



FCC 47 CFR PART 15 SUBPART B

TEST REPORT

For

USB Pocket Point RF Receiver

Model: PPRF64/128

Trade Name: VISION

Issued for

Vision Automobile Electronics Industrial Co., Ltd.
No. 17, Alley 92, Lane 189, Sec. 1, An Chung Rd.,
Tainan, Taiwan, R.O.C.

Issued by

Compliance Certification Services Inc.
Hsintien Lab.

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1 TEST RESULT CERTIFICATION

Applicant: **Vision Automobile Electronics Industrial Co., Ltd.**
No. 17, Alley 92, Lane 189, Sec. 1, An Chung Rd.,
Tainan, Taiwan, R.O.C.

Manufacturer: **Vision Automobile Electronics Industrial Co., Ltd.**
No. 17, Alley 92, Lane 189, Sec. 1, An Chung Rd.,
Tainan, Taiwan, R.O.C.

Equipment Under Test: USB Pocket Point RF Receiver

Trade Name: VISION

Model: PPRF64/128

Detailed EUT Description: See Item 2 of this report

Date of Test: July 15, 2004 & August 2, 2004

| Applicable Standard | Class / Limit | Test Result |
|------------------------------------|---------------|-------------------------|
| FCC Part 15 Subpart B | Class B | No non-compliance noted |
| Deviation from Applicable Standard | | |
| None | | |

The above equipment was tested by Compliance Certification Services Inc. for compliance with the requirements set forth in the FCC Rules and Regulations Part 15, Subpart B and the measurement procedures were according to ANSI C63.4. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

Approved by:

David Wang
Manager of Hsintien Laboratory
Compliance Certification Services Inc.

Reviewed by:

Vince Chiang
Section Manager of Hsintien Laboratory
Compliance Certification Services Inc.



2 EUT DESCRIPTION

| | |
|----------------------------------|--------------------------------------|
| Product | USB Pocket Point RF Receiver |
| Trade Name | VISION |
| Model | PPRF64/128 |
| Housing Type | Plastic |
| EUT Power Rating | DC 5V from Host PC |
| AC Power During Test | 120VAC / 60Hz to Host PC |
| Power Supply Manufacturer | COMPAQ |
| Power Supply Model Number | DPS-250RB A |
| AC Power Cord Type | Unshielded, 1.8m (Detachable) |
| OSC/Clock Frequencies | 13.225MHz; 6MHz; 12MHz |
| Receiver Frequency | 433.92MHz |
| Number of Channels | 1 Channel |
| Operating Mode | Point-to-Point |
| Antenna Type | Internal loop, which is built in EUT |
| EUT I/O Cable Type | USB: Shielded, 1.4m (Detachable) |

Note: The product is a composite system includes Transmitter and Receiver. This submittal(s) (test report) is intended for FCC ID: KFR-LSRRFS filing to comply with FCC Part 15 Subpart B Rules. The composite system (Transmitter) is intended for FCC ID: KFR-LSRTS is compliance with FCC Part 15 Subpart C Rules.

I/O PORT OF EUT

| I/O Port Type | Q'TY | TESTED WITH |
|---------------|------|-------------|
| 1). USB Port | 2 | 2 |

Note: Client consigns only one model sample (Model Number is PPRF64/128) to test.



3 TEST METHODOLOGY

3.1 EUT SYSTEM OPERATION

1. Windows XP boots system.
2. Select a PowerPoint file in EUT to execute and page up or down by remote controller.
3. Run Emctest.exe to activate all peripherals and display “H” pattern on the screen.

Note: Test program is self-repeating throughout the test.

3.2 DECISION OF FINAL TEST MODE

1. The following test mode(s) were scanned during the preliminary test:

Conduction:

- 1. NORMAL MODE**

Radiation:

- 1. NORMAL MODE**

2. After the preliminary scan, the following test mode was found to produce the highest emission level.

Conduction: Mode 1

Radiation: Mode 1

Then, the EUT configuration and cable configuration of the above highest emission mode was recorded for all final test items.



4 SETUP OF EQUIPMENT UNDER TEST

Setup Diagram

See test photographs attached in Appendix I for the actual connections between EUT and support equipment.

Support Equipment

| No | Equipment | Model | Serial No. | FCC ID | Trade Name | Data Cable | Power Cord |
|----|-------------------|-------------|-----------------|-----------------------------------|------------|-------------------------------------|---------------------|
| 1. | PS/2 Mouse | M-S34 | LNA12301809 | BSMI ID: 4862A011 DZL211029 | Logitech | Shielded, 1.8m | N/A |
| 2. | PS/2 Keyboard | 6311-TW4C16 | N/A | BSMI ID: 4862A064 | ACER | Shielded, 1.8m | N/A |
| 3. | Remote Controller | PPREM | N/A | N/A | VISION | N/A | N/A |
| 4. | Printer | C20SX | N/A | BSMI ID: 3902E004 | EPSON | Shielded, 1.8m | Unshielded, 1.8m |
| 5. | Monitor | 171T | BH17H4LT702628A | R33475 | SAMSUNG | Shielded, 1.8m with two cores | Unshielded, 1.8m |
| 6. | Host PC | P Evo D510C | 7308-KN8Z-0010 | BSMI ID:3912Q007 | COMPAQ | Shielded, 1.4m | Unshielded, 1.8m |
| 7. | Modem | 1414 | N/A | IFAXDM1414 | ACEEX | Shielded, 0.9m | Unshielded, 1.8m |
| 8. | USB Cable | N/A | N/A | N/A | N/A | Shielded, 1.4m | N/A |

Note: All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.

Grounding: Grounding was in accordance with the manufacturer's requirements and conditions for the intended use.



5 FACILITIES AND ACCREDITATIONS







5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at CCS Taiwan Hsintien Lab at No. 165, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan.

The measurement facilities are constructed in conformance with the requirements of CISPR 16-1, ANSI C63.4 and other equivalent standards.

5.2 LABORATORY ACCREDITATIONS AND LISTINGS

The test facilities used to perform Electromagnetic compatibility tests are registered or accredited by the organizations listed in the following table which includes the recognized scope specifically.

| Country | Agency | Scope of Accreditation | Logo |
|---------|--------|--|---|
| USA | A2LA | CFR 47, FCC Part 15/18 using ANSI 63.4; AS/NZS 3548; VCCI V3; CNS 13438; CNS 13439; CNS 13783; CNS 14115; CISPR 11/EN 55011; CISPR 14-1/EN 55014-1; CISPR 15/EN 55015; CISPR 22/EN 55022; EN 50081-1/EN 61000-6-3; EN 50082-1/EN 61000-6-4; IEC/EN 61000-4-2, IEC/EN 61000-4-3, IEC/EN 61000-4-4, IEC/EN 61000-4-5, IEC/EN 61000-4-6, IEC/EN 61000-4-8, IEC/EN 61000-4-11, IEC/EN 61000-3-2, IEC/EN 61000-3-3; CISPR 24/EN 55024; CISPR 14-2/EN 55014-2; EN 50081-2/EN 61000-6-1; EN 50082-2/EN 61000-6-2. |  824.01 |
| USA | FCC | 3/10 meter Open Area Test Sites to perform FCC Part 15/18 measurements |  250366 |
| Japan | VCCI | 3/10 meter Open Area Test Sites and Line Conducted Test Room to perform conducted/radiated measurements |  R-1434/1630~4 C-1511/1882 |
| Norway | NEMKO | EN 50081-1/2, EN 50082-1/2, IEC 61000-6-1/2/3/4, EN 50091-2, EN 50130-4, EN 55011, EN 55013, EN 55014-1/2, EN 55015, EN 55022, EN 55024, EN 61000-3-2/3, EN 61326-1, IEC 61000-4-2/3/4/5/6/8/11, Cispr 16-1/2/3/4 |  ELA 103 |
| Taiwan | CNLA | 47 CFR FCC Part 15 Subpart B, EN 61000-3-2, EN 61000-3-3, CNS 13439, CNS 13783-1, CNS 13438, AS/NZS 3548, VCCI, CNS 13022-1/2/3, EN 55022, EN 55013, EN 55014-1, EN 61000-4-2/3/4/5/6/8/11, ENV 50204, ENV 50141, ENV 50142 |  1108 ILAC MRA |
| Taiwan | BSMI | CNS 13438, CNS 13783-1, CNS 13439 |  SL2-IN-E-0005 SL2-A1-E-0005 SL2-R1-E-0005 SL2-R2-E-0005 |

Note: No part of this report may be used to claim or imply product endorsement by CNLA, A2LA or other government agency.



6 INSTRUMENT AND CALIBRATION

6.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

6.2 TEST AND MEASUREMENT EQUIPMENT

The following list contains measurement equipment used for testing. The equipment conforms to the requirement of CISPR 16-1, ANSI C63.2 and other equivalent standards.

Calibration of all test and measurement, including any accessories that may effect such calibration, is checked frequently to ensure the accuracy. Adjustments are made and correction factors are applied in accordance with the instructions contained in the respective manual.

Equipment Used for Emission Measurement

| Open Area Test Site # E | | | | |
|-------------------------|-----------|------------------|-------------------------|------------|
| EQUIPMENT | MFR | MODEL | SERIAL NUMBER | CAL. DUE |
| SITE NSA | CCS | E Site | N/A | 09/13/2004 |
| EMI TEST RECEIVER | R&S | DSAI-D / ESBI-RF | 827832/001 82706/003 | 03/08/2005 |
| ANTENNA | SCHAFFNER | CBL 6112B | 2802 | 09/27/2004 |
| AMPLIFIER | H.P. | 8447D A | 2727A05764 | 04/30/2005 |
| CABLE | BELDEN | 9913 | N-TYPE#E2&E3 | 03/05/2005 |
| THERMO-HYGRO METER | TFA | N/A | NO.6 | 11/23/2004 |

Note: The measurement uncertainty is less than +/- 3.36dB, which is evaluated as per the NAMAS NIS 81 and CISPR/A/291/CDV.

| Conducted Emission Test Site # A | | | | |
|----------------------------------|-------------|------------------|---------------|------------|
| EQUIPMENT | MFR | MODEL | SERIAL NUMBER | CAL. DUE |
| TEST RECEIVER | R&S | ESHS20 | 840455/006 | 03/07/2005 |
| LISN (EUT) | SCHWARZBECK | NSLK 8127 | 8127382 | 01/05/2005 |
| LISN | SOLAR | 8012-50-R-24-BNC | 8305114 | 02/10/2005 |
| BNC CABLE | MIYAZAKI | 5D-FB | BNC A1 | 01/30/2005 |

Note: The measurement uncertainty is less than +/- 2.83dB, which is evaluated as per the NAMAS NIS 81 and CISPR/A/291/CDV.



7 LINE CONDUCTED & RADIATED EMISSION TEST

7.1 LIMIT

Maximum permissible level of Line Conducted Emission

| FREQUENCY (MHz) | Class B (dBuV) | |
|--------------------|----------------|---------|
| | Quasi-peak | Average |
| 0.15 - 0.5 | 66 - 56 | 56 - 46 |
| 0.50 - 5.0 | 56 | 46 |
| 5.0 - 30.0 | 60 | 50 |

Note: The lower limit shall apply at the transition frequency.

Maximum permissible level of Radiated Emission measured at 3 meter

| FREQUENCY (MHz) | Class B (dBuV/m) |
|-----------------|------------------|
| | Peak |
| 30-88 | 40 |
| 88-216 | 43.5 |
| 216-960 | 46 |
| Above 960 | 54 |

Note: The lower limit shall apply at the transition frequency.



7.2 TEST PROCEDURE OF LINE CONDUCTED EMISSION

Procedure of Preliminary Test

- The EUT was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- Support equipment, if needed, was placed as per ANSI C63.4.
- All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- The test system with EUT received AC power, 120V/60Hz, through a Line Impedance Stabilization Network (LISN), which supplied power source and was grounded to the ground plane.
- All support equipment received power from a second LISN.
- The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a EMI Test Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to the Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Receiver.
- The Receiver scanned from 150kHz to 30MHz for emissions in each of the test modes.
- During the above scans, the emissions were maximized by cable manipulation.
- The test mode(s) described in Item 3.2 were scanned during the preliminary test.
- After the preliminary scan, we found the test mode described in Item 3.2 producing the highest emission level.
- The EUT configuration and cable configuration of the above highest emission level were recorded for reference of the final test.

**Procedure of Final Test**

- EUT and support equipment were set up on the test bench as per step 10 of the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the AV. limit in Q.P. mode, then the emission signal was re-checked using an AV. detector.
- The test data of the worst-case condition(s) was recorded.

Data Sample:

| Freq. MHz | Read Level dBuV | Factor dB | Level dBuV | Limit dBuV | Over Limit dB | Reading Type (P/Q/A) | Line (L1/L2) |
|--------------|-----------------------|--------------|---------------|---------------|---------------------|----------------------------|-----------------|
| x.xx | 42.95 | 0.55 | 43.50 | 56 | -12.50 | Q | L1 |

Freq. = Emission frequency in MHz
Read Level = Uncorrected Analyzer/Receiver reading
Factor = Insertion loss of LISN + Cable Loss
Level = Read Level + Factor
Limit = Limit stated in standard
Over Limit = Reading in reference to limit
P = Peak Reading
Q = Quasi-peak Reading
A = Average Reading
L1 = Hot side
L2 = Neutral side

Calculation Formula

Over Limit (dB) = Level (dBuV) – Limit (dBuV)



7.3 TEST PROCEDURE OF RADIATED EMISSION

Procedure of Preliminary Test

- The equipment was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane. When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- Support equipment, if needed, was placed as per ANSI C63.4.
- All I/O cables were positioned to simulate typical usage as per ANSI C63.4.
- The EUT received AC power source, 120VAC/60Hz, from the outlet socket under the turntable. All support equipment received power from another socket under the turntable.
- The antenna was placed at 10 meter away from the EUT as stated in ANSI C63.4. The antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier would be used.
- The Analyzer / Receiver quickly scanned from 30MHz to 2000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- The test mode(s) described in Item 3.2 were scanned during the preliminary test:
- After the preliminary scan, we found the test mode described in Item 3.2 producing the highest emission level.
- The EUT and cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for the final test.

**Procedure of Final Test**

- EUT and support equipment were set up on the turntable as per step 8 of the preliminary test.
- The Analyzer / Receiver scanned from 30MHz to 2000MHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and only Q.P. reading is presented.
- The test data of the worst case condition(s) was recorded.

Data Sample:

| Freq. MHz | Read Level dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Over Limit dB | Reading Type (P/Q/A) | Pol. (H/V) |
|--------------|-----------------------|----------------|-----------------|-----------------|---------------------|----------------------------|---------------|
| x.xx | 14.0 | 12.2 | 26.2 | 40 | -13.8 | Q | H |

Freq. = Emission frequency in MHz
Read Level = Uncorrected Analyzer/Receiver reading
Factor = Antenna Factor + Cable Loss + Attenuator (3/6/10dB) – Amplifier Gain
Level = Read Level + Factor
Limit = Limit stated in standard
Over Limit = Reading in reference to limit
P = Peak Reading
Q = Quasi-peak Reading
A = Average Reading
H = Antenna Polarization: Horizontal
V = Antenna Polarization: Vertical

Calculation Formula

Over Limit (dB) = Level (dBuV/m) – Limit (dBuV/m)



7.4 TEST RESULTS

Line Conducted Emission

Model: PPRF64/128**Test Mode:** Mode 1**Temperature:** 28 °C**Humidity:** 50% RH**Test Results:** Passed**Tested by:** Alex Pan

(The chart below shows the highest readings taken from the final data, see **Appendix II** for details.)

| Six Highest Conducted Emission Readings | | | | | | | |
|---|-------------------------|----------------|-----------------|-------------------------|-----------------------|----------------------------|-----------------|
| Frequency Range Investigated | | | | 150 kHz to 30 MHz | | | |
| Freq (MHz) | Read Level (dBuV) | Factor (dB) | Level (dBuV) | Limit Line (dBuV) | Over Limit (dB) | Reading Type (P/Q/A) | Line (L1/L2) |
| 0.234 | 43.36 | 0.11 | 43.47 | 62.30 | -18.83 | P | L1 |
| 0.279 | 41.66 | 0.12 | 41.78 | 60.85 | -19.07 | P | L1 |
| 0.330 | 36.98 | 0.12 | 37.10 | 59.44 | -22.34 | P | L1 |
| 0.235 | 41.44 | 0.11 | 41.55 | 62.26 | -20.71 | P | L2 |
| 0.282 | 41.50 | 0.12 | 41.62 | 60.76 | -19.14 | P | L2 |
| 0.327 | 37.06 | 0.12 | 37.18 | 59.53 | -22.35 | P | L2 |

NOTE: The emission level was or more than 2dB below the Average limit, so no re-check anymore.

**Radiated Emission****Model:** PPRF64/128**Test Mode:** Mode 1**Temperature:** 34°C**Humidity:** 45% RH**Test Results:** Pass**Tested by:** Alex Pan

(The chart below shows the highest readings taken from the final data, see **Appendix II** for details.)

| Six Highest Radiated Emission Readings | | | | | | | |
|--|-------------------------|------------------|-------------------|---------------------------|-----------------------|----------------------------|---------------|
| Frequency Range Investigated | | | | 30 MHz to 1000 MHz at 10m | | | |
| Freq (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Reading Type (P/Q/A) | Pol. (H/V) |
| 54.889 | 52.68 | -20.31 | 32.37 | 40.00 | -7.63 | P | V |
| 84.489 | 44.53 | -19.37 | 25.16 | 40.00 | -14.84 | P | V |
| 352.522 | 40.85 | -9.79 | 31.06 | 46.00 | -14.94 | P | V |
| 68.547 | 49.05 | -21.54 | 27.51 | 40.00 | -12.49 | P | H |
| 250.067 | 49.48 | -12.70 | 36.78 | 46.00 | -9.22 | P | H |
| 319.667 | 43.51 | -10.76 | 32.75 | 46.00 | -13.25 | P | H |

NOTE: None.



APPENDIX I - PHOTOGRAPHS OF TEST SETUP

LINE CONDUCTED EMISSION TEST





RADIATED EMISSION TEST





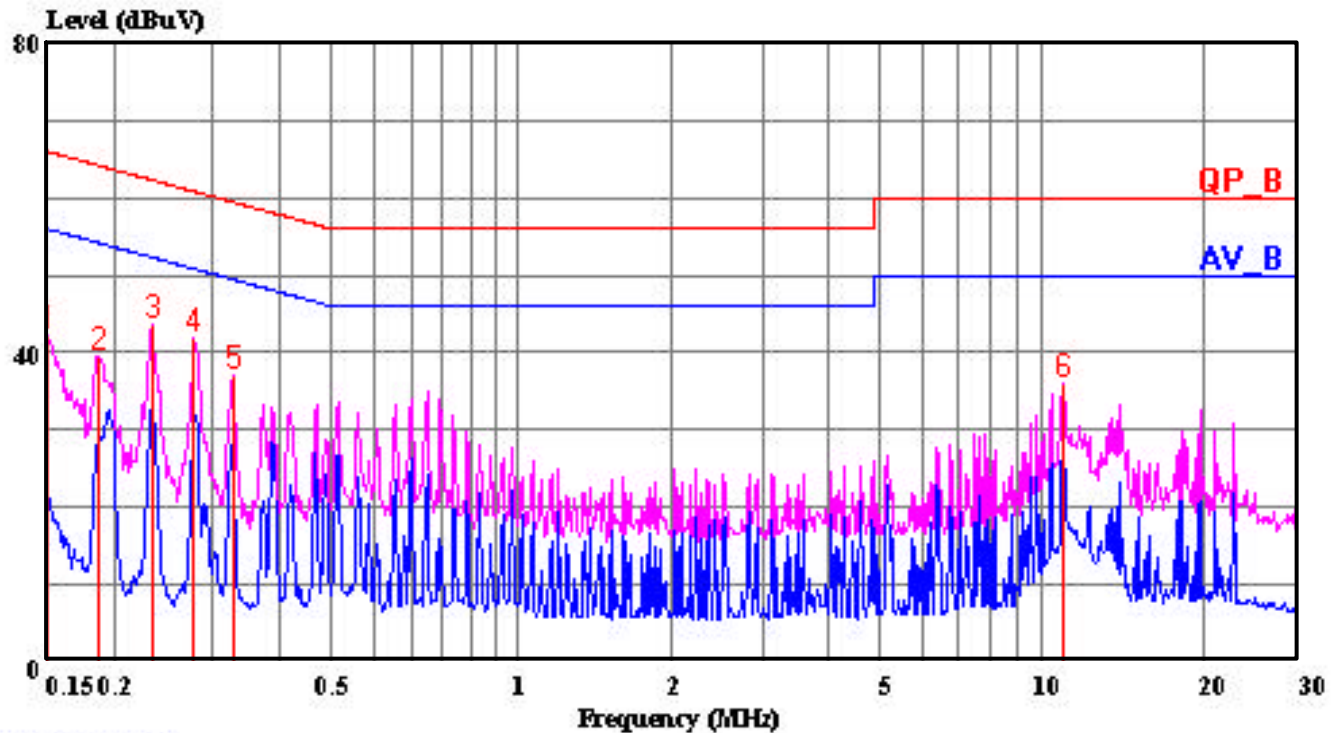
APPENDIX II - TEST RESULT OF FINAL DATAS

Conducted Emission Plot

Radiated Emission Data

Data#: 6 File#: 40707413C.EMI

Date: 2004-07-15 Time: 17:39:55



(Conduction A)

Trace: 5 4

Ref Trace:

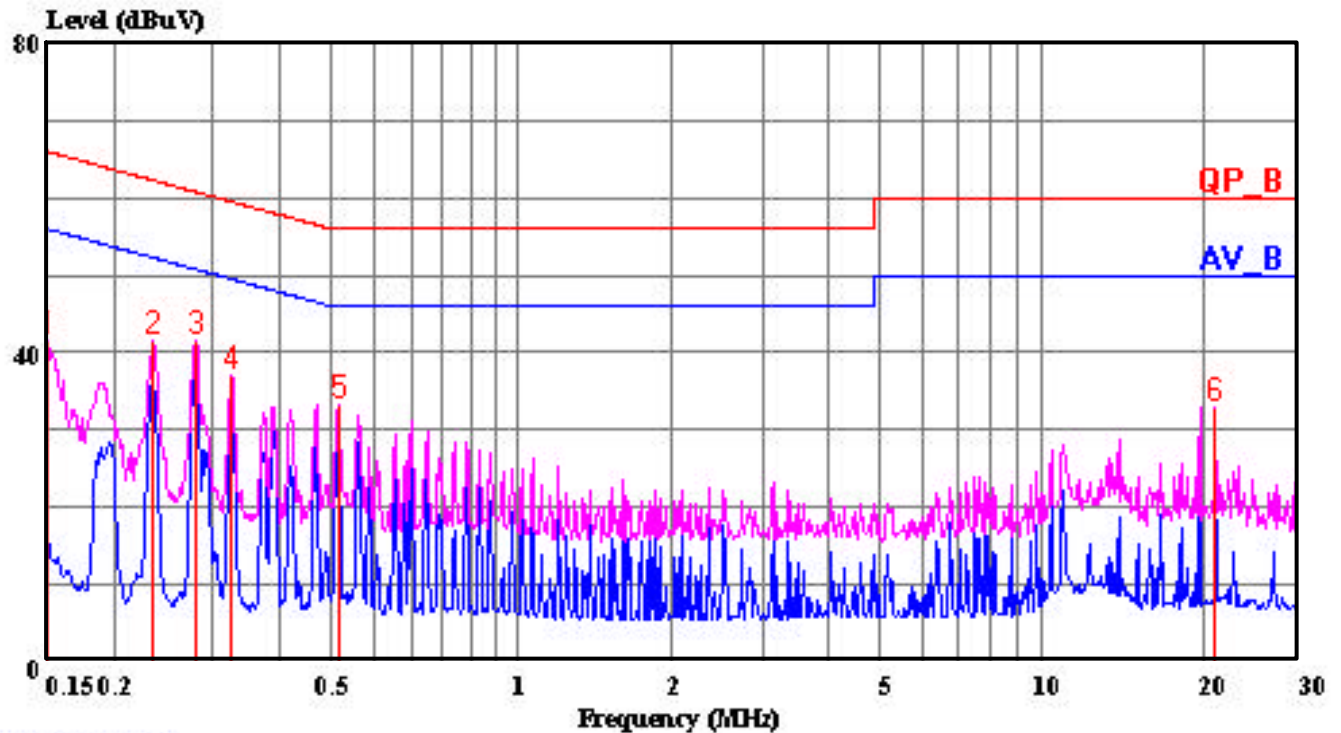
Condition: LINE
Report No. : 40707413
Test Engr. : ALEX PAN
Company : Vision Automobile Electronics Industrial Co., Ltd.
EUT : PPRF64/128
Test Config : EUT / ALL PERIPHERALS
Type of Test: FCC CLASS B
Mode of Op. : NORMAL MODE

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| | Freq | Read Level | Factor | Level | Limit Line | Over Limit | Remark |
|---|--------|---------------|--------|-------|---------------|---------------|--------|
| | MHz | dBuV | dB | dBuV | dBuV | dB | |
| 1 | 0.150 | 42.02 | 0.11 | 42.13 | 66.00 | -23.87 | Peak |
| 2 | 0.185 | 39.36 | 0.11 | 39.47 | 64.24 | -24.77 | Peak |
| 3 | 0.234 | 43.36 | 0.11 | 43.47 | 62.30 | -18.83 | Peak |
| 4 | 0.279 | 41.66 | 0.12 | 41.78 | 60.85 | -19.07 | Peak |
| 5 | 0.330 | 36.98 | 0.12 | 37.10 | 59.44 | -22.34 | Peak |
| 6 | 11.080 | 35.48 | 0.54 | 36.02 | 60.00 | -23.98 | Peak |

Data#: 3 File#: 40707413C.EMI

Date: 2004-07-15 Time: 17:35:39



(Conduction A)

Trace: 2 1

Ref Trace:

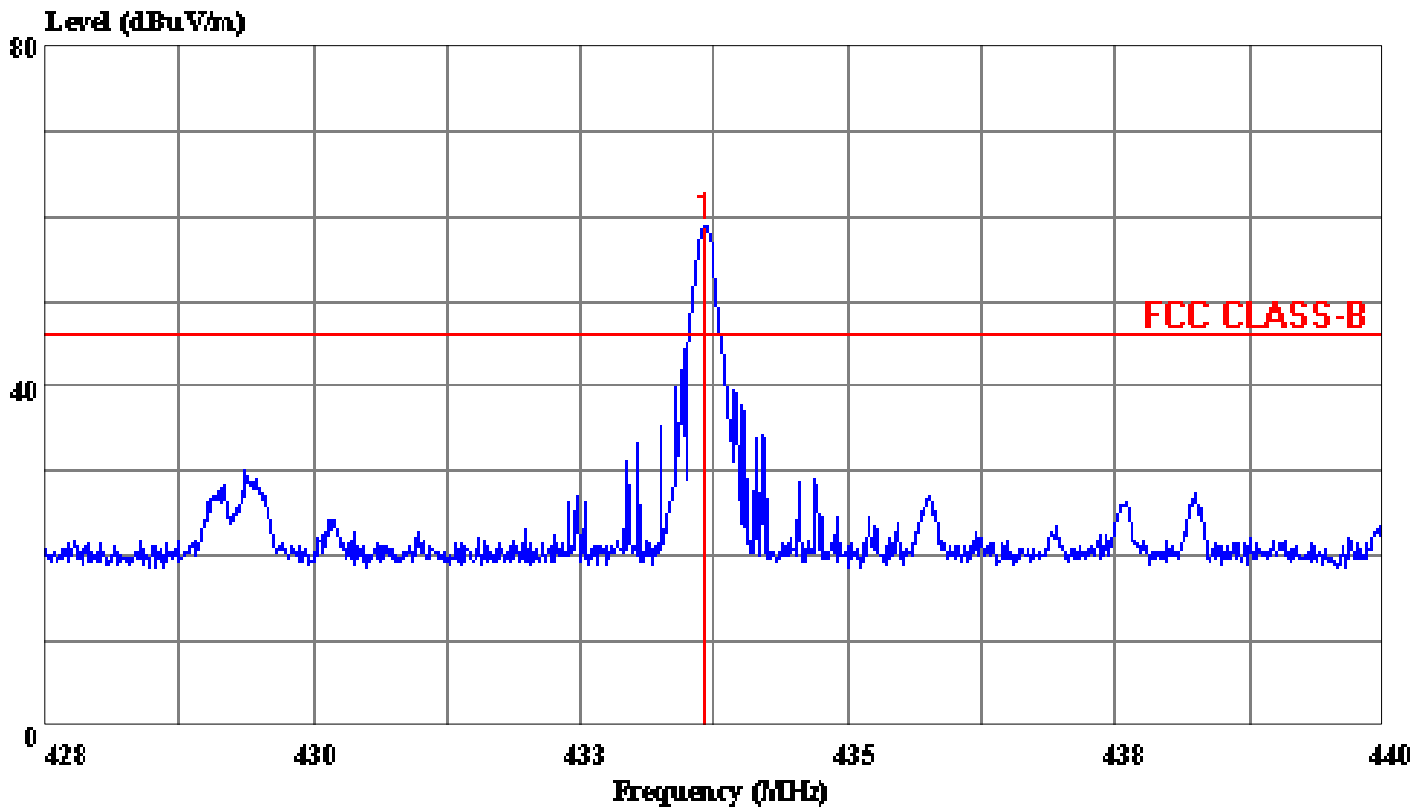
Condition: NEUTRAL
Report No. : 40707413
Test Engr. : ALEX PAN
Company : Vision Automobile Electronics Industrial Co., Ltd.
EUT : PPRF64/128
Test Config : EUT / ALL PERIPHERALS
Type of Test: FCC CLASS B
Mode of Op. : NORMAL MODE

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| | Freq | Read Level | Factor | Level | Limit Line | Over Limit | Remark |
|---|--------|---------------|--------|-------|---------------|---------------|--------|
| | MHz | dBuV | dB | dBuV | dBuV | dB | |
| 1 | 0.150 | 41.48 | 0.11 | 41.59 | 66.00 | -24.41 | Peak |
| 2 | 0.235 | 41.44 | 0.11 | 41.55 | 62.26 | -20.71 | Peak |
| 3 | 0.282 | 41.50 | 0.12 | 41.62 | 60.76 | -19.14 | Peak |
| 4 | 0.327 | 37.06 | 0.12 | 37.18 | 59.53 | -22.35 | Peak |
| 5 | 0.516 | 33.22 | 0.12 | 33.34 | 56.00 | -22.66 | Peak |
| 6 | 21.147 | 32.12 | 0.93 | 33.05 | 60.00 | -26.95 | Peak |

Data#: 4 File#: 40707413E.EMI

Date: 2004-08-02 Time: 11:07:58



(Compliance E- Site)

Trace: 3

Ref Trace:

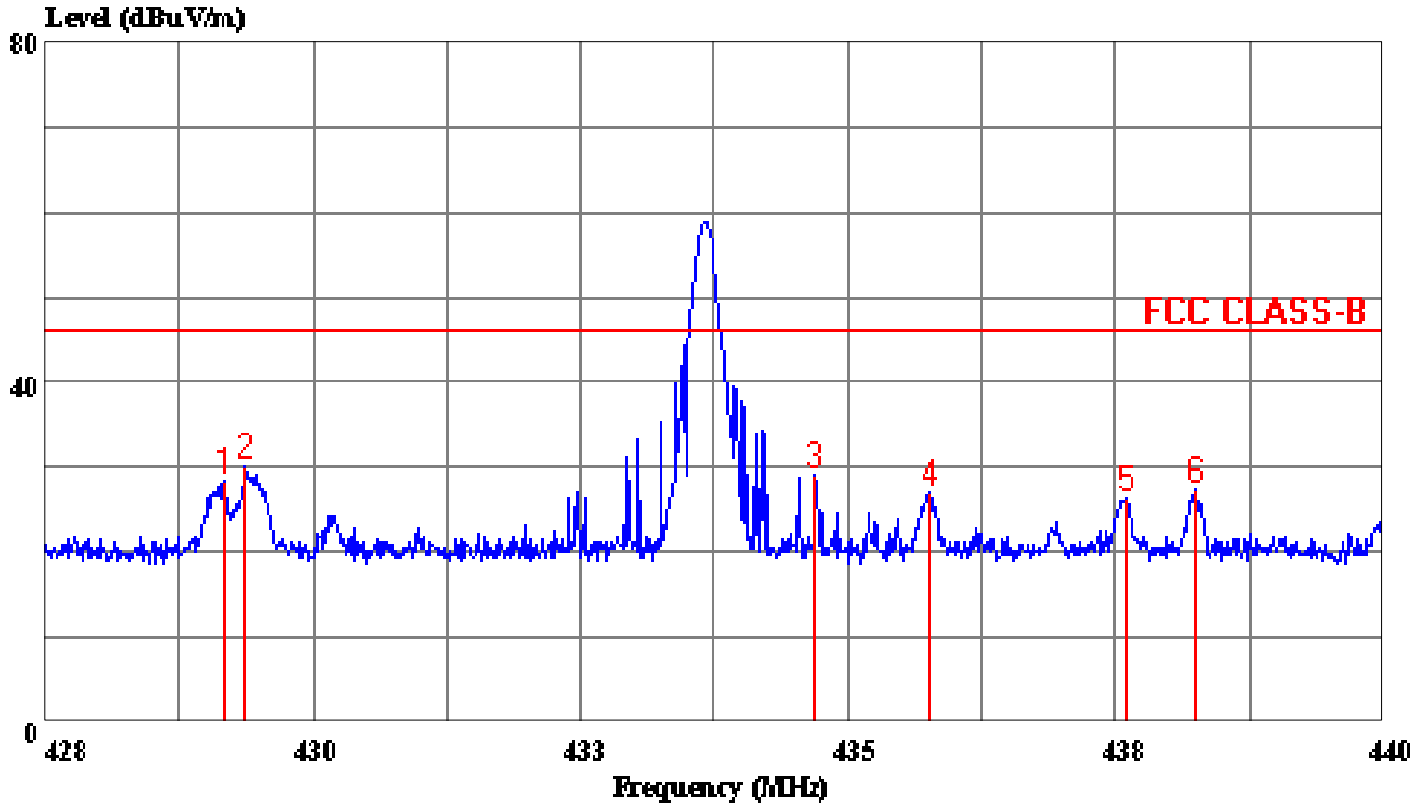
Condition: VERTICAL/3M
Report No. : 40707413
Test Engr. : ALEX PAN
Company : Vision Automobile Electronics Industrial Co., Ltd.
EUT : PPRF64/128
Test Config : EUT / ALL PERIPHERALS
Type of Test: FCC CLASS B
Mode of Op. : RX MODE

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| | Freq | Read Level |
|-----|---------|---------------|
| | MHz | dBuV |
| 1 * | 433.916 | 67.02 |

Data#: 11 File#: 40707413E.EMI

Date: 2004-08-02 Time: 11:09:16



(Compliance E- Site)

Trace: 3

Ref Trace:

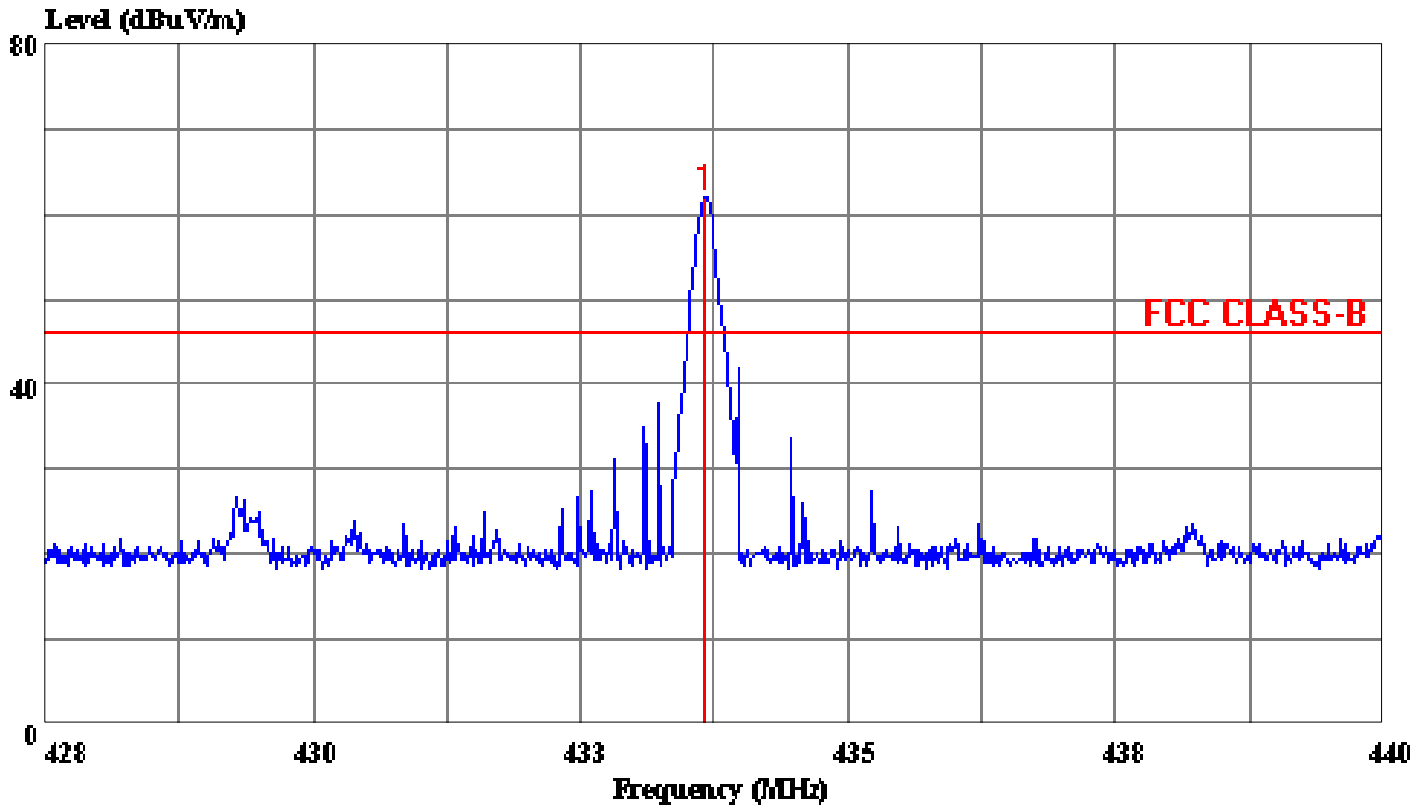
Condition: VERTICAL /3M
Report No. : 40707413
Test Engr. : ALEX PAN
Company : Vision Automobile Electronics Industrial Co., Ltd.
EUT : PPRF64/128
Test Config : EUT / ALL PERIPHERALS
Type of Test: FCC CLASS B
Mode of Op. : RX MODE

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| | Freq | Read Level | Factor | Level | Limit Line | Over Limit | Remark |
|---|---------|------------|--------|--------|------------|------------|--------|
| | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | |
| 1 | 429.596 | 36.58 | -8.11 | 28.47 | 46.00 | -17.53 | Peak |
| 2 | 429.800 | 38.10 | -8.12 | 29.98 | 46.00 | -16.02 | Peak |
| 3 | 434.900 | 37.24 | -7.99 | 29.25 | 46.00 | -16.75 | Peak |
| 4 | 435.932 | 34.85 | -8.00 | 26.85 | 46.00 | -19.15 | Peak |
| 5 | 437.684 | 34.34 | -7.99 | 26.35 | 46.00 | -19.65 | Peak |
| 6 | 438.320 | 35.18 | -7.99 | 27.19 | 46.00 | -18.81 | Peak |

Data#: 7 File#: 40707413E.EMI

Date: 2004-08-02 Time: 11:11:26



(Compliance E- Site)

Trace: 6

Ref Trace:

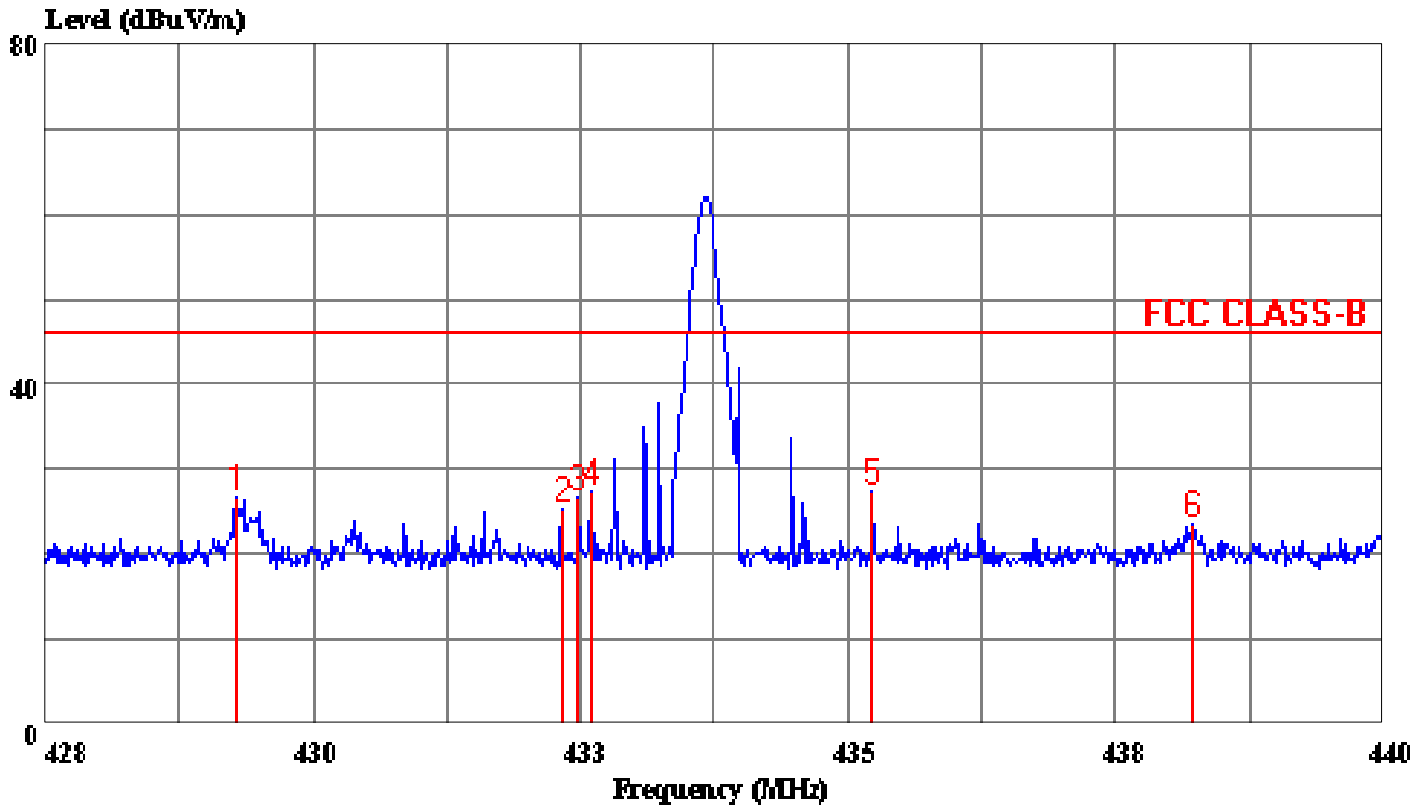
Condition: HORIZONTAL /3M
Report No. : 40707413
Test Engr. : ALEX PAN
Company : Vision Automobile Electronics Industrial Co., Ltd.
EUT : PPRF64/128
Test Config : EUT / ALL PERIPHERALS
Type of Test: FCC CLASS B
Mode of Op. : RX MODE

Page: 1

| | Read |
|-------------|-------|
| Freq | Level |
| MHz | dBuV |
| 1 * 433.916 | 70.00 |

Data#: 10 File#: 40707413E.EMI

Date: 2004-08-02 Time: 11:12:16



(Compliance E- Site)

Trace: 6

Ref Trace:

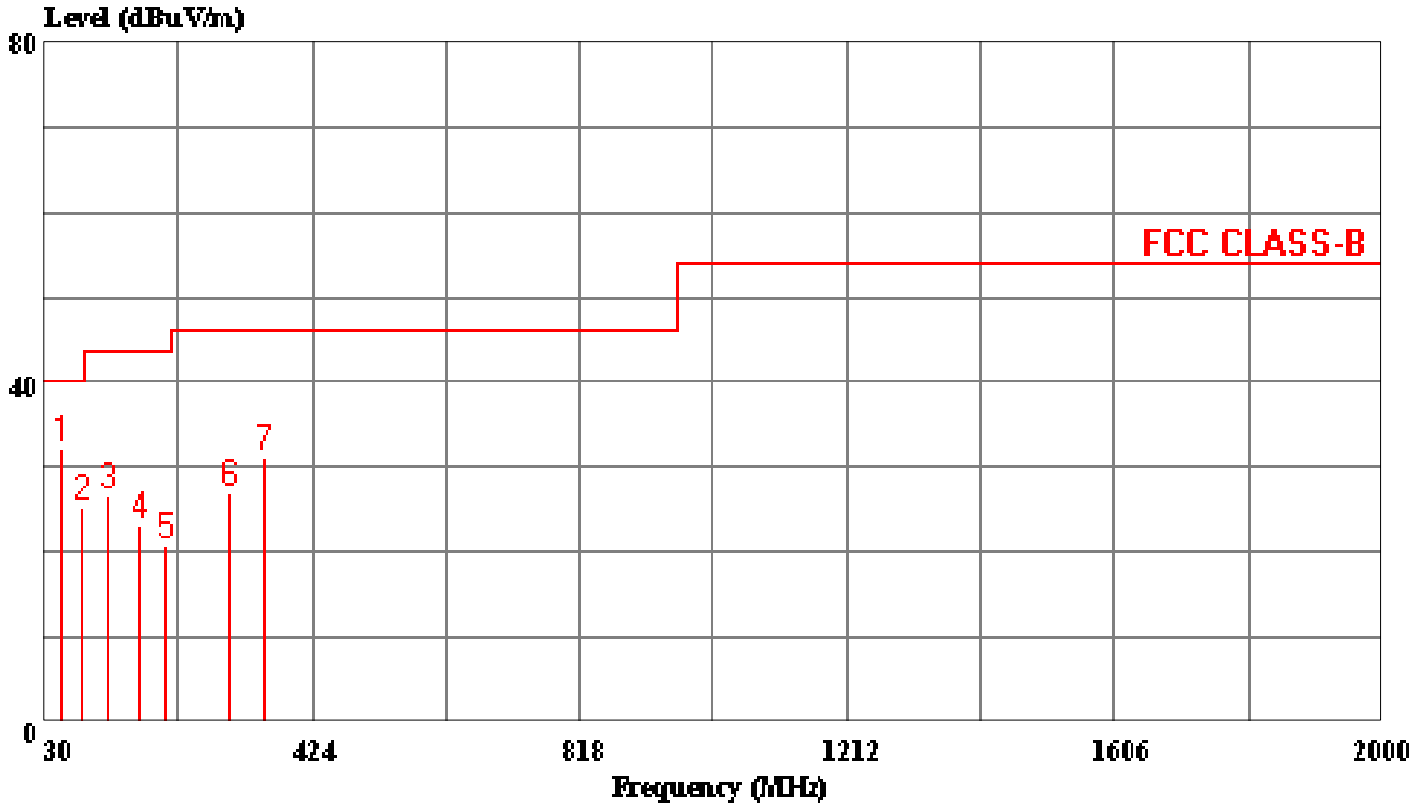
Condition: HORIZONTAL /3M
Report No. : 40707413
Test Engr. : ALEX PAN
Company : Vision Automobile Electronics Industrial Co., Ltd.
EUT : PPRF64/128
Test Config : EUT / ALL PERIPHERALS
Type of Test: FCC CLASS B
Mode of Op. : RX MODE

Page: 1

| | Freq | Read Level | Factor | Level | Limit Line | Over Limit | Remark |
|---|---------|------------|--------|--------|------------|------------|--------|
| | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | |
| 1 | 429.704 | 34.65 | -8.11 | 26.53 | 46.00 | -19.47 | Peak |
| 2 | 432.632 | 33.28 | -8.05 | 25.23 | 46.00 | -20.77 | Peak |
| 3 | 432.776 | 34.72 | -8.06 | 26.67 | 46.00 | -19.33 | Peak |
| 4 | 432.896 | 35.54 | -8.06 | 27.48 | 46.00 | -18.52 | Peak |
| 5 | 435.416 | 35.21 | -7.99 | 27.22 | 46.00 | -18.78 | Peak |
| 6 | 438.296 | 31.42 | -7.99 | 23.43 | 46.00 | -22.57 | Peak |

Data#: 2 File#: 40707413E.EMI

Date: 2004-07-15 Time: 14:34:47



(Compliance E- Site)

Trace:

Ref Trace:

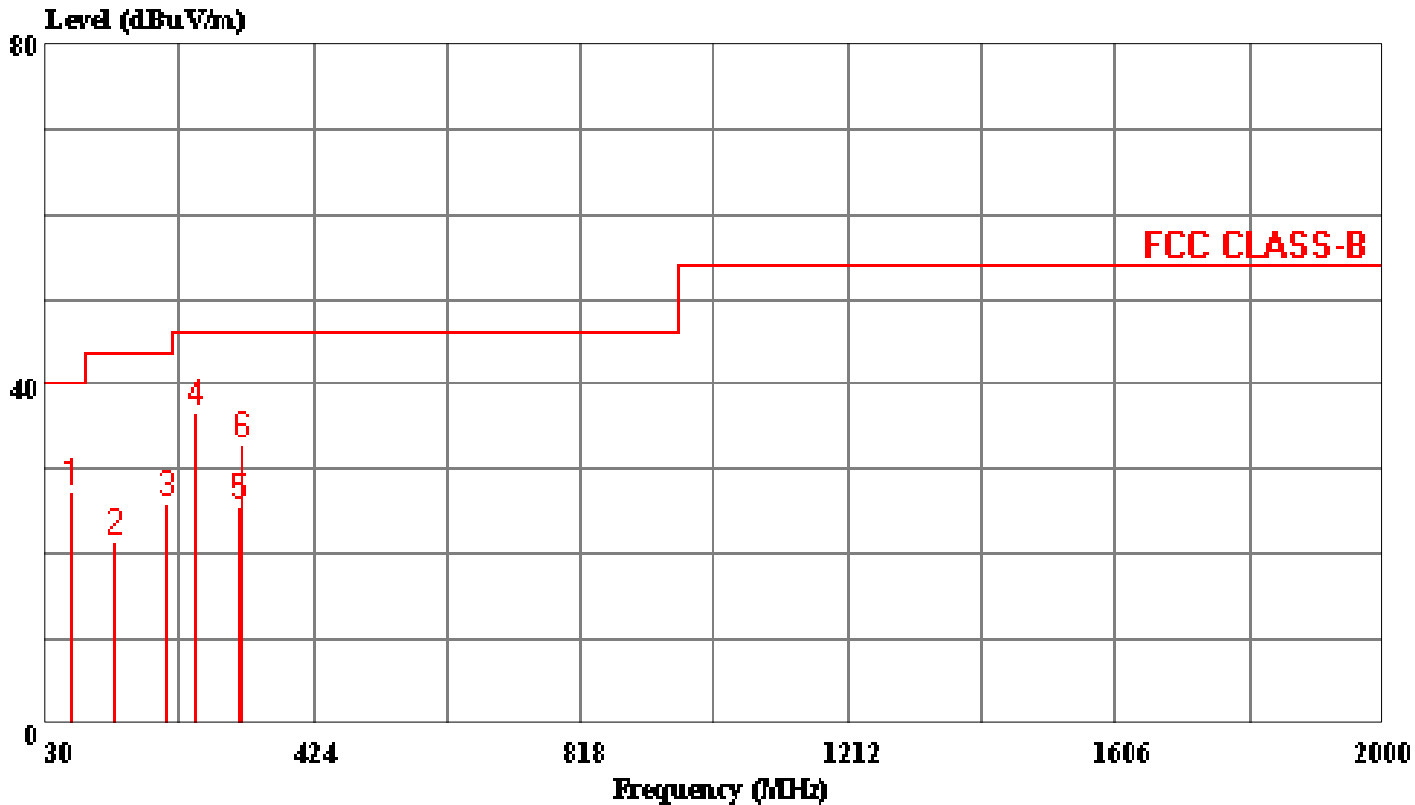
Condition: VERTICAL /3M
 Report No. : 40707413
 Test Engr. : ALEX PAN
 Company : Vision Automobile Electronics Industrial Co., Ltd.
 EUT : PPRF64/128
 Test Config : EUT / ALL PERIPHERALS
 Type of Test: FCC CLASS B
 Mode of Op. : NORMAL MODE
 : DATA READING FROM 30MHz TO 2GHz

Page: 1

| | Freq | Read Level | Factor | Level | Limit Line | Over Limit | Remark |
|---|---------|------------|--------|--------|------------|------------|--------|
| | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | |
| 1 | 54.889 | 52.68 | -20.31 | 32.37 | 40.00 | -7.63 | Peak |
| 2 | 84.489 | 44.53 | -19.37 | 25.16 | 40.00 | -14.84 | Peak |
| 3 | 125.000 | 41.13 | -14.54 | 26.59 | 43.50 | -16.91 | Peak |
| 4 | 168.500 | 39.45 | -16.41 | 23.04 | 43.50 | -20.46 | Peak |
| 5 | 209.100 | 36.28 | -15.35 | 20.93 | 43.50 | -22.57 | Peak |
| 6 | 300.856 | 38.46 | -11.40 | 27.06 | 46.00 | -18.94 | Peak |
| 7 | 352.522 | 40.85 | -9.79 | 31.06 | 46.00 | -14.94 | Peak |

Data#: 1 File#: 40707413E.EMI

Date: 2004-07-15 Time: 14:24:10



(Compliance E- Site)

Trace:

Ref Trace:

Condition: HORIZONTAL /3M
 Report No. : 40707413
 Test Engr. : ALEX PAN
 Company : Vision Automobile Electronics Industrial Co., Ltd.
 EUT : PPRF64/128
 Test Config : EUT / ALL PERIPHERALS
 Type of Test: FCC CLASS B
 Mode of Op. : NORMAL MODE
 : DATA READING FROM 30MHz TO 2GHz

Page: 1

| | Freq | Read Level | Factor | Level | Limit Line | Over Limit | Remark |
|---|---------|------------|--------|--------|------------|------------|--------|
| | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | |
| 1 | 68.547 | 49.05 | -21.54 | 27.51 | 40.00 | -12.49 | Peak |
| 2 | 130.622 | 36.43 | -14.81 | 21.62 | 43.50 | -21.88 | Peak |
| 3 | 210.100 | 41.20 | -15.26 | 25.94 | 43.50 | -17.56 | Peak |
| 4 | 250.067 | 49.48 | -12.70 | 36.78 | 46.00 | -9.22 | Peak |
| 5 | 315.445 | 36.53 | -10.88 | 25.65 | 46.00 | -20.35 | Peak |
| 6 | 319.667 | 43.51 | -10.76 | 32.75 | 46.00 | -13.25 | Peak |