

198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology

Development District, Guangzhou, China 510663
Tel: +86 20 82155555 Fax: +86 20 82075059
Email: sgs\_internet\_operations@sgs.com
FEDERAL COMMUNICATIONS COMMISSION

Registration number: 282399

Report No.: GZEM120100021301

Page: 1 of 28 FCC ID: AVJ-4300T

## TEST REPORT

| Application No.:            | GZEM1201000213RF (SGS HK NO.: 2025461/EE)        |
|-----------------------------|--|
| Applicant:                  | Bigben Interactive (HK) Ltd.                     |
| FCC ID:                     | AVJ-4300T  |
| Product Name:               | Parental Controller for PS3                      |
| <b>Product Description:</b> | Radio control PS3/PC game with 2.4GHz as carrier |
| Model No.:                  | BB4300   |
| Standards:                  | FCC PART 15 Subpart C: 2010 section 15.249       |
| Date of Receipt:            | 2012-02-01                                       |
| Date of Test:               | 2012-02-02 to 2012-02-13                         |
| Date of Issue:              | 2012-02-23                                       |
| Test Result :               | Pass*  |

\* In the configuration tested, the EUT complied with the standards specified above.



The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sqs.com/terms">www.sqs.com/terms</a> and conditions.htm</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sqs.com/terms.e-document.htm">www.sqs.com/terms.e-document.htm</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only"



Report No.: GZEM120100021301

Page: 2 of 28 FCC ID: AVJ-4300T

### 2 Version

| Revision Record |         |            |          |          |  |  |
|-----------------|---------|------------|----------|----------|--|--|
| Version         | Chapter | Date       | Modifier | Remark   |  |  |
| 00              |         | 2012-02-23 |          | Original |  |  |
|                 |         |            |          |          |  |  |
|                 |         |            |          |          |  |  |
|                 |         |            |          |          |  |  |
|                 |         |            |          |          |  |  |

| Authorized for issue by: |                                |                                |
|--------------------------|--------------------------------|--------------------------------|
| Tested By                | (Storm Shu) / Project Engineer | 2012-02-02 to 2012-02-13  Date |
| Prepared By              | (Storm Shu) / Project Engineer | 2012-02-20<br>Date             |
| Checked By               | Strong Yao/ Reviewer           | 2012-02-23  Date               |



Report No.: GZEM120100021301

Page: 3 of 28 FCC ID: AVJ-4300T

### 3 Test Summary

| TEST                          | TEST REQUIREMENT                         | TEST METHOD                  | RESULT |
|-------------------------------|--|------------------------------|--------|
| Field Strength of Fundamental | FCC PART 15 C<br>section 15.249 (a)      | ANSI C63.10:<br>Clause 6.6   | PASS   |
| Field Strength of             | FCC PART 15 C                            | ANSI C63.10:                 |        |
| Unwanted Emissions            | section 15.249 (a)<br>section 15.249 (d) | Clause 6.4, 6.6 and 6.7      | PASS   |
| Band Edges                    | FCC PART 15 C<br>section 15.249 (d)      | ANSI C63.10:<br>Clause 6.9.2 | PASS   |
| Occupied Bandwidth            | FCC PART 15 C<br>section 15.215(c)       | ANSI C63.10:<br>Clause 6.9.1 | PASS   |

### Remark:

EUT: In this whole report EUT means Equipment Under Test.

Tx: In this whole report Tx (or tx) means Transmitter.
Rx: In this whole report Rx (or rx) means Receiver.
RF: In this whole report RF means Radio Frequency.

ANSI C63.10: the detail version is ANSI C63.10:2009 in the whole report.



Report No.: GZEM120100021301

Page: 4 of 28 FCC ID: AVJ-4300T

### 4 Contents

| 1 | COVE  | ER PAGE  |            |
|---|-------|--|------------|
| 2 | VERS  | SION   |            |
| 3 |       | SUMMARY  |            |
|   |       |  |            |
| 4 | CON   | TENTS  | 4          |
| 5 | GENE  | ERAL INFORMATION   | 5          |
|   | 5.1   | Client Information   |            |
|   | 5.2   | General Description of E.U.T.  |            |
|   | 5.3   | Details of E.U.T.  |            |
|   | 5.4   | Description of Support Units   | 6          |
|   | 5.5   | Other Information Requested by the Customer                                      |            |
|   | 5.6   | Deviation from Standards   | 6          |
|   | 5.7   | Test Location  | 6          |
| 6 | EQUI  | PMENT USED DURING TEST   |            |
| 7 | TEST  | RESULTS  | 9          |
|   | 7.1   | E.U.T. Operation   |            |
|   | 7.2   | Antenna Requirement  |            |
|   | 7.3   | Field Strength of Fundamental & Field Strength of Unwanted Emissions & Band Edge |            |
|   | 7.4   | Occupied Bandwidth   |            |
| 8 | PHOT  | **OGRAPHS ERROR! BOOKMARK NOT  | DEFINED    |
|   | 8.1   | Radiated Emission Test Setup   | ot defined |
| 9 | FUT ( | CONSTRUCTIONAL DETAILS FRROR! BOOKMARK NOT                                       | DEFINED    |



Report No.: GZEM120100021301

Page: 5 of 28 FCC ID: AVJ-4300T

### 5 General Information

### 5.1 Client Information

Applicant: Bigben Interactive (HK) Ltd.

Address of Applicant: Unit 1505, 148 Electric Road, North Point, Hong Kong SAR China

### 5.2 General Description of E.U.T.

Product Name: Parental Controller for PS3

Model No.: BB4300

### 5.3 Details of E.U.T.

Operating Frequency 2402MHz to 2480MHz

Type of Modulation: GFSK

Number of Channels 79

Channel Separation: 1 MHz

Antenna Type single-ended monopole PCB antenna

Antenna gain: 1 dBi

Function: The EUT is a set of equipment.

With FHSS technology, the controller and dongle will hop between 2402

MHz and 2480 MHz with 79 channels to transfer data.

Power Supply: DC 3.0 V (size "AA" batteries x 2)

Power cord: N/A

### EUT channels and frequencies list:

| Channel | Frequency<br>(MHz) | Channel | Frequency<br>(MHz) | Channel | Frequency<br>(MHz) |
|---------|--------------------|---------|--------------------|---------|--------------------|
| 0       | 2402               | 11      | 2413               | 22      | 2424               |
| 1       | 2403               | 12      | 2414               | 23      | 2425               |
| 2       | 2404               | 13      | 2415               | 24      | 2426               |
| 3       | 2405               | 14      | 2416               | 25      | 2427               |
| 4       | 2406               | 15      | 2417               | 26      | 2428               |
| 5       | 2407               | 16      | 2418               | 27      | 2429               |
| 6       | 2408               | 17      | 2419               | 28      | 2430               |
| 7       | 2409               | 18      | 2420               | 29      | 2431               |
| 8       | 2410               | 19      | 2421               | 30      | 2432               |
| 9       | 2411               | 20      | 2422               | 31      | 2433               |
| 10      | 2412               | 21      | 2423               | 32      | 2434               |



Report No.: GZEM120100021301

Page: 6 of 28 FCC ID: AVJ-4300T

| 33 | 2435 | 49 | 2451 | 65 | 2467 |
|----|------|----|------|----|------|
| 34 | 2436 | 50 | 2452 | 66 | 2468 |
| 35 | 2437 | 51 | 2453 | 67 | 2469 |
| 36 | 2438 | 52 | 2454 | 68 | 2470 |
| 37 | 2439 | 53 | 2455 | 69 | 2471 |
| 38 | 2440 | 54 | 2456 | 70 | 2472 |
| 39 | 2441 | 55 | 2457 | 71 | 2473 |
| 40 | 2442 | 56 | 2458 | 72 | 2474 |
| 41 | 2443 | 57 | 2459 | 73 | 2475 |
| 42 | 2444 | 58 | 2460 | 74 | 2476 |
| 43 | 2445 | 59 | 2461 | 75 | 2477 |
| 44 | 2446 | 60 | 2462 | 76 | 2478 |
| 45 | 2447 | 61 | 2463 | 77 | 2479 |
| 46 | 2448 | 62 | 2464 | 78 | 2480 |
| 47 | 2449 | 63 | 2465 |    |      |
| 48 | 2450 | 64 | 2466 |    |      |

Test frequencies are the lowest channel: 0 channel(2402MHz), middle channel: 39 channel(2441MHz) and highest channel: 78 channel(2480MHz).

### 5.4 Description of Support Units

None.

### 5.5 Other Information Requested by the Customer

None.

### 5.6 Deviation from Standards

Biconical and log periodic antennas were used instead of dipole antennas.

### 5.7 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



Report No.: GZEM120100021301

Page: 7 of 28 FCC ID: AVJ-4300T

### 5.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

### NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is recognized under the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

### ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

### • SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier c EMC TESTING SERVICES and SAFETY TESTING SERVICES.

### CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

### • FCC (Registration No.: 282399)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

### • Industry Canada (Registration No.: 4620B-1)

The 3m/10m Alternate Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Lt has been registered by Certification and Engineering of Industry Canada for radio equipment testing with Registration No. 4620B-1.

### VCCI (Registration No.: R-2460, C-2584, G-449 and T-1179)

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2460, C-2584, G-449 and T-1179 respectively.

#### CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01:2006-10 and Rule of procedure IECEE 02:2006-10, and the relevant IECEE CB-Scheme Operational documents.



Report No.: GZEM120100021301

Page: 8 of 28 FCC ID: AVJ-4300T

## 6 Equipment Used during Test

| RE in Ch | amber  |                                    |            |               |              |            |
|----------|--|------------------------------------|------------|---------------|--------------|------------|
| Ma       | To a Factoria                                    | Manufacturer                       | Madal Na   | O a al al Nia | Cal.Due date | Calibratio |
| No.      | Test Equipment                                   | Manufacturer                       | Model No.  | Serial No.    | (YYYY-MM-DD) | n          |
| EMC0525  | Compact Semi-<br>Anechoic Chamber                | ChangZhou<br>ZhongYu               | N/A        | N/A           | 2012-09-06   | 2Y         |
| EMC0522  | EMI Test Receiver                                | Rohde & Schwarz                    | ESIB26     | 100283        | 2012-11-11   | 1Y         |
| EMC0056  | EMI Test Receiver                                | Rohde & Schwarz                    | ESCI       | 10036         | 2012-06-01   | 1Y         |
| EMC0528  | RI High frequency<br>Cable                       | SGS                                | 20 m       | N/A           | 2012-06-09   | 1Y         |
| EMC2025  | Trilog Broadband<br>Antenna 30-3000MHz           | SCHWARZBECK<br>MESS-<br>ELEKTRONIK | VULB 9163  | 9163-450      | 2012-10-20   | 1Y         |
| EMC0524  | Bi-log Type Antenna                              | Schaffner -Chase                   | CBL6112B   | 2966          | 2012-11-28   | 1Y         |
| EMC0519  | Bilog Type Antenna                               | Schaffner -Chase                   | CBL6143    | 5070          | 2012-11-28   | 1Y         |
| EMC2026  | Horn Antenna<br>1-18GHz                          | R&S                                | BBHA 9120D | 9120D-841     | 2012-10-20   | 1Y         |
| EMC0518  | Horn Antenna                                     | Rohde & Schwarz                    | HF906      | 100096        | 2012-08-29   | 1Y         |
| EMC0521  | 1-26.5 GHz<br>Pre-Amplifier                      | Agilent                            | 8449B      | 3008A01649    | 2012-08-29   | 1Y         |
| EMC0049  | Amplifier  | Agilent                            | 8447D      | 2944A10862    | 2012-04-21   | 1Y         |
| EMC0075  | 310N Amplifier                                   | Sonama                             | 310N       | 272683        | 2012-08-29   | 1Y         |
| EMC0523  | Active Loop Antenna                              | EMCO                               | 6502       | 42963         | 2012-11-17   | 1Y         |
|          | Broad-Band<br>Horn Antenna<br>(14)15-26.5(40)GHz | SCHWARZBECK<br>MESS-<br>ELEKTRONI  | BBHA 9170  | 9170-375      | 2012-06-01   | 1Y         |
| EMC0530  | 10m Semi-<br>Anechoic Chamber                    | ETS                                | N/A        | N/A           | 2012-05-10   | 2Y         |

| General u | General used equipment |              |           |            |              |            |  |
|-----------|------------------------|--------------|-----------|------------|--------------|------------|--|
| No.       | Test Equipment         | Manufacturer | Model No. | Serial No. | Cal.Due date | Calibratio |  |
| NO.       | rest Equipment         | Manufacturer | woder No. | Serial No. | (YYYY-MM-DD) | n Interval |  |
| EMC0006   | DMM                    | Fluke        | 73        | 70681569   | 2012-11-14   | 1Y         |  |
| EMC0007   | DMM                    | Fluke        | 73        | 70671122   | 2012-11-14   | 1Y         |  |



Report No.: GZEM120100021301

Page: 9 of 28 FCC ID: AVJ-4300T

### 7 Test Results

### 7.1 E.U.T. Operation

Test Voltage: DC 3.0 V

 Temperature:
 20.0 -25.0 °C

 Humidity:
 38-50 % RH

Atmospheric Pressure: 1000 -1010 mbar

Test frequencies and frequency range:

According to the 15.31(m) Measurements on intentional radiators or receivers, other than TV broadcast receivers, shall be performed and, if required, reported for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table:

According to the 15.33 (a) For an intentional radiator, the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency

shown in the following table:

### Number of fundamental frequencies to be tested in EUT transmit band

| Frequency range in which | Number of   | Location in frequency range     |
|--------------------------|-------------|---------------------------------|
| device operates          | frequencies | of operation                    |
| 1 MHz or less            | 1           | Middle                          |
| 1 MHz to 10 MHz          | 2           | 1 near top and 1 near bottom    |
| More then 10 MHz         | 2           | 1 near top, 1 near middle and 1 |
| More than 10 MHz         | J           | near bottom                     |

### Frequency range of radiated emission measurements

| Lowest frequency generated in the device | Upper frequency range of measurement                         |  |
|--|--|--|
| 9 kHz to below 10 GHz                    | 10th harmonic of highest fundamental frequency or to 40 GHz, |  |
| 9 KHZ to below 10 GHZ                    | whichever is lower   |  |
| At or above 10 GHz to below              | 5th harmonic of highest fundamental frequency or to 100 GHz, |  |
| 30 GHz                                   | whichever is lower   |  |
| At or above 30 GHz                       | 5th harmonic of highest fundamental frequency or to 200 GHz, |  |
| At or above 30 GHz                       | whichever is lower, unless otherwise specified               |  |



Report No.: GZEM120100021301

Page: 10 of 28 FCC ID: AVJ-4300T

### 7.2 Antenna Requirement

### 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.

### **EUT Antenna**

The antenna is a single-ended monopole PCB antenna and no consideration of replacement. The best case gain of the antenna is 1 dBi.

Test result: The unit does meet the FCC requirements.



Report No.: GZEM120100021301

Page: 11 of 28 FCC ID: AVJ-4300T

# 7.3 Field Strength of Fundamental& Field Strength of Unwanted Emissions& Band Edge

Test Requirement: FCC Part15 C section 15.249

(a) Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

| Fundamental<br>Frequency (MHz) | Field Strength of<br>Fundamental<br>(dBµV/m @ 3m) | Field Strength of<br>Harmonics<br>(dBµV/m @ 3m) |
|--------------------------------|---|---|
| 902 to 928                     | 94.0  | 54.0  |
| 2400 to 2483.5                 | 94.0  | 54.0  |
| 5725 to 5875                   | 94.0  | 54.0  |
| 24000 to 24250                 | 108.0   | 68.0  |

(d) 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.

Limits: The fundamental frequency rang is in the frequency band of the EUT is

2402MHz ~ 2480MHz.

The limit for Average field strength  $dB\mu V\!/m$  for the fundamental frequency =

 $94.0 \ dB\mu V/m$ .

The limit for Peak field strength  $dB\mu V/m$  for the fundamental frequency =

114.0 dBuV/m.

No fundamental is allowed in the restricted bands.

The limit for average field strength dB $\mu$ V/m for the harmonics = 54.0 dB $\mu$ V/m. The limit for peak field strength dB $\mu$ V/m for the harmonics = 74.0 dB $\mu$ V/m.

Emission radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or 54.0 dB $\mu V/m$  in 15.209. Here the limit for the other emission

is  $54.0 \text{ dB}\mu\text{V/m}$ .

Test Method: ANSI C63.10: Clause 6.4, 6.6 and 6.7 for Field Strength of Fundamental&

Field Strength of Unwanted Emissions

ANSI C63.10: Clause 6.9.2 for Band Edge

Status Pre-test the EUT in continuous transmitting mode with setup as stand-alone

in X, Y, Z threes axes, found the worst case is X axes and report the data.

Measurement

Distance:

3m (Semi-Anechoic Chamber)

Frequency range 30 MHz – 25 GHz for transmitting mode.

Test instrumentation resolution bandwidth

120 kHz (30 MHz - 1000 MHz), 1 MHz (1000 MHz - 25 GHz)

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sqs.com/terms">www.sqs.com/terms</a> and conditions.htm</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sqs.com/terms">www.sqs.com/terms</a> e-document.htm</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.



Report No.: GZEM120100021301

Page: 12 of 28 FCC ID: AVJ-4300T

#### **Test Procedure:**

#### 1)9 kHz to 30 MHz emissions:

For testing performed with the loop antenna, testing was performed in accordance to ANSI C63.10. The centre of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT, During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane.

### 2)30 MHz to 1 GHz emissions:

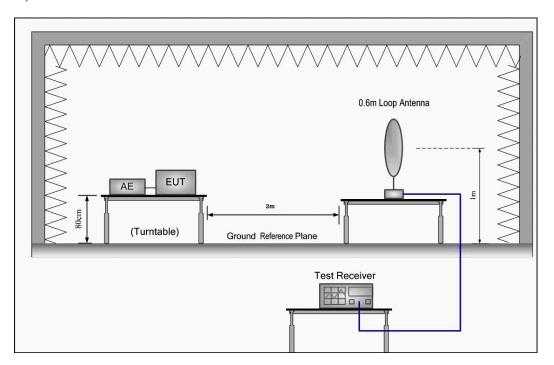
For testing performed with the bi-log type antenna, testing was performed in accordance to ANSI C63.10. The measurement is performed with the EUT rotated 360°, the antenna height scanned between 1m and 4m, and the antenna rotated to repeat the measurement for both the horizontal and vertical antenna polarizations.

#### 3)1 GHz to 25 GHz emissions:

For testing performed with the horn antenna, testing was performed in accordance to ANSI C63.10. The measurement is performed with the EUT rotated 360°, the antenna height scan between 1m and 4m, and the antenna rotated to repeat the measurement for both the horizontal and vertical antenna polarizations.

### **Test Configuration:**

1) 9 kHz to 30 MHz emissions:

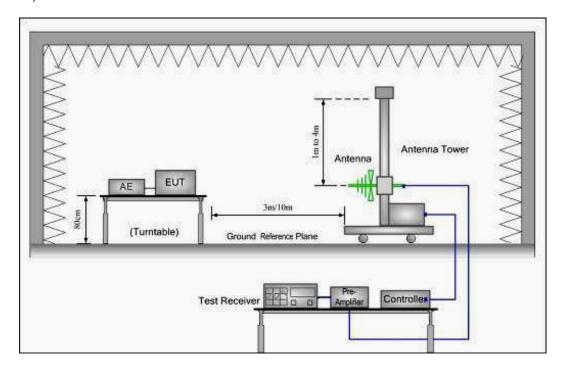




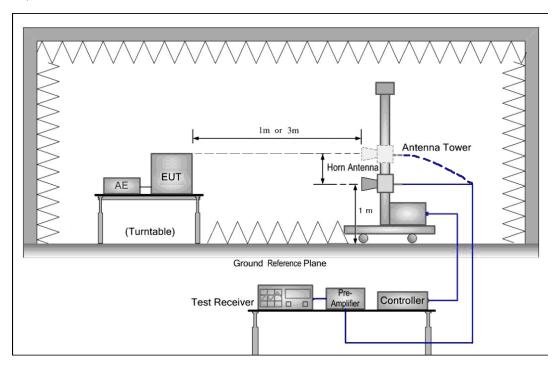
Report No.: GZEM120100021301

Page: 13 of 28 FCC ID: AVJ-4300T

### 2) 30 MHz to 1 GHz emissions:



### 3) 1 GHz to 25 GHz emissions:



The field strength is calculated by adding the Antenna Factor, Cable Loss & Per-amplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Loss - Preamplifier Factor



Report No.: GZEM120100021301

Page: 14 of 28 FCC ID: AVJ-4300T

### Test at low Channel in transmitting status

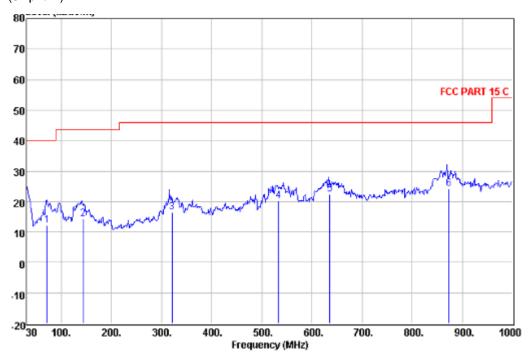
9 kHz~30 MHz Field Strength of Unwanted Emissions. Quasi-Peak Measurement

The measurements with active loop antenna were greater than 20dB below the limit, so the test data were not recorded in the test report.

30 MHz~1 GHz Field Strength of Unwanted Emissions.Quasi-Peak Measurement Vertical:

Peak scan

Level (dBµV/m)



| Freq    |       | Intenna<br>Factor |      |       |        |        | Limit<br>Line | Remark |
|---------|-------|-------------------|------|-------|--------|--------|---------------|--------|
| MHz     | dBu√  | dB/m              | dB   | dB    | dBuV/m | dB     | dBuV/m        |        |
| 70.874  | 34.54 | 4.69              |      |       | 12.25  |        |               | QP     |
| 143.320 | 30.06 | 10.41             | 1.18 | 27.45 | 14.20  | -29.30 | 43.50         | QP     |
| 321.250 | 28.34 | 13.52             | 1.87 | 27.24 | 16.49  | -29.51 | 46.00         | QP     |
| 532.960 | 27.82 | 18.02             | 2.47 | 28.16 | 20.15  | -25.85 | 46.00         | QP     |
| 635.520 | 28.98 | 18.80             | 2.67 | 28.19 | 22.26  | -23.74 | 46.00         | QP     |
| 873.320 | 27.20 | 20.73             | 3.39 | 26.97 | 24.35  | -21.65 | 46.00         | QP     |

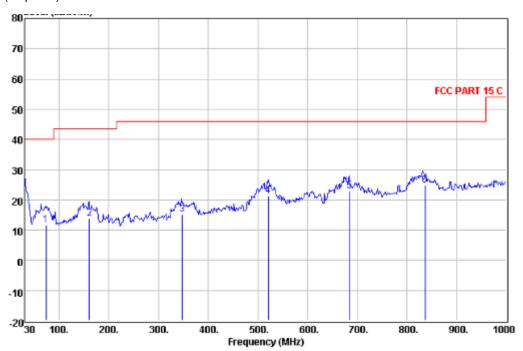


Report No.: GZEM120100021301

Page: 15 of 28 FCC ID: AVJ-4300T

### Horizontal:

Peak scan Level (dBµV/m)



| F    | req         |       | ntenna<br>Factor |      |       |        | Over<br>Limit | Limit<br>Line | Remark |
|------|-------------|-------|------------------|------|-------|--------|---------------|---------------|--------|
|      | MHz         | dBu√  | dB/m             | dB   | dB    | dBuV/m | dB            | dBuV/m        |        |
| 73.  | 250         | 33.70 | 5.01             | 0.84 | 27.78 | 11.77  | -28.23        | 40.00         | QP     |
| 160. | 960         | 31.05 | 8.90             | 1.23 | 27.38 | 13.80  | -29.70        | 43.50         | QP     |
| 348. | 020         | 26.43 | 14.29            | 1.95 | 27.43 | 15.24  | -30.76        | 46.00         | QP     |
| 521. | 440         | 29.56 | 17.50            | 2.45 | 28.12 | 21.39  | -24.61        | 46.00         | QP     |
| 685. | <b>0</b> 23 | 29.50 | 18.65            | 2.77 | 27.95 | 22.97  | -23.03        | 46.00         | QP     |
| 836. | 520         | 28.42 | 20.47            | 3.25 | 27.30 | 24.84  | -21.16        | 46.00         | ŌР     |



Report No.: GZEM120100021301

Page: 16 of 28 FCC ID: AVJ-4300T

1~25 GHz Field Strength of Fundamental & Field Strength of Unwanted Emissions.

Peak & Average Measurement

### **Peak Measurement:**

| Frequency<br>(MHz) | Antenna<br>factors<br>(dB/m) | Cable loss<br>(dB) | Preamp<br>factor<br>(dB) | Reading<br>Level<br>(dBµV) | Emission<br>Level<br>(dBµV/m) | Limit<br>(dBμV/m) | Antenna polarization |
|--------------------|------------------------------|--------------------|--------------------------|----------------------------|-------------------------------|-------------------|----------------------|
| 2402.000           | 27.58                        | 6.14               | 35.04                    | 91.86                      | 90.54                         | 114.00            | V                    |
| 4804.000           | 31.35                        | 8.98               | 34.30                    | 52.32                      | 58.53                         | 74.00             | V                    |
| 5711.000           | 32.21                        | 12.01              | 34.30                    | 43.17                      | 55.69                         | 74.00             | V                    |
| 7206.000           | 36.52                        | 12.23              | 34.30                    | 42.89                      | 57.30                         | 74.00             | V                    |
| 2402.000           | 27.58                        | 6.14               | 35.04                    | 90.00                      | 88.68                         | 114.00            | Н                    |
| 4804.000           | 31.35                        | 8.98               | 34.30                    | 51.13                      | 57.34                         | 74.00             | Н                    |
| 5711.000           | 32.21                        | 12.01              | 34.30                    | 47.21                      | 55.44                         | 74.00             | Н                    |
| 7206.000           | 36.52                        | 12.23              | 34.30                    | 42.90                      | 57.35                         | 74.00             | Н                    |

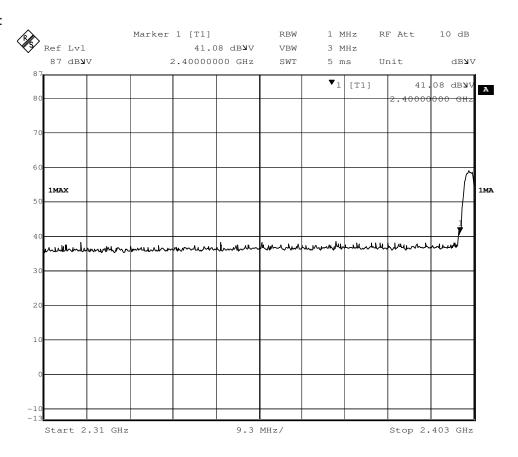
| Frequency<br>(MHz) | Antenna<br>factors<br>(dB/m) | Cable loss (dB) | Preamp<br>factor<br>(dB) | Reading<br>Level<br>(dBµV) | Emission<br>Level<br>(dBµV/m) | Limit<br>(dBμV/m) | Antenna<br>polarization |
|--------------------|------------------------------|-----------------|--------------------------|----------------------------|-------------------------------|-------------------|-------------------------|
| 2402.000           | 27.58                        | 6.14            | 35.04                    | 86.38                      | 85.06                         | 94.00             | V                       |
| 4804.000           | 31.35                        | 8.98            | 34.30                    | 44.23                      | 50.44                         | 54.00             | V                       |
| 5711.000           | 32.21                        | 12.01           | 34.30                    | 33.25                      | 45.77                         | 54.00             | V                       |
| 7206.000           | 36.52                        | 12.23           | 34.30                    | 32.25                      | 46.66                         | 54.00             | ٧                       |
| 2402.000           | 27.58                        | 6.14            | 35.04                    | 85.62                      | 84.30                         | 94.00             | Н                       |
| 4804.000           | 31.35                        | 8.98            | 34.30                    | 44.39                      | 50.60                         | 54.00             | Н                       |
| 5711.000           | 32.21                        | 12.01           | 34.30                    | 37.29                      | 45.52                         | 54.00             | Н                       |
| 7206.000           | 36.52                        | 12.23           | 34.30                    | 32.37                      | 46.82                         | 54.00             | Н                       |



Report No.: GZEM120100021301

Page: 17 of 28 FCC ID: AVJ-4300T

### Band Edge:



#### **Peak Measurement:**

| Frequency<br>(MHz) | Antenna<br>factors<br>(dB/m) | Cable loss<br>(dB) | Preamp<br>factor<br>(dB) | Reading<br>Level<br>(dBµV) | Emission<br>Level<br>(dBµV/m) | Limit<br>(dBμV/m) | Antenna polarization |
|--------------------|------------------------------|--------------------|--------------------------|----------------------------|-------------------------------|-------------------|----------------------|
| 2400.00            | 27.58                        | 6.14               | 35.04                    | 47.69                      | 46.37                         | 74.00             | V                    |
| 2483.50            | 27.56                        | 6.27               | 34.96                    | 47.75                      | 46.62                         | 74.00             | V                    |
| 2400.00            | 27.58                        | 6.14               | 35.04                    | 49.26                      | 47.94                         | 74.00             | Н                    |
| 2483.50            | 27.56                        | 6.27               | 34.96                    | 48.89                      | 47.76                         | 74.00             | Н                    |

| Frequency<br>(MHz) | Antenna<br>factors<br>(dB/m) | Cable loss<br>(dB) | Preamp<br>factor<br>(dB) | Reading<br>Level<br>(dBµV) | Emission<br>Level<br>(dBµV/m) | Limit<br>(dBμV/m) | Antenna polarization |
|--------------------|------------------------------|--------------------|--------------------------|----------------------------|-------------------------------|-------------------|----------------------|
| 2400.00            | 27.58                        | 6.14               | 35.04                    | 36.70                      | 35.38                         | 54.00             | V                    |
| 2483.50            | 27.56                        | 6.27               | 34.99                    | 36.88                      | 35.72                         | 54.00             | V                    |
| 2400.00            | 27.58                        | 6.14               | 35.04                    | 34.90                      | 33.58                         | 54.00             | Н                    |
| 2483.50            | 27.56                        | 6.27               | 34.99                    | 37.33                      | 36.17                         | 54.00             | Н                    |



Report No.: GZEM120100021301

Page: 18 of 28 FCC ID: AVJ-4300T

### Test at middle Channel in transmitting status

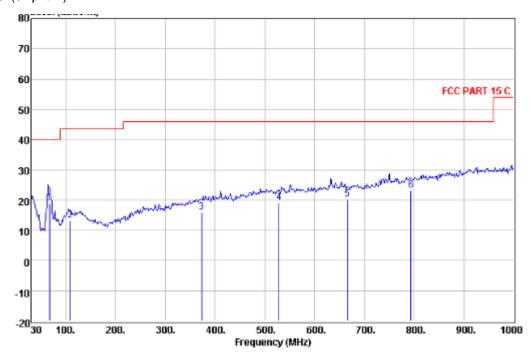
9 kHz~30 MHz Field Strength of Unwanted Emissions. Quasi-Peak Measurement

The measurements with active loop antenna were greater than 20dB below the limit, so the test data were not recorded in the test report.

30 MHz~1 GHz Field Strength of Unwanted Emissions.Quasi-Peak Measurement Vertical:

Peak scan

Level (dBµV/m)



|         | ReadA | ntenna | Cable | Preamp |        | Over   | Limit  |        |
|---------|-------|--------|-------|--------|--------|--------|--------|--------|
| Freq    | Level | Factor | Loss  | Factor | Level  | Limit  | Line   | Remark |
|         |       |        |       |        |        |        |        |        |
| MHz     | dBu∀  | dB/m   | dB    | dB     | dBuV/m | dB     | dBuV/m |        |
|         |       |        |       |        |        |        |        |        |
| 66.860  | 41.46 | 4.54   | 0.77  | 27.80  | 18.97  | -21.03 | 40.00  | QР     |
| 108.570 | 28.07 | 11.81  | 1.04  | 27.63  | 13.29  | -30.21 | 43.50  | QP     |
| 373.380 | 26.25 | 15.31  | 2.02  | 27.60  | 15.98  | -30.02 | 46.00  | QP     |
| 528.580 | 27.11 | 17.82  | 2.46  | 28.14  | 19.25  | -26.75 | 46.00  | QP     |
| 666.320 | 27.18 | 18.45  | 2.73  | 28.04  | 20.32  | -25.68 | 46.00  | QP     |
| 793.390 | 27.70 | 19.97  | 3.07  | 27.64  | 23.10  | -22.90 | 46.00  | QP     |

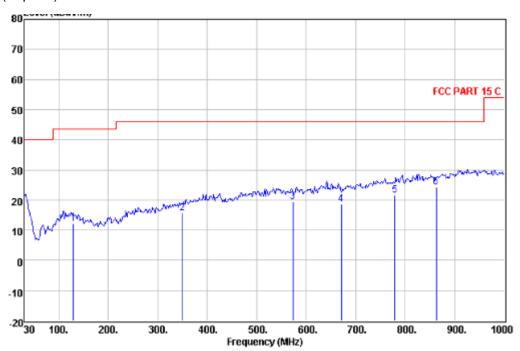


Report No.: GZEM120100021301

Page: 19 of 28 FCC ID: AVJ-4300T

### Horizontal:

Peak scan Level (dBµV/m)



|   | Freq    |       | Antenna<br>Factor |      |       |        |        | Limit<br>Line | Remark |
|---|---------|-------|-------------------|------|-------|--------|--------|---------------|--------|
| _ | MHz     | dBu∀  | dB/m              | dB   | dB    | dBuV/m | dB     | dBuV/m        |        |
| 1 | 129.910 | 26.65 | 12.00             | 1.13 | 27.51 | 12.27  | -31.23 | 43.50         | QP     |
| 3 | 349.130 | 26.77 | 14.34             | 1.95 | 27.44 | 15.62  | -30.38 | 46.00         | QΡ     |
| 5 | 73.200  | 26.84 | 18.42             | 2.55 | 28.30 | 19.51  | -26.49 | 46.00         | QP     |
| 6 | 571.170 | 25.70 | 18.30             | 2.74 | 28.02 | 18.72  | -27.28 | 46.00         | QP     |
| 7 | 778.840 | 26.36 | 19.80             | 3.03 | 27.68 | 21.51  | -24.49 | 46.00         | QP     |
| 8 | 363.230 | 27.47 | 20.57             | 3,36 | 27.06 | 24.34  | -21.66 | 46.00         | ŌΡ     |



Report No.: GZEM120100021301

Page: 20 of 28 FCC ID: AVJ-4300T

1~25 GHz Field Strength of Fundamental & Field Strength of Unwanted Emissions.

Peak & Average Measurement

### **Peak Measurement:**

| Frequency<br>(MHz) | Antenna<br>factors<br>(dB/m) | Cable loss<br>(dB) | Preamp<br>factor<br>(dB) | Reading<br>Level<br>(dBµV) | Emission<br>Level<br>(dBµV/m) | Limit<br>(dBμV/m) | Antenna<br>polarization |
|--------------------|------------------------------|--------------------|--------------------------|----------------------------|-------------------------------|-------------------|-------------------------|
| 2442.000           | 27.57                        | 6.20               | 35.01                    | 91.40                      | 90.16                         | 114.00            | V                       |
| 4882.000           | 31.57                        | 8.63               | 34.30                    | 55.01                      | 60.91                         | 74.00             | V                       |
| 5494.000           | 32.04                        | 11.24              | 34.30                    | 47.29                      | 56.27                         | 74.00             | V                       |
| 7323.000           | 36.14                        | 12.41              | 34.30                    | 42.51                      | 56.76                         | 74.00             | V                       |
| 2442.000           | 27.57                        | 6.20               | 35.01                    | 84.88                      | 83.62                         | 114.00            | Н                       |
| 4882.000           | 31.57                        | 8.63               | 34.30                    | 47.42                      | 50.97                         | 74.00             | Н                       |
| 5494.000           | 32.04                        | 11.24              | 34.30                    | 44.99                      | 55.11                         | 74.00             | Н                       |
| 7323.000           | 36.14                        | 12.41              | 34.30                    | 42.94                      | 57.42                         | 74.00             | Н                       |

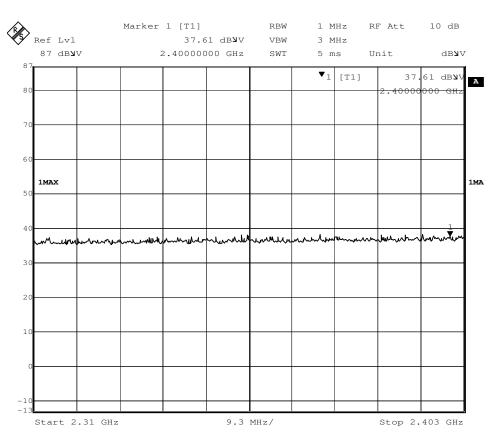
| Frequency<br>(MHz) | Antenna<br>factors<br>(dB/m) | Cable loss (dB) | Preamp<br>factor<br>(dB) | Reading<br>Level<br>(dBµV) | Emission<br>Level<br>(dBµV/m) | Limit<br>(dBμV/m) | Antenna polarization |
|--------------------|------------------------------|-----------------|--------------------------|----------------------------|-------------------------------|-------------------|----------------------|
| 2442.000           | 27.57                        | 6.20            | 35.01                    | 87.27                      | 86.03                         | 94.00             | V                    |
| 4882.000           | 31.57                        | 8.63            | 34.30                    | 44.84                      | 50.74                         | 54.00             | V                    |
| 5494.000           | 32.04                        | 11.24           | 34.30                    | 39.48                      | 48.46                         | 54.00             | V                    |
| 7323.000           | 36.14                        | 12.41           | 34.30                    | 29.62                      | 43.87                         | 54.00             | V                    |
| 2442.000           | 27.57                        | 6.20            | 35.01                    | 80.63                      | 79.37                         | 94.00             | Н                    |
| 4882.000           | 31.57                        | 8.63            | 34.30                    | 44.23                      | 50.14                         | 54.00             | Н                    |
| 5494.000           | 32.04                        | 11.24           | 34.30                    | 34.99                      | 45.11                         | 54.00             | Н                    |
| 7323.000           | 36.14                        | 12.41           | 34.30                    | 32.82                      | 47.30                         | 54.00             | Н                    |



Report No.: GZEM120100021301

Page: 21 of 28 FCC ID: AVJ-4300T

### Band Edge:



### **Peak Measurement:**

| Frequency<br>(MHz) | Antenna<br>factors<br>(dB/m) | Cable loss<br>(dB) | Preamp<br>factor<br>(dB) | Reading<br>Level<br>(dBµV) | Emission<br>Level<br>(dBµV/m) | Limit<br>(dBμV/m) | Antenna<br>polarization |
|--------------------|------------------------------|--------------------|--------------------------|----------------------------|-------------------------------|-------------------|-------------------------|
| 2400.00            | 27.58                        | 6.14               | 35.04                    | 47.69                      | 46.37                         | 74.00             | V                       |
| 2483.50            | 27.56                        | 6.27               | 34.96                    | 47.97                      | 46.84                         | 74.00             | V                       |
| 2400.00            | 27.58                        | 6.14               | 35.04                    | 49.26                      | 47.94                         | 74.00             | Н                       |
| 2483.50            | 27.56                        | 6.27               | 34.96                    | 49.01                      | 47.88                         | 74.00             | Н                       |

| Frequency<br>(MHz) | Antenna<br>factors<br>(dB/m) | Cable loss (dB) | Preamp<br>factor<br>(dB) | Reading<br>Level<br>(dBµV) | Emission<br>Level<br>(dBµV/m) | Limit<br>(dBμV/m) | Antenna polarization |
|--------------------|------------------------------|-----------------|--------------------------|----------------------------|-------------------------------|-------------------|----------------------|
| 2400.00            | 27.58                        | 6.14            | 35.04                    | 36.70                      | 35.38                         | 54.00             | V                    |
| 2483.50            | 27.56                        | 6.27            | 34.96                    | 36.76                      | 35.63                         | 54.00             | V                    |
| 2400.00            | 27.58                        | 6.14            | 35.04                    | 34.90                      | 33.58                         | 54.00             | Н                    |
| 2483.50            | 27.56                        | 6.27            | 34.96                    | 37.21                      | 36.08                         | 54.00             | Н                    |



Report No.: GZEM120100021301

Page: 22 of 28 FCC ID: AVJ-4300T

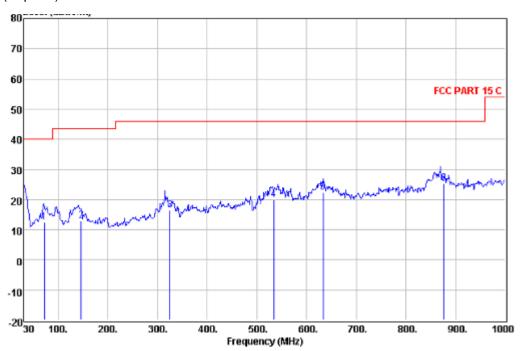
### Test at high Channel in transmitting status

9 kHz~30 MHz Field Strength of Unwanted Emissions.Quasi-Peak Measurement
The measurements with active loop antenna were greater than 20dB below the limit, so the test data were not recorded in the test report.

30 MHz~1 GHz Field Strength of Unwanted Emissions.Quasi-Peak Measurement Vertical:

Peak scan

Level (dBµV/m)



| Freq    |       | Antenna<br>Factor |      |       |        | Over<br>Limit | Limit<br>Line | Remark |
|---------|-------|-------------------|------|-------|--------|---------------|---------------|--------|
| MHz     | dBu√  | dB/m              | dB   | dB    | dBuV/m | dB            | dBuV/m        |        |
| 71.690  | 34.52 | 4.79              |      | 27.78 |        |               |               | -      |
| 145.700 | 29.18 | 10.06             | 1.18 | 27.44 | 12.98  | -30.52        | 43.50         | QP     |
| 325.201 | 28.35 | 13.61             | 1.88 | 27.27 | 16.57  | -29.43        | 46.00         | QP     |
| 533.750 | 27.72 | 18.02             | 2.47 | 28.17 | 20.04  | -25.96        | 46.00         | QP     |
| 633.520 | 29.00 | 18.80             | 2.66 | 28.20 | 22.26  | -23.74        | 46.00         | QP     |
| 876.970 | 28.19 | 20.77             | 3.41 | 26.94 | 25.43  | -20.57        | 46.00         | OP     |

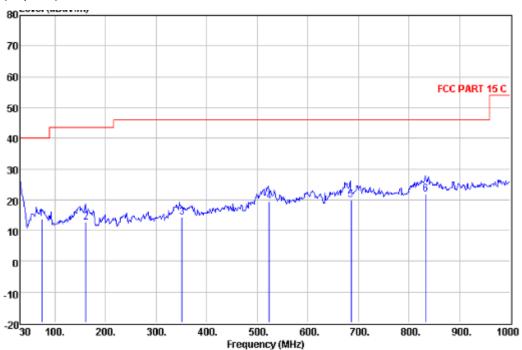


Report No.: GZEM120100021301

Page: 23 of 28 FCC ID: AVJ-4300T

### Horizontal:

Peak scan Level (dBµV/m)



|         | ReadA | Antenna | Cable | Preamp |        | Over   | Limit  |        |
|---------|-------|---------|-------|--------|--------|--------|--------|--------|
| Freq    | Level | Factor  | Loss  | Factor | Level  | Limit  | Line   | Remark |
|         |       |         |       |        |        |        |        |        |
| MHz     | dBu∀  | dB/m    | dB    | dB     | dBuV/m | dB     | dBu∀/m |        |
|         |       |         |       |        |        |        |        |        |
| 73.360  | 35.70 | 5.01    | 0.84  | 27.78  | 13.77  | -26.23 | 40.00  | QP     |
| 160.920 | 30.06 | 8.90    | 1.22  | 27.38  | 12.80  | -30.70 | 43.50  | QP     |
| 350.740 | 25.44 | 14.40   | 1.95  | 27.45  | 14.34  | -31.66 | 46.00  | QP     |
| 523.300 | 27.44 | 17.58   | 2.45  | 28.12  | 19.35  | -26.65 | 46.00  | QP     |
| 685.201 | 26.50 | 18.65   | 2.77  | 27.95  | 19.97  | -26.03 | 46.00  | QP     |
| 833.690 | 25.43 | 20.53   | 3.22  | 27.30  | 21.88  | -24.12 | 46.00  | QP     |



Report No.: GZEM120100021301

Page: 24 of 28 FCC ID: AVJ-4300T

## $1{\sim}25~\text{GHz}$ Field Strength of Fundamental & Field Strength of Unwanted Emissions.

### **Peak & Average Measurement**

### **Peak Measurement:**

| Frequency<br>(MHz) | Antenna<br>factors<br>(dB/m) | Cable loss<br>(dB) | Preamp<br>factor<br>(dB) | Reading<br>Level<br>(dBµV) | Emission<br>Level<br>(dBμV/m) | Limit<br>(dBμV/m) | Antenna polarization |
|--------------------|------------------------------|--------------------|--------------------------|----------------------------|-------------------------------|-------------------|----------------------|
| 2480.000           | 27.56                        | 6.27               | 34.99                    | 87.34                      | 86.18                         | 114.00            | V                    |
| 4960.000           | 31.70                        | 8.28               | 34.30                    | 52.81                      | 58.49                         | 74.00             | V                    |
| 6677.000           | 34.45                        | 16.23              | 34.30                    | 39.91                      | 58.08                         | 74.00             | V                    |
| 7440.000           | 36.62                        | 12.85              | 34.30                    | 43.27                      | 57.73                         | 74.00             | V                    |
| 2480.000           | 27.56                        | 6.27               | 34.99                    | 83.79                      | 82.63                         | 114.00            | Н                    |
| 4960.000           | 31.70                        | 8.28               | 34.30                    | 52.42                      | 58.10                         | 74.00             | Н                    |
| 6677.000           | 34.45                        | 16.23              | 34.30                    | 44.40                      | 57.78                         | 74.00             | Н                    |
| 7440.000           | 36.62                        | 12.85              | 34.30                    | 44.14                      | 59.31                         | 74.00             | Н                    |

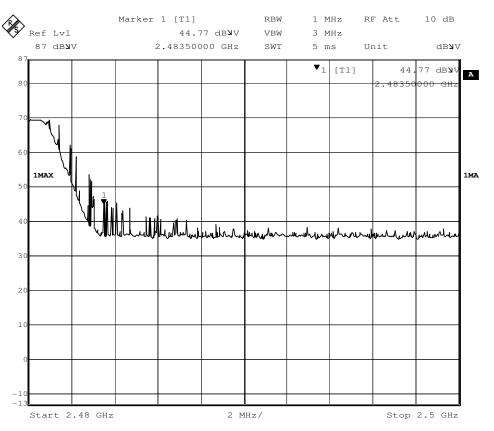
| Frequency<br>(MHz) | Antenna<br>factors<br>(dB/m) | Cable loss<br>(dB) | Preamp<br>factor<br>(dB) | Reading<br>Level<br>(dBµV) | Emission<br>Level<br>(dBµV/m) | Limit<br>(dBµV/m) | Antenna polarization |
|--------------------|------------------------------|--------------------|--------------------------|----------------------------|-------------------------------|-------------------|----------------------|
| 2480.000           | 27.56                        | 6.27               | 34.99                    | 83.16                      | 82.00                         | 94.00             | V                    |
| 4960.000           | 31.70                        | 8.28               | 34.30                    | 44.47                      | 50.15                         | 54.00             | V                    |
| 6677.000           | 34.45                        | 16.23              | 34.30                    | 30.67                      | 48.84                         | 54.00             | V                    |
| 7440.000           | 36.62                        | 12.85              | 34.30                    | 31.01                      | 45.47                         | 54.00             | V                    |
| 2480.000           | 27.56                        | 6.27               | 34.99                    | 78.53                      | 77.37                         | 94.00             | Н                    |
| 4960.000           | 31.70                        | 8.28               | 34.30                    | 44.87                      | 50.55                         | 54.00             | Н                    |
| 6677.000           | 34.45                        | 16.23              | 34.30                    | 31.03                      | 47.41                         | 54.00             | Н                    |
| 7440.000           | 36.62                        | 12.85              | 34.30                    | 34.12                      | 49.29                         | 54.00             | Н                    |



Report No.: GZEM120100021301

Page: 25 of 28 FCC ID: AVJ-4300T

### Band Edge:



### **Peak Measurement:**

| Frequency<br>(MHz) | Antenna<br>factors<br>(dB/m) | Cable loss (dB) | Preamp<br>factor<br>(dB) | Reading<br>Level<br>(dBµV) | Emission<br>Level<br>(dBµV/m) | Limit<br>(dBµV/m) | Antenna polarization |  |  |
|--------------------|------------------------------|-----------------|--------------------------|----------------------------|-------------------------------|-------------------|----------------------|--|--|
| 2400.00            | 27.58                        | 6.14            | 35.04                    | 47.69                      | 46.37                         | 74.00             | V                    |  |  |
| 2483.50            | 27.56                        | 6.27            | 34.96                    | 47.36                      | 46.23                         | 74.00             | V                    |  |  |
| 2400.00            | 27.58                        | 6.14            | 35.04                    | 49.26                      | 47.94                         | 74.00             | Н                    |  |  |
| 2483.50            | 27.56                        | 6.27            | 34.96                    | 48.37                      | 47.24                         | 74.00             | Н                    |  |  |

| Frequency<br>(MHz) | Antenna<br>factors<br>(dB/m) | Cable loss (dB) | Preamp<br>factor<br>(dB) | Reading<br>Level<br>(dBµV) | Emission<br>Level<br>(dBµV/m) | Limit<br>(dBμV/m) | Antenna polarization |
|--------------------|------------------------------|-----------------|--------------------------|----------------------------|-------------------------------|-------------------|----------------------|
| 2400.00            | 27.58                        | 6.14            | 35.04                    | 36.70                      | 35.38                         | 54.00             | V                    |
| 2483.50            | 27.56                        | 6.27            | 34.96                    | 37.05                      | 35.92                         | 54.00             | V                    |
| 2400.00            | 27.58                        | 6.14            | 35.04                    | 34.90                      | 33.58                         | 54.00             | Н                    |
| 2483.50            | 27.56                        | 6.27            | 34.96                    | 36.68                      | 35.55                         | 54.00             | Н                    |



Report No.: GZEM120100021301

Page: 26 of 28 FCC ID: AVJ-4300T

#### Remark:

1). The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Loss - Preamplifier Factor.

- 2). As shown in Section, for frequencies above 1000 MHz. the above field strength limits are based on average limits. However, 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.
- 3). The test only perform the EUT in transmitting status since the test frequencies were over 1GHz only required transmitting status.

Test result: The unit does meet the FCC requirements.



Report No.: GZEM120100021301

Page: 27 of 28 FCC ID: AVJ-4300T

### 7.4 Occupied Bandwidth

Test Requirement: FCC Part 15 C section 15.249

(d) 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.

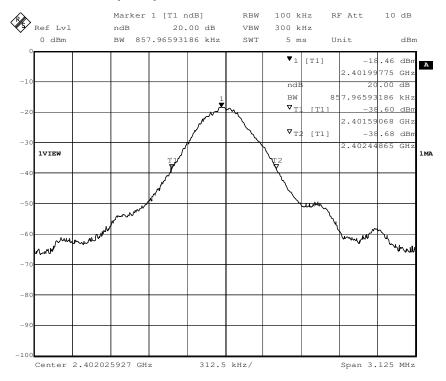
Test Method: ANSI C63.10: Clause 6.9.1

Operation within the band 2.400 to 2.4835 GHz

Method of A small sample of the transmitter output was fed into the Spectrum

measurement: Analyzer and the attached plot was taken.

### 1.Test in the lowest frequency 2.402 GHz

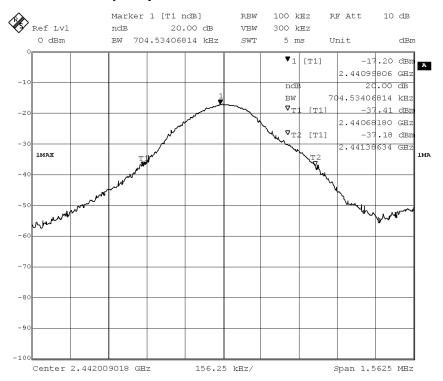




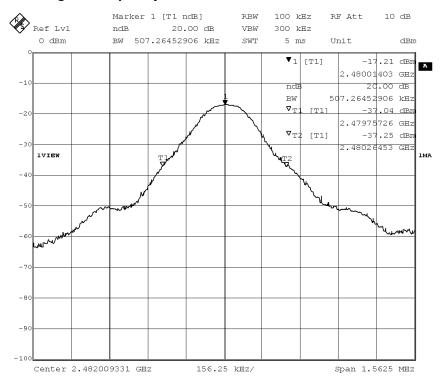
Report No.: GZEM120100021301

Page: 28 of 28 FCC ID: AVJ-4300T

### 2.Test in the middle frequency 2.441 GHz



### 3.Test in the highest frequency 2.480 GHz



The results: The unit does meet the FCC requirements.

End of the report