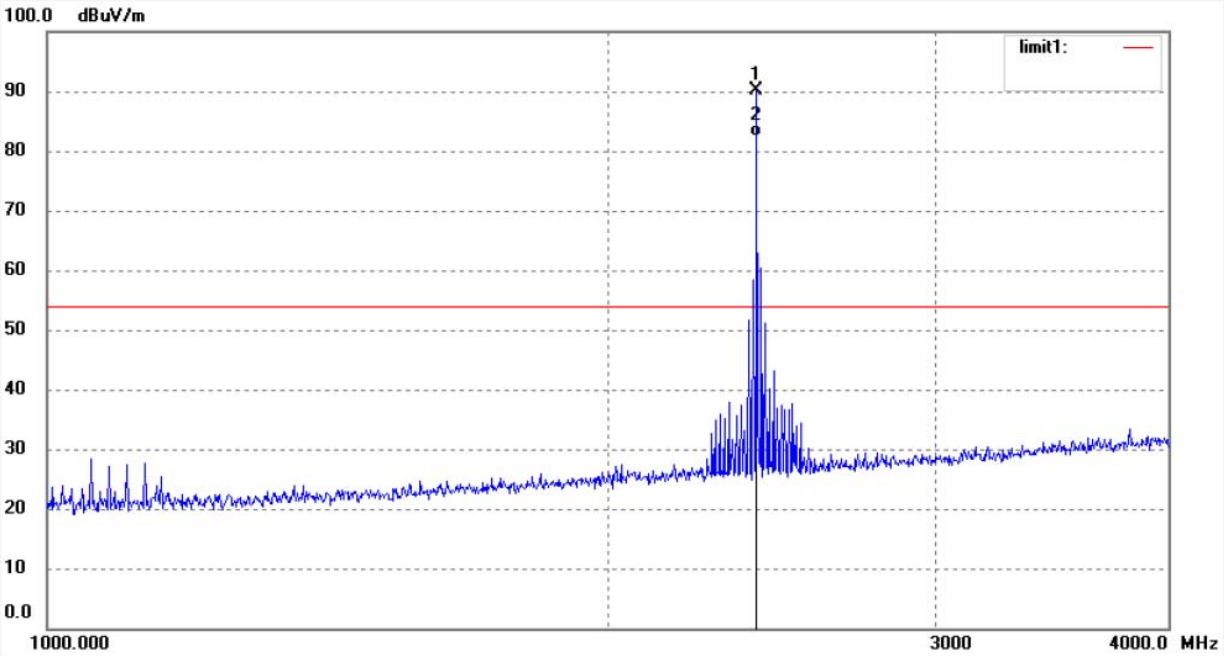
| | |
|---|---|
| Job No.: star2014 #274 | Polarization: Vertical |
| Standard: FCC PART 15B 3M Radiated | Power Source: DC 10.5V |
| Test item: Radiation Test | Date: 14/05/06/ |
| Temp.( C)/Hum.(%) 25 C / 55 % | Time: 17/59/54 |
| EUT: 2.4G VECHICLE | Engineer Signature: STAR |
| Mode: TX 2405MHz | Distance: 3m |
| Model: 425XXRX | |
| Manufacturer: Interactive | |

Note: Report No.:ATE20140685




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2405.000 | 96.91 | -6.75 | 90.16 | 114.00 | -23.84 | peak | | | |
| 2 | 2405.000 | 89.15 | -6.75 | 82.40 | 94.00 | -11.60 | AVG | | | |

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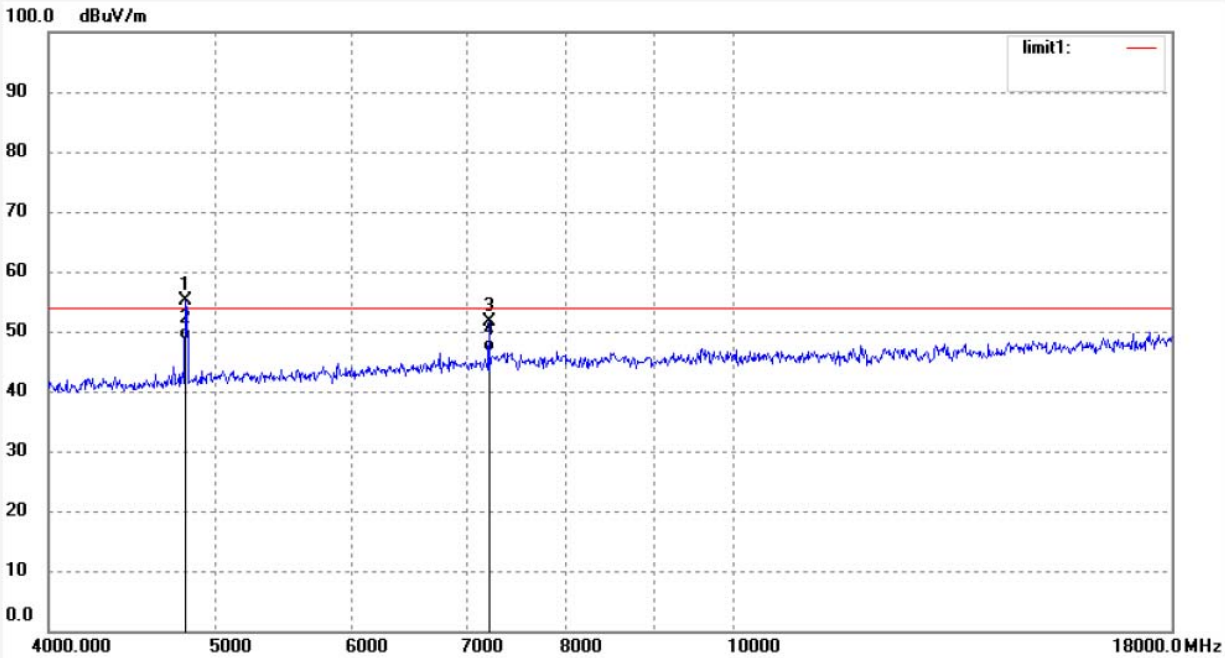
| | |
|---|---|
| Job No.: star2014 #283 | Polarization: Horizontal |
| Standard: FCC PART 15B 3M Radiated | Power Source: DC 10.5V |
| Test item: Radiation Test | Date: 14/05/06/ |
| Temp.( C)/Hum.(%) 25 C / 55 % | Time: 18/34/45 |
| EUT: 2.4G VECHICLE | Engineer Signature: STAR |
| Mode: TX 2405MHz | Distance: 3m |
| Model: 425XXRX | |
| Manufacturer: Interactive | |

Note: Report No.:ATE20140685




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 4810.000 | 56.61 | -1.59 | 55.02 | 74.00 | -18.98 | peak | | | |
| 2 | 4810.000 | 50.10 | -1.59 | 48.51 | 54.00 | -5.49 | AVG | | | |
| 3 | 7215.000 | 50.32 | 1.30 | 51.62 | 74.00 | -22.38 | peak | | | |
| 4 | 7215.000 | 45.27 | 1.30 | 46.57 | 54.00 | -7.43 | AVG | | | |

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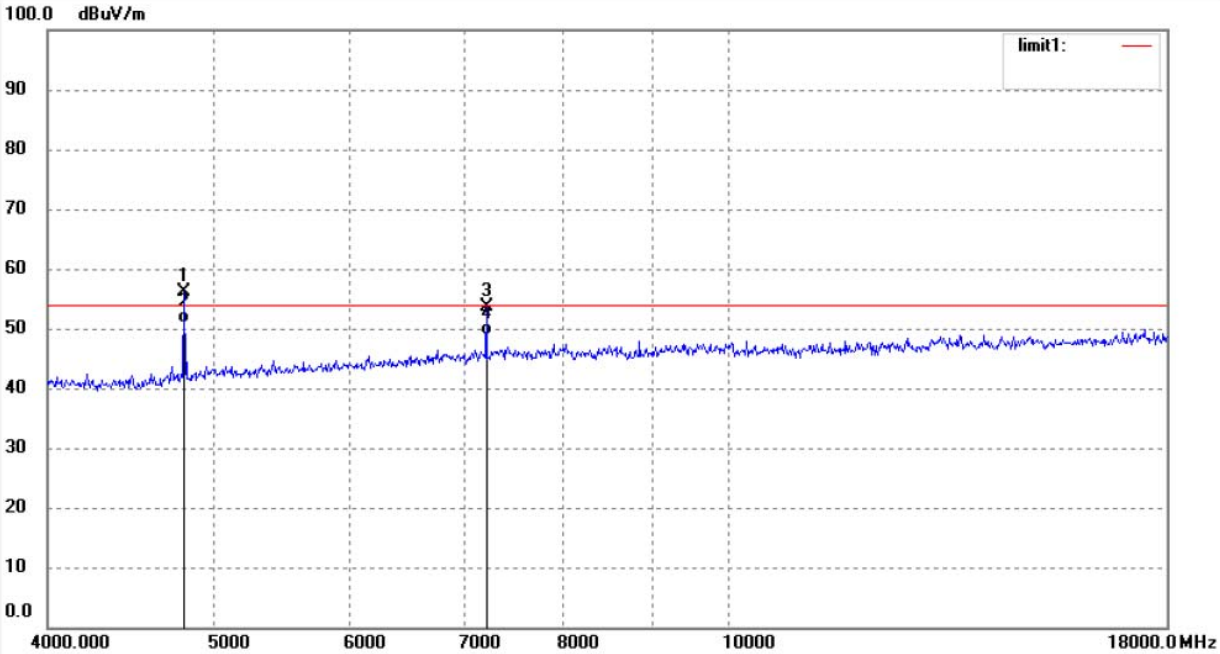
| | |
|---|---|
| Job No.: star2014 #284 | Polarization: Vertical |
| Standard: FCC PART 15B 3M Radiated | Power Source: DC 10.5V |
| Test item: Radiation Test | Date: 14/05/06/ |
| Temp.( C)/Hum.(%) 25 C / 55 % | Time: 18/38/43 |
| EUT: 2.4G VECHICLE | Engineer Signature: STAR |
| Mode: TX 2405MHz | Distance: 3m |
| Model: 425XXRX | |
| Manufacturer: Interactive | |

Note: Report No.:ATE20140685




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 4810.000 | 57.73 | -1.59 | 56.14 | 74.00 | -17.86 | peak | | | |
| 2 | 4810.000 | 52.36 | -1.59 | 50.77 | 54.00 | -3.23 | AVG | | | |
| 3 | 7215.000 | 52.32 | 1.30 | 53.62 | 74.00 | -20.38 | peak | | | |
| 4 | 7215.000 | 47.52 | 1.30 | 48.82 | 54.00 | -5.18 | AVG | | | |

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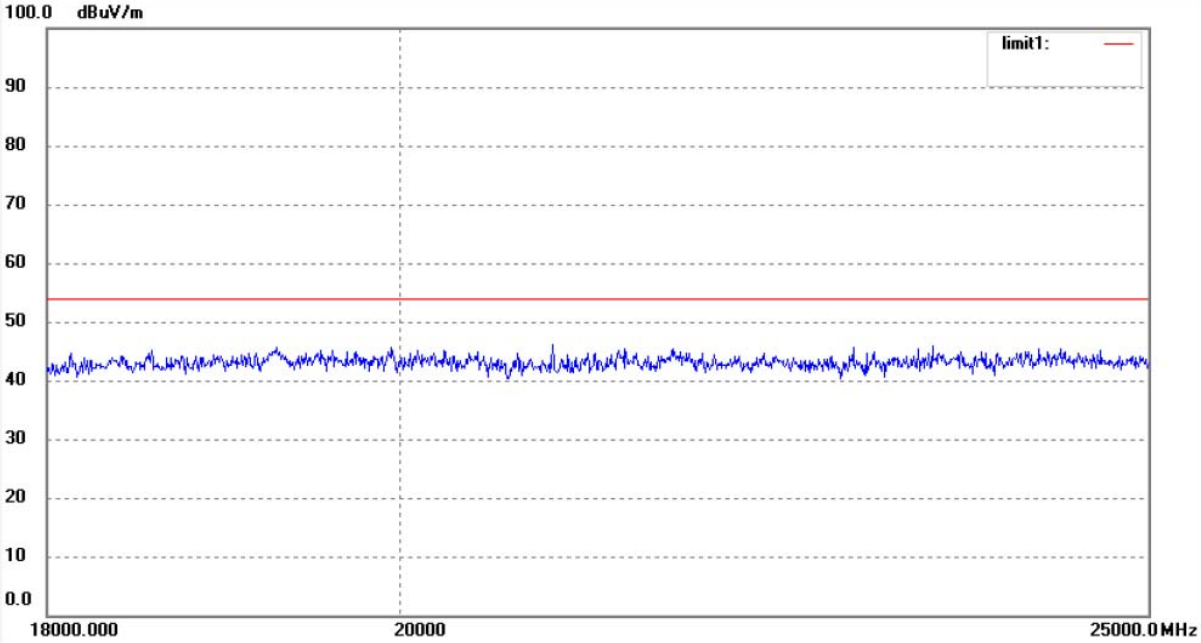
| | |
|---|---|
| Job No.: star2014 #285 | Polarization: Vertical |
| Standard: FCC PART 15B 3M Radiated | Power Source: DC 10.5V |
| Test item: Radiation Test | Date: 14/05/06/ |
| Temp.( C)/Hum.(%) 25 C / 55 % | Time: 18/42/15 |
| EUT: 2.4G VECHICLE | Engineer Signature: STAR |
| Mode: TX 2405MHz | Distance: 3m |
| Model: 425XXRX | |
| Manufacturer: Interactive | |

Note: Report No.:ATE20140685




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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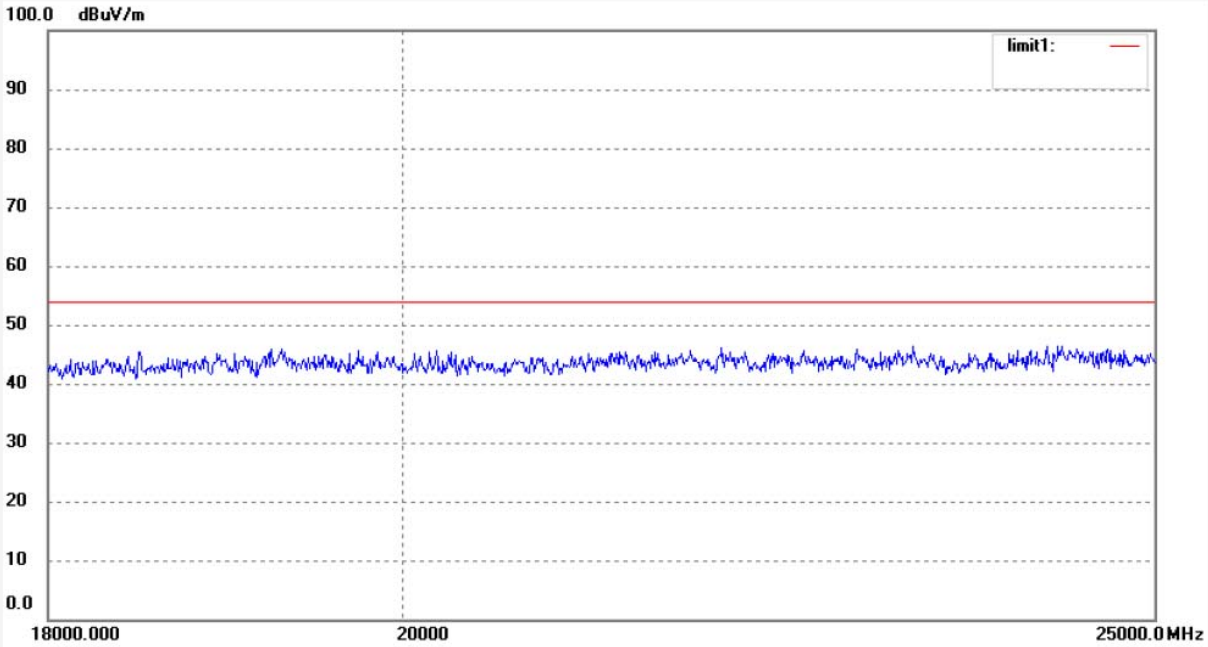
| | |
|---|---|
| Job No.: star2014 #286 | Polarization: Horizontal |
| Standard: FCC PART 15B 3M Radiated | Power Source: DC 10.5V |
| Test item: Radiation Test | Date: 14/05/06/ |
| Temp.( C)/Hum.(%) 25 C / 55 % | Time: 18/46/54 |
| EUT: 2.4G VECHICLE | Engineer Signature: STAR |
| Mode: TX 2405MHz | Distance: 3m |
| Model: 425XXRX | |
| Manufacturer: Interactive | |

Note: Report No.:ATE20140685




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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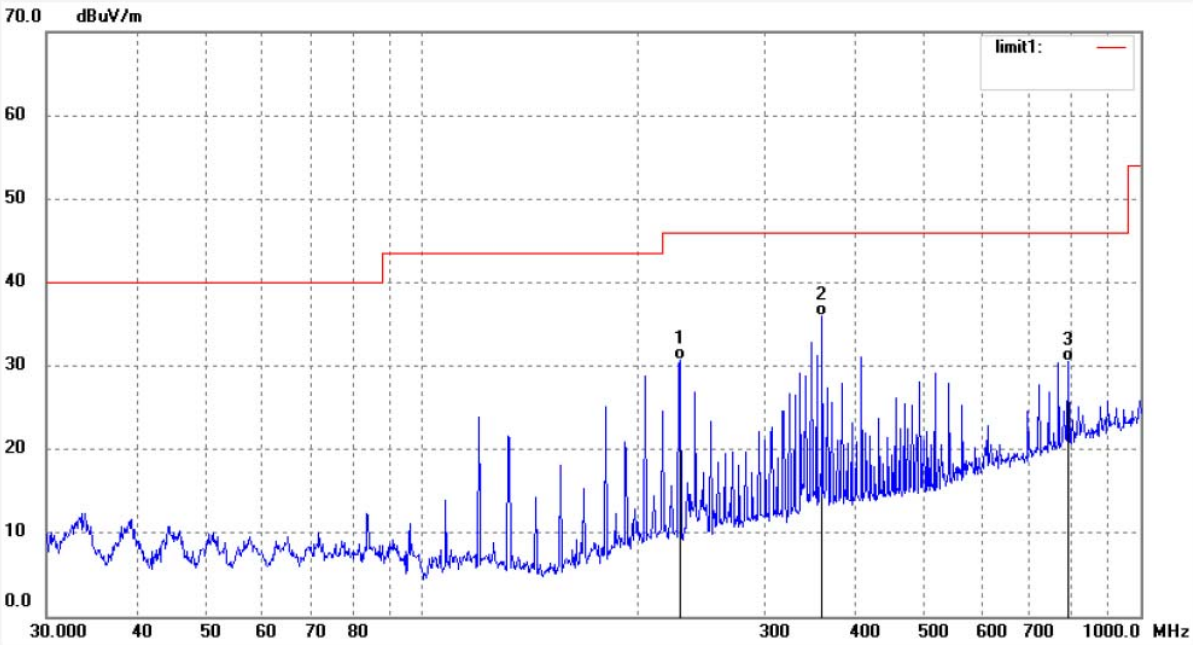
| | |
|---|---|
| Job No.: star2014 #263 | Polarization: Horizontal |
| Standard: FCC PART 15B 3M Radiated | Power Source: DC 10.5V |
| Test item: Radiation Test | Date: 14/05/06/ |
| Temp.( C)/Hum.(%) 25 C / 55 % | Time: 17/17/16 |
| EUT: 2.4G VECHICLE | Engineer Signature: STAR |
| Mode: TX 2442MHz | Distance: 3m |
| Model: 425XXRX | |
| Manufacturer: Interactive | |

Note: Report No.:ATE20140685




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 228.4903 | 50.55 | -19.87 | 30.68 | 46.00 | -15.32 | QP | | | |
| 2 | 360.4476 | 51.90 | -15.92 | 35.98 | 46.00 | -10.02 | QP | | | |
| 3 | 793.3958 | 38.48 | -7.87 | 30.61 | 46.00 | -15.39 | QP | | | |

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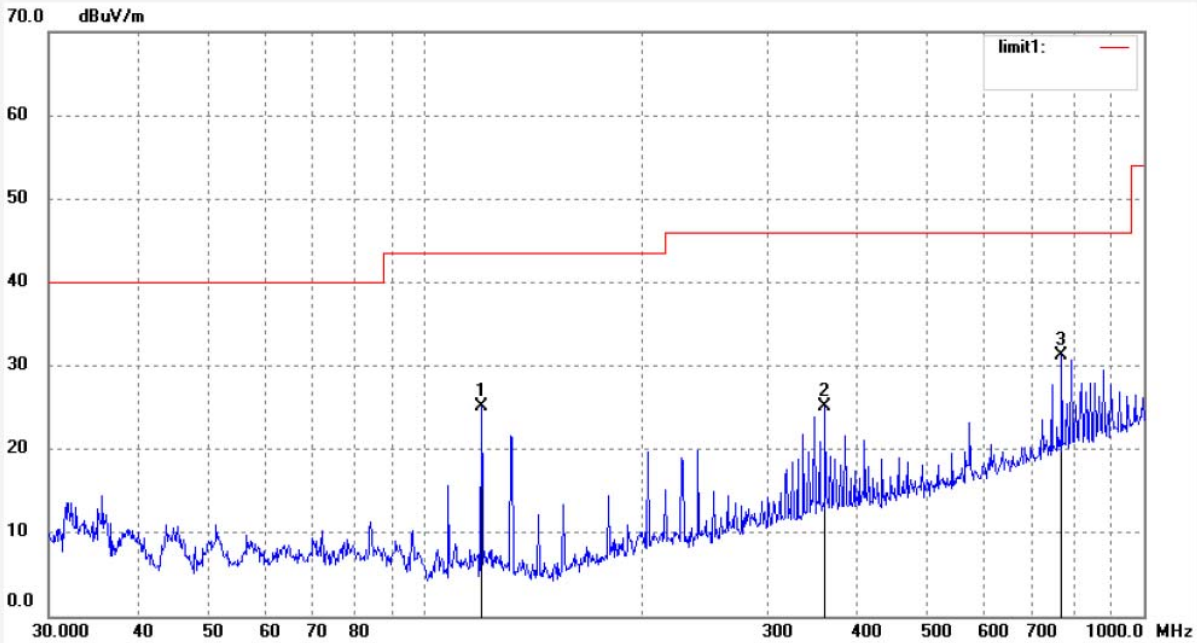
| | |
|---|---|
| Job No.: star2014 #264 | Polarization: Vertical |
| Standard: FCC PART 15B 3M Radiated | Power Source: DC 10.5V |
| Test item: Radiation Test | Date: 14/05/06/ |
| Temp.( C)/Hum.(%) 25 C / 55 % | Time: 17/20/55 |
| EUT: 2.4G VECHICLE | Engineer Signature: STAR |
| Mode: TX 2442MHz | Distance: 3m |
| Model: 425XXRX | |
| Manufacturer: Interactive | |

Note: Report No.:ATE20140685




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 119.8555 | 47.67 | -22.52 | 25.15 | 43.50 | -18.35 | peak | | | |
| 2 | 360.4476 | 41.03 | -15.92 | 25.11 | 46.00 | -20.89 | peak | | | |
| 3 | 768.7481 | 39.55 | -8.30 | 31.25 | 46.00 | -14.75 | peak | | | |

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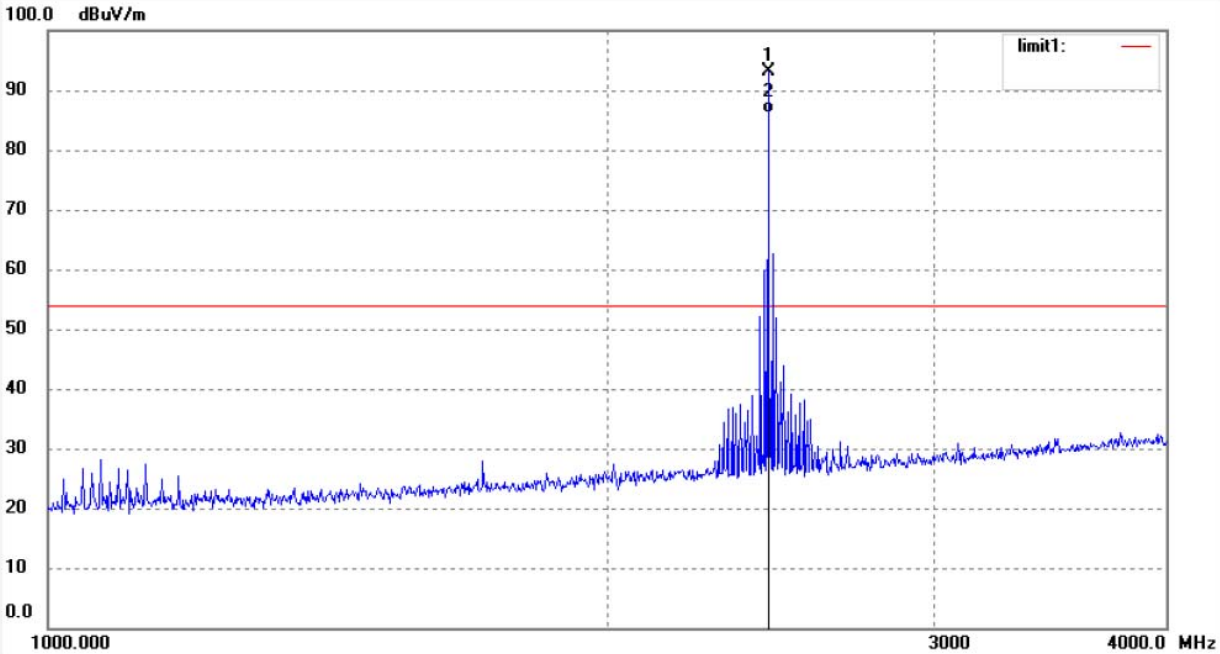
Tel:+86-0755-26503290
Fax:+86-0755-26503396

| | |
|---|---|
| Job No.: star2014 #275 | Polarization: Vertical |
| Standard: FCC PART 15B 3M Radiated | Power Source: DC 10.5V |
| Test item: Radiation Test | Date: 14/05/06/ |
| Temp.( C)/Hum.(%) 25 C / 55 % | Time: 18/03/51 |
| EUT: 2.4G VECHICLE | Engineer Signature: STAR |
| Mode: TX 2442MHz | Distance: 3m |
| Model: 425XXRX | |
| Manufacturer: Interactive | |

Note: Report No.:ATE20140685




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2442.000 | 99.68 | -6.64 | 93.04 | 114.00 | -20.60 | peak | | | |
| 2 | 2442.000 | 92.74 | -6.64 | 86.10 | 94.00 | -7.90 | AVG | | | |

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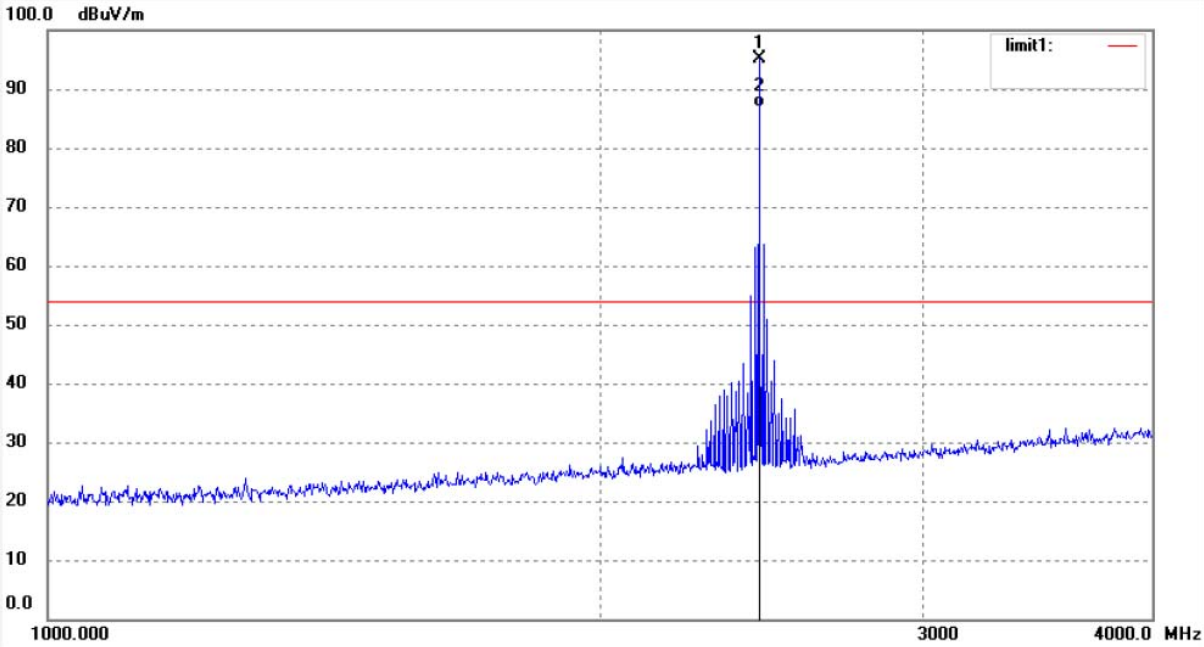
| | |
|---|---|
| Job No.: star2014 #276 | Polarization: Horizontal |
| Standard: FCC PART 15B 3M Radiated | Power Source: DC 10.5V |
| Test item: Radiation Test | Date: 14/05/06/ |
| Temp.( C)/Hum.(%) 25 C / 55 % | Time: 18/06/53 |
| EUT: 2.4G VECHICLE | Engineer Signature: STAR |
| Mode: TX 2442MHz | Distance: 3m |
| Model: 425XXRX | |
| Manufacturer: Interactive | |

Note: Report No.:ATE20140685




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2442.000 | 101.75 | -6.64 | 95.11 | 114.00 | -18.89 | peak | | | |
| 2 | 2442.000 | 93.57 | -6.64 | 86.93 | 94.00 | -7.07 | AVG | | | |

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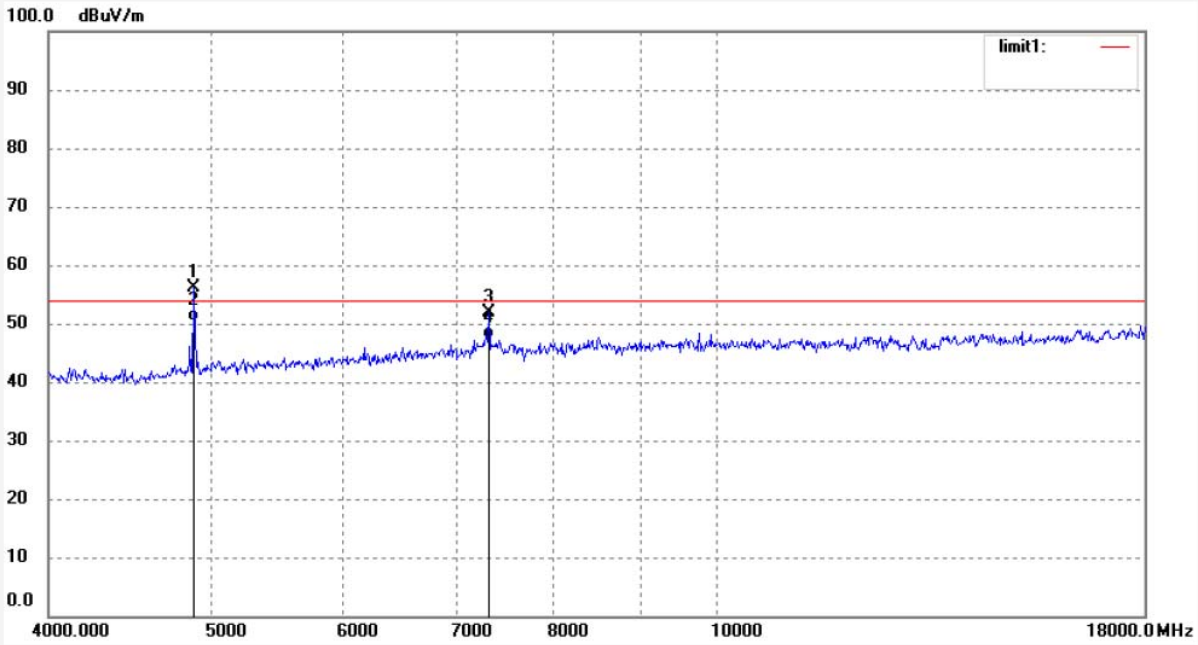
| | |
|---|---|
| Job No.: star2014 #281 | Polarization: Vertical |
| Standard: FCC PART 15B 3M Radiated | Power Source: DC 10.5V |
| Test item: Radiation Test | Date: 14/05/06/ |
| Temp.( C)/Hum.(%) 25 C / 55 % | Time: 18/27/19 |
| EUT: 2.4G VECHICLE | Engineer Signature: STAR |
| Mode: TX 2442MHz | Distance: 3m |
| Model: 425XXRX | |
| Manufacturer: Interactive | |

Note: Report No.:ATE20140685




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 4884.000 | 57.36 | -1.34 | 56.02 | 74.00 | -17.98 | peak | | | |
| 2 | 4884.000 | 51.80 | -1.34 | 50.46 | 54.00 | -3.54 | AVG | | | |
| 3 | 7326.000 | 50.43 | 1.40 | 51.83 | 74.00 | -22.17 | peak | | | |
| 4 | 7326.000 | 46.00 | 1.40 | 47.40 | 54.00 | -6.60 | AVG | | | |

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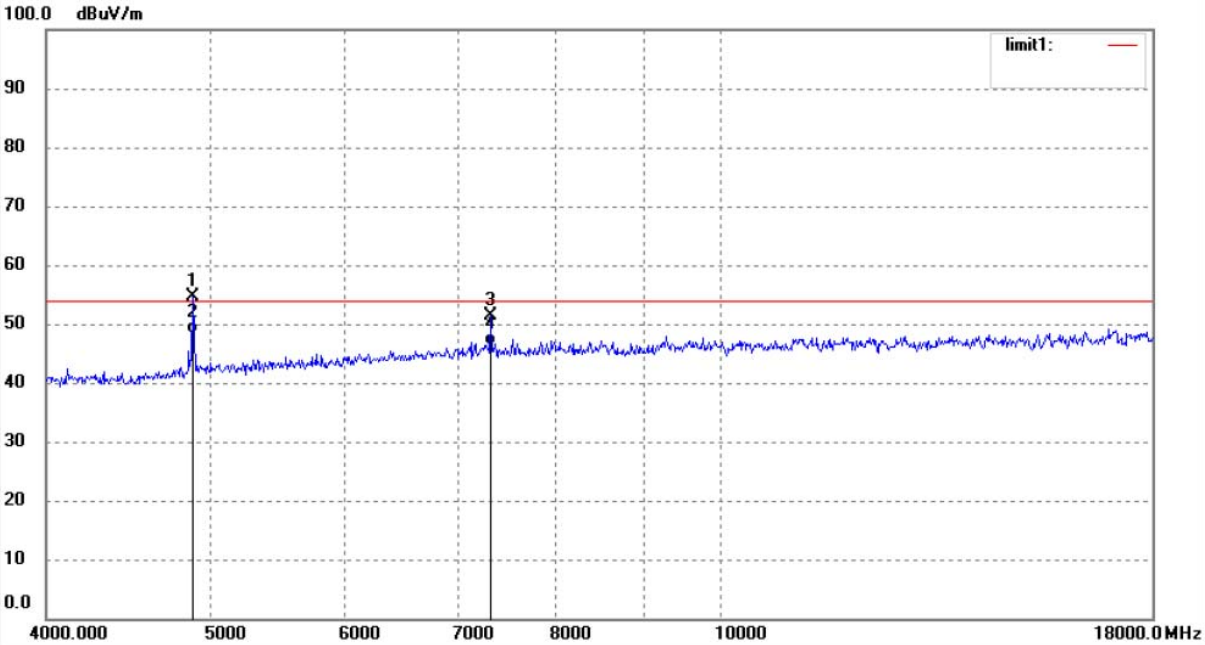
| | |
|---|---|
| Job No.: star2014 #282 | Polarization: Horizontal |
| Standard: FCC PART 15B 3M Radiated | Power Source: DC 10.5V |
| Test item: Radiation Test | Date: 14/05/06/ |
| Temp.( C)/Hum.(%) 25 C / 55 % | Time: 18/31/17 |
| EUT: 2.4G VECHICLE | Engineer Signature: STAR |
| Mode: TX 2442MHz | Distance: 3m |
| Model: 425XXRX | |
| Manufacturer: Interactive | |

Note: Report No.:ATE20140685




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 4884.000 | 55.87 | -1.34 | 54.53 | 74.00 | -19.47 | peak | | | |
| 2 | 4884.000 | 49.78 | -1.34 | 48.44 | 54.00 | -5.56 | AVG | | | |
| 3 | 7326.000 | 50.09 | 1.40 | 51.49 | 74.00 | -22.51 | peak | | | |
| 4 | 7326.000 | 44.96 | 1.40 | 46.36 | 54.00 | -7.64 | AVG | | | |

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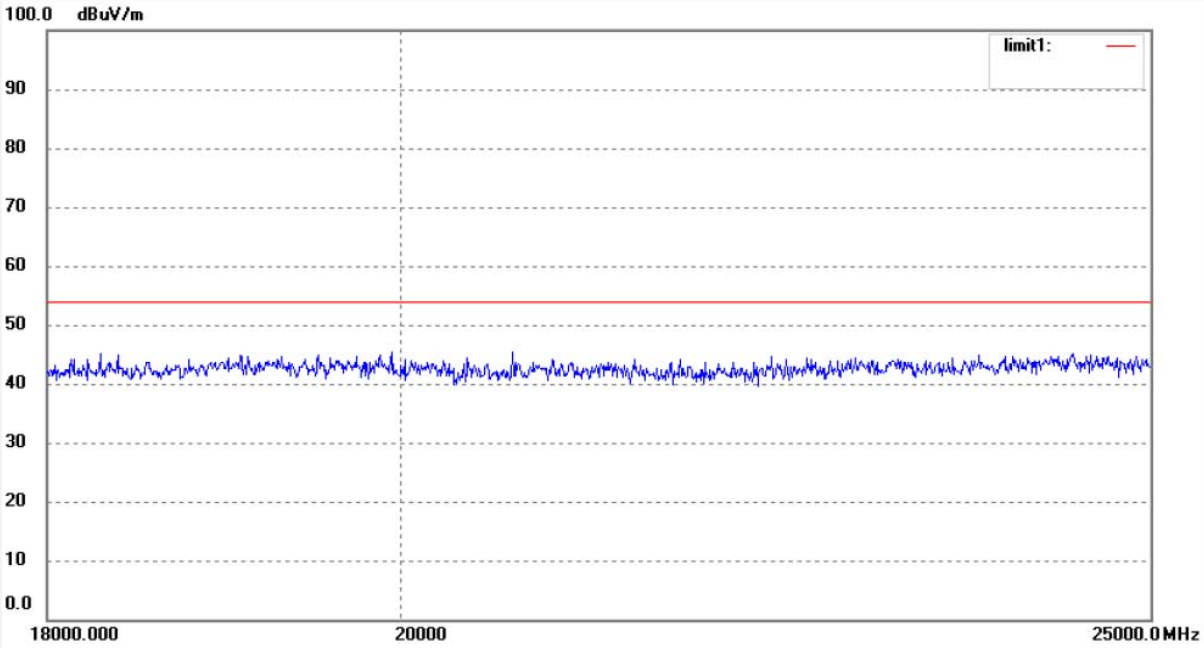
| | |
|---|---|
| Job No.: star2014 #287 | Polarization: Horizontal |
| Standard: FCC PART 15B 3M Radiated | Power Source: DC 10.5V |
| Test item: Radiation Test | Date: 14/05/06/ |
| Temp.( C)/Hum.(%) 25 C / 55 % | Time: 18/50/29 |
| EUT: 2.4G VECHICLE | Engineer Signature: STAR |
| Mode: TX 2442MHz | Distance: 3m |
| Model: 425XXRX | |
| Manufacturer: Interactive | |

Note: Report No.:ATE20140685




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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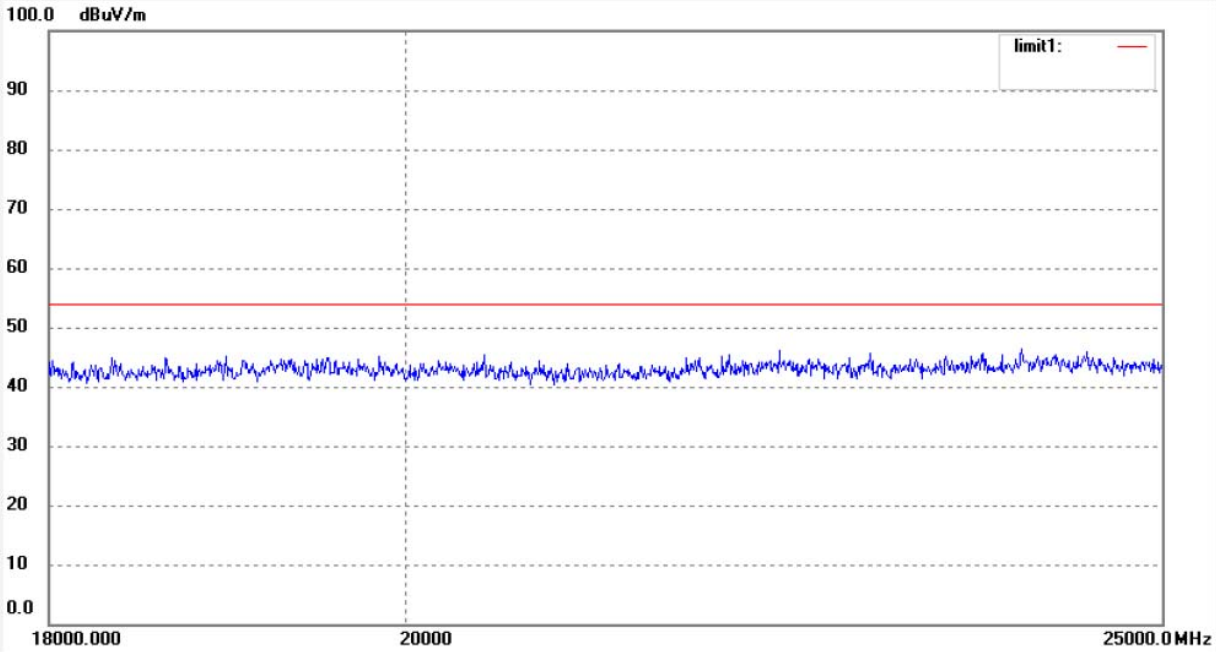
| | |
|---|---|
| Job No.: star2014 #288 | Polarization: Vertical |
| Standard: FCC PART 15B 3M Radiated | Power Source: DC 10.5V |
| Test item: Radiation Test | Date: 14/05/06/ |
| Temp.( C)/Hum.(%) 25 C / 55 % | Time: 18/54/05 |
| EUT: 2.4G VECHICLE | Engineer Signature: STAR |
| Mode: TX 2442MHz | Distance: 3m |
| Model: 425XXRX | |
| Manufacturer: Interactive | |

Note: Report No.:ATE20140685




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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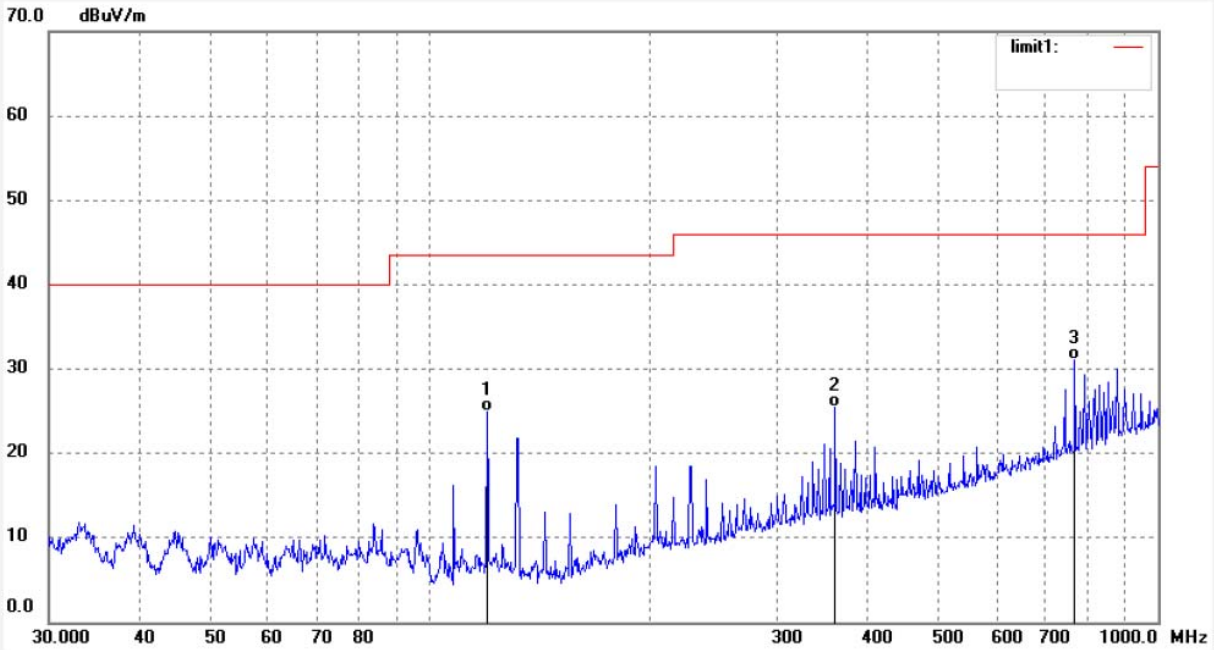
| | |
|---|---|
| Job No.: star2014 #265 | Polarization: Vertical |
| Standard: FCC PART 15B 3M Radiated | Power Source: DC 10.5V |
| Test item: Radiation Test | Date: 14/05/06/ |
| Temp.( C)/Hum.(%) 25 C / 55 % | Time: 17/24/52 |
| EUT: 2.4G VECHICLE | Engineer Signature: STAR |
| Mode: TX 2468MHz | Distance: 3m |
| Model: 425XXRX | |
| Manufacturer: Interactive | |

Note: Report No.:ATE20140685




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 119.8555 | 47.50 | -22.52 | 24.98 | 43.50 | -18.52 | QP | | | |
| 2 | 360.4476 | 41.39 | -15.92 | 25.47 | 46.00 | -20.53 | QP | | | |
| 3 | 768.7481 | 39.35 | -8.30 | 31.05 | 46.00 | -14.95 | QP | | | |

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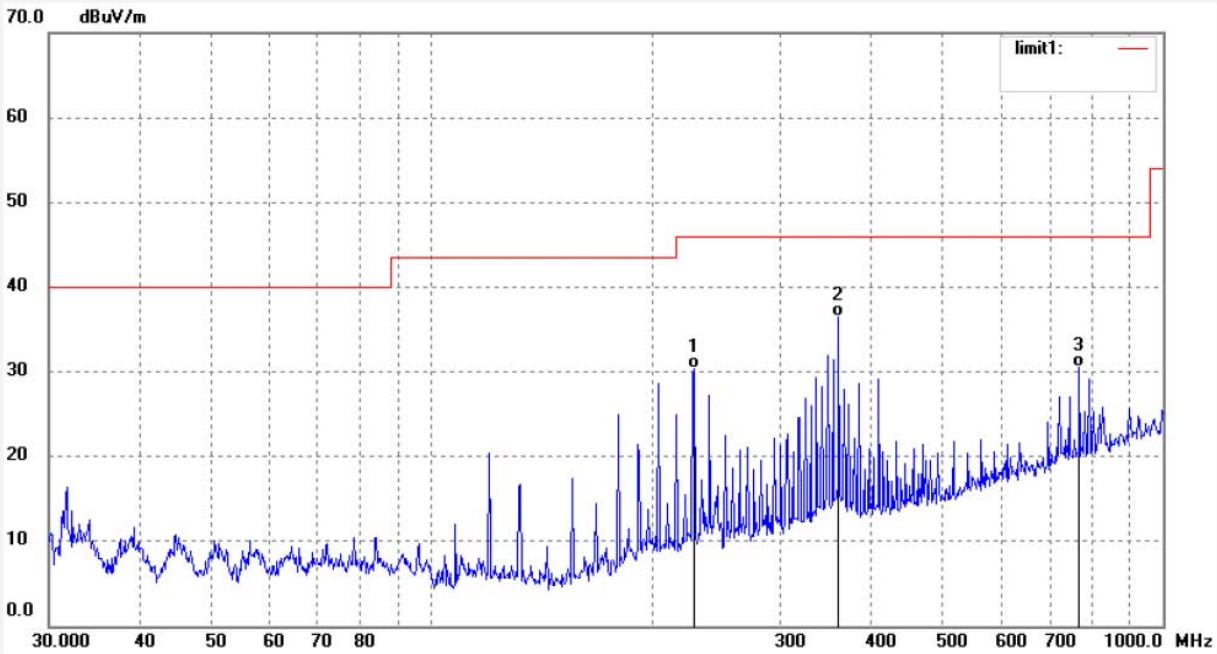
| | |
|---|---|
| Job No.: star2014 #266 | Polarization: Horizontal |
| Standard: FCC PART 15B 3M Radiated | Power Source: DC 10.5V |
| Test item: Radiation Test | Date: 14/05/06/ |
| Temp.( C)/Hum.(%) 25 C / 55 % | Time: 17/28/32 |
| EUT: 2.4G VECHICLE | Engineer Signature: STAR |
| Mode: TX 2468MHz | Distance: 3m |
| Model: 425XXRX | |
| Manufacturer: Interactive | |

Note: Report No.:ATE20140685




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 228.4903 | 50.23 | -19.87 | 30.36 | 46.00 | -15.64 | QP | | | |
| 2 | 360.4476 | 52.47 | -15.92 | 36.55 | 46.00 | -9.45 | QP | | | |
| 3 | 768.7481 | 38.90 | -8.30 | 30.60 | 46.00 | -15.40 | QP | | | |

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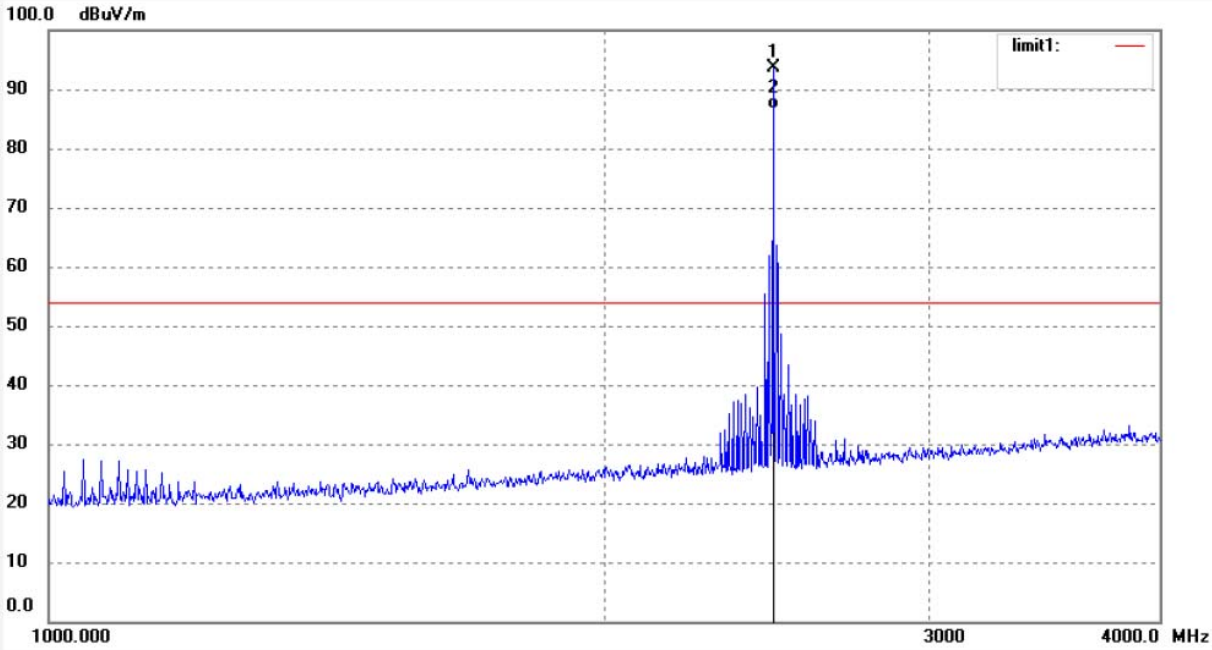
| | |
|---|---|
| Job No.: star2014 #277 | Polarization: Vertical |
| Standard: FCC PART 15B 3M Radiated | Power Source: DC 10.5V |
| Test item: Radiation Test | Date: 14/05/06/ |
| Temp.( C)/Hum.(%) 25 C / 55 % | Time: 18/10/02 |
| EUT: 2.4G VECHICLE | Engineer Signature: STAR |
| Mode: TX 2468MHz | Distance: 3m |
| Model: 425XXRX | |
| Manufacturer: Interactive | |

Note: Report No.:ATE20140685




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2468.000 | 100.12 | -6.57 | 93.55 | 114.00 | -20.45 | peak | | | |
| 2 | 2468.000 | 93.10 | -6.57 | 86.53 | 94.00 | -7.47 | AVG | | | |

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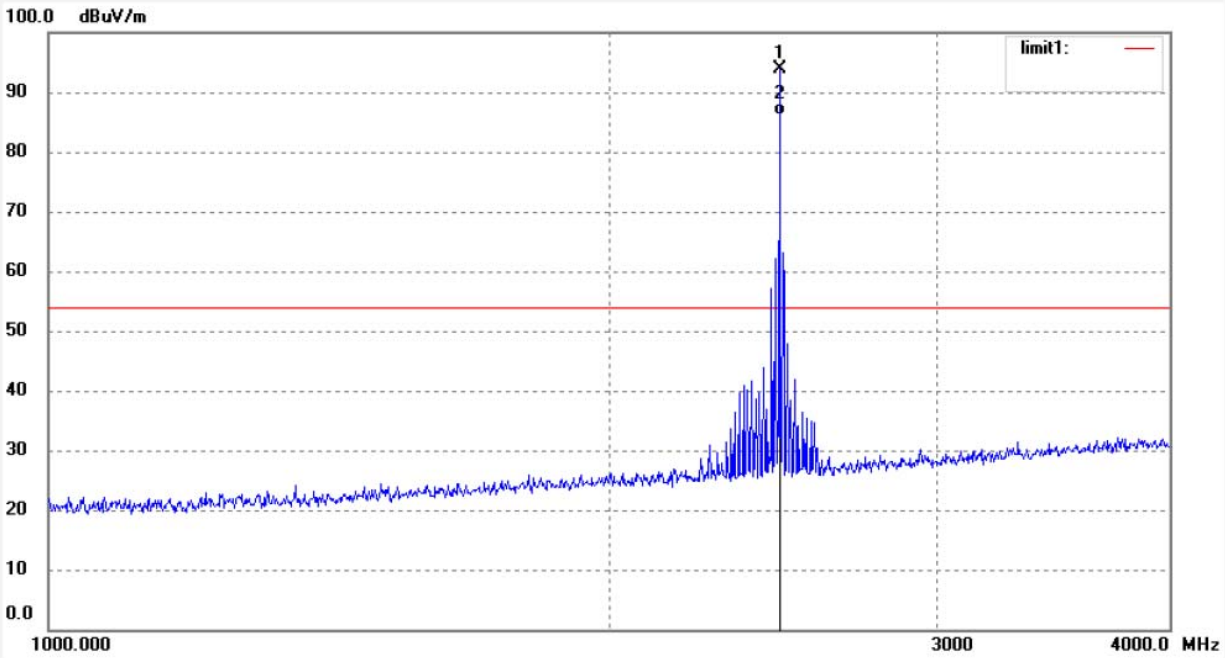
| | |
|---|---|
| Job No.: star2014 #278 | Polarization: Horizontal |
| Standard: FCC PART 15B 3M Radiated | Power Source: DC 10.5V |
| Test item: Radiation Test | Date: 14/05/06/ |
| Temp.( C)/Hum.(%) 25 C / 55 % | Time: 18/15/03 |
| EUT: 2.4G VECHICLE | Engineer Signature: STAR |
| Mode: TX 2468MHz | Distance: 3m |
| Model: 425XXRX | |
| Manufacturer: Interactive | |

Note: Report No.:ATE20140685




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2468.000 | 100.49 | -6.57 | 93.92 | 114.00 | -20.08 | peak | | | |
| 2 | 2468.000 | 92.68 | -6.57 | 86.11 | 94.00 | -7.89 | AVG | | | |

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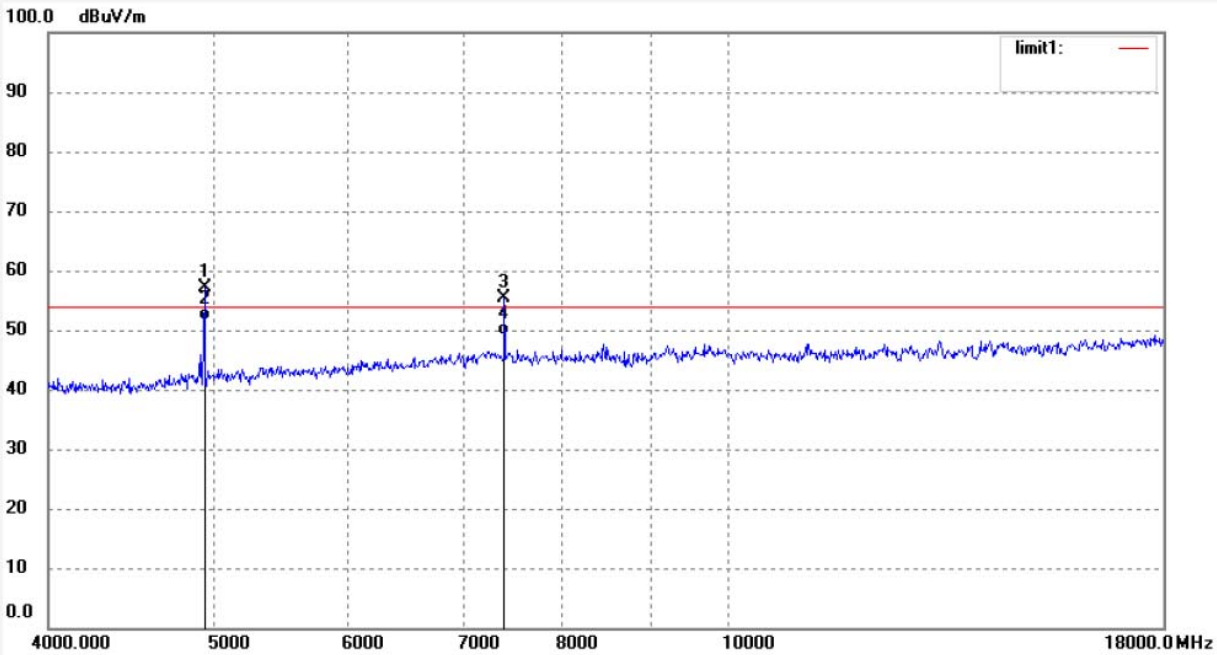
| | |
|---|---|
| Job No.: star2014 #279 | Polarization: Horizontal |
| Standard: FCC PART 15B 3M Radiated | Power Source: DC 10.5V |
| Test item: Radiation Test | Date: 14/05/06/ |
| Temp.( C)/Hum.(%) 25 C / 55 % | Time: 18/21/21 |
| EUT: 2.4G VECHICLE | Engineer Signature: STAR |
| Mode: TX 2468MHz | Distance: 3m |
| Model: 425XXRX | |
| Manufacturer: Interactive | |

Note: Report No.:ATE20140685




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 4936.000 | 58.41 | -1.18 | 57.23 | 74.00 | -16.77 | peak | | | |
| 2 | 4936.000 | 52.69 | -1.18 | 51.51 | 54.00 | -2.49 | AVG | | | |
| 3 | 7404.000 | 53.89 | 1.47 | 55.36 | 74.00 | -18.64 | peak | | | |
| 4 | 7404.000 | 47.63 | 1.47 | 49.10 | 54.00 | -4.90 | AVG | | | |

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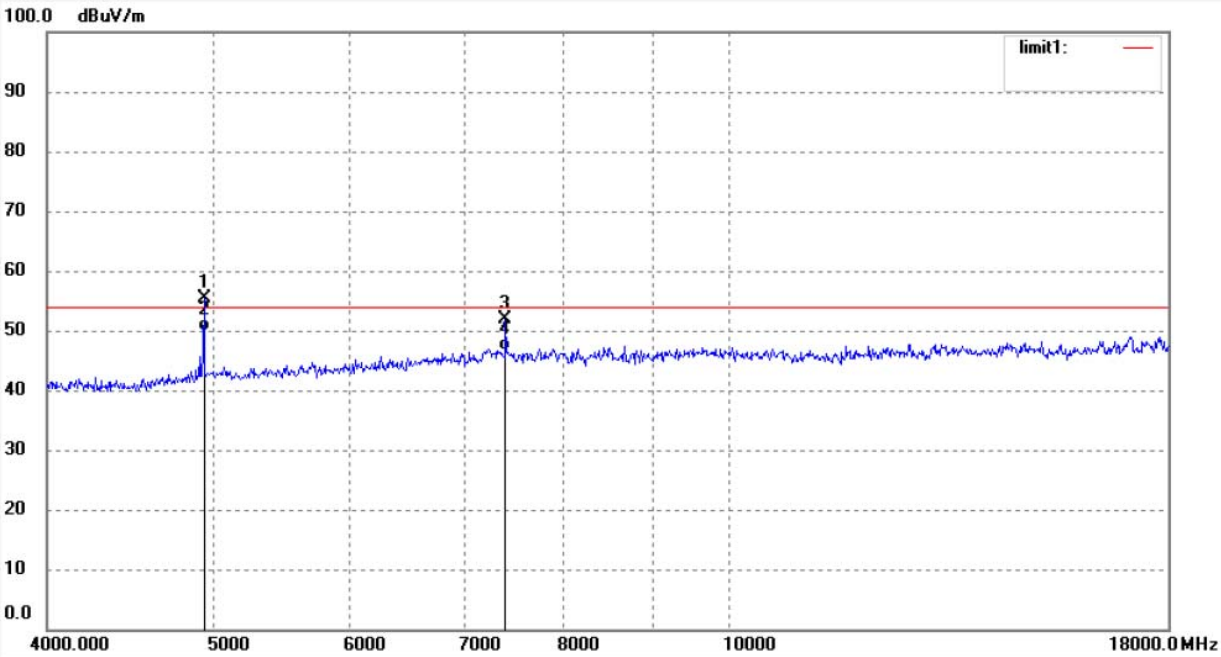
| | |
|---|---|
| Job No.: star2014 #280 | Polarization: Vertical |
| Standard: FCC PART 15B 3M Radiated | Power Source: DC 10.5V |
| Test item: Radiation Test | Date: 14/05/06/ |
| Temp.( C)/Hum.(%) 25 C / 55 % | Time: 18/24/50 |
| EUT: 2.4G VECHICLE | Engineer Signature: STAR |
| Mode: TX 2468MHz | Distance: 3m |
| Model: 425XXRX | |
| Manufacturer: Interactive | |

Note: Report No.:ATE20140685




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 4936.000 | 56.46 | -1.18 | 55.28 | 74.00 | -18.72 | peak | | | |
| 2 | 4936.000 | 51.14 | -1.18 | 49.96 | 54.00 | -4.04 | AVG | | | |
| 3 | 7404.000 | 50.31 | 1.47 | 51.78 | 74.00 | -22.22 | peak | | | |
| 4 | 7404.000 | 45.10 | 1.47 | 46.57 | 54.00 | -7.43 | AVG | | | |

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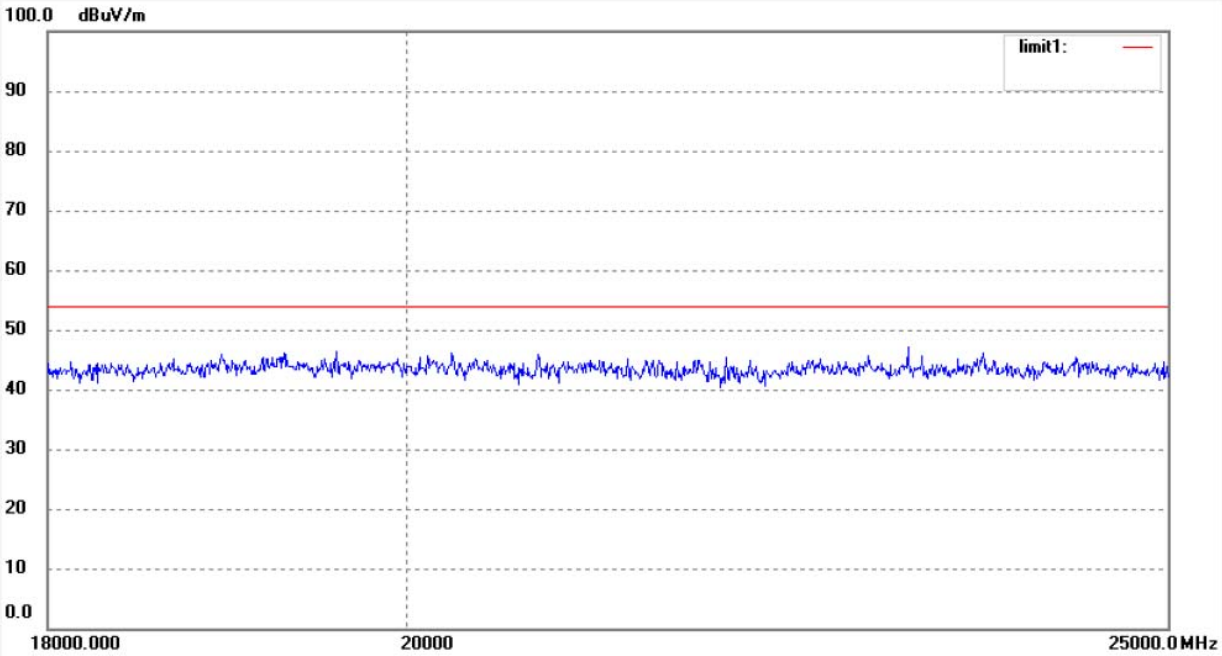
| | |
|---|---|
| Job No.: star2014 #289 | Polarization: Vertical |
| Standard: FCC PART 15B 3M Radiated | Power Source: DC 10.5V |
| Test item: Radiation Test | Date: 14/05/06/ |
| Temp.( C)/Hum.(%) 25 C / 55 % | Time: 18/58/41 |
| EUT: 2.4G VECHICLE | Engineer Signature: STAR |
| Mode: TX 2468MHz | Distance: 3m |
| Model: 425XXRX | |
| Manufacturer: Interactive | |

Note: Report No.:ATE20140685




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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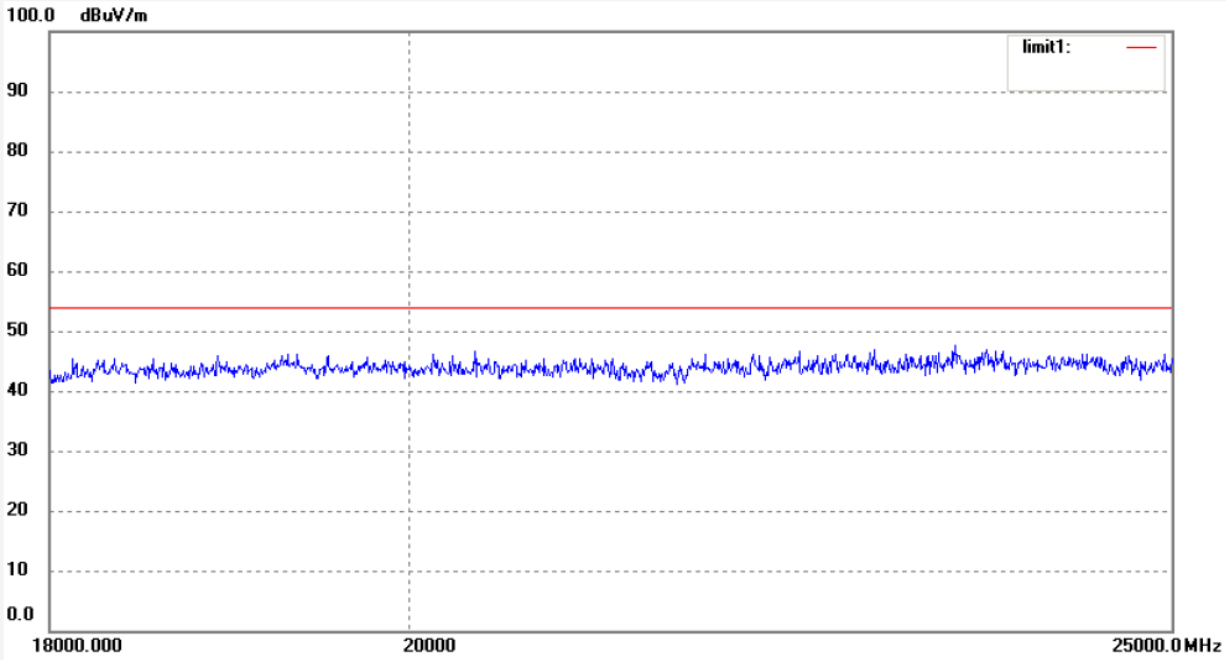
| | |
|---|---|
| Job No.: star2014 #290 | Polarization: Horizontal |
| Standard: FCC PART 15B 3M Radiated | Power Source: DC 10.5V |
| Test item: Radiation Test | Date: 14/05/06/ |
| Temp.( C)/Hum.(%) 25 C / 55 % | Time: 19/02/19 |
| EUT: 2.4G VECHICLE | Engineer Signature: STAR |
| Mode: TX 2468MHz | Distance: 3m |
| Model: 425XXRX | |
| Manufacturer: Interactive | |

Note: Report No.:ATE20140685




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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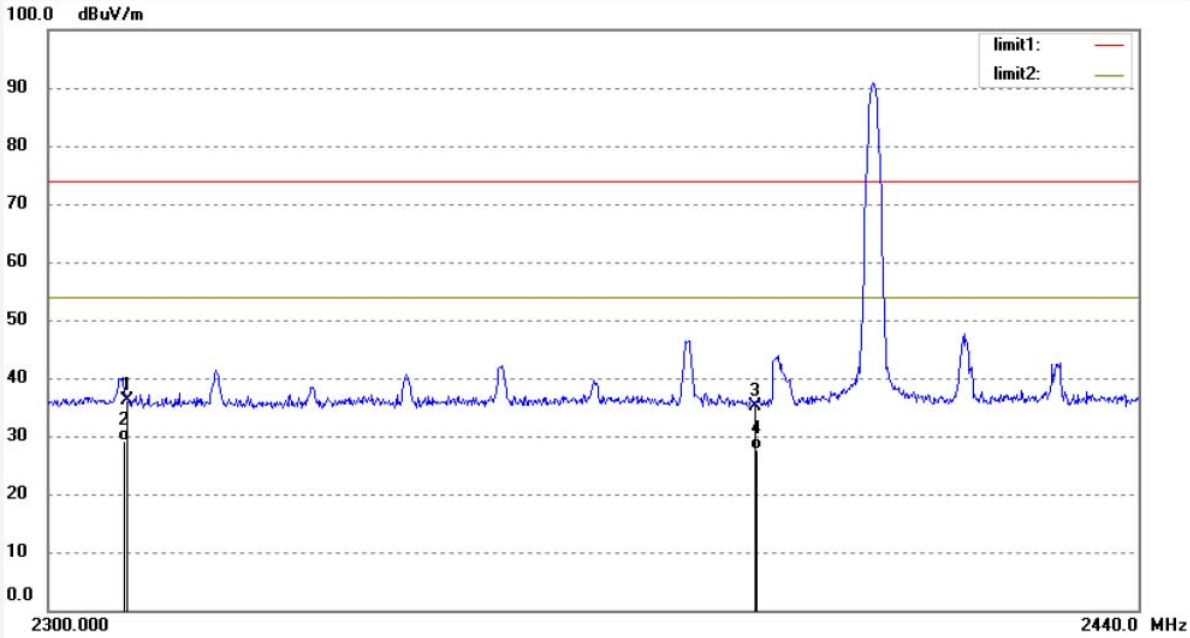
| | |
|---|---|
| Job No.: star2014 #303 | Polarization: Vertical |
| Standard: FCC PK | Power Source: DC 10.5V |
| Test item: Radiation Test | Date: 14/05/06/ |
| Temp.( C)/Hum.(%) 25 C / 55 % | Time: 16/11/22 |
| EUT: 2.4G VECHICLE | Engineer Signature: STAR |
| Mode: TX 2405MHz | Distance: 3m |
| Model: 425XXRX | |
| Manufacturer: Interactive | |

Note: Report No.:ATE20140685




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2310.000 | 43.14 | -6.99 | 36.15 | 74.00 | -37.85 | peak | | | |
| 2 | 2310.000 | 36.14 | -6.99 | 29.15 | 54.00 | -24.85 | AVG | | | |
| 3 | 2390.000 | 41.80 | -6.78 | 35.02 | 74.00 | -38.98 | peak | | | |
| 4 | 2390.000 | 34.50 | -6.78 | 27.72 | 54.00 | -26.28 | AVG | | | |

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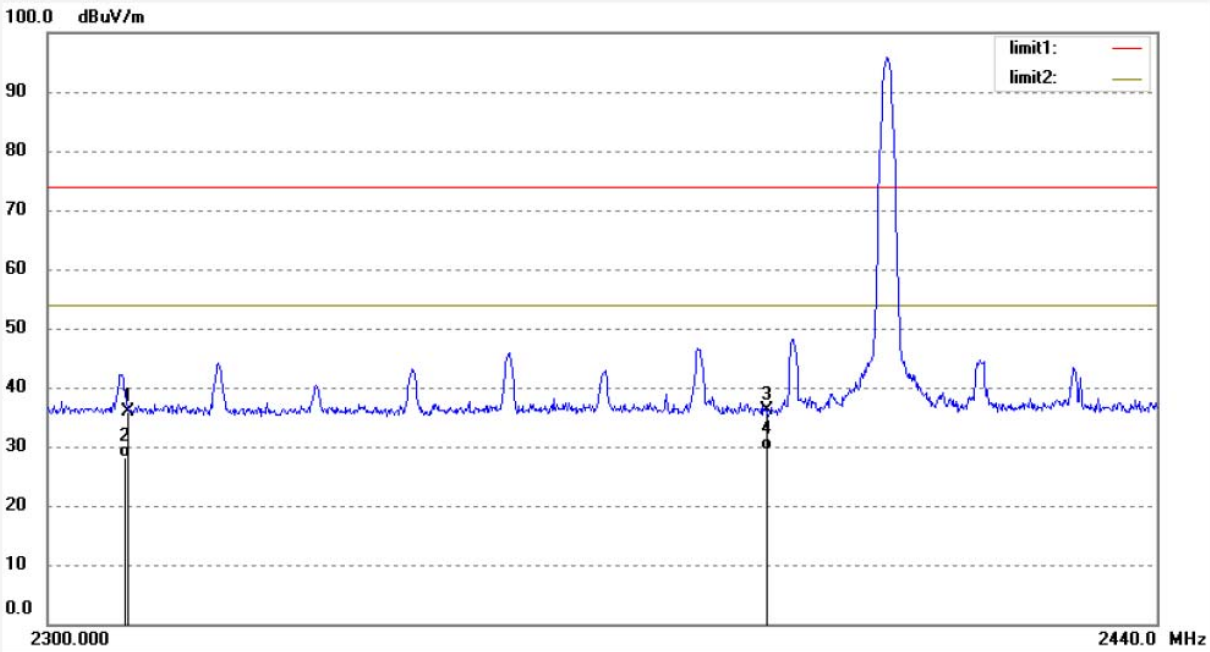
Fax:+86-0755-26503396

| | |
|---|---|
| Job No.: star2014 #304 | Polarization: Horizontal |
| Standard: FCC PK | Power Source: DC 10.5V |
| Test item: Radiation Test | Date: 14/05/06/ |
| Temp.( C)/Hum.(%) 25 C / 55 % | Time: 16/15/27 |
| EUT: 2.4G VECHICLE | Engineer Signature: STAR |
| Mode: TX 2405MHz | Distance: 3m |
| Model: 425XXRX | |
| Manufacturer: Interactive | |

Note: Report No.:ATE20140685




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2310.000 | 42.91 | -6.99 | 35.92 | 74.00 | -38.08 | peak | | | |
| 2 | 2310.000 | 35.17 | -6.99 | 28.18 | 54.00 | -25.82 | AVG | | | |
| 3 | 2390.000 | 42.87 | -6.78 | 36.09 | 74.00 | -37.91 | peak | | | |
| 4 | 2390.000 | 36.20 | -6.78 | 29.42 | 54.00 | -24.58 | AVG | | | |

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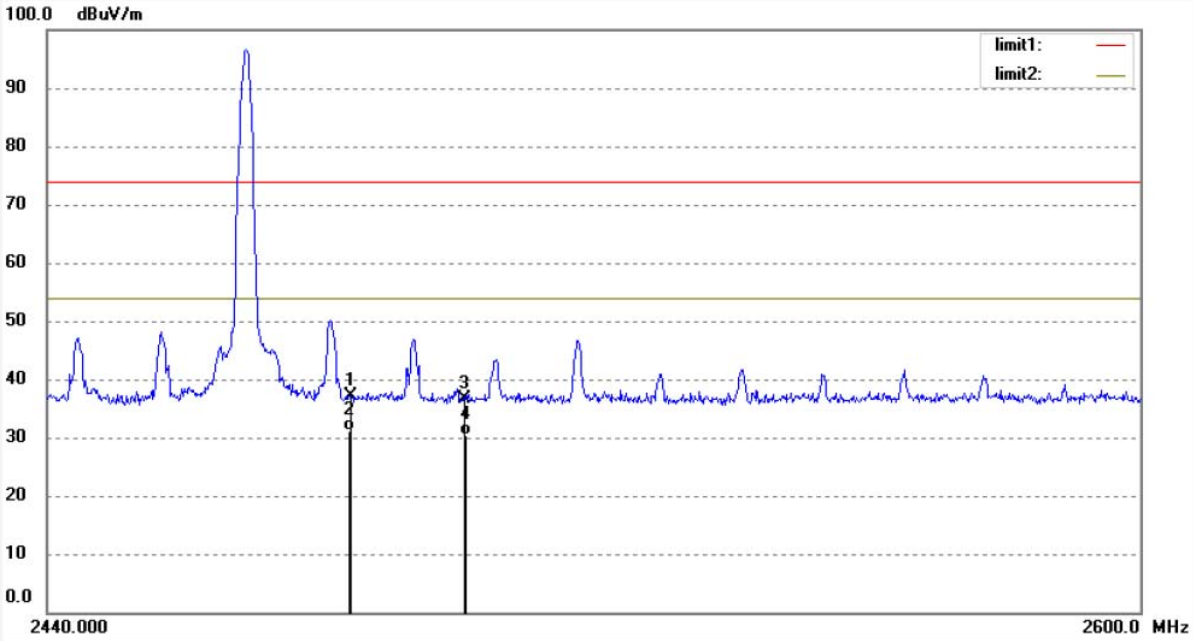
| | |
|---|---|
| Job No.: star2014 #305 | Polarization: Horizontal |
| Standard: FCC PK | Power Source: DC 10.5V |
| Test item: Radiation Test | Date: 14/05/06/ |
| Temp.( C)/Hum.(%) 25 C / 55 % | Time: 16/19/15 |
| EUT: 2.4G VECHICLE | Engineer Signature: STAR |
| Mode: TX 2468MHz | Distance: 3m |
| Model: 425XXRX | |
| Manufacturer: Interactive | |

Note: Report No.:ATE20140685




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.500 | 43.68 | -6.54 | 37.14 | 74.00 | -36.86 | peak | | | |
| 2 | 2483.500 | 37.60 | -6.54 | 31.06 | 54.00 | -22.94 | AVG | | | |
| 3 | 2500.000 | 43.13 | -6.50 | 36.63 | 74.00 | -37.37 | peak | | | |
| 4 | 2500.000 | 36.90 | -6.50 | 30.40 | 54.00 | -23.60 | AVG | | | |

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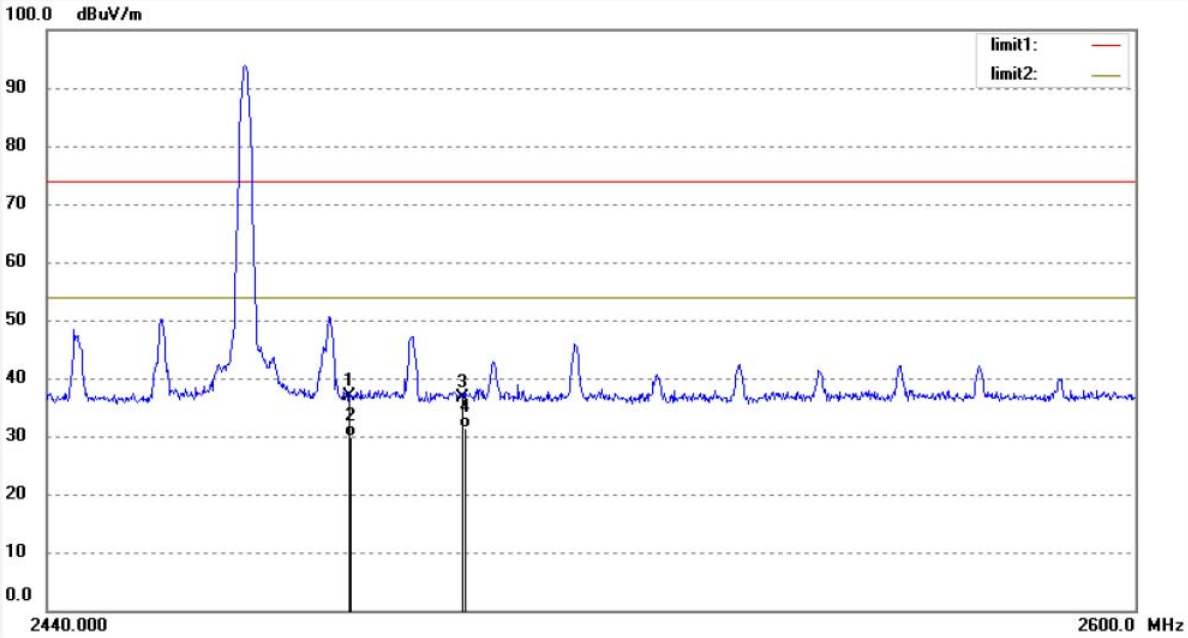
| | |
|---|---|
| Job No.: star2014 #306 | Polarization: Vertical |
| Standard: FCC PK | Power Source: DC 10.5V |
| Test item: Radiation Test | Date: 14/05/06/ |
| Temp.( C)/Hum.(%) 25 C / 55 % | Time: 16/24/59 |
| EUT: 2.4G VECHICLE | Engineer Signature: STAR |
| Mode: TX 2468MHz | Distance: 3m |
| Model: 425XXRX | |
| Manufacturer: Interactive | |

Note: Report No.:ATE20140685




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.500 | 43.40 | -6.54 | 36.86 | 74.00 | -37.14 | peak | | | |
| 2 | 2483.500 | 36.51 | -6.54 | 29.97 | 54.00 | -24.03 | AVG | | | |
| 3 | 2500.000 | 43.21 | -6.50 | 36.71 | 74.00 | -37.29 | peak | | | |
| 4 | 2500.000 | 37.90 | -6.50 | 31.40 | 54.00 | -22.60 | AVG | | | |