



# TEST REPORT

**STANDARD : FCC Part15B Class B -Scanning Receiver-  
RSS-135 Issue 2, RSS-215 Issue 2**

| Applicant                                                                                                                    | Testing Laboratory                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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|                                |                                                                       |
|--------------------------------|-----------------------------------------------------------------------|
| <b>Equipment Type</b>          | 144/220/430MHz TRIBANDER                                              |
| <b>Trademark</b>               | KENWOOD                                                               |
| <b>Model(s)</b>                | TH-D74A                                                               |
| <b>Serial No.</b>              | FES2 K-08                                                             |
| <b>Equipment Authorization</b> | Certification (FCC ID : K44440900)<br>(ISED CN and UPN : 282F-440900) |
| <b>Test Result</b>             | Complied                                                              |
| <b>Report Number</b>           | 16050300JKA-001                                                       |
| <b>Original Issue Date</b>     | June 23, 2016                                                         |
| <b>Revised Issue Date</b>      | July 04, 2016                                                         |

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Approved by

  
Koji Setoguchi  
[Technical Manager]

Tested by

  
Koichi Wagatsuma  
[ Engineer ]



VLAC-008-5

VLAC accreditation is valid only for FCC Part15, RSS-135 and RSS-215 are outside the scope.

**Responsible Party of Test Item (Product)**

|                   |   |
|-------------------|---|
| Responsible Party | : |
| Add.              | : |
| Tel.              | : |
| Fax.              | : |
| Contact Person    | : |

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## APPENDIX PHOTOGRAPHS OF MAXIMUM EMISSION SET-UP

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## SECTION 1. GENERAL INFORMATION

### Test Performed

|                                   |                                                                     |
|-----------------------------------|---------------------------------------------------------------------|
| <b>EUT Received</b>               | May 26, 2016                                                        |
| <b>Date of Test</b>               | From May 30, 2016 to June 16, 2016                                  |
| <b>Standard Applied</b>           | FCC Part15B -Scanning Receiver-<br>RSS-135 Issue 2, RSS-215 Issue 2 |
| <b>Test methods</b>               | ANSI C63.4-2014 / RSS-GEN Issue 4-2014                              |
| <b>Deviation from Standard(s)</b> | None                                                                |

As for the ICES-003 "Digital Apparatus", the EUT has been measured.

Refer to report No.16050300JKA-003.

As for the FCC Part15B Class B "Peripherals", the EUT has been measured.

Refer to report No.16050300JKA-002.

### Qualifications of Testing Laboratory

#### Tochigi Laboratory

| Accreditation | Scope       | Lab. Code                   | Remarks |
|---------------|-------------|-----------------------------|---------|
| VLAC          | EMC Testing | VLAC-008-5                  | JAPAN   |
| <b>Filing</b> |             |                             |         |
| VCCI          | EMC Testing | A-0129                      | JAPAN   |
| FCC           | EMC Testing | Designation Number : JP0011 | USA     |
| IC            | EMC Testing | 2042P-1, 2042P-2, 2042P-3   | CANADA  |
| SAUDI ARABIA  | EMC Testing | N/A                         |         |

#### Kashima Laboratory

| Accreditation | Scope       | Lab. Code         | Remarks |
|---------------|-------------|-------------------|---------|
| VLAC          | EMC Testing | VLAC-008-1        | JAPAN   |
| BSMI          | EMC Testing | SL2-IN-E-6008     | TAIWAN  |
| <b>Filing</b> |             |                   |         |
| VCCI          | EMC Testing | A-0126            | JAPAN   |
| FCC           | EMC Testing | JP0008            | USA     |
| IC            | EMC Testing | 2042K-3, 2042Q-12 | CANADA  |
| CB-Scheme     | EMC Testing | TL222             | IECEE   |

### Abbreviations

|      |                                      |      |                                      |
|------|--------------------------------------|------|--------------------------------------|
| EUT  | Equipment Under Test                 | DoC  | Declaration of Conformity            |
| AMN  | Artificial Mains Network             | ISN  | Impedance Stabilization Network      |
| LISN | Line Impedance Stabilization Network | Q-P  | Quasi-peak                           |
| AMP  | Amplifier                            | AVG  | Average                              |
| ATT  | Attenuator                           | PK   | Peak                                 |
| ANT  | Antenna                              | Cal  | Calibration                          |
| BBA  | Broadband Antenna                    | N/A  | Not applicable or Not available      |
| DIP  | Dipole Antenna                       | LCD  | Liquid-Crystal Display               |
| AE   | Associated Equipment                 | HDMI | High-Definition Multimedia Interface |

### Revision Summary

| Revised Date  | Section     | Description of Changes                                                                                                                                                           |
|---------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| June 30, 2016 | Cover, 1, 2 | Add "RSS-215 Issue 2"                                                                                                                                                            |
| June 30, 2016 | 7           | Add "EUT receives data from Computer."                                                                                                                                           |
| June 30, 2016 | 10          | Add "All measurements equipment used for the measurement is calibrated based on standard."<br>Add "Each measurement result is traceable to national or international standards." |
| July 04, 2016 | 10          | Add "Antenna used for the measurement is calibrated based on the ANSI C63.5."                                                                                                    |

## SECTION 2. SUMMARY OF TEST RESULTS

See Section9 for the detailed result.

### Emission Tests

|                                             |                                                                                                               |                |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------|----------------|
| <b>Standard Applied</b>                     | FCC Part15B Class B -Scanning Receiver-<br>RSS-135 Issue 2, RSS-215 Issue 2                                   |                |
| <b>Test Item</b>                            | <b>Minimum margin</b>                                                                                         | <b>Remarks</b> |
| Conducted disturbance<br>at mains terminals | 22.0 dB (0.2140 MHz) [Q-P] RX mode(262.00MHz:Band B)<br>22.0 dB (0.2153 MHz) [Q-P] RX mode(523.995MHz:Band B) |                |
| Radiated disturbance                        | 4.4 dB (30.90 MHz) RX mode(238.00MHz:Band A)<br>4.4 dB (30.90 MHz) RX mode(259.995MHz:Band A)                 |                |
| Conducted power<br>on antenna port          | N/A                                                                                                           | See Note       |

Note : The Conducted power on antenna port is not required because the Radiated disturbance was measured for EUT with the antenna.

|                                    |                |                |
|------------------------------------|----------------|----------------|
| <b>Test Item</b>                   | <b>Results</b> | <b>Remarks</b> |
| 38dB Rejection test<br>(15.121(b)) | Pass           | See Note       |

Note : No frequency of response was detected.

## SECTION 3. EQUIPMENT UNDER TEST

The equipment under test (EUT) consisted of the following apparatus.

### 3.1 System Configuration

| Symbol                                                                                                                         | Item                        | Model No.                                                  | Serial No. | Manufacturer | Remarks |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------|------------|--------------|---------|
| A                                                                                                                              | 144/220/430MHz<br>TRIBANDER | TH-D74A                                                    | FES2 K-08  | JVC KENWOOD  |         |
| <b>Rated Power</b> : DC-IN Terminal: DC 13.8 V (DC 12 - 16 V)<br>Battery Terminal: DC 7.4 V DC (DC 5.5V - 10.8 V), 0.38 A max. |                             |                                                            |            |              |         |
| <b>Supplied Power</b> :DC 13.8V                                                                                                |                             |                                                            |            |              |         |
| <b>Condition of Equipment</b>                                                                                                  |                             | Prototype                                                  |            |              |         |
| <b>Type</b>                                                                                                                    |                             | Tabletop                                                   |            |              |         |
| <b>Suppression Devices</b>                                                                                                     |                             | No Modifications by the laboratory were made to the device |            |              |         |

### 3.2 Overview of EUT

|                         |                                                                                    |
|-------------------------|------------------------------------------------------------------------------------|
| <b>Frequency Ranges</b> | 136 – 174 MHz , 216 – 260 MHz and 410 – 470 MHz (Band A)<br>0.1 – 524 MHz (Band B) |
| <b>Conversion Type</b>  | Double conversion (F3E, F2D, F7W)<br>Triple conversion (A1A, A3E, J3E)             |

### 3.3 Intermediate frequency

|            |                                          |
|------------|------------------------------------------|
| <b>1st</b> | 57.15 MHz (Band A) or 58.05 MHz (Band B) |
| <b>2nd</b> | 450 kHz (Band A and Band B)              |
| <b>3rd</b> | 10.8 kHz (Band B)                        |

### 3.4 Port(s)/Connector(s)

| Port Name                  | Connector Type  | Connector Pin | Remarks |
|----------------------------|-----------------|---------------|---------|
| DC Jack                    | 3.75Φ           | 2 pin         |         |
| External Microphone Jack   | 3.5Φ            | 3 pin         |         |
| External Speaker Jack      | 2.5Φ            | 3 pin         |         |
| USB Socket                 | Mini USB plug B | 5 pin         |         |
| microSD Slot               | microSD Slot    | 12 pin        |         |
| SMA Connector (Antenna)    | SMA5.35Φ        | 2 pin         |         |
| Battery Terminal Connector | BZ type         | 3 pin         |         |

### 3.5 Highest Frequency Generated / Used

| Operating Frequency | Operating mode | Remarks        |
|---------------------|----------------|----------------|
| 524 MHz             | RX mode        |                |
| 4960 MHz            | RX mode        | Bluetooth Unit |

## SECTION 4. SUPPORT EQUIPMENT

The EUT was supported by the following equipment during the test.

| Symbol                 | Item                | Model No.          | Serial No.                   | Manufacturer | Remarks | FCC ID |
|------------------------|---------------------|--------------------|------------------------------|--------------|---------|--------|
| B                      | WHIP Antenna        | T9A-0034-00        | No.106                       | JVC KENWOOD  |         | N/A    |
| C                      | Li-ion battery pack | KNB-75L            | No.1                         | JVC KENWOOD  |         | N/A    |
| D                      | microSDHC card      | Y08GI30            | MDS4071062                   | JVC KENWOOD  |         | DoC    |
| E                      | Speaker microphone  | SMC-34             | No.1                         | JVC KENWOOD  |         | N/A    |
| F                      | Earphone            | HS-9               | No.1                         | JVC KENWOOD  |         | N/A    |
| G                      | DC Power Supply     | PS-60              | 11/01 00148                  | JVC KENWOOD  |         | N/A    |
| H                      | Computer            | XL510AV            | JPA231S7XJ                   | HP           |         | DoC    |
| I                      | Keyboard            | SK-8115            | CN-0DJ319-7161<br>6-89B-0MJS | DELL         |         | DoC    |
| J                      | Mouse               | MOC5UO             | H1206664                     | DELL         |         | DoC    |
| K                      | LCD                 | E172FPb            | CN-0N1532-4663<br>3-41G-0947 | DELL         |         | DoC    |
| L                      | Hub                 | LSW4-GT-8E<br>P/WH | 16486394423402               | Buffalo      |         | DoC    |
| M                      | AC Adapter          | US100523           | B10-0155491                  | Buffalo      |         | N/A    |
| <b>Supplied Power:</b> |                     |                    |                              |              |         |        |
| <b>G, H, K, M</b>      | AC120 V, 60 Hz      |                    |                              |              |         |        |

## SECTION 5. USED CABLE(S)

The following cable(s) was used for the test.

| No. | Name                                 | Length (m) | Shield | Metal Connector | Ferrite Core |
|-----|--------------------------------------|------------|--------|-----------------|--------------|
| 1   | Speaker microphone Cable             | 0.48       | No     | No              |              |
| 2   | Earphone Cable                       | 1.00       | No     | No              |              |
| 3   | USB Cable                            | 1.00       | Yes    | Yes             |              |
| 4   | Keyboard Cable                       | 2.05       | Yes    | Yes             | Fixed x 1    |
| 5   | Mouse Cable                          | 1.80       | Yes    | Yes             |              |
| 6   | Video Cable                          | 1.80       | Yes    | Yes             | Fixed x 2    |
| 7   | LAN Cable                            | 2.00       | No     | No              |              |
| 8   | Power for TH-D74A (DC)               | 1.40       | No     | No              |              |
| 9   | Power for Hub (DC)                   | 2.00       | No     | No              |              |
| 10  | Power cable for DC Power Supply (AC) | 2.50       | No     | No              |              |
| 11  | Power cable for Computer (AC)        | 1.80       | No     | No              |              |
| 12  | Power cable for LCD (AC)             | 1.75       | No     | No              |              |

Note :

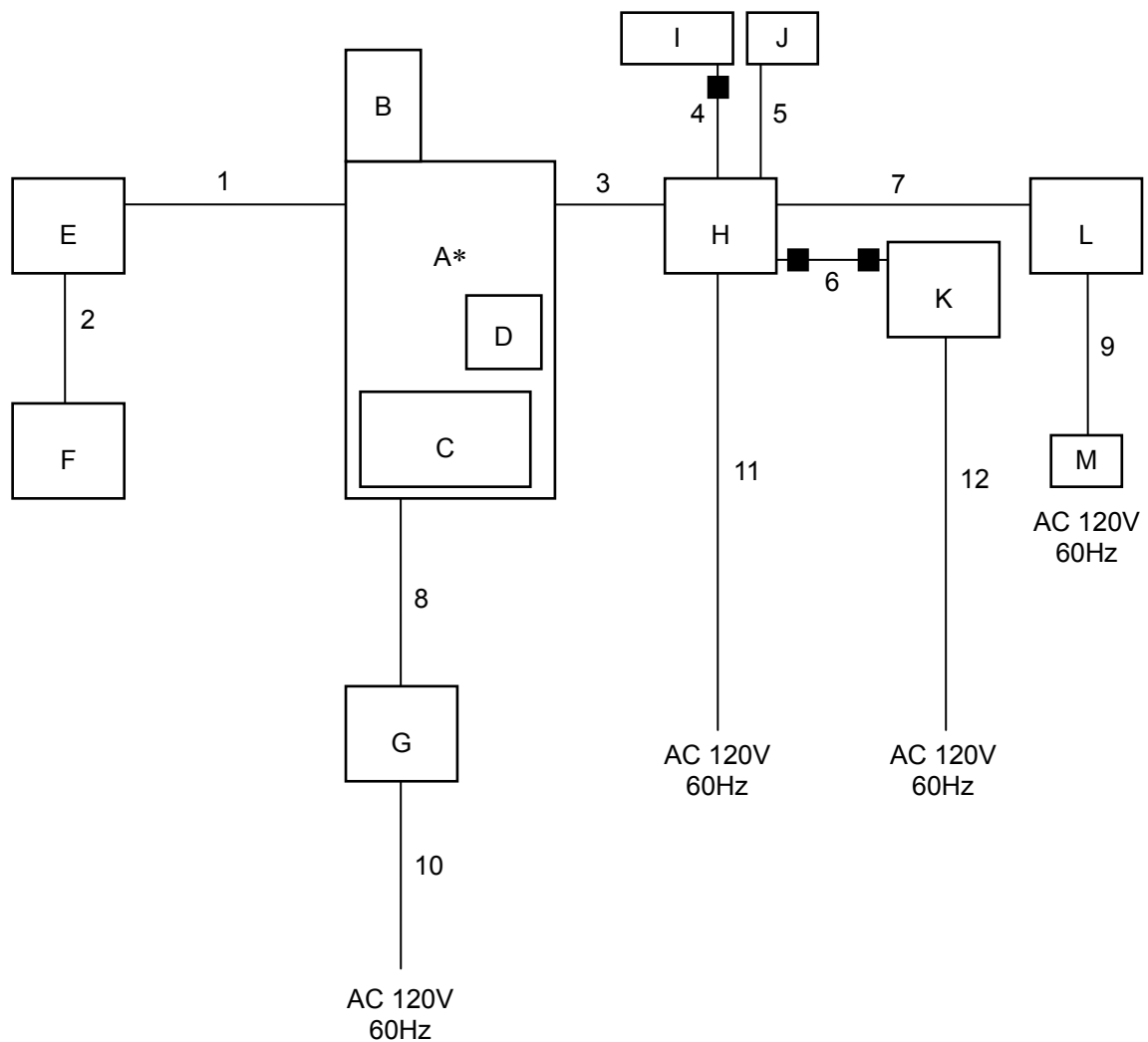
No.4 cable is supplied together with Keyboard (I)

No.6 cable is supplied together with LCD(K)

## SECTION 6. TEST CONFIGURATION

### 6.1 Conducted disturbance at mains terminals Tests and Radiated disturbance tests

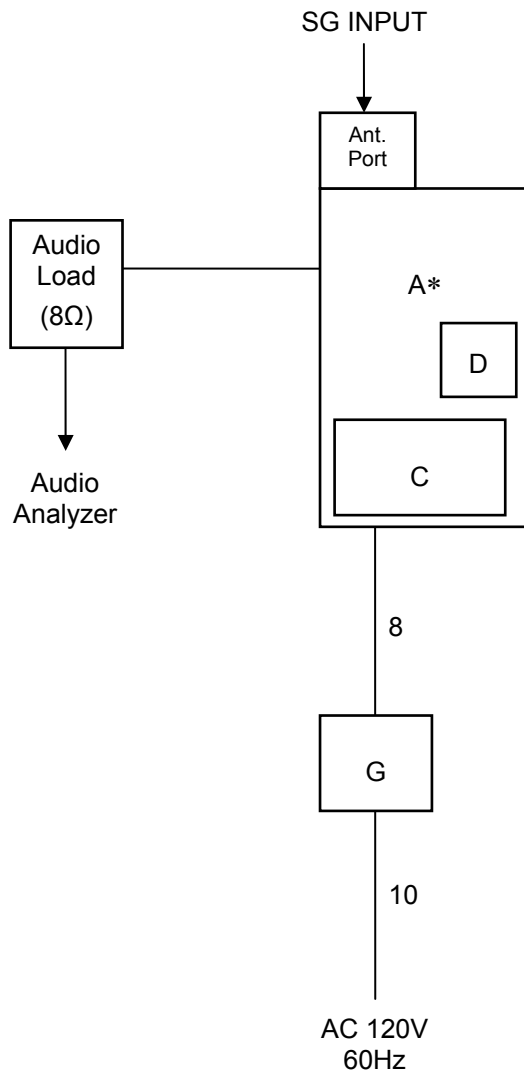
\* : EUT  
■ : Ferrite core



The symbols and numbers assigned to the equipments and cables on this diagram correspond to the ones in Sections 3 to 5.

## 6.2 38dB Rejection Tests

\* : EUT  
■ : Ferrite core



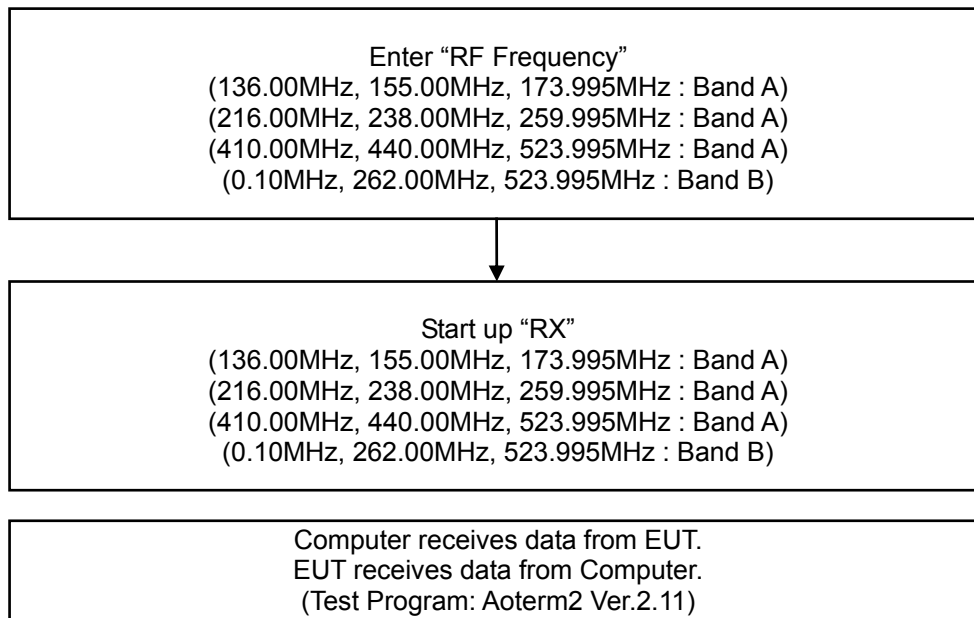
The symbols and numbers assigned to the equipments and cables on this diagram correspond to the ones in Sections 3 to 5.

## SECTION 7. OPERATING CONDITION

The test was carried out under the following mode.

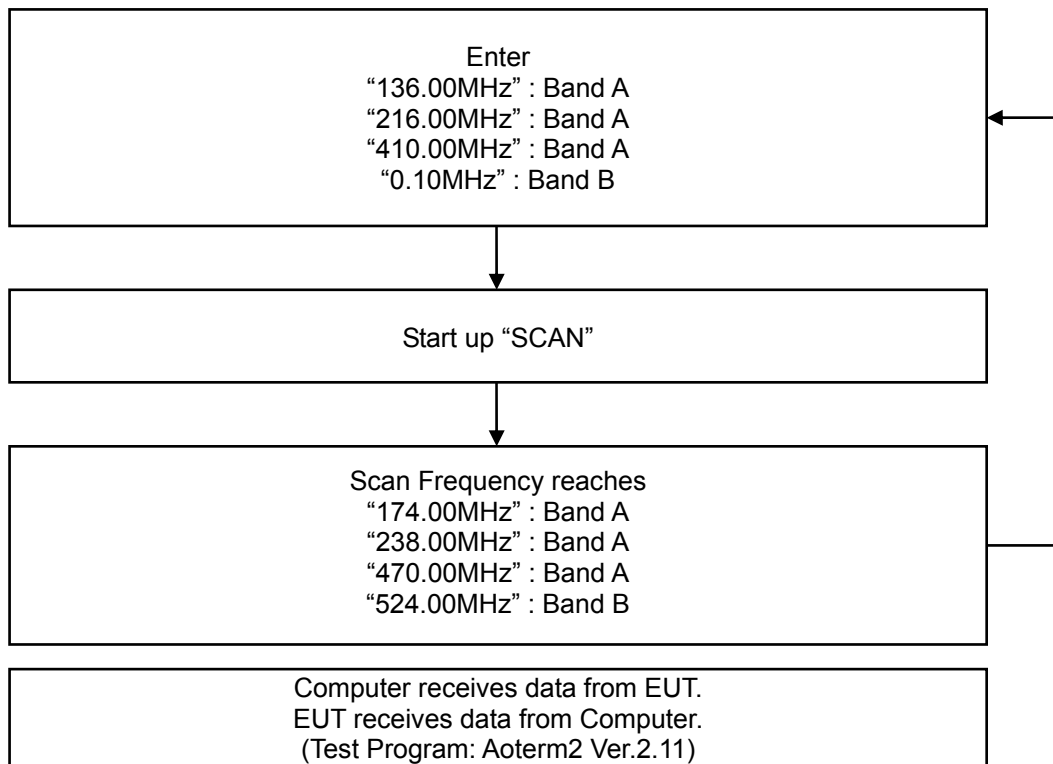
### 7.1 RX mode

Cycle time for operation: Continuity



### 7.2 VFO SCAN mode

Cycle time for operation: Continuity



## SECTION 8. UNCERTAINTY

Traceability to national standard in SI units is ensured with these values.  
Compliance with the limits in this standard are determined without in consideration of the measurement uncertainty of the measurement instrumentation.

### 8.1 Emission tests

| Radiated disturbance at 3m                                                  | U <sub>lab</sub> [k = 2] | U <sub>cispr</sub> |
|-----------------------------------------------------------------------------|--------------------------|--------------------|
| 30 MHz – 1000 MHz                                                           | +/- 4.05 dB              | 6.3 dB             |
| Above 1 GHz<br>CISPR22                                                      | +/- 4.79 dB              | 5.2 dB             |
| ANCI 63.4                                                                   | +/- 4.80 dB              | Nil                |
| Radiated disturbance at 10m                                                 |                          |                    |
| 30 MHz – 1000 MHz                                                           | +/- 4.32 dB              | 6.3 dB             |
| Above 1 GHz                                                                 | +/- 4.79 dB              | Nil                |
| Radiated disturbance at 30m                                                 |                          |                    |
|                                                                             | N/A                      | Nil                |
| Conducted disturbance at mains terminals                                    |                          |                    |
| 9 kHz – 150 kHz                                                             | +/- 1.73 dB              | 3.8 dB             |
| 150 kHz – 30 MHz                                                            | +/- 1.85 dB              | 3.4 dB             |
| Conducted disturbance at telecommunication ports (ISN)                      |                          |                    |
| 150 kHz – 30 MHz                                                            | +/- 4.77 dB              | 5.0 dB             |
| Conducted disturbance at telecommunication ports (Capacitive Voltage Probe) |                          |                    |
| 150 kHz – 30 MHz                                                            | +/- 2.92 dB              | 3.9 dB             |
| Conducted disturbance at telecommunication ports (Current Probe)            |                          |                    |
| 150 kHz – 30 MHz                                                            | +/- 1.69 dB              | 2.9 dB             |
| Conducted disturbance at terminals                                          |                          |                    |
| 150 kHz – 30 MHz                                                            | +/- 1.51 dB              | 2.9 dB             |
| Disturbance power                                                           |                          |                    |
| 30 MHz – 300 MHz                                                            | +/- 1.91 dB              | 4.5 dB             |
| Conducted power on antenna port                                             |                          |                    |
| 30 MHz – 1000 MHz                                                           | +/- 2.90 dB              | Nil                |
| Above 1 GHz                                                                 | +/- 1.60 dB              |                    |
| 38dB Rejection                                                              |                          |                    |
| 0.1 MHz – 600 MHz                                                           | +/- 0.56 dB              | Nil                |

The above expanded instrumentation uncertainty,  $U_{lab}$ , is estimated in accordance with CISPR 16-4-2:2011.

## SECTION 9. EVALUATION OF TEST RESULTS

### 9.1 Emission tests

#### 9.1.1 Conducted disturbance at mains terminals

|                      |                        |
|----------------------|------------------------|
| <b>Location</b>      | Tochigi No.3 Test Site |
| <b>Test Engineer</b> | Koichi Wagatsuma       |

#### Frequency Range of Measurements

| <b>Required Measurement Frequency Range</b> | <b>Measured Frequency Range</b> |
|---------------------------------------------|---------------------------------|
| 0.15 – 30 MHz                               | 0.15 – 30 MHz                   |

#### Test Procedure

| <b>Item</b>                              | <b>Document number</b> |
|------------------------------------------|------------------------|
| Conducted disturbance at mains terminals | RJP-EM001              |

#### Setting for the Measuring instruments

| <b>Instrument</b> | <b>Detector</b> | <b>Resolution Bandwidth</b> | <b>Video Bandwidth</b> |
|-------------------|-----------------|-----------------------------|------------------------|
| Receiver          | Quasi Peak      | 10 kHz                      | N/A                    |
|                   | Average         | 10 kHz                      | N/A                    |

< Measurement data correction >

Emission Level = Meter Reading + Factor

Margin = Limit- Emission Level

Factor = LISN Factor + Cable Loss + Attenuator

## Result of Conducted disturbance at mains terminals

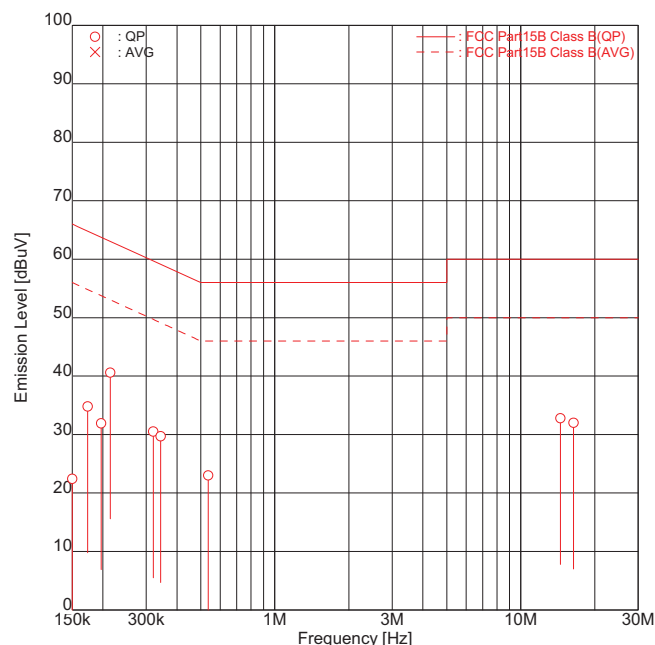
### 9.1.1.1 RX mode (136.00MHz : Band A)

## Intertek Japan K.K.

### Tochigi No.3 Test Site

#### Conducted Voltages on Mains Port

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(136.00MHz;Band A)  
POWER SOURCE : AC120 V, 60 Hz  
DATE TESTED : Jun 02 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
TEMPERATURE : 24.0 [degC]  
HUMIDITY : 42.0 [%]  
NOTE :



ENGINEER : Koichi Wagatsuma

| FREQUENCY<br>[No] | MODE<br>[MHz] |    | READING<br>[dBuV] |             | FACTOR<br>[dB] |       | EMISSION<br>[dBuV] |             | LIMIT<br>[dBuV] | MARGIN<br>[dB] |             |
|-------------------|---------------|----|-------------------|-------------|----------------|-------|--------------------|-------------|-----------------|----------------|-------------|
|                   |               |    | Line1             | Line2       | Line1          | Line2 | Line1              | Line2       |                 | Line1          | Line2       |
| 1                 | 0.1500        | QP | 12.2              | 11.0        | 10.2           | 10.2  | 22.4               | 21.2        | 66.0            | 43.6           | 44.8        |
| 2                 | 0.1733        | QP | <u>24.6</u>       | 24.6        | 10.2           | 10.2  | <u>34.8</u>        | 34.8        | 64.8            | <u>30.0</u>    | 30.0        |
| 3                 | 0.1966        | QP | 21.5              | 21.7        | 10.2           | 10.2  | 31.7               | 31.9        | 63.8            | 32.1           | 31.9        |
| 4                 | 0.2145        | QP | 30.3              | <u>30.4</u> | 10.2           | 10.2  | 40.5               | <u>40.6</u> | 63.0            | 22.5           | <u>22.4</u> |
| 5                 | 0.3205        | QP | 6.2               | <u>20.3</u> | 10.2           | 10.2  | 16.4               | <u>30.5</u> | 59.7            | 43.3           | <u>29.2</u> |
| 6                 | 0.3435        | QP | 2.5               | <u>19.5</u> | 10.2           | 10.2  | 12.7               | <u>29.7</u> | 59.1            | 46.4           | <u>29.4</u> |
| 7                 | 0.5363        | QP | 7.0               | 12.7        | 10.3           | 10.3  | 17.3               | 23.0        | 56.0            | 38.7           | 33.0        |
| 8                 | 14.4936       | QP | <u>21.8</u>       | 21.2        | 11.0           | 11.1  | <u>32.8</u>        | 32.3        | 60.0            | <u>27.2</u>    | 27.7        |
| 9                 | 16.4007       | QP | <u>21.0</u>       | 20.6        | 11.0           | 11.1  | <u>32.0</u>        | 31.7        | 60.0            | <u>28.0</u>    | 28.3        |

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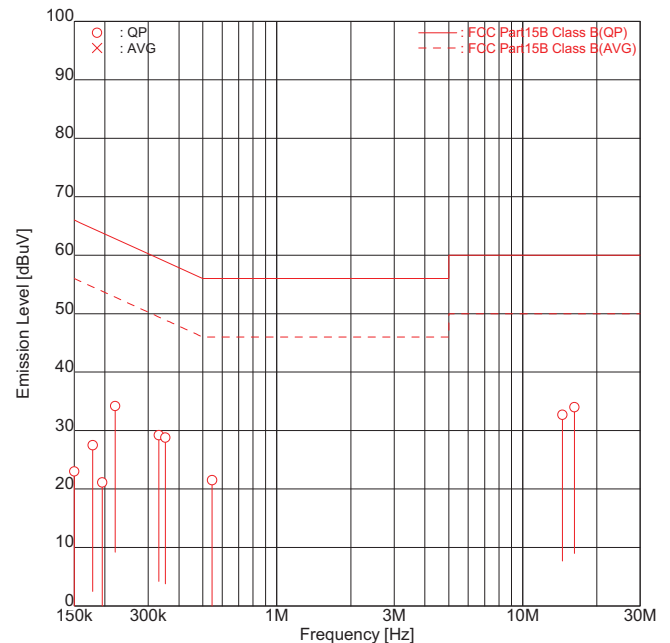
### 9.1.1.2 RX mode (155.00MHz : Band A)

## Intertek Japan K.K.

### Tochigi No.3 Test Site

#### Conducted Voltages on Mains Port

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(155.00MHz;Band A)  
POWER SOURCE : AC120 V, 60 Hz  
DATE TESTED : Jun 02 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
TEMPERATURE : 24.0 [degC]  
HUMIDITY : 42.0 [%]  
NOTE :



ENGINEER : Koichi Wagatsuma

| FREQUENCY<br>[No] | MODE<br>[MHz] |    | READING<br>[dBuV] |             | FACTOR<br>[dB] |       | EMISSION<br>[dBuV] |             | LIMIT<br>[dBuV] | MARGIN<br>[dB] |             |
|-------------------|---------------|----|-------------------|-------------|----------------|-------|--------------------|-------------|-----------------|----------------|-------------|
|                   |               |    | Line1             | Line2       | Line1          | Line2 | Line1              | Line2       |                 | Line1          | Line2       |
| 1                 | 0.1500        | QP | 12.5              | 12.8        | 10.2           | 10.2  | 22.7               | 23.0        | 66.0            | 43.3           | 43.0        |
| 2                 | 0.1784        | QP | 17.2              | 17.3        | 10.2           | 10.2  | 27.4               | 27.5        | 64.6            | 37.2           | 37.1        |
| 3                 | 0.1952        | QP | 10.9              | 10.9        | 10.2           | 10.2  | 21.1               | 21.1        | 63.8            | 42.7           | 42.7        |
| 4                 | 0.2200        | QP | 23.0              | <u>24.0</u> | 10.2           | 10.2  | 33.2               | <u>34.2</u> | 62.8            | 29.6           | <u>28.6</u> |
| 5                 | 0.3313        | QP | 5.1               | <u>19.0</u> | 10.2           | 10.2  | 15.3               | <u>29.2</u> | 59.4            | 44.1           | <u>30.2</u> |
| 6                 | 0.3524        | QP | 2.0               | <u>18.6</u> | 10.2           | 10.2  | 12.2               | <u>28.8</u> | 58.9            | 46.7           | <u>30.1</u> |
| 7                 | 0.5456        | QP | 7.0               | <u>11.2</u> | 10.3           | 10.3  | 17.3               | <u>21.5</u> | 56.0            | 38.7           | <u>34.5</u> |
| 8                 | 14.4936       | QP | 21.6              | <u>21.6</u> | 11.0           | 11.1  | 32.6               | <u>32.7</u> | 60.0            | 27.4           | <u>27.3</u> |
| 9                 | 16.2273       | QP | <u>23.0</u>       | 21.0        | 11.0           | 11.1  | <u>34.0</u>        | 32.1        | 60.0            | <u>26.0</u>    | 27.9        |

Higher six points are underlined.  
Other frequencies : Below the FCC Part15B Class B limit  
Emission Level = Read + Factor(LISN,Pad,Cable)  
(Factor = Ant. Fact. + Cable Loss - Amp. Gain + Att. - Dist. Conversion Fact.)

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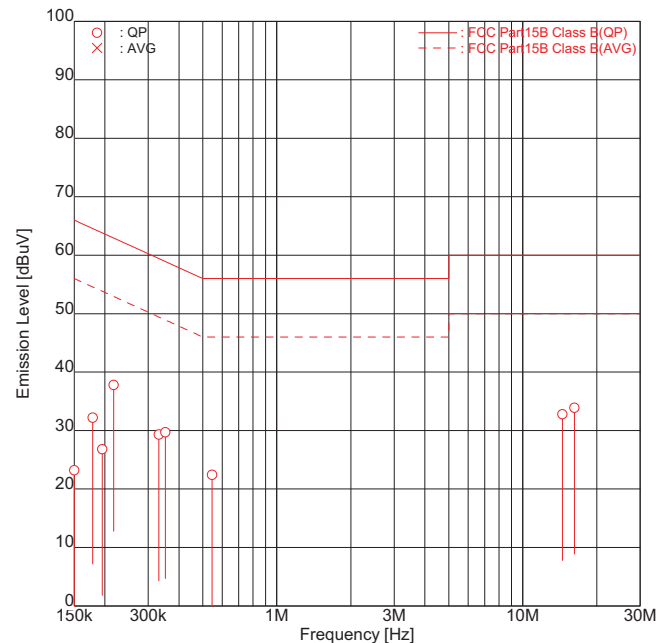
### 9.1.1.3 RX mode (173.995MHz : Band A)

## Intertek Japan K.K.

### Tochigi No.3 Test Site

#### Conducted Voltages on Mains Port

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(173.995MHz;Band A)  
POWER SOURCE : AC120 V, 60 Hz  
DATE TESTED : Jun 02 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
TEMPERATURE : 24.0 [degC]  
HUMIDITY : 42.0 [%]  
NOTE :



ENGINEER : Koichi Wagatsuma

| FREQUENCY<br>[No] | MODE<br>[MHz] |    | READING<br>[dBuV] |             | FACTOR<br>[dB] |       | EMISSION<br>[dBuV] |             | LIMIT<br>[dBuV] | MARGIN<br>[dB] |             |
|-------------------|---------------|----|-------------------|-------------|----------------|-------|--------------------|-------------|-----------------|----------------|-------------|
|                   |               |    | Line1             | Line2       | Line1          | Line2 | Line1              | Line2       |                 | Line1          | Line2       |
| 1                 | 0.1500        | QP | 12.1              | 13.0        | 10.2           | 10.2  | 22.3               | 23.2        | 66.0            | 43.7           | 42.8        |
| 2                 | 0.1784        | QP | 21.5              | <u>22.0</u> | 10.2           | 10.2  | 31.7               | <u>32.2</u> | 64.6            | 32.9           | <u>32.4</u> |
| 3                 | 0.1952        | QP | 16.6              | 16.2        | 10.2           | 10.2  | 26.8               | 26.4        | 63.8            | 37.0           | 37.4        |
| 4                 | 0.2171        | QP | <u>27.6</u>       | 26.5        | 10.2           | 10.2  | <u>37.8</u>        | 36.7        | 62.9            | <u>25.1</u>    | 26.2        |
| 5                 | 0.3313        | QP | 5.1               | <u>19.1</u> | 10.2           | 10.2  | 15.3               | <u>29.3</u> | 59.4            | 44.1           | <u>30.1</u> |
| 6                 | 0.3524        | QP | 2.0               | <u>19.5</u> | 10.2           | 10.2  | 12.2               | <u>29.7</u> | 58.9            | 46.7           | <u>29.2</u> |
| 7                 | 0.5456        | QP | 5.3               | 12.1        | 10.3           | 10.3  | 15.6               | 22.4        | 56.0            | 40.4           | 33.6        |
| 8                 | 14.4936       | QP | 21.4              | <u>21.7</u> | 11.0           | 11.1  | 32.4               | <u>32.8</u> | 60.0            | 27.6           | <u>27.2</u> |
| 9                 | 16.2273       | QP | 22.8              | <u>22.8</u> | 11.0           | 11.1  | 33.8               | <u>33.9</u> | 60.0            | 26.2           | <u>26.1</u> |

Higher six points are underlined.  
Other frequencies : Below the FCC Part15B Class B limit  
Emission Level = Read + Factor(LISN,Pad,Cable)  
(Factor = Ant. Fact. + Cable Loss - Amp. Gain + Att. - Dist. Conversion Fact.)

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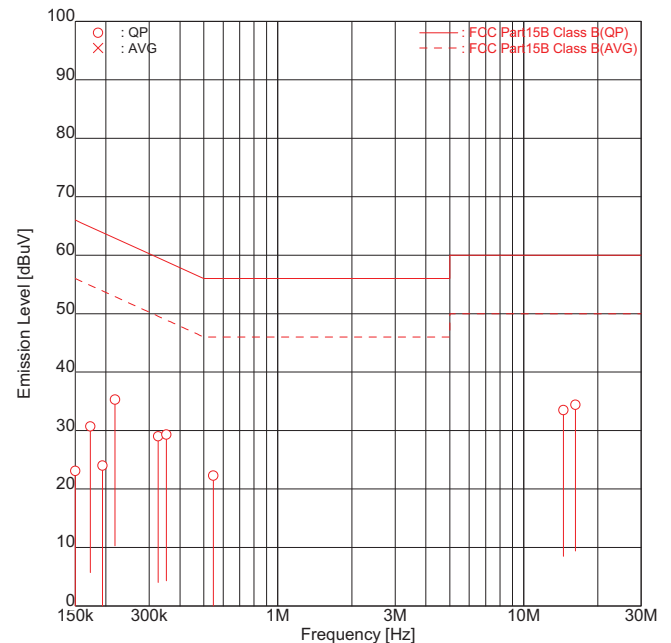
#### 9.1.1.4 RX mode (216.00MHz : Band A)

## Intertek Japan K.K.

### Tochigi No.3 Test Site

#### Conducted Voltages on Mains Port

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(216.00MHz;Band A)  
POWER SOURCE : AC120 V, 60 Hz  
DATE TESTED : Jun 02 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
TEMPERATURE : 24.0 [degC]  
HUMIDITY : 42.0 [%]  
NOTE :



ENGINEER : Koichi Wagatsuma

| FREQUENCY<br>[No] | MODE<br>[MHz] |    | READING<br>[dBuV] |             | FACTOR<br>[dB] |       | EMISSION<br>[dBuV] |             | LIMIT<br>[dBuV] | MARGIN<br>[dB] |             |
|-------------------|---------------|----|-------------------|-------------|----------------|-------|--------------------|-------------|-----------------|----------------|-------------|
|                   |               |    | Line1             | Line2       | Line1          | Line2 | Line1              | Line2       |                 | Line1          | Line2       |
| 1                 | 0.1500        | QP | 12.6              | 12.9        | 10.2           | 10.2  | 22.8               | 23.1        | 66.0            | 43.2           | 42.9        |
| 2                 | 0.1728        | QP | 20.5              | 19.5        | 10.2           | 10.2  | 30.7               | 29.7        | 64.8            | 34.1           | 35.1        |
| 3                 | 0.1938        | QP | 13.2              | 13.8        | 10.2           | 10.2  | 23.4               | 24.0        | 63.9            | 40.5           | 39.9        |
| 4                 | 0.2179        | QP | 23.8              | <u>25.1</u> | 10.2           | 10.2  | 34.0               | <u>35.3</u> | 62.9            | 28.9           | <u>27.6</u> |
| 5                 | 0.3262        | QP | 4.5               | <u>18.8</u> | 10.2           | 10.2  | 14.7               | <u>29.0</u> | 59.5            | 44.8           | <u>30.5</u> |
| 6                 | 0.3524        | QP | 2.0               | <u>19.1</u> | 10.2           | 10.2  | 12.2               | <u>29.3</u> | 58.9            | 46.7           | <u>29.6</u> |
| 7                 | 0.5470        | QP | 6.3               | <u>12.0</u> | 10.3           | 10.3  | 16.6               | <u>22.3</u> | 56.0            | 39.4           | <u>33.7</u> |
| 8                 | 14.4937       | QP | 21.5              | <u>22.4</u> | 11.0           | 11.1  | 32.5               | <u>33.5</u> | 60.0            | 27.5           | <u>26.5</u> |
| 9                 | 16.2260       | QP | 22.8              | <u>23.3</u> | 11.0           | 11.1  | 33.8               | <u>34.4</u> | 60.0            | 26.2           | <u>25.6</u> |

Higher six points are underlined.  
Other frequencies : Below the FCC Part15B Class B limit  
Emission Level = Read + Factor(LISN,Pad,Cable)  
(Factor = Ant. Fact. + Cable Loss - Amp. Gain + Att. - Dist. Conversion Fact.)

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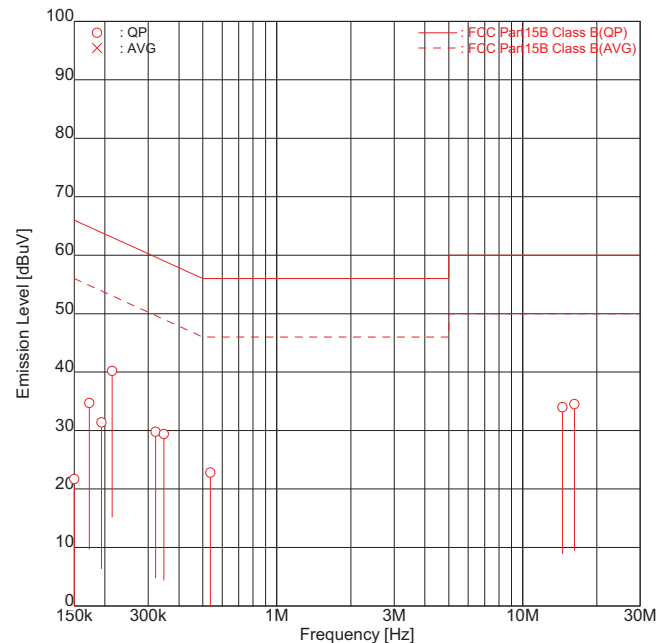
#### 9.1.1.5 RX mode (238.00MHz : Band A)

## Intertek Japan K.K.

### Tochigi No.3 Test Site

#### Conducted Voltages on Mains Port

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(238.00MHz;Band A)  
POWER SOURCE : AC120 V, 60 Hz  
DATE TESTED : Jun 02 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
TEMPERATURE : 24.0 [degC]  
HUMIDITY : 42.0 [%]  
NOTE :



ENGINEER : Koichi Wagatsuma

| FREQUENCY<br>[No] | MODE<br>[MHz] |    | READING<br>[dBuV] |             | FACTOR<br>[dB] |       | EMISSION<br>[dBuV] |             | LIMIT<br>[dBuV] | MARGIN<br>[dB] |             |
|-------------------|---------------|----|-------------------|-------------|----------------|-------|--------------------|-------------|-----------------|----------------|-------------|
|                   |               |    | Line1             | Line2       | Line1          | Line2 | Line1              | Line2       |                 | Line1          | Line2       |
| 1                 | 0.1500        | QP | 11.3              | 11.5        | 10.2           | 10.2  | 21.5               | 21.7        | 66.0            | 44.5           | 44.3        |
| 2                 | 0.1728        | QP | <u>24.5</u>       | 24.4        | 10.2           | 10.2  | <u>34.7</u>        | 34.6        | 64.8            | <u>30.1</u>    | 30.2        |
| 3                 | 0.1938        | QP | 20.7              | 21.2        | 10.2           | 10.2  | 30.9               | 31.4        | 63.9            | 33.0           | 32.5        |
| 4                 | 0.2140        | QP | <u>30.0</u>       | 29.7        | 10.2           | 10.2  | <u>40.2</u>        | 39.9        | 63.0            | <u>22.8</u>    | 23.1        |
| 5                 | 0.3213        | QP | 4.5               | <u>19.6</u> | 10.2           | 10.2  | 14.7               | <u>29.8</u> | 59.7            | 45.0           | <u>29.9</u> |
| 6                 | 0.3473        | QP | 2.0               | <u>19.2</u> | 10.2           | 10.2  | 12.2               | <u>29.4</u> | 59.0            | 46.8           | <u>29.6</u> |
| 7                 | 0.5367        | QP | 6.3               | 12.5        | 10.3           | 10.3  | 16.6               | 22.8        | 56.0            | 39.4           | 33.2        |
| 8                 | 14.4919       | QP | <u>23.0</u>       | 22.6        | 11.0           | 11.1  | <u>34.0</u>        | 33.7        | 60.0            | <u>26.0</u>    | 26.3        |
| 9                 | 16.2260       | QP | <u>23.5</u>       | 23.2        | 11.0           | 11.1  | <u>34.5</u>        | 34.3        | 60.0            | <u>25.5</u>    | 25.7        |

Higher six points are underlined.  
Other frequencies : Below the FCC Part15B Class B limit  
Emission Level = Read + Factor(LISN,Pad,Cable)  
(Factor = Ant. Fact. + Cable Loss - Amp. Gain + Att. - Dist. Conversion Fact.)

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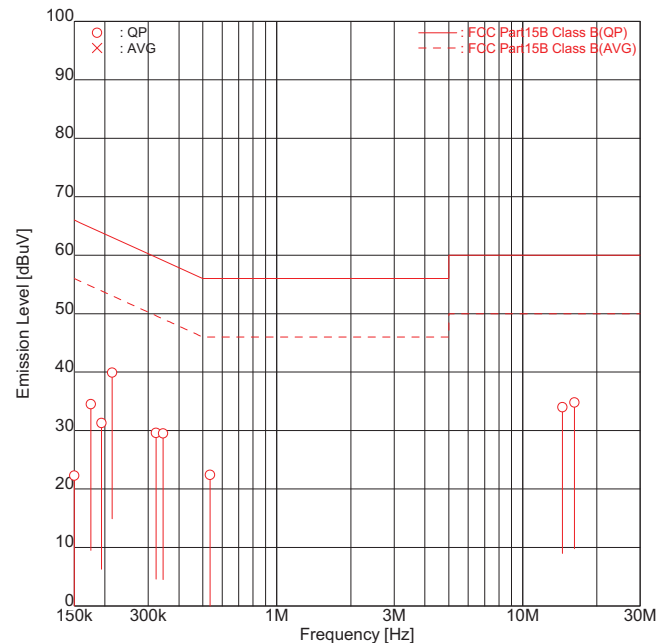
#### 9.1.1.6 RX mode (259.995MHz : Band A)

### Intertek Japan K.K.

#### Tochigi No.3 Test Site

##### Conducted Voltages on Mains Port

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(259.995MHz;Band A)  
POWER SOURCE : AC120 V, 60 Hz  
DATE TESTED : Jun 02 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
TEMPERATURE : 24.0 [degC]  
HUMIDITY : 42.0 [%]  
NOTE :



ENGINEER : Koichi Wagatsuma

| FREQUENCY<br>[No] | MODE<br>[MHz] |    | READING<br>[dBuV] |             | FACTOR<br>[dB] |       | EMISSION<br>[dBuV] |             | LIMIT<br>[dBuV] | MARGIN<br>[dB] |             |
|-------------------|---------------|----|-------------------|-------------|----------------|-------|--------------------|-------------|-----------------|----------------|-------------|
|                   |               |    | Line1             | Line2       | Line1          | Line2 | Line1              | Line2       |                 | Line1          | Line2       |
| 1                 | 0.1500        | QP | 11.0              | 12.1        | 10.2           | 10.2  | 21.2               | 22.3        | 66.0            | 44.8           | 43.7        |
| 2                 | 0.1753        | QP | <u>24.3</u>       | 24.3        | 10.2           | 10.2  | <u>34.5</u>        | 34.5        | 64.7            | <u>30.2</u>    | 30.2        |
| 3                 | 0.1938        | QP | <u>20.5</u>       | 21.1        | 10.2           | 10.2  | <u>30.7</u>        | 31.3        | 63.9            | 33.2           | 32.6        |
| 4                 | 0.2140        | QP | <u>29.7</u>       | 29.7        | 10.2           | 10.2  | <u>39.9</u>        | 39.9        | 63.0            | <u>23.1</u>    | 23.1        |
| 5                 | 0.3226        | QP | 3.5               | <u>19.4</u> | 10.2           | 10.2  | 13.7               | <u>29.6</u> | 59.6            | 45.9           | <u>30.0</u> |
| 6                 | 0.3448        | QP | 2.0               | <u>19.3</u> | 10.2           | 10.2  | 12.2               | <u>29.5</u> | 59.1            | 46.9           | <u>29.6</u> |
| 7                 | 0.5347        | QP | 6.0               | 12.1        | 10.3           | 10.3  | 16.3               | 22.4        | 56.0            | 39.7           | 33.6        |
| 8                 | 14.4906       | QP | <u>23.0</u>       | 22.8        | 11.0           | 11.1  | <u>34.0</u>        | 33.9        | 60.0            | <u>26.0</u>    | 26.1        |
| 9                 | 16.2273       | QP | <u>23.8</u>       | 23.4        | 11.0           | 11.1  | <u>34.8</u>        | 34.5        | 60.0            | <u>25.2</u>    | 25.5        |

Higher six points are underlined.

Other frequencies : Below the FCC Part15B Class B limit

Emission Level = Read + Factor(LISN,Pad,Cable)

(Factor = Ant. Fact. + Cable Loss - Amp. Gain + Att. - Dist. Conversion Fact.)

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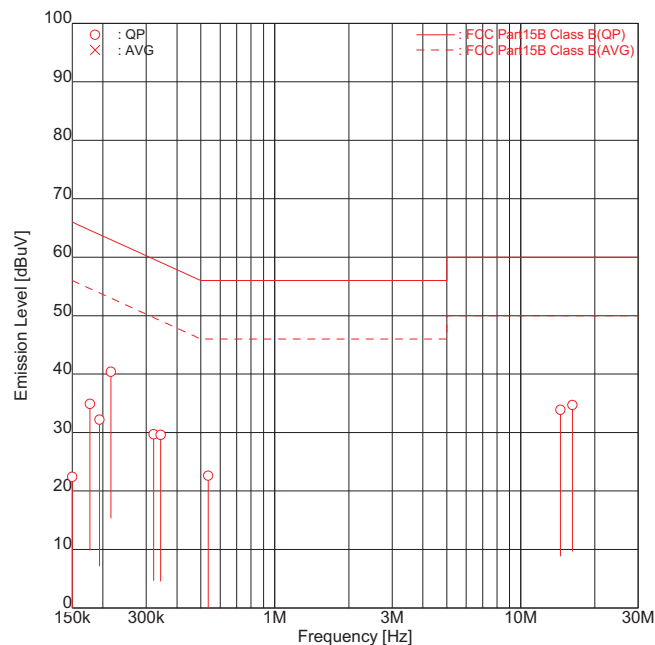
### 9.1.1.7 RX mode (410.00MHz : Band A)

## Intertek Japan K.K.

### Tochigi No.3 Test Site

#### Conducted Voltages on Mains Port

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(410.00MHz;Band A)  
POWER SOURCE : AC120 V, 60 Hz  
DATE TESTED : Jun 02 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
TEMPERATURE : 24.0 [degC]  
HUMIDITY : 42.0 [%]  
NOTE :



ENGINEER : Koichi Wagatsuma

| FREQUENCY<br>[No] | MODE<br>[MHz] |    | READING<br>[dBuV] |             | FACTOR<br>[dB] |       | EMISSION<br>[dBuV] |             | LIMIT<br>[dBuV] | MARGIN<br>[dB] |             |
|-------------------|---------------|----|-------------------|-------------|----------------|-------|--------------------|-------------|-----------------|----------------|-------------|
|                   |               |    | Line1             | Line2       | Line1          | Line2 | Line1              | Line2       |                 | Line1          | Line2       |
| 1                 | 0.1500        | QP | 12.2              | 12.0        | 10.2           | 10.2  | 22.4               | 22.2        | 66.0            | 43.6           | 43.8        |
| 2                 | 0.1772        | QP | 24.6              | <u>24.7</u> | 10.2           | 10.2  | 34.8               | <u>34.9</u> | 64.6            | 29.8           | <u>29.7</u> |
| 3                 | 0.1938        | QP | 21.5              | 22.0        | 10.2           | 10.2  | 31.7               | 32.2        | 63.9            | 32.2           | 31.7        |
| 4                 | 0.2153        | QP | <u>30.2</u>       | 30.2        | 10.2           | 10.2  | <u>40.4</u>        | 40.4        | 63.0            | <u>22.6</u>    | 22.6        |
| 5                 | 0.3213        | QP | 3.5               | <u>19.5</u> | 10.2           | 10.2  | 13.7               | <u>29.7</u> | 59.7            | 46.0           | <u>30.0</u> |
| 6                 | 0.3435        | QP | 2.0               | <u>19.4</u> | 10.2           | 10.2  | 12.2               | <u>29.6</u> | 59.1            | 46.9           | <u>29.5</u> |
| 7                 | 0.5360        | QP | 6.3               | 12.3        | 10.3           | 10.3  | 16.6               | 22.6        | 56.0            | 39.4           | 33.4        |
| 8                 | 14.4906       | QP | 22.7              | <u>22.8</u> | 11.0           | 11.1  | 33.7               | <u>33.9</u> | 60.0            | 26.3           | <u>26.1</u> |
| 9                 | 16.2286       | QP | <u>23.7</u>       | 23.5        | 11.0           | 11.1  | <u>34.7</u>        | 34.6        | 60.0            | <u>25.3</u>    | 25.4        |

<

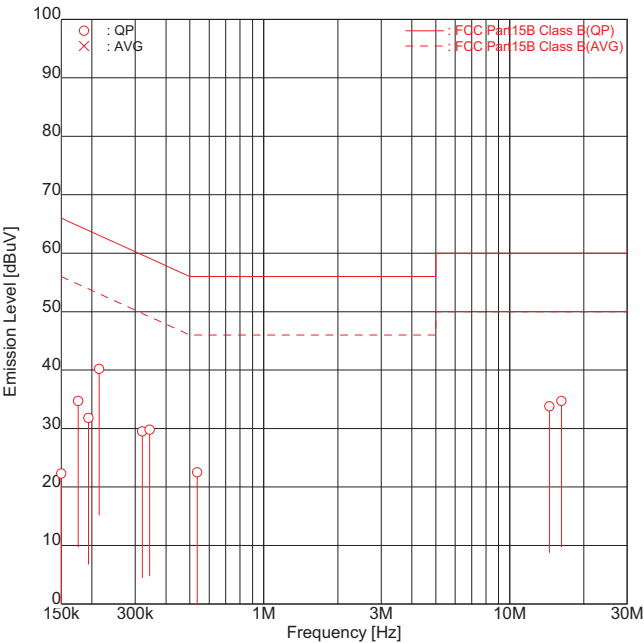
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9.1.1.8 RX mode (440.00MHz : Band A)

Intertek Japan K.K.  
Tochigi No.3 Test Site  
Conducted Voltages on Mains Port

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(440.00MHz;Band A)  
POWER SOURCE : AC120 V, 60 Hz  
DATE TESTED : Jun 02 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
TEMPERATURE : 24.0 [degC]  
HUMIDITY : 42.0 [%]  
NOTE :



ENGINEER : Koichi Wagatsuma

| FREQUENCY<br>[No] | MODE<br>[MHz] | READING<br>[dBuV] |             | FACTOR<br>[dB] |       | EMISSION<br>[dBuV] |             | LIMIT<br>[dBuV] | MARGIN<br>[dB] |             |
|-------------------|---------------|-------------------|-------------|----------------|-------|--------------------|-------------|-----------------|----------------|-------------|
|                   |               | Line1             | Line2       | Line1          | Line2 | Line1              | Line2       |                 | Line1          | Line2       |
| 1                 | 0.1500        | QP                | 12.1        | 12.0           | 10.2  | 22.3               | 22.2        | 66.0            | 43.7           | 43.8        |
| 2                 | 0.1759        | QP                | 24.2        | <u>24.5</u>    | 10.2  | 34.4               | <u>34.7</u> | 64.7            | 30.3           | <u>30.0</u> |
| 3                 | 0.1938        | QP                | 21.0        | 21.6           | 10.2  | 31.2               | 31.8        | 63.9            | 32.7           | 32.1        |
| 4                 | 0.2140        | QP                | <u>30.0</u> | 29.8           | 10.2  | <u>40.2</u>        | 40.0        | 63.0            | <u>22.8</u>    | 23.0        |
| 5                 | 0.3203        | QP                | 3.5         | <u>19.3</u>    | 10.2  | 13.7               | <u>29.5</u> | 59.7            | 46.0           | <u>30.2</u> |
| 6                 | 0.3435        | QP                | 2.0         | <u>19.6</u>    | 10.2  | 12.2               | <u>29.8</u> | 59.1            | 46.9           | <u>29.3</u> |
| 7                 | 0.5360        | QP                | 6.3         | 12.2           | 10.3  | 16.6               | 22.5        | 56.0            | 39.4           | 33.5        |
| 8                 | 14.4906       | QP                | 22.5        | <u>22.7</u>    | 11.0  | 33.5               | <u>33.8</u> | 60.0            | 26.5           | <u>26.2</u> |
| 9                 | 16.2286       | QP                | <u>23.7</u> | 23.6           | 11.0  | <u>34.7</u>        | 34.7        | 60.0            | <u>25.3</u>    | 25.3        |

Higher six points are underlined.  
Other frequencies : Below the FCC Part15B Class B limit  
Emission Level = Read + Factor(LISN,Pad,Cable)  
(Factor = Ant. Fact. + Cable Loss - Amp. Gain + Att. - Dist. Conversion Fact.)

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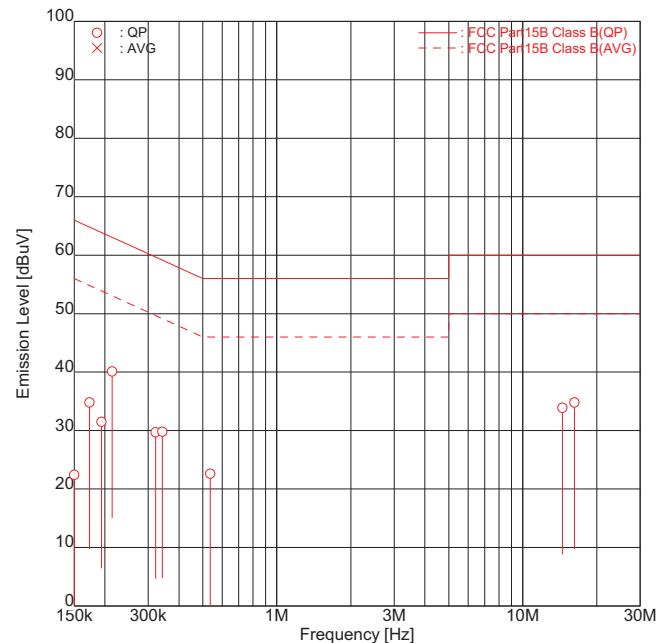
### 9.1.1.9 RX mode (469.995MHz : Band A)

## Intertek Japan K.K.

### Tochigi No.3 Test Site

#### Conducted Voltages on Mains Port

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(469.995MHz;Band A)  
POWER SOURCE : AC120 V, 60 Hz  
DATE TESTED : Jun 02 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
TEMPERATURE : 24.0 [degC]  
HUMIDITY : 42.0 [%]  
NOTE :



ENGINEER : Koichi Wagatsuma

| FREQUENCY MODE |         |    | READING     |             | FACTOR |       | EMISSION    |             | LIMIT  | MARGIN      |             |
|----------------|---------|----|-------------|-------------|--------|-------|-------------|-------------|--------|-------------|-------------|
| [No]           | [MHz]   |    | [dBuV]      |             | [dB]   |       | [dBuV]      |             | [dBuV] | [dB]        |             |
|                |         |    | Line1       | Line2       | Line1  | Line2 | Line1       | Line2       |        | Line1       | Line2       |
| 1              | 0.1500  | QP | 12.2        | 12.0        | 10.2   | 10.2  | 22.4        | 22.2        | 66.0   | 43.6        | 43.8        |
| 2              | 0.1732  | QP | <u>24.6</u> | 24.5        | 10.2   | 10.2  | <u>34.8</u> | 34.7        | 64.8   | <u>30.0</u> | 30.1        |
| 3              | 0.1938  | QP | 21.0        | 21.3        | 10.2   | 10.2  | 31.2        | 31.5        | 63.9   | 32.7        | 32.4        |
| 4              | 0.2140  | QP | 29.7        | <u>29.9</u> | 10.2   | 10.2  | 39.9        | <u>40.1</u> | 63.0   | 23.1        | <u>22.9</u> |
| 5              | 0.3217  | QP | 3.5         | <u>19.5</u> | 10.2   | 10.2  | 13.7        | <u>29.7</u> | 59.7   | 46.0        | <u>30.0</u> |
| 6              | 0.3422  | QP | 2.0         | <u>19.6</u> | 10.2   | 10.2  | 12.2        | <u>29.8</u> | 59.1   | 46.9        | <u>29.3</u> |
| 7              | 0.5362  | QP | 6.3         | 12.3        | 10.3   | 10.3  | 16.6        | 22.6        | 56.0   | 39.4        | 33.4        |
| 8              | 14.4893 | QP | 22.8        | <u>22.8</u> | 11.0   | 11.1  | 33.8        | <u>33.9</u> | 60.0   | 26.2        | <u>26.1</u> |
| 9              | 16.2286 | QP | <u>23.8</u> | 23.6        | 11.0   | 11.1  | <u>34.8</u> | 34.7        | 60.0   | <u>25.2</u> | 25.3        |

Higher six points are underlined.

Other frequencies : Below the FCC Part15B Class B limit

Emission Level = Read + Factor(LISN,Pad,Cable)

(Factor = Ant. Fact. + Cable Loss - Amp. Gain + Att. - Dist. Conversion Fact.)

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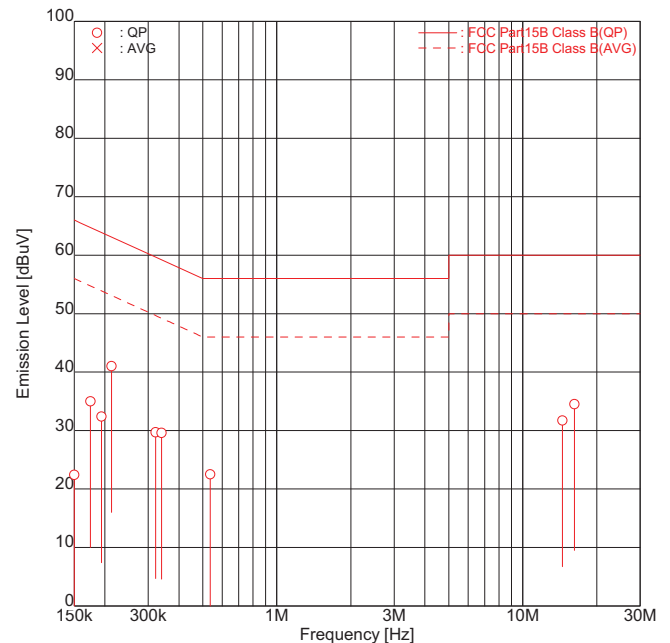
#### 9.1.1.10 RX mode (0.10MHz : Band B)

### Intertek Japan K.K.

#### Tochigi No.3 Test Site

##### Conducted Voltages on Mains Port

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(0.100MHz;Band B)  
POWER SOURCE : AC120 V, 60 Hz  
DATE TESTED : Jun 02 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
TEMPERATURE : 24.0 [degC]  
HUMIDITY : 42.0 [%]  
NOTE :



ENGINEER : Koichi Wagatsuma

| FREQUENCY<br>[No] | MODE<br>[MHz] |    | READING<br>[dBuV] |             | FACTOR<br>[dB] |       | EMISSION<br>[dBuV] |             | LIMIT<br>[dBuV] | MARGIN<br>[dB] |             |
|-------------------|---------------|----|-------------------|-------------|----------------|-------|--------------------|-------------|-----------------|----------------|-------------|
|                   |               |    | Line1             | Line2       | Line1          | Line2 | Line1              | Line2       |                 | Line1          | Line2       |
| 1                 | 0.1500        | QP | 12.1              | 12.2        | 10.2           | 10.2  | 22.3               | 22.4        | 66.0            | 43.7           | 43.6        |
| 2                 | 0.1745        | QP | <u>24.8</u>       | 24.7        | 10.2           | 10.2  | <u>35.0</u>        | 34.9        | 64.7            | <u>29.7</u>    | 29.8        |
| 3                 | 0.1938        | QP | 22.2              | 22.2        | 10.2           | 10.2  | 32.4               | 32.4        | 63.9            | 31.5           | 31.5        |
| 4                 | 0.2127        | QP | <u>30.8</u>       | 30.5        | 10.2           | 10.2  | <u>41.0</u>        | 40.7        | 63.1            | <u>22.1</u>    | 22.4        |
| 5                 | 0.3217        | QP | 3.5               | <u>19.5</u> | 10.2           | 10.2  | 13.7               | <u>29.7</u> | 59.7            | 46.0           | <u>30.0</u> |
| 6                 | 0.3396        | QP | 2.0               | <u>19.4</u> | 10.2           | 10.2  | 12.2               | <u>29.6</u> | 59.2            | 47.0           | <u>29.6</u> |
| 7                 | 0.5362        | QP | 6.3               | 12.2        | 10.3           | 10.3  | 16.6               | 22.5        | 56.0            | 39.4           | 33.5        |
| 8                 | 14.4893       | QP | <u>20.7</u>       | 20.5        | 11.0           | 11.1  | <u>31.7</u>        | 31.6        | 60.0            | <u>28.3</u>    | 28.4        |
| 9                 | 16.2261       | QP | 23.3              | <u>23.4</u> | 11.0           | 11.1  | 34.3               | <u>34.5</u> | 60.0            | 25.7           | <u>25.5</u> |

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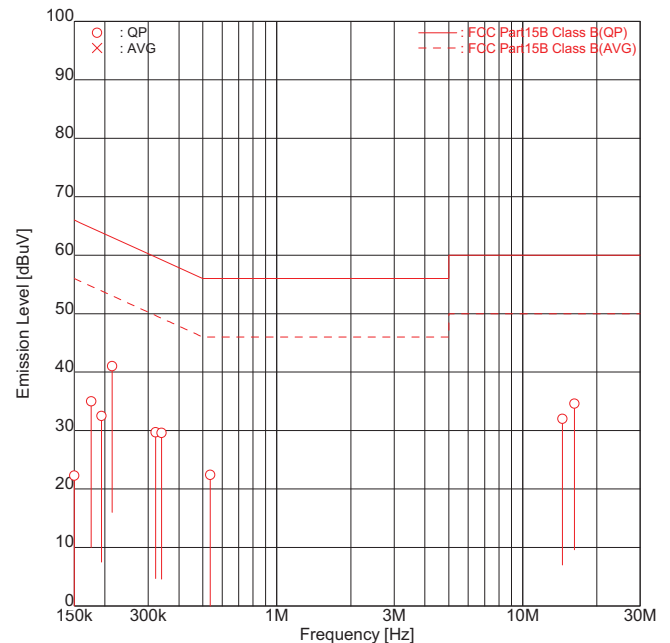
#### 9.1.1.11 RX mode (262.00MHz : Band B)

### Intertek Japan K.K.

#### Tochigi No.3 Test Site

##### Conducted Voltages on Mains Port

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(262.00MHz;Band B)  
POWER SOURCE : AC120 V, 60 Hz  
DATE TESTED : Jun 02 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
TEMPERATURE : 24.0 [degC]  
HUMIDITY : 42.0 [%]  
NOTE :



ENGINEER : Koichi Wagatsuma

| FREQUENCY<br>[No] | MODE<br>[MHz] |    | READING<br>[dBuV] |             | FACTOR<br>[dB] |       | EMISSION<br>[dBuV] |             | LIMIT<br>[dBuV] | MARGIN<br>[dB] |             |
|-------------------|---------------|----|-------------------|-------------|----------------|-------|--------------------|-------------|-----------------|----------------|-------------|
|                   |               |    | Line1             | Line2       | Line1          | Line2 | Line1              | Line2       |                 | Line1          | Line2       |
| 1                 | 0.1500        | QP | 12.1              | 12.0        | 10.2           | 10.2  | 22.3               | 22.2        | 66.0            | 43.7           | 43.8        |
| 2                 | 0.1758        | QP | 24.6              | <u>24.8</u> | 10.2           | 10.2  | 34.8               | <u>35.0</u> | 64.7            | 29.9           | <u>29.7</u> |
| 3                 | 0.1938        | QP | 22.2              | 22.3        | 10.2           | 10.2  | 32.4               | 32.5        | 63.9            | 31.5           | 31.4        |
| 4                 | 0.2140        | QP | <u>30.8</u>       | 30.5        | 10.2           | 10.2  | <u>41.0</u>        | 40.7        | 63.0            | <u>22.0</u>    | 22.3        |
| 5                 | 0.3217        | QP | 3.5               | <u>19.5</u> | 10.2           | 10.2  | 13.7               | <u>29.7</u> | 59.7            | 46.0           | <u>30.0</u> |
| 6                 | 0.3396        | QP | 2.6               | <u>19.4</u> | 10.2           | 10.2  | 12.8               | <u>29.6</u> | 59.2            | 46.4           | <u>29.6</u> |
| 7                 | 0.5363        | QP | 6.3               | 12.1        | 10.3           | 10.3  | 16.6               | 22.4        | 56.0            | 39.4           | 33.6        |
| 8                 | 14.4893       | QP | <u>21.0</u>       | 20.4        | 11.0           | 11.1  | <u>32.0</u>        | 31.5        | 60.0            | <u>28.0</u>    | 28.5        |
| 9                 | 16.2299       | QP | 22.5              | <u>23.5</u> | 11.0           | 11.1  | 33.5               | <u>34.6</u> | 60.0            | 26.5           | <u>25.4</u> |

Higher six points are underlined.

Other frequencies : Below the FCC Part15B Class B limit

Emission Level = Read + Factor(LISN,Pad,Cable)

(Factor = Ant. Fact. + Cable Loss - Amp. Gain + Att. - Dist. Conversion Fact.)

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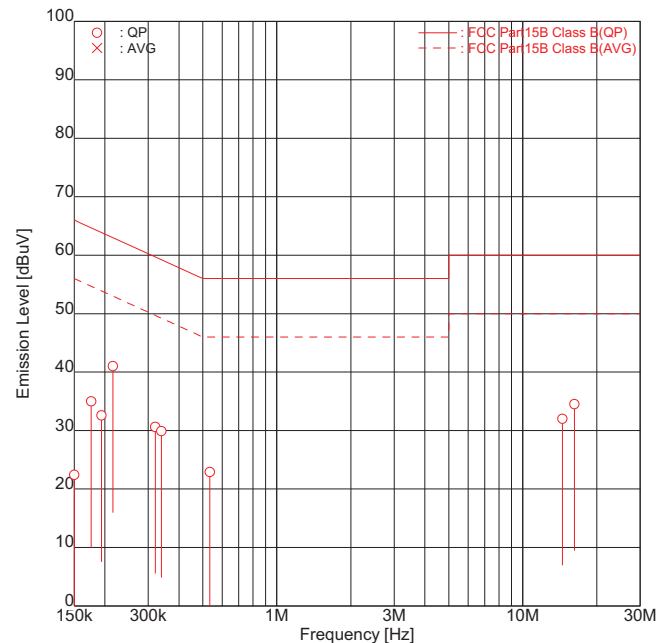
### 9.1.1.12 RX mode (523.995MHz : Band B)

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### Tochigi No.3 Test Site

#### Conducted Voltages on Mains Port

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(523.995MHz;Band B)  
POWER SOURCE : AC120 V, 60 Hz  
DATE TESTED : Jun 02 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
TEMPERATURE : 24.0 [degC]  
HUMIDITY : 42.0 [%]  
NOTE :



ENGINEER : Koichi Wagatsuma

| FREQUENCY<br>[No] | MODE<br>[MHz] |    | READING<br>[dBuV] |             | FACTOR<br>[dB] |       | EMISSION<br>[dBuV] |             | LIMIT<br>[dBuV] | MARGIN<br>[dB] |             |
|-------------------|---------------|----|-------------------|-------------|----------------|-------|--------------------|-------------|-----------------|----------------|-------------|
|                   |               |    | Line1             | Line2       | Line1          | Line2 | Line1              | Line2       |                 | Line1          | Line2       |
| 1                 | 0.1500        | QP | 12.1              | 12.2        | 10.2           | 10.2  | 22.3               | 22.4        | 66.0            | 43.7           | 43.6        |
| 2                 | 0.1758        | QP | <u>24.8</u>       | 24.8        | 10.2           | 10.2  | <u>35.0</u>        | 35.0        | 64.7            | <u>29.7</u>    | 29.7        |
| 3                 | 0.1938        | QP | 22.0              | 22.4        | 10.2           | 10.2  | 32.2               | 32.6        | 63.9            | 31.7           | 31.3        |
| 4                 | 0.2153        | QP | <u>30.8</u>       | 30.7        | 10.2           | 10.2  | <u>41.0</u>        | 40.9        | 63.0            | <u>22.0</u>    | 22.1        |
| 5                 | 0.3204        | QP | 6.3               | <u>20.4</u> | 10.2           | 10.2  | 16.5               | <u>30.6</u> | 59.7            | 43.2           | <u>29.1</u> |
| 6                 | 0.3394        | QP | 2.6               | <u>19.7</u> | 10.2           | 10.2  | 12.8               | <u>29.9</u> | 59.2            | 46.4           | <u>29.3</u> |
| 7                 | 0.5337        | QP | 6.9               | 12.6        | 10.3           | 10.3  | 17.2               | 22.9        | 56.0            | 38.8           | 33.1        |
| 8                 | 14.4931       | QP | <u>21.0</u>       | 20.0        | 11.0           | 11.1  | <u>32.0</u>        | 31.1        | 60.0            | <u>28.0</u>    | 28.9        |
| 9                 | 16.2274       | QP | 23.0              | <u>23.4</u> | 11.0           | 11.1  | 34.0               | <u>34.5</u> | 60.0            | 26.0           | <u>25.5</u> |

Higher six points are underlined.  
Other frequencies : Below the FCC Part15B Class B limit  
Emission Level = Read + Factor(LISN,Pad,Cable)  
(Factor = Ant. Fact. + Cable Loss - Amp. Gain + Att. - Dist. Conversion Fact.)

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### 9.1.2 Radiated disturbance

|                      |                                 |
|----------------------|---------------------------------|
| <b>Location</b>      | Tochigi No.1 and No.3 Test Site |
| <b>Test Engineer</b> | Koichi Wagatsuma                |

#### Frequency Range of Measurements

| Operating mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Required Frequency Range | Measured Frequency Range |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|
| RX mode(136.00MHz : Band A)<br>RX mode(155.00MHz : Band A)<br>RX mode(173.995MHz : Band A)<br>RX mode(216.00MHz : Band A)<br>RX mode(238.00MHz : Band A)<br>RX mode(259.995MHz : Band A)<br>RX mode(410.00MHz : Band A)<br>RX mode(440.00MHz : Band A)<br>RX mode(469.995MHz : Band A)<br>RX mode(0.10MHz : Band B)<br>RX mode(262.00MHz : Band B)<br>RX mode(523.995MHz : Band B)<br>VFO Scan mode(136-173.995MHz : Band A)<br>VFO Scan mode(216-259.995MHz : Band A)<br>VFO Scan mode(410-469.995MHz : Band A)<br>VFO Scan mode(0.10-523.995MHz : Band B) | 30 – 25000 MHz           | 30 – 25000 MHz           |

#### Test Procedure

| Item                 | Document number |
|----------------------|-----------------|
| Radiated disturbance | RJP-EM003       |

#### Setting for the Measuring instruments

| Frequency [MHz] | Instrument        | Detector   | Resolution Bandwidth | Video Bandwidth |
|-----------------|-------------------|------------|----------------------|-----------------|
| 30 – 1000       | Receiver          | Quasi Peak | 120 kHz              | N/A             |
| Above 1000      | Spectrum Analyzer | Peak       | 1 MHz                | 1 MHz           |
|                 |                   | Average    | 1 MHz                | 10 Hz           |

< Measurement data correction >

Emission Level = Meter Reading + Factor

Margin = Limit - Emission Level

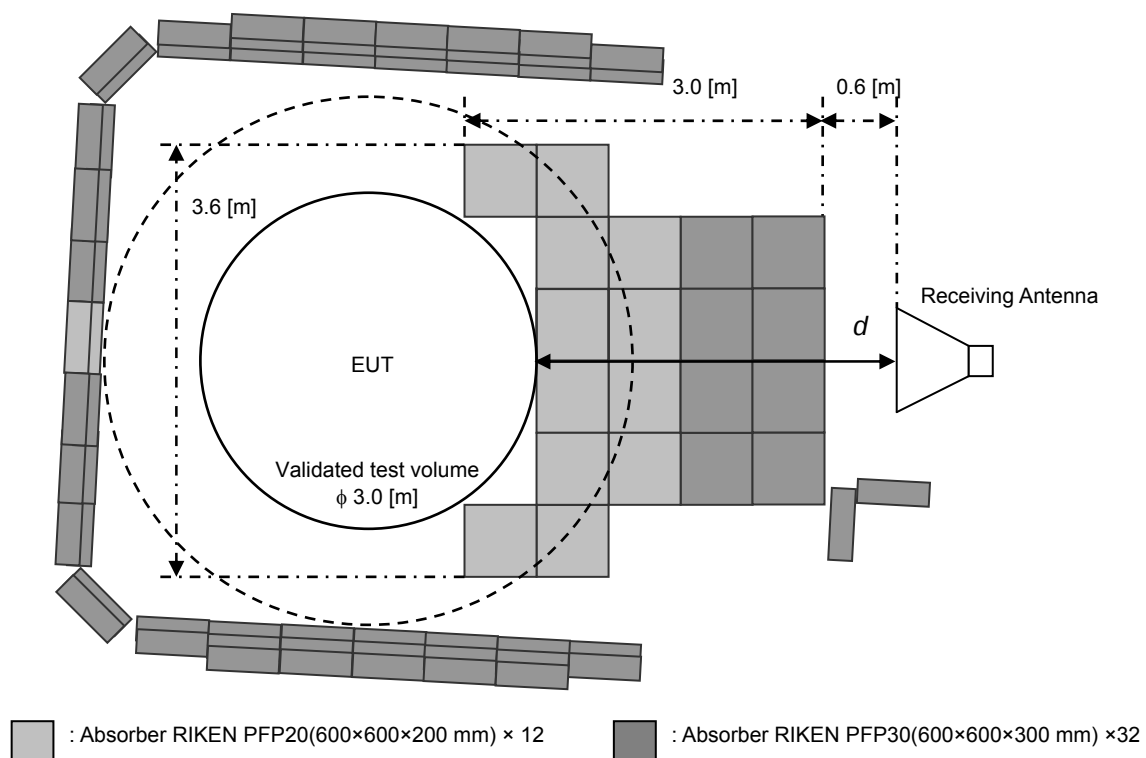
Factor = Antenna Factor + Cable Loss - Amplifier Gain + Attenuator (+ Distance Conversion Factor)\*

\* For other than Standard distance:

Distance Conversion Factor = 20 log (Measurement distance / Standard distance)

| Operating Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Frequency Range | Measurement distance |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------|
| RX mode(136.00MHz : Band A)<br>RX mode(155.00MHz : Band A)<br>RX mode(173.995MHz : Band A)<br>RX mode(216.00MHz : Band A)<br>RX mode(238.00MHz : Band A)<br>RX mode(259.995MHz : Band A)<br>RX mode(410.00MHz : Band A)<br>RX mode(440.00MHz : Band A)<br>RX mode(469.995MHz : Band A)<br>RX mode(0.10MHz : Band B)<br>RX mode(262.00MHz : Band B)<br>RX mode(523.995MHz : Band B)<br>VFO Scan mode(136-173.995MHz : Band A)<br>VFO Scan mode(216-259.995MHz : Band A)<br>VFO Scan mode(410-469.995MHz : Band A)<br>VFO Scan mode(0.10-523.995MHz : Band B) | 30-1000 MHz     | 3 m                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Above 1 GHz     | 3.73 m               |

#### Absorber placement and Receive Antenna location in Radiated disturbance above 1 GHz



## Result of Radiated disturbances

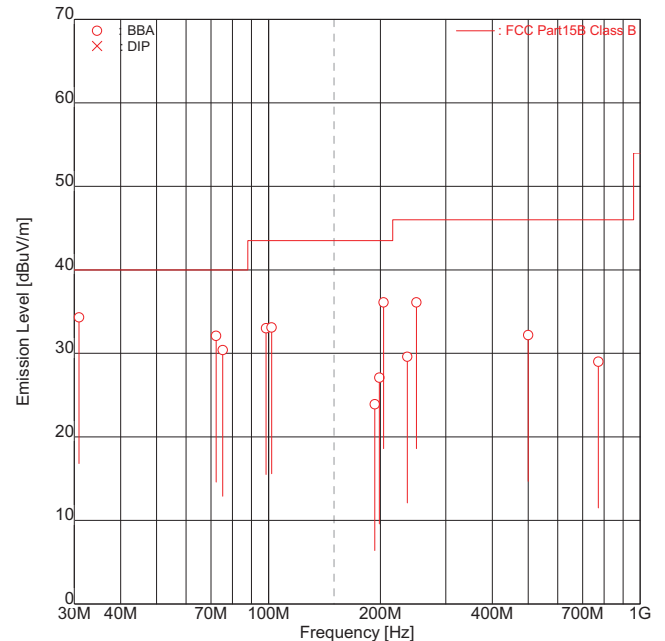
### 9.1.2.1 RX mode(136.00MHz : Band A) 30 – 1000 MHz

Intertek Japan K.K.

Tochigi No.3 Test Site

Radiated Electric Field

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(136.00MHz;Band A)  
POWER SOURCE : DC13.8V(AC120 V, 60 Hz)  
DATE TESTED : May 30 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
DISTANCE : 3.00 [m]  
TEMPERATURE : 22.0 [degC]  
HUMIDITY : 60.0 [%]  
NOTE :



ENGINEER : Koichi Wagatsuma

| FREQUENCY<br>[No] | FREQ. [MHz] | ANT. | READING<br>[dBuV] |             | FACTOR<br>[dB/m] |      | EMISSION<br>[dBuV/m] |             | LIMIT<br>[dBuV/m] | MARGIN<br>[dB] |             |
|-------------------|-------------|------|-------------------|-------------|------------------|------|----------------------|-------------|-------------------|----------------|-------------|
|                   |             |      | Hori              | Vert        | Hori             | Vert | Hori                 | Vert        |                   | Hori           | Vert        |
| 1                 | 30.90       | BBA  | -                 | <u>41.5</u> | -7.2             | -7.2 | -                    | <u>34.3</u> | 40.0              | -              | <u>5.7</u>  |
| 2                 | 72.28       | BBA  | <u>39.5</u>       | -           | -7.4             | -7.4 | <u>32.1</u>          | -           | 40.0              | <u>7.9</u>     | -           |
| 3                 | 75.30       | BBA  | <u>38.4</u>       | -           | -8.0             | -8.0 | <u>30.4</u>          | -           | 40.0              | <u>9.6</u>     | -           |
| 4                 | 98.47       | BBA  | -                 | 42.5        | -9.5             | -9.5 | -                    | 33.0        | 43.5              | -              | 10.5        |
| 5                 | 101.91      | BBA  | -                 | <u>42.2</u> | -9.1             | -9.1 | -                    | <u>33.1</u> | 43.5              | -              | <u>10.4</u> |
| 6                 | 193.15      | BBA  | -                 | 30.5        | -6.6             | -6.6 | -                    | 23.9        | 43.5              | -              | 19.6        |
| 7                 | 198.78      | BBA  | 34.2              | -           | -7.1             | -7.1 | 27.1                 | -           | 43.5              | 16.4           | -           |
| 8                 | 204.03      | BBA  | <u>43.0</u>       | 40.0        | -6.9             | -6.9 | <u>36.1</u>          | 33.1        | 43.5              | <u>7.4</u>     | 10.4        |
| 9                 | 236.25      | BBA  | 35.0              | -           | -5.4             | -5.4 | 29.6                 | -           | 46.0              | 16.4           | -           |
| 10                | 250.00      | BBA  | 38.0              | <u>41.0</u> | -4.9             | -4.9 | 33.1                 | <u>36.1</u> | 46.0              | 12.9           | <u>9.9</u>  |
| 11                | 500.00      | BBA  | 28.8              | -           | 3.4              | 3.4  | 32.2                 | -           | 46.0              | 13.8           | -           |
| 12                | 772.60      | BBA  | -                 | 19.5        | 9.5              | 9.5  | -                    | 29.0        | 46.0              | -              | 17.0        |

Higher six points are underlined.  
Other frequencies : Below the FCC Part15B Class B limit  
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamplifier)  
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)  
(Factor = Ant. Fact. + Cable Loss - Amp. Gain + Att. - Dist. Conversion Fact.)

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1000 – 25000 MHz

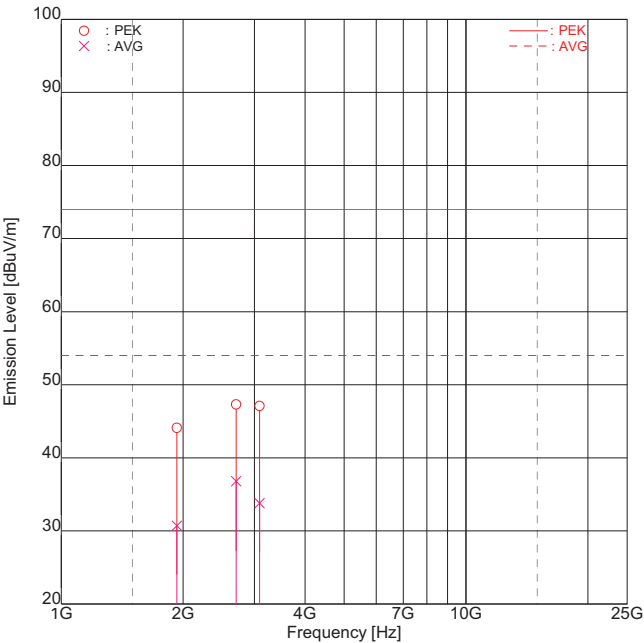
Intertek Japan K.K.

Tochigi No.1 Test Site

Radiated Electric Field

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(136.00MHz: Band A)  
POWER SOURCE : DC 13.8V (AC120 V, 60 Hz)  
DATE TESTED : Jun 07 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
DISTANCE : 3.73 [m]  
TEMPERATURE : 24.0 [degC]  
HUMIDITY : 46.0 [%]  
NOTE :

ENGINEER : Koichi Wagatuma



| FREQUENCY<br>[No] | MODE<br>[MHz] |     | READING<br>[dBuV] |             | FACTOR<br>[dB] |      | EMISSION<br>[dBuV/m] |             | LIMIT<br>[dBuV/m] | MARGIN<br>[dB] |             |
|-------------------|---------------|-----|-------------------|-------------|----------------|------|----------------------|-------------|-------------------|----------------|-------------|
|                   |               |     | Hori              | Vert        | Hori           | Vert | Hori                 | Vert        |                   | Hori           | Vert        |
| 1                 | 1931.50       | PEK | 37.7              | <u>38.6</u> | 5.5            | 5.5  | 43.2                 | <u>44.1</u> | 74.0              | 30.8           | <u>29.9</u> |
| 2                 | 1931.50       | AVG | <u>25.2</u>       | 24.3        | 5.5            | 5.5  | <u>30.7</u>          | 29.8        | 54.0              | <u>23.3</u>    | 24.2        |
| 3                 | 2704.12       | PEK | <u>39.3</u>       | 37.8        | 8.0            | 8.0  | <u>47.3</u>          | 45.8        | 74.0              | <u>26.7</u>    | 28.2        |
| 4                 | 2704.12       | AVG | <u>28.8</u>       | 24.9        | 8.0            | 8.0  | <u>36.8</u>          | 32.9        | 54.0              | <u>17.2</u>    | 21.1        |
| 5                 | 3090.00       | PEK | 35.4              | <u>37.9</u> | 9.2            | 9.2  | 44.6                 | <u>47.1</u> | 74.0              | 29.4           | <u>26.9</u> |
| 6                 | 3090.00       | AVG | 24.5              | <u>24.6</u> | 9.2            | 9.2  | 33.7                 | <u>33.8</u> | 54.0              | 20.3           | <u>20.2</u> |

Higher six points are underlined.  
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)  
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)  
(Factor = Ant.Fact. + Cable Loss - Amp.Gain + Att. - Dist.Conversion Fact.)

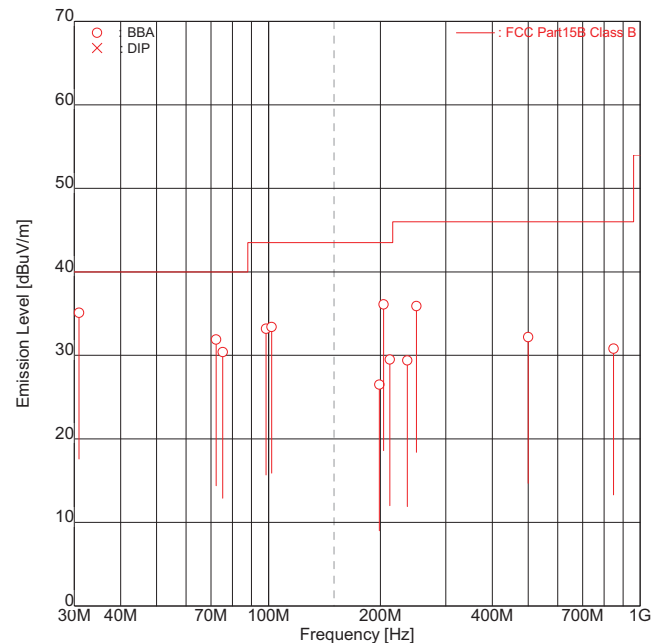
**9.1.2.2 RX mode(155.00MHz : Band A)  
30 – 1000 MHz**

# Intertek Japan K.K.

## Tochigi No.3 Test Site

### Radiated Electric Field

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(155.00MHz;Band A)  
POWER SOURCE : DC13.8V(AC120 V, 60 Hz)  
DATE TESTED : May 30 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
DISTANCE : 3.00 [m]  
TEMPERATURE : 22.0 [degC]  
HUMIDITY : 60.0 [%]  
NOTE :



ENGINEER : Koichi Wagatsuma

| FREQUENCY<br>[No] | FREQUENCY<br>[MHz] | ANT. | MEMO | AZIMUTH<br>[deg] |      | HEIGHT<br>[cm] |      | EMISSION<br>[dBuV/m] |             | LIMIT<br>[dBuV/m] | MARGIN<br>[dB] |             |
|-------------------|--------------------|------|------|------------------|------|----------------|------|----------------------|-------------|-------------------|----------------|-------------|
|                   |                    |      |      | Hori             | Vert | Hori           | Vert | Hori                 | Vert        |                   | Hori           | Vert        |
| 1                 | 30.90              | BBA  |      | -                | 383  | -              | 94   | -                    | <u>35.1</u> | 40.0              | -              | <u>4.9</u>  |
| 2                 | 72.28              | BBA  |      | 264              | -    | 271            | -    | <u>31.9</u>          | -           | 40.0              | <u>8.1</u>     | -           |
| 3                 | 75.30              | BBA  |      | 264              | -    | 271            | -    | <u>30.4</u>          | -           | 40.0              | <u>9.6</u>     | -           |
| 4                 | 98.47              | BBA  |      | -                | 56   | -              | 111  | -                    | 33.2        | 43.5              | -              | 10.3        |
| 5                 | 101.91             | BBA  |      | -                | 148  | -              | 98   | -                    | <u>33.4</u> | 43.5              | -              | <u>10.1</u> |
| 6                 | 198.78             | BBA  |      | 221              | -    | 176            | -    | 26.5                 | -           | 43.5              | 17.0           | -           |
| 7                 | 204.03             | BBA  |      | 261              | 343  | 232            | 268  | <u>36.1</u>          | 32.9        | 43.5              | <u>7.4</u>     | 10.6        |
| 8                 | 212.15             | BBA  |      | -                | 55   | -              | 100  | -                    | 29.5        | 43.5              | -              | 14.0        |
| 9                 | 236.25             | BBA  |      | 148              | -    | 176            | -    | 29.4                 | -           | 46.0              | 16.6           | -           |
| 10                | 250.00             | BBA  |      | 139              | 190  | 137            | 107  | 35.1                 | <u>35.9</u> | 46.0              | 10.9           | <u>10.1</u> |
| 11                | 500.00             | BBA  |      | 357              | -    | 114            | -    | 32.2                 | -           | 46.0              | 13.8           | -           |
| 12                | 848.60             | BBA  |      | -                | -    | -              | -    | -                    | 30.8        | 46.0              | -              | 15.2        |

Higher six points are underlined.  
Other frequencies : Below the FCC Part15B Class B limit  
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)  
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)  
(Factor = Ant. Fact. + Cable Loss - Amp. Gain + Att. - Dist. Conversion Fact.)

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# 1000 – 25000 MHz

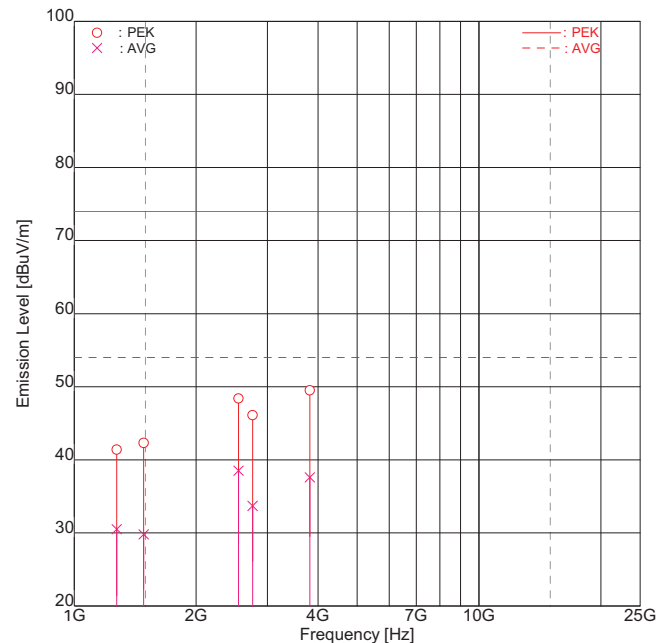
## Intertek Japan K.K.

### Tochigi No.1 Test Site

#### Radiated Electric Field

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(155.00MHz: Band A)  
POWER SOURCE : DC 13.8V (AC120 V, 60 Hz)  
DATE TESTED : Jun 07 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
DISTANCE : 3.73 [m]  
TEMPERATURE : 24.0 [degC]  
HUMIDITY : 50.0 [%]  
NOTE :

ENGINEER : Koichi Wagatuma



| FREQUENCY<br>[No] | MODE<br>[MHz] |     | READING<br>[dBuV] |             | FACTOR<br>[dB] |      | EMISSION<br>[dBuV/m] |             | LIMIT<br>[dBuV/m] |             | MARGIN<br>[dB] |      |
|-------------------|---------------|-----|-------------------|-------------|----------------|------|----------------------|-------------|-------------------|-------------|----------------|------|
|                   |               |     | Hori              | Vert        | Hori           | Vert | Hori                 | Vert        | Hori              | Vert        | Hori           | Vert |
| 1                 | 1272.90       | PEK | 38.2              | 39.4        | 2.0            | 2.0  | 40.2                 | 41.4        | 74.0              | 33.8        | 32.6           |      |
| 2                 | 1272.90       | AVG | 28.0              | <u>28.5</u> | 2.0            | 2.0  | 30.0                 | <u>30.5</u> | 54.0              | 24.0        | <u>23.5</u>    |      |
| 3                 | 1485.05       | PEK | 38.2              | 39.3        | 3.0            | 3.0  | 41.2                 | 42.3        | 74.0              | 32.8        | 31.7           |      |
| 4                 | 1485.05       | AVG | 26.5              | <u>26.8</u> | 3.0            | 3.0  | 29.5                 | <u>29.8</u> | 54.0              | 24.5        | <u>24.2</u>    |      |
| 5                 | 2545.80       | PEK | 38.0              | 40.8        | 7.6            | 7.6  | 45.6                 | 48.4        | 74.0              | 28.4        | 25.6           |      |
| 6                 | 2545.80       | AVG | 29.0              | <u>30.9</u> | 7.6            | 7.6  | 36.6                 | <u>38.5</u> | 54.0              | 17.4        | <u>15.5</u>    |      |
| 7                 | 2757.95       | PEK | 37.5              | 37.9        | 8.2            | 8.2  | 45.7                 | 46.1        | 74.0              | 28.3        | 27.9           |      |
| 8                 | 2757.95       | AVG | <u>25.5</u>       | 25.3        | 8.2            | 8.2  | <u>33.7</u>          | 33.5        | 54.0              | <u>20.3</u> | 20.5           |      |
| 9                 | 3818.70       | PEK | <u>38.0</u>       | 37.8        | 11.5           | 11.5 | <u>49.5</u>          | 49.3        | 74.0              | <u>24.5</u> | 24.7           |      |
| 10                | 3818.70       | AVG | <u>26.1</u>       | 25.6        | 11.5           | 11.5 | <u>37.6</u>          | 37.1        | 54.0              | <u>16.4</u> | 16.9           |      |

Higher six points are underlined.  
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preampl)  
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)  
(Factor = Ant.Fact. + Cable Loss - Amp.Gain + Att. - Dist.Conversion Fact.)

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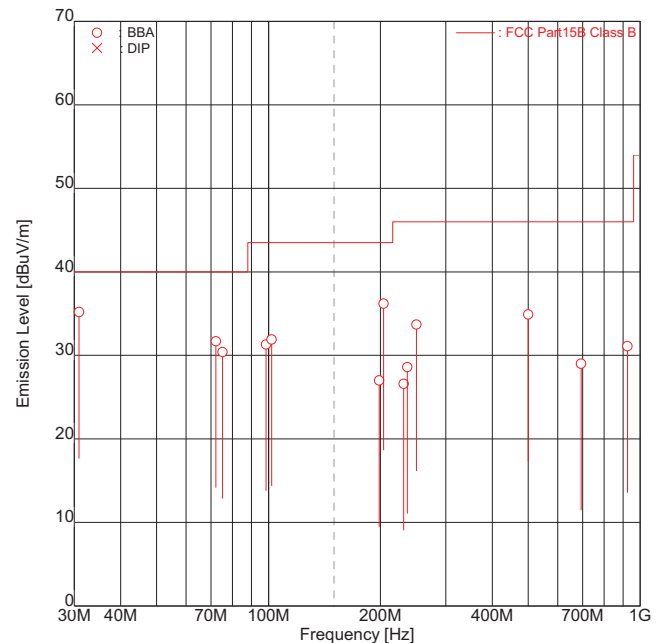
**9.1.2.3 RX mode(173.995MHz : Band A)  
30 – 1000 MHz**

# Intertek Japan K.K.

## Tochigi No.3 Test Site

### Radiated Electric Field

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(173.995MHz;Band A)  
POWER SOURCE : DC13.8V(AC120 V, 60 Hz)  
DATE TESTED : May 31 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
DISTANCE : 3.00 [m]  
TEMPERATURE : 25.7 [degC]  
HUMIDITY : 48.0 [%]  
NOTE :



ENGINEER : Koichi Wagatsuma

| FREQUENCY<br>[No] | FREQ<br>[MHz] | ANT. | READING<br>[dBuV] |             | FACTOR<br>[dB/m] |      | EMISSION<br>[dBuV/m] |             | LIMIT<br>[dBuV/m] | MARGIN<br>[dB] |             |
|-------------------|---------------|------|-------------------|-------------|------------------|------|----------------------|-------------|-------------------|----------------|-------------|
|                   |               |      | Hori              | Vert        | Hori             | Vert | Hori                 | Vert        |                   | Hori           | Vert        |
| 1                 | 30.90         | BBA  | -                 | <u>42.4</u> | -7.2             | -7.2 | -                    | <u>35.2</u> | 40.0              | -              | <u>4.8</u>  |
| 2                 | 72.22         | BBA  | <u>39.0</u>       | -           | -7.3             | -7.3 | <u>31.7</u>          | -           | 40.0              | <u>8.3</u>     | -           |
| 3                 | 75.23         | BBA  | <u>38.4</u>       | -           | -8.0             | -8.0 | <u>30.4</u>          | -           | 40.0              | <u>9.6</u>     | -           |
| 4                 | 98.47         | BBA  | -                 | 40.8        | -9.5             | -9.5 | -                    | 31.3        | 43.5              | -              | 12.2        |
| 5                 | 101.91        | BBA  | -                 | <u>41.0</u> | -9.1             | -9.1 | -                    | <u>31.9</u> | 43.5              | -              | <u>11.6</u> |
| 6                 | 198.60        | BBA  | 34.0              | -           | -7.0             | -7.0 | 27.0                 | -           | 43.5              | 16.5           | -           |
| 7                 | 204.03        | BBA  | <u>43.1</u>       | 37.0        | -6.9             | -6.9 | <u>36.2</u>          | 30.1        | 43.5              | <u>7.3</u>     | 13.4        |
| 8                 | 231.15        | BBA  | 32.2              | 30.0        | -5.6             | -5.6 | 26.6                 | 24.4        | 46.0              | 19.4           | 21.6        |
| 9                 | 236.25        | BBA  | 34.0              | -           | -5.4             | -5.4 | 28.6                 | -           | 46.0              | 17.4           | -           |
| 10                | 250.00        | BBA  | 38.6              | 31.5        | -4.9             | -4.9 | 33.7                 | 26.6        | 46.0              | 12.3           | 19.4        |
| 11                | 500.00        | BBA  | <u>31.5</u>       | -           | 3.4              | 3.4  | <u>34.9</u>          | -           | 46.0              | <u>11.1</u>    | -           |
| 12                | 693.43        | BBA  | -                 | 21.1        | 7.9              | 7.9  | -                    | 29.0        | 46.0              | -              | 17.0        |
| 13                | 924.58        | BBA  | 19.2              | 19.1        | 11.9             | 11.9 | 31.1                 | 31.0        | 46.0              | 14.9           | 15.0        |

Higher six points are underlined.  
Other frequencies : Below the FCC Part15B Class B limit  
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)  
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)  
(Factor = Ant. Fact. + Cable Loss - Amp. Gain + Att. - Dist. Conversion Fact.)

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# 1000 – 25000 MHz

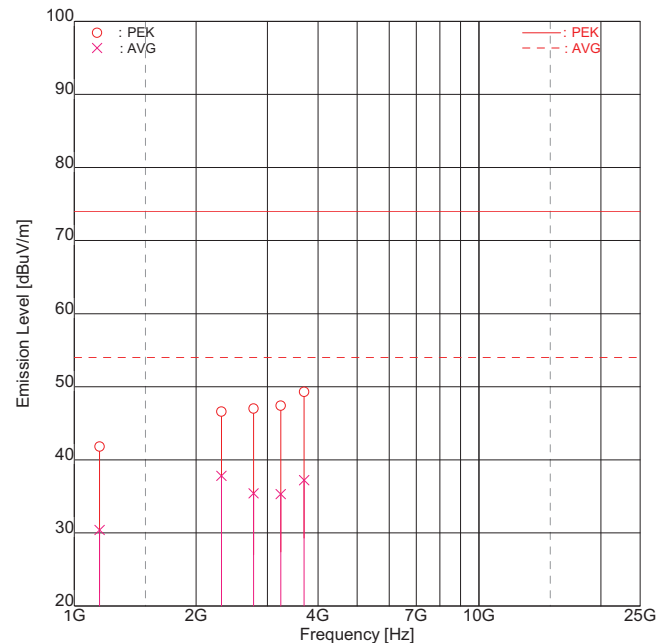
## Intertek Japan K.K.

### Tochigi No.1 Test Site

#### Radiated Electric Field

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(173.995MHz: Band A)  
POWER SOURCE : DC 13.8V (AC120 V, 60 Hz)  
DATE TESTED : Jun 07 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
DISTANCE : 3.73 [m]  
TEMPERATURE : 21.6 [degC]  
HUMIDITY : 65.0 [%]  
NOTE :

ENGINEER : Koichi Wagatuma



| FREQUENCY<br>[No] | MODE<br>[MHz] |     | READING<br>[dBuV] |             | FACTOR<br>[dB] |      | EMISSION<br>[dBuV/m] |             | LIMIT<br>[dBuV/m] |             | MARGIN<br>[dB] |      |
|-------------------|---------------|-----|-------------------|-------------|----------------|------|----------------------|-------------|-------------------|-------------|----------------|------|
|                   |               |     | Hori              | Vert        | Hori           | Vert | Hori                 | Vert        | Hori              | Vert        | Hori           | Vert |
| 1                 | 1155.70       | PEK | 38.0              | 40.3        | 1.5            | 1.5  | 39.5                 | 41.8        | 74.0              | 34.5        | 32.2           |      |
| 2                 | 1155.70       | AVG | 26.9              | <u>28.9</u> | 1.5            | 1.5  | 28.4                 | <u>30.4</u> | 54.0              | 25.6        | <u>23.6</u>    |      |
| 3                 | 2311.47       | PEK | 39.0              | 39.8        | 6.8            | 6.8  | 45.8                 | 46.6        | 74.0              | 28.2        | 27.4           |      |
| 4                 | 2311.47       | AVG | 30.5              | <u>31.0</u> | 6.8            | 6.8  | 37.3                 | <u>37.8</u> | 54.0              | 16.7        | <u>16.2</u>    |      |
| 5                 | 2774.22       | PEK | 38.8              | 38.4        | 8.2            | 8.2  | 47.0                 | 46.6        | 74.0              | 27.0        | 27.4           |      |
| 6                 | 2774.22       | AVG | <u>27.2</u>       | 27.1        | 8.2            | 8.2  | <u>35.4</u>          | 35.3        | 54.0              | <u>18.6</u> | 18.7           |      |
| 7                 | 3236.15       | PEK | 37.9              | 37.1        | 9.5            | 9.5  | 47.4                 | 46.6        | 74.0              | 26.6        | 27.4           |      |
| 8                 | 3236.15       | AVG | <u>25.8</u>       | 25.7        | 9.5            | 9.5  | <u>35.3</u>          | 35.2        | 54.0              | <u>18.7</u> | 18.8           |      |
| 9                 | 3697.34       | PEK | <u>38.2</u>       | 37.9        | 11.1           | 11.1 | <u>49.3</u>          | 49.0        | 74.0              | <u>24.7</u> | 25.0           |      |
| 10                | 3697.34       | AVG | <u>26.1</u>       | 25.9        | 11.1           | 11.1 | <u>37.2</u>          | 37.0        | 54.0              | <u>16.8</u> | 17.0           |      |

Higher six points are underlined.  
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preampl)  
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)  
(Factor = Ant.Fact. + Cable Loss - Amp.Gain + Att. - Dist.Conversion Fact.)

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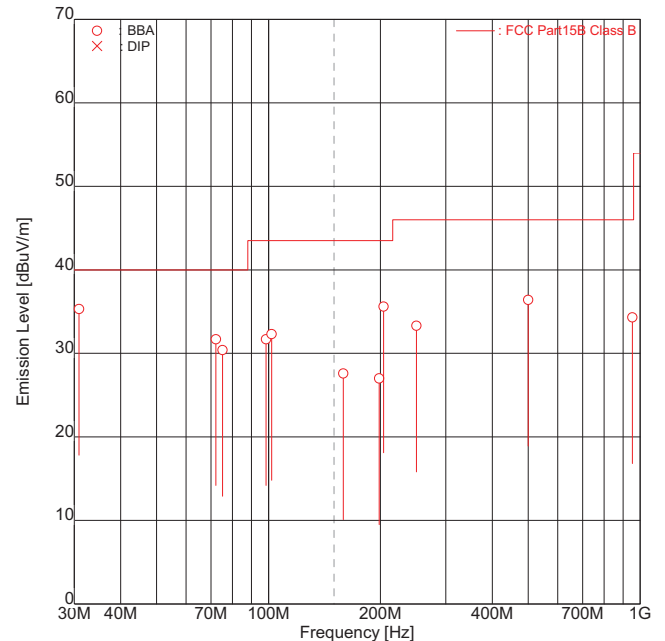
**9.1.2.4 RX mode(216.00MHz : Band A)  
30 – 1000 MHz**

# Intertek Japan K.K.

## Tochigi No.3 Test Site

### Radiated Electric Field

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(216.00MHz;Band A)  
POWER SOURCE : DC13.8V(AC120 V, 60 Hz)  
DATE TESTED : May 31 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
DISTANCE : 3.00 [m]  
TEMPERATURE : 25.7 [degC]  
HUMIDITY : 48.0 [%]  
NOTE :



ENGINEER : Koichi Wagatsuma

| FREQUENCY<br>[No] | FREQ.<br>[MHz] | ANT. | READING<br>[dBuV] |             | FACTOR<br>[dB/m] |      | EMISSION<br>[dBuV/m] |             | LIMIT<br>[dBuV/m] | MARGIN<br>[dB] |             |
|-------------------|----------------|------|-------------------|-------------|------------------|------|----------------------|-------------|-------------------|----------------|-------------|
|                   |                |      | Hori              | Vert        | Hori             | Vert | Hori                 | Vert        |                   | Hori           | Vert        |
| 1                 | 30.90          | BBA  | -                 | <u>42.5</u> | -7.2             | -7.2 | -                    | <u>35.3</u> | 40.0              | -              | <u>4.7</u>  |
| 2                 | 72.22          | BBA  | <u>39.0</u>       | -           | -7.3             | -7.3 | <u>31.7</u>          | -           | 40.0              | <u>8.3</u>     | -           |
| 3                 | 75.23          | BBA  | <u>38.4</u>       | -           | -8.0             | -8.0 | <u>30.4</u>          | -           | 40.0              | <u>9.6</u>     | -           |
| 4                 | 98.47          | BBA  | -                 | 41.2        | -9.5             | -9.5 | -                    | 31.7        | 43.5              | -              | 11.8        |
| 5                 | 101.91         | BBA  | -                 | <u>41.4</u> | -9.1             | -9.1 | -                    | <u>32.3</u> | 43.5              | -              | <u>11.2</u> |
| 6                 | 158.85         | BBA  | 30.5              | 32.1        | -4.5             | -4.5 | 26.0                 | 27.6        | 43.5              | 17.5           | 15.9        |
| 7                 | 198.60         | BBA  | 34.0              | -           | -7.0             | -7.0 | 27.0                 | -           | 43.5              | 16.5           | -           |
| 8                 | 204.03         | BBA  | <u>42.5</u>       | 37.0        | -6.9             | -6.9 | <u>35.6</u>          | 30.1        | 43.5              | <u>7.9</u>     | 13.4        |
| 9                 | 250.00         | BBA  | 38.2              | 32.2        | -4.9             | -4.9 | 33.3                 | 27.3        | 46.0              | 12.7           | 18.7        |
| 10                | 500.00         | BBA  | <u>33.0</u>       | -           | 3.4              | 3.4  | <u>36.4</u>          | -           | 46.0              | <u>9.6</u>     | -           |
| 11                | 953.10         | BBA  | -                 | 22.0        | 12.3             | 12.3 | -                    | 34.3        | 46.0              | -              | 11.7        |

Higher six points are underlined.  
Other frequencies : Below the FCC Part15B Class B limit  
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)  
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)  
(Factor = Ant. Fact. + Cable Loss - Amp. Gain + Att. - Dist. Conversion Fact.)

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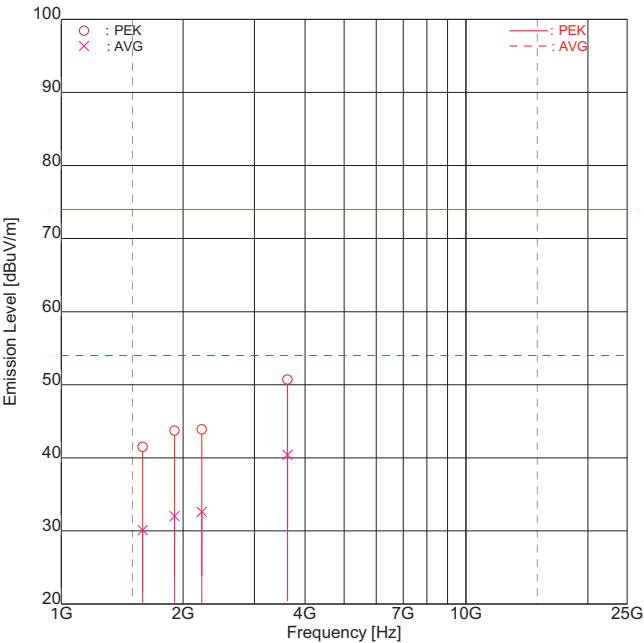
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1000 – 25000 MHz

Intertek Japan K.K.  
Tochigi No.1 Test Site  
Radiated Electric Field

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(216.00MHz: Band A)  
POWER SOURCE : DC 13.8V (AC120 V, 60 Hz)  
DATE TESTED : Jun 07 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
DISTANCE : 3.73 [m]  
TEMPERATURE : 21.6 [degC]  
HUMIDITY : 65.0 [%]  
NOTE :

ENGINEER : Koichi Wagatuma



| FREQUENCY<br>[No] | MODE<br>[MHz] |     | READING<br>[dBuV] |             | FACTOR<br>[dB] |      | EMISSION<br>[dBuV/m] |             | LIMIT<br>[dBuV/m] | MARGIN<br>[dB] |             |
|-------------------|---------------|-----|-------------------|-------------|----------------|------|----------------------|-------------|-------------------|----------------|-------------|
|                   |               |     | Hori              | Vert        | Hori           | Vert | Hori                 | Vert        |                   | Hori           | Vert        |
| 1                 | 1588.50       | PEK | 37.6              | 38.0        | 3.5            | 3.5  | 41.1                 | 41.5        | 74.0              | 32.9           | 32.5        |
| 2                 | 1588.50       | AVG | <u>26.6</u>       | 26.5        | 3.5            | 3.5  | <u>30.1</u>          | 30.0        | 54.0              | <u>23.9</u>    | 24.0        |
| 3                 | 1906.20       | PEK | 37.5              | 38.3        | 5.4            | 5.4  | 42.9                 | 43.7        | 74.0              | 31.1           | 30.3        |
| 4                 | 1906.20       | AVG | <u>26.6</u>       | 26.3        | 5.4            | 5.4  | <u>32.0</u>          | 31.7        | 54.0              | <u>22.0</u>    | 22.3        |
| 5                 | 2223.90       | PEK | 36.9              | <u>37.3</u> | 6.6            | 6.6  | 43.5                 | <u>43.9</u> | 74.0              | 30.5           | <u>30.1</u> |
| 6                 | 2223.90       | AVG | <u>26.0</u>       | 26.0        | 6.6            | 6.6  | <u>32.6</u>          | 32.6        | 54.0              | <u>21.4</u>    | 21.4        |
| 7                 | 3623.79       | PEK | 38.8              | <u>39.8</u> | 10.9           | 10.9 | 49.7                 | <u>50.7</u> | 74.0              | 24.3           | <u>23.3</u> |
| 8                 | 3623.79       | AVG | 26.7              | <u>29.5</u> | 10.9           | 10.9 | 37.6                 | <u>40.4</u> | 54.0              | 16.4           | <u>13.6</u> |

Higher six points are underlined.  
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preampl)  
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)  
(Factor = Ant.Fact. + Cable Loss - Amp.Gain + Att. - Dist.Conversion Fact.)

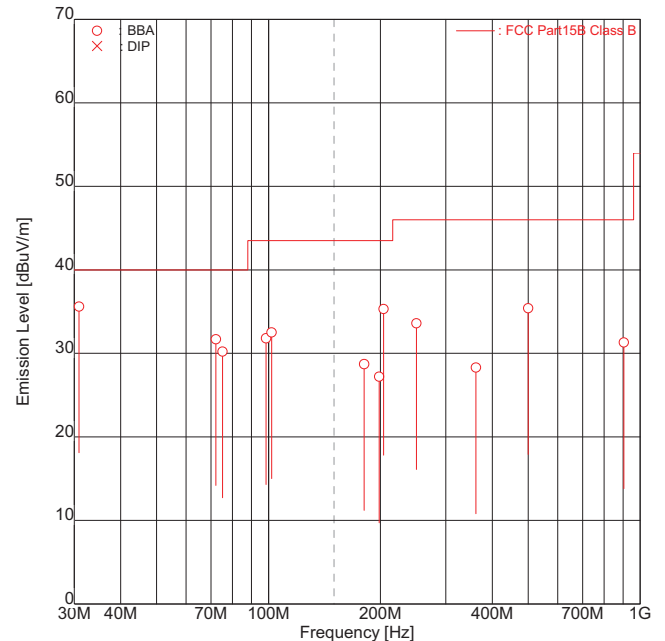
**9.1.2.5 RX mode(238.00MHz : Band A)  
30 – 1000 MHz**

# Intertek Japan K.K.

## Tochigi No.3 Test Site

### Radiated Electric Field

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(238.00MHz;Band A)  
POWER SOURCE : DC13.8V(AC120 V, 60 Hz)  
DATE TESTED : May 31 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
DISTANCE : 3.00 [m]  
TEMPERATURE : 25.7 [degC]  
HUMIDITY : 48.0 [%]  
NOTE :



ENGINEER : Koichi Wagatsuma

| FREQUENCY<br>[No] | FREQ<br>[MHz] | ANT. | READING<br>[dBuV] |             | FACTOR<br>[dB/m] |      | EMISSION<br>[dBuV/m] |             | LIMIT<br>[dBuV/m] | MARGIN<br>[dB] |             |
|-------------------|---------------|------|-------------------|-------------|------------------|------|----------------------|-------------|-------------------|----------------|-------------|
|                   |               |      | Hori              | Vert        | Hori             | Vert | Hori                 | Vert        |                   | Hori           | Vert        |
| 1                 | 30.90         | BBA  | -                 | <u>42.8</u> | -7.2             | -7.2 | -                    | <u>35.6</u> | 40.0              | -              | <u>4.4</u>  |
| 2                 | 72.22         | BBA  | <u>39.0</u>       | -           | -7.3             | -7.3 | <u>31.7</u>          | -           | 40.0              | <u>8.3</u>     | -           |
| 3                 | 75.23         | BBA  | <u>38.2</u>       | -           | -8.0             | -8.0 | <u>30.2</u>          | -           | 40.0              | <u>9.8</u>     | -           |
| 4                 | 98.47         | BBA  | -                 | 41.3        | -9.5             | -9.5 | -                    | 31.8        | 43.5              | -              | 11.7        |
| 5                 | 101.91        | BBA  | -                 | <u>41.6</u> | -9.1             | -9.1 | -                    | <u>32.5</u> | 43.5              | -              | <u>11.0</u> |
| 6                 | 180.85        | BBA  | 30.5              | 34.4        | -5.7             | -5.7 | 24.8                 | 28.7        | 43.5              | 18.7           | 14.8        |
| 7                 | 198.60        | BBA  | 34.2              | -           | -7.0             | -7.0 | 27.2                 | -           | 43.5              | 16.3           | -           |
| 8                 | 204.03        | BBA  | <u>42.2</u>       | 37.5        | -6.9             | -6.9 | <u>35.3</u>          | 30.6        | 43.5              | <u>8.2</u>     | 12.9        |
| 9                 | 250.00        | BBA  | 38.5              | 32.7        | -4.9             | -4.9 | 33.6                 | 27.8        | 46.0              | 12.4           | 18.2        |
| 10                | 361.70        | BBA  | 29.1              | 28.0        | -0.8             | -0.8 | 28.3                 | 27.2        | 46.0              | 17.7           | 18.8        |
| 11                | 500.00        | BBA  | <u>32.0</u>       | -           | 3.4              | 3.4  | <u>35.4</u>          | -           | 46.0              | <u>10.6</u>    | -           |
| 12                | 904.25        | BBA  | 19.2              | 19.5        | 11.8             | 11.8 | 31.0                 | 31.3        | 46.0              | 15.0           | 14.7        |

Higher six points are underlined.  
Other frequencies : Below the FCC Part15B Class B limit  
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)  
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)  
(Factor = Ant. Fact. + Cable Loss - Amp. Gain + Att. - Dist. Conversion Fact.)

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1000 – 25000 MHz

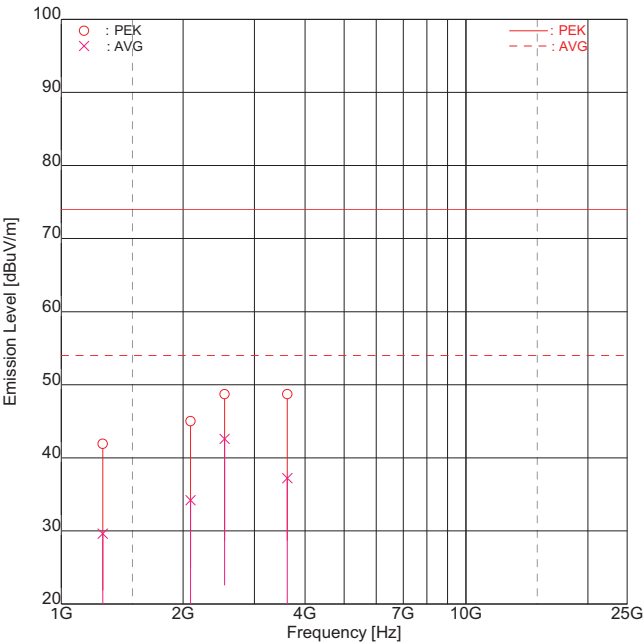
Intertek Japan K.K.

Tochigi No.1 Test Site

Radiated Electric Field

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(238.00MHz: Band A)  
POWER SOURCE : DC 13.8V (AC120 V, 60 Hz)  
DATE TESTED : Jun 07 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
DISTANCE : 3.73 [m]  
TEMPERATURE : 21.6 [degC]  
HUMIDITY : 65.0 [%]  
NOTE :

ENGINEER : Koichi Wagatuma



| FREQUENCY<br>[No] | MODE<br>[MHz] |     | READING<br>[dBuV] |             | FACTOR<br>[dB] |      | EMISSION<br>[dBuV/m] |             | LIMIT<br>[dBuV/m] |             | MARGIN<br>[dB] |      |
|-------------------|---------------|-----|-------------------|-------------|----------------|------|----------------------|-------------|-------------------|-------------|----------------|------|
|                   |               |     | Hori              | Vert        | Hori           | Vert | Hori                 | Vert        | Hori              | Vert        | Hori           | Vert |
| 1                 | 1265.95       | PEK | 39.1              | 39.9        | 2.0            | 2.0  | 41.1                 | 41.9        | 74.0              | 32.9        | 32.1           |      |
| 2                 | 1265.95       | AVG | 27.1              | <u>27.6</u> | 2.0            | 2.0  | 29.1                 | <u>29.6</u> | 54.0              | 24.9        | <u>24.4</u>    |      |
| 3                 | 2531.90       | PEK | 40.6              | <u>41.2</u> | 7.5            | 7.5  | 48.1                 | <u>48.7</u> | 74.0              | 25.9        | <u>25.3</u>    |      |
| 4                 | 2531.90       | AVG | 31.7              | <u>35.1</u> | 7.5            | 7.5  | 39.2                 | <u>42.6</u> | 54.0              | 14.8        | <u>11.4</u>    |      |
| 5                 | 2086.60       | PEK | 38.8              | 38.6        | 6.2            | 6.2  | 45.0                 | 44.8        | 74.0              | 29.0        | 29.2           |      |
| 6                 | 2086.60       | AVG | 27.8              | <u>28.0</u> | 6.2            | 6.2  | 34.0                 | <u>34.2</u> | 54.0              | 20.0        | <u>19.8</u>    |      |
| 7                 | 3617.00       | PEK | <u>37.8</u>       | 37.5        | 10.9           | 10.9 | <u>48.7</u>          | 48.4        | 74.0              | <u>25.3</u> | 25.6           |      |
| 8                 | 3617.00       | AVG | <u>26.3</u>       | 25.9        | 10.9           | 10.9 | <u>37.2</u>          | 36.8        | 54.0              | <u>16.8</u> | 17.2           |      |

Higher six points are underlined.  
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamplifier)  
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)  
(Factor = Ant.Fact. + Cable Loss - Amp.Gain + Att. - Dist.Conversion Fact.)

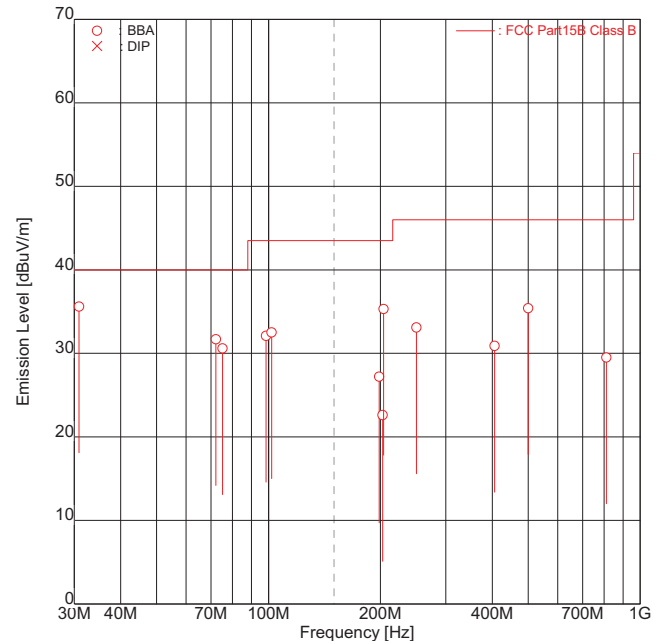
**9.1.2.6 RX mode(259.995MHz : Band A)  
30 – 1000 MHz**

## Intertek Japan K.K.

### Tochigi No.3 Test Site

#### Radiated Electric Field

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(259.995MHz;Band A)  
POWER SOURCE : DC13.8V(AC120 V, 60 Hz)  
DATE TESTED : May 31 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
DISTANCE : 3.00 [m]  
TEMPERATURE : 25.7 [degC]  
HUMIDITY : 48.0 [%]  
NOTE :



ENGINEER : Koichi Wagatsuma

| FREQUENCY<br>[No] | FREQ<br>[MHz] | ANT. | READING<br>[dBuV] |             | FACTOR<br>[dB/m] |      | EMISSION<br>[dBuV/m] |             | LIMIT<br>[dBuV/m] | MARGIN<br>[dB] |             |
|-------------------|---------------|------|-------------------|-------------|------------------|------|----------------------|-------------|-------------------|----------------|-------------|
|                   |               |      | Hori              | Vert        | Hori             | Vert | Hori                 | Vert        |                   | Hori           | Vert        |
| 1                 | 30.90         | BBA  | -                 | <u>42.8</u> | -7.2             | -7.2 | -                    | <u>35.6</u> | 40.0              | -              | <u>4.4</u>  |
| 2                 | 72.22         | BBA  | <u>39.0</u>       | -           | -7.3             | -7.3 | <u>31.7</u>          | -           | 40.0              | <u>8.3</u>     | -           |
| 3                 | 75.23         | BBA  | <u>38.6</u>       | -           | -8.0             | -8.0 | <u>30.6</u>          | -           | 40.0              | <u>9.4</u>     | -           |
| 4                 | 98.47         | BBA  | -                 | 41.6        | -9.5             | -9.5 | -                    | 32.1        | 43.5              | -              | 11.4        |
| 5                 | 101.91        | BBA  | -                 | <u>41.6</u> | -9.1             | -9.1 | -                    | <u>32.5</u> | 43.5              | -              | <u>11.0</u> |
| 6                 | 198.60        | BBA  | 34.2              | -           | -7.0             | -7.0 | 27.2                 | -           | 43.5              | 16.3           | -           |
| 7                 | 202.85        | BBA  | -                 | 29.6        | -7.0             | -7.0 | -                    | 22.6        | 43.5              | -              | 20.9        |
| 8                 | 204.03        | BBA  | <u>42.2</u>       | 38.0        | -6.9             | -6.9 | <u>35.3</u>          | 31.1        | 43.5              | <u>8.2</u>     | 12.4        |
| 9                 | 250.00        | BBA  | 38.0              | 32.3        | -4.9             | -4.9 | 33.1                 | 27.4        | 46.0              | 12.9           | 18.6        |
| 10                | 405.69        | BBA  | 30.3              | 26.9        | 0.6              | 0.6  | 30.9                 | 27.5        | 46.0              | 15.1           | 18.5        |
| 11                | 500.00        | BBA  | <u>32.0</u>       | -           | 3.4              | 3.4  | <u>35.4</u>          | -           | 46.0              | <u>10.6</u>    | -           |
| 12                | 811.38        | BBA  | 19.2              | 19.3        | 10.2             | 10.2 | 29.4                 | 29.5        | 46.0              | 16.6           | 16.5        |

Higher six points are underlined.  
Other frequencies : Below the FCC Part15B Class B limit  
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)  
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)  
(Factor = Ant. Fact. + Cable Loss - Amp. Gain + Att. - Dist. Conversion Fact.)

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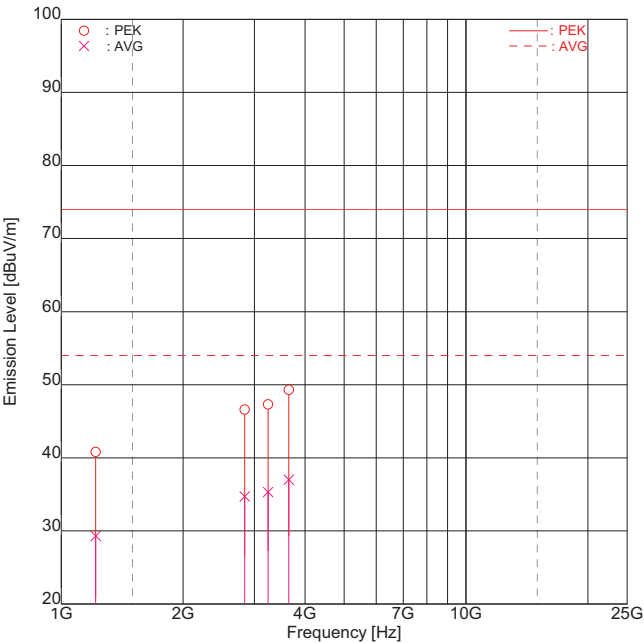
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1000 – 25000 MHz

Intertek Japan K.K.  
Tochigi No.1 Test Site  
Radiated Electric Field

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(259.995MHz: Band A)  
POWER SOURCE : DC 13.8V (AC120 V, 60 Hz)  
DATE TESTED : Jun 07 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
DISTANCE : 3.73 [m]  
TEMPERATURE : 21.6 [degC]  
HUMIDITY : 65.0 [%]  
NOTE :

ENGINEER : Koichi Wagatuma



| FREQUENCY<br>[No] | MODE<br>[MHz] |     | READING<br>[dBuV] |             | FACTOR<br>[dB] |      | EMISSION<br>[dBuV/m] |             | LIMIT<br>[dBuV/m] | MARGIN<br>[dB] |             |
|-------------------|---------------|-----|-------------------|-------------|----------------|------|----------------------|-------------|-------------------|----------------|-------------|
|                   |               |     | Hori              | Vert        | Hori           | Vert | Hori                 | Vert        |                   | Hori           | Vert        |
| 1                 | 1217.07       | PEK | 38.2              | 39.0        | 1.8            | 1.8  | 40.0                 | 40.8        | 74.0              | 34.0           | 33.2        |
| 2                 | 1217.07       | AVG | 26.7              | <u>27.5</u> | 1.8            | 1.8  | 28.5                 | <u>29.3</u> | 54.0              | 25.5           | <u>24.7</u> |
| 3                 | 2839.83       | PEK | 38.0              | 38.2        | 8.4            | 8.4  | 46.4                 | 46.6        | 74.0              | 27.6           | 27.4        |
| 4                 | 2839.83       | AVG | <u>26.3</u>       | 26.1        | 8.4            | 8.4  | <u>34.7</u>          | 34.5        | 54.0              | <u>19.3</u>    | 19.5        |
| 5                 | 3245.52       | PEK | <u>37.8</u>       | 37.4        | 9.5            | 9.5  | <u>47.3</u>          | 46.9        | 74.0              | <u>26.7</u>    | 27.1        |
| 6                 | 3245.52       | AVG | 25.7              | <u>25.8</u> | 9.5            | 9.5  | 35.2                 | <u>35.3</u> | 54.0              | 18.8           | <u>18.7</u> |
| 7                 | 3651.21       | PEK | 37.9              | <u>38.3</u> | 11.0           | 11.0 | 48.9                 | <u>49.3</u> | 74.0              | 25.1           | <u>24.7</u> |
| 8                 | 3651.21       | AVG | <u>26.0</u>       | 25.9        | 11.0           | 11.0 | <u>37.0</u>          | 36.9        | 54.0              | <u>17.0</u>    | 17.1        |

Higher six points are underlined.  
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamplifier)  
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)  
(Factor = Ant.Fact. + Cable Loss - Amp.Gain + Att. - Dist.Conversion Fact.)

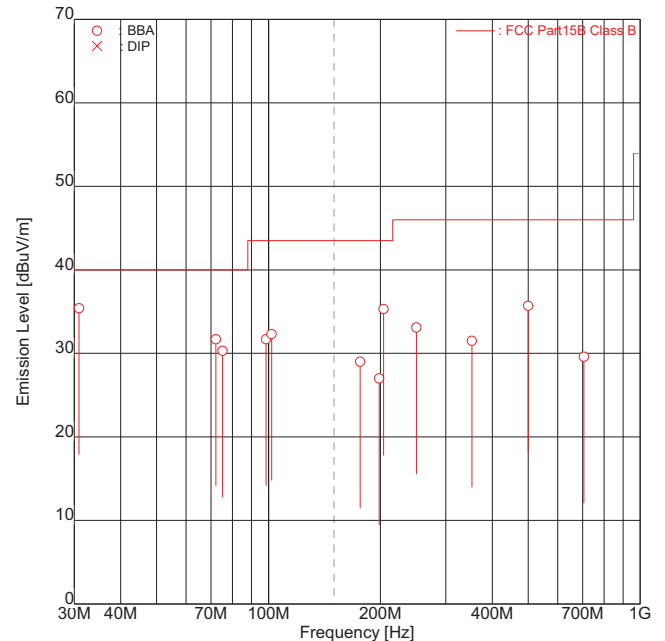
**9.1.2.7 RX mode(410.00MHz : Band A)  
30 – 1000 MHz**

# Intertek Japan K.K.

## Tochigi No.3 Test Site

### Radiated Electric Field

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(410.00MHz;Band A)  
POWER SOURCE : DC13.8V(AC120 V, 60 Hz)  
DATE TESTED : May 31 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
DISTANCE : 3.00 [m]  
TEMPERATURE : 25.7 [degC]  
HUMIDITY : 48.0 [%]  
NOTE :



ENGINEER : Koichi Wagatsuma

| FREQUENCY<br>[No] | FREQ<br>[MHz] | ANT. | READING<br>[dBuV] |             | FACTOR<br>[dB/m] |      | EMISSION<br>[dBuV/m] |             | LIMIT<br>[dBuV/m] |             | MARGIN<br>[dB] |             |
|-------------------|---------------|------|-------------------|-------------|------------------|------|----------------------|-------------|-------------------|-------------|----------------|-------------|
|                   |               |      | Hori              | Vert        | Hori             | Vert | Hori                 | Vert        | Hori              | Vert        | Hori           | Vert        |
| 1                 | 30.90         | BBA  | -                 | <u>42.6</u> | -7.2             | -7.2 | -                    | <u>35.4</u> | 40.0              | -           | -              | <u>4.6</u>  |
| 2                 | 72.22         | BBA  | <u>39.0</u>       | -           | -7.3             | -7.3 | <u>31.7</u>          | -           | 40.0              | -           | <u>8.3</u>     | -           |
| 3                 | 75.23         | BBA  | <u>38.3</u>       | -           | -8.0             | -8.0 | <u>30.3</u>          | -           | 40.0              | -           | <u>9.7</u>     | -           |
| 4                 | 98.47         | BBA  | -                 | 41.2        | -9.5             | -9.5 | -                    | 31.7        | 43.5              | -           | -              | 11.8        |
| 5                 | 101.91        | BBA  | -                 | <u>41.4</u> | -9.1             | -9.1 | -                    | <u>32.3</u> | 43.5              | -           | -              | <u>11.2</u> |
| 6                 | 176.43        | BBA  | 30.3              | 34.4        | -5.4             | -5.4 | 24.9                 | 29.0        | 43.5              | 18.6        | 14.5           | 14.5        |
| 7                 | 198.60        | BBA  | 34.0              | -           | -7.0             | -7.0 | 27.0                 | -           | 43.5              | 16.5        | -              | -           |
| 8                 | 204.03        | BBA  | <u>42.2</u>       | 37.7        | -6.9             | -6.9 | <u>35.3</u>          | 30.8        | 43.5              | <u>8.2</u>  | 12.7           | 12.7        |
| 9                 | 250.00        | BBA  | 38.0              | 32.5        | -4.9             | -4.9 | 33.1                 | 27.6        | 46.0              | 12.9        | 18.4           | 18.4        |
| 10                | 352.85        | BBA  | 32.3              | 32.6        | -1.1             | -1.1 | 31.2                 | 31.5        | 46.0              | 14.8        | 14.5           | 14.5        |
| 11                | 500.00        | BBA  | <u>32.3</u>       | -           | 3.4              | 3.4  | <u>35.7</u>          | -           | 46.0              | <u>10.3</u> | -              | -           |
| 12                | 705.70        | BBA  | 20.2              | 21.5        | 8.1              | 8.1  | 28.3                 | 29.6        | 46.0              | 17.7        | 16.4           | 16.4        |

Higher six points are underlined.  
Other frequencies : Below the FCC Part15B Class B limit  
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)  
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)  
(Factor = Ant. Fact. + Cable Loss - Amp. Gain + Att. - Dist. Conversion Fact.)

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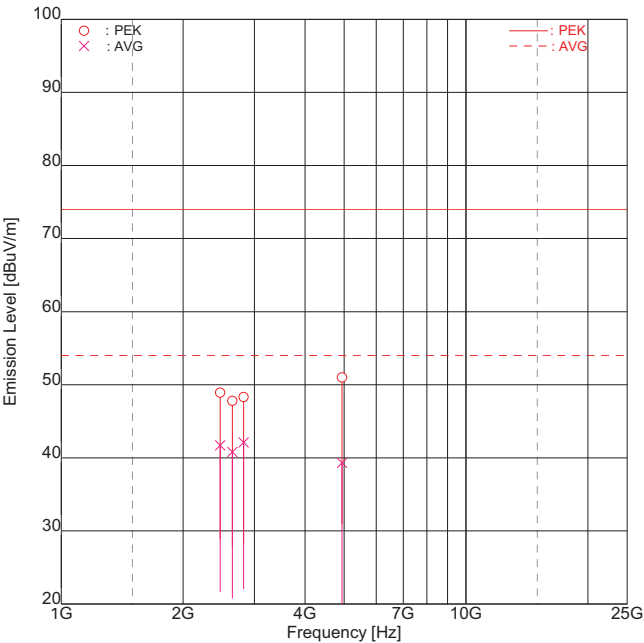
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1000 – 25000 MHz

Intertek Japan K.K.  
Tochigi No.1 Test Site  
Radiated Electric Field

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(410.00MHz: Band A)  
POWER SOURCE : DC 13.8V (AC120 V, 60 Hz)  
DATE TESTED : Jun 07 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
DISTANCE : 3.73 [m]  
TEMPERATURE : 21.6 [degC]  
HUMIDITY : 65.0 [%]  
NOTE :

ENGINEER : Koichi Wagatuma



| FREQUENCY<br>[No] | MODE<br>[MHz] |     | READING<br>[dBuV] |             | FACTOR<br>[dB] |      | EMISSION<br>[dBuV/m] |             | LIMIT<br>[dBuV/m] | MARGIN<br>[dB] |             |
|-------------------|---------------|-----|-------------------|-------------|----------------|------|----------------------|-------------|-------------------|----------------|-------------|
|                   |               |     | Hori              | Vert        | Hori           | Vert | Hori                 | Vert        |                   | Hori           | Vert        |
| 1                 | 2469.95       | PEK | 40.0              | <u>41.5</u> | 7.4            | 7.4  | 47.4                 | <u>48.9</u> | 74.0              | 26.6           | <u>25.1</u> |
| 2                 | 2469.95       | AVG | 33.3              | <u>34.3</u> | 7.4            | 7.4  | 40.7                 | <u>41.7</u> | 54.0              | 13.3           | <u>12.3</u> |
| 3                 | 2646.38       | PEK | 40.0              | 39.5        | 7.8            | 7.8  | 47.8                 | 47.3        | 74.0              | 26.2           | 26.7        |
| 4                 | 2646.38       | AVG | <u>33.0</u>       | 31.0        | 7.8            | 7.8  | <u>40.8</u>          | 38.8        | 54.0              | <u>13.2</u>    | 15.2        |
| 5                 | 2822.80       | PEK | 40.0              | 40.0        | 8.3            | 8.3  | 48.3                 | 48.3        | 74.0              | 25.7           | 25.7        |
| 6                 | 2822.80       | AVG | <u>33.8</u>       | 31.0        | 8.3            | 8.3  | <u>42.1</u>          | 39.3        | 54.0              | <u>11.9</u>    | 14.7        |
| 7                 | 4939.90       | PEK | <u>37.5</u>       | 37.3        | 13.5           | 13.5 | <u>51.0</u>          | 50.8        | 74.0              | <u>23.0</u>    | 23.2        |
| 8                 | 4939.90       | AVG | <u>25.8</u>       | 25.5        | 13.5           | 13.5 | <u>39.3</u>          | 39.0        | 54.0              | <u>14.7</u>    | 15.0        |

Higher six points are underlined.  
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamplifier)  
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)  
(Factor = Ant.Fact. + Cable Loss - Amp.Gain + Att. - Dist.Conversion Fact.)

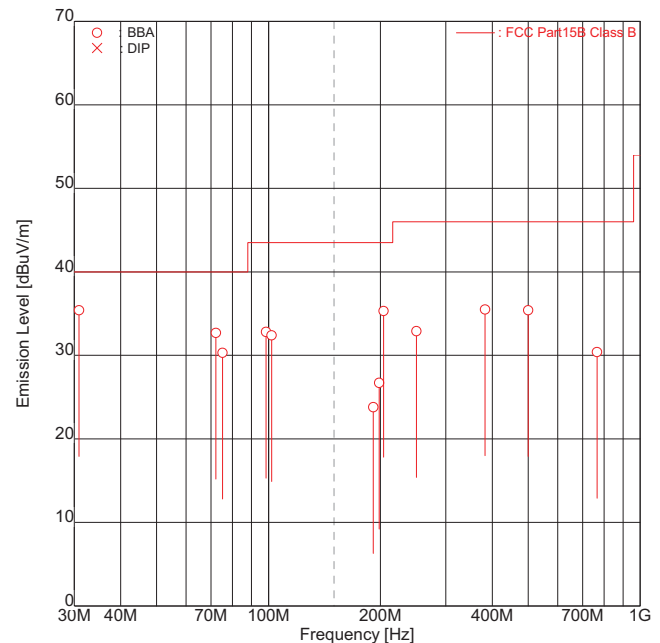
**9.1.2.8 RX mode(440.00MHz : Band A)  
30 – 1000 MHz**

# Intertek Japan K.K.

## Tochigi No.3 Test Site

### Radiated Electric Field

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(440.00MHz;Band A)  
POWER SOURCE : DC13.8V(AC120 V, 60 Hz)  
DATE TESTED : May 31 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
DISTANCE : 3.00 [m]  
TEMPERATURE : 25.7 [degC]  
HUMIDITY : 48.0 [%]  
NOTE :



ENGINEER : Koichi Wagatsuma

| FREQUENCY<br>[No] | FREQUENCY<br>[MHz] | ANT. | READING<br>[dBuV] |             | FACTOR<br>[dB/m] |      | EMISSION<br>[dBuV/m] |             | LIMIT<br>[dBuV/m] | MARGIN<br>[dB] |            |
|-------------------|--------------------|------|-------------------|-------------|------------------|------|----------------------|-------------|-------------------|----------------|------------|
|                   |                    |      | Hori              | Vert        | Hori             | Vert | Hori                 | Vert        |                   | Hori           | Vert       |
| 1                 | 30.90              | BBA  | -                 | <u>42.6</u> | -7.2             | -7.2 | -                    | <u>35.4</u> | 40.0              | -              | <u>4.6</u> |
| 2                 | 72.22              | BBA  | <u>40.0</u>       | -           | -7.3             | -7.3 | <u>32.7</u>          | -           | 40.0              | <u>7.3</u>     | -          |
| 3                 | 75.23              | BBA  | <u>38.3</u>       | -           | -8.0             | -8.0 | <u>30.3</u>          | -           | 40.0              | <u>9.7</u>     | -          |
| 4                 | 98.47              | BBA  | -                 | 42.3        | -9.5             | -9.5 | -                    | 32.8        | 43.5              | -              | 10.7       |
| 5                 | 101.91             | BBA  | -                 | 41.5        | -9.1             | -9.1 | -                    | 32.4        | 43.5              | -              | 11.1       |
| 6                 | 191.43             | BBA  | 26.6              | 30.2        | -6.4             | -6.4 | 20.2                 | 23.8        | 43.5              | 23.3           | 19.7       |
| 7                 | 198.64             | BBA  | 33.7              | -           | -7.0             | -7.0 | 26.7                 | -           | 43.5              | 16.8           | -          |
| 8                 | 204.03             | BBA  | <u>42.2</u>       | 37.7        | -6.9             | -6.9 | <u>35.3</u>          | 30.8        | 43.5              | <u>8.2</u>     | 12.7       |
| 9                 | 250.00             | BBA  | 37.8              | -           | -4.9             | -4.9 | 32.9                 | -           | 46.0              | 13.1           | -          |
| 10                | 382.86             | BBA  | <u>35.6</u>       | 33.1        | -0.1             | -0.1 | <u>35.5</u>          | 33.0        | 46.0              | <u>10.5</u>    | 13.0       |
| 11                | 500.00             | BBA  | <u>32.0</u>       | -           | 3.4              | 3.4  | <u>35.4</u>          | -           | 46.0              | <u>10.6</u>    | -          |
| 12                | 765.70             | BBA  | 21.0              | 20.7        | 9.4              | 9.4  | 30.4                 | 30.1        | 46.0              | 15.6           | 15.9       |

Higher six points are underlined.  
Other frequencies : Below the FCC Part15B Class B limit  
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)  
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)  
(Factor = Ant. Fact. + Cable Loss - Amp. Gain + Att. - Dist. Conversion Fact.)

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1000 – 25000 MHz

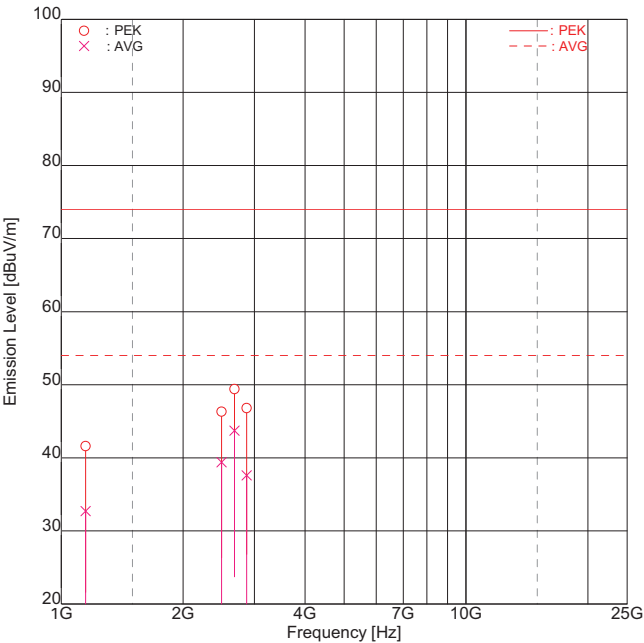
Intertek Japan K.K.

Tochigi No.1 Test Site

Radiated Electric Field

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(440.00MHz: Band A)  
POWER SOURCE : DC 13.8V (AC120 V, 60 Hz)  
DATE TESTED : Jun 07 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
DISTANCE : 3.73 [m]  
TEMPERATURE : 21.6 [degC]  
HUMIDITY : 65.0 [%]  
NOTE :

ENGINEER : Koichi Wagatuma



| FREQUENCY<br>[No] | MODE<br>[MHz] |     | READING<br>[dBuV] |             | FACTOR<br>[dB] |      | EMISSION<br>[dBuV/m] |             | LIMIT<br>[dBuV/m] |             | MARGIN<br>[dB] |      |
|-------------------|---------------|-----|-------------------|-------------|----------------|------|----------------------|-------------|-------------------|-------------|----------------|------|
|                   |               |     | Hori              | Vert        | Hori           | Vert | Hori                 | Vert        | Hori              | Vert        | Hori           | Vert |
| 1                 | 1148.55       | PEK | 38.0              | 40.2        | 1.4            | 1.4  | 39.4                 | 41.6        | 74.0              | 34.6        | 32.4           |      |
| 2                 | 1148.55       | AVG | 28.7              | <u>31.3</u> | 1.4            | 1.4  | 30.1                 | <u>32.7</u> | 54.0              | 23.9        | <u>21.3</u>    |      |
| 3                 | 2488.53       | PEK | 38.9              | 37.8        | 7.4            | 7.4  | 46.3                 | 45.2        | 74.0              | 27.7        | 28.8           |      |
| 4                 | 2488.53       | AVG | 31.6              | <u>32.0</u> | 7.4            | 7.4  | 39.0                 | <u>39.4</u> | 54.0              | 15.0        | <u>14.6</u>    |      |
| 5                 | 2679.95       | PEK | 41.3              | <u>41.5</u> | 7.9            | 7.9  | 49.2                 | <u>49.4</u> | 74.0              | 24.8        | <u>24.6</u>    |      |
| 6                 | 2679.95       | AVG | 34.1              | <u>35.8</u> | 7.9            | 7.9  | 42.0                 | <u>43.7</u> | 54.0              | 12.0        | <u>10.3</u>    |      |
| 7                 | 2871.38       | PEK | 37.9              | <u>38.3</u> | 8.5            | 8.5  | 46.4                 | <u>46.8</u> | 74.0              | 27.6        | <u>27.2</u>    |      |
| 8                 | 2871.38       | AVG | <u>29.1</u>       | 27.5        | 8.5            | 8.5  | <u>37.6</u>          | 36.0        | 54.0              | <u>16.4</u> | 18.0           |      |

Higher six points are underlined.  
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamplifier)  
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)  
(Factor = Ant.Fact. + Cable Loss - Amp.Gain + Att. - Dist.Conversion Fact.)

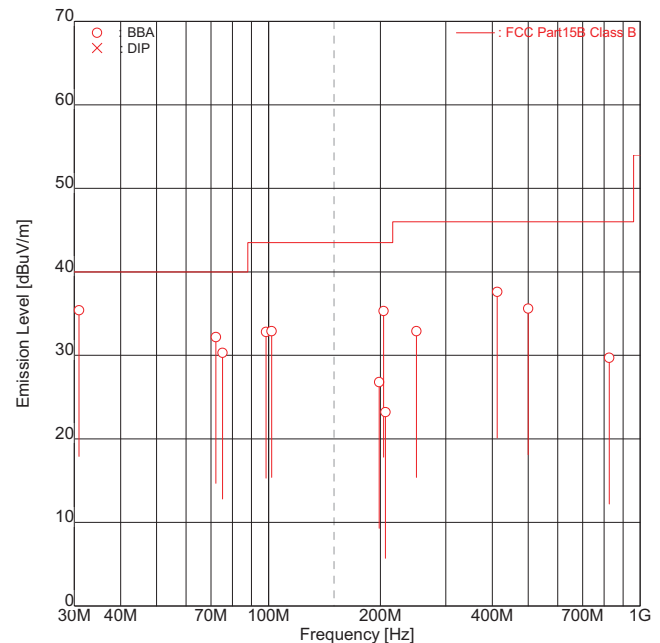
**9.1.2.9 RX mode(469.995MHz : Band A)  
30 – 1000 MHz**

# Intertek Japan K.K.

## Tochigi No.3 Test Site

### Radiated Electric Field

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(469.995MHz;Band A)  
POWER SOURCE : DC13.8V(AC120 V, 60 Hz)  
DATE TESTED : May 31 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
DISTANCE : 3.00 [m]  
TEMPERATURE : 25.7 [degC]  
HUMIDITY : 48.0 [%]  
NOTE :



ENGINEER : Koichi Wagatsuma

| FREQUENCY<br>[No] | FREQUENCY<br>[MHz] | ANT. | READING<br>[dBuV] |             | FACTOR<br>[dB/m] |      | EMISSION<br>[dBuV/m] |             | LIMIT<br>[dBuV/m] |             | MARGIN<br>[dB] |            |
|-------------------|--------------------|------|-------------------|-------------|------------------|------|----------------------|-------------|-------------------|-------------|----------------|------------|
|                   |                    |      | Hori              | Vert        | Hori             | Vert | Hori                 | Vert        | Hori              | Vert        | Hori           | Vert       |
| 1                 | 30.90              | BBA  | -                 | <u>42.6</u> | -7.2             | -7.2 | -                    | <u>35.4</u> | 40.0              | -           | -              | <u>4.6</u> |
| 2                 | 72.22              | BBA  | <u>39.5</u>       | -           | -7.3             | -7.3 | <u>32.2</u>          | -           | 40.0              | -           | <u>7.8</u>     | -          |
| 3                 | 75.23              | BBA  | <u>38.3</u>       | -           | -8.0             | -8.0 | <u>30.3</u>          | -           | 40.0              | -           | <u>9.7</u>     | -          |
| 4                 | 98.47              | BBA  | -                 | 42.3        | -9.5             | -9.5 | -                    | 32.8        | 43.5              | -           | -              | 10.7       |
| 5                 | 101.91             | BBA  | -                 | 42.0        | -9.1             | -9.1 | -                    | 32.9        | 43.5              | -           | -              | 10.6       |
| 6                 | 198.64             | BBA  | 33.8              | -           | -7.0             | -7.0 | 26.8                 | -           | 43.5              | 16.7        | -              | -          |
| 7                 | 204.03             | BBA  | <u>42.2</u>       | 37.7        | -6.9             | -6.9 | <u>35.3</u>          | 30.8        | 43.5              | <u>8.2</u>  | 12.7           | -          |
| 8                 | 206.42             | BBA  | 28.0              | 30.0        | -6.8             | -6.8 | 21.2                 | 23.2        | 43.5              | 22.3        | 20.3           | -          |
| 9                 | 250.00             | BBA  | 37.8              | -           | -4.9             | -4.9 | 32.9                 | -           | 46.0              | 13.1        | -              | -          |
| 10                | 412.85             | BBA  | <u>36.8</u>       | 36.6        | 0.8              | 0.8  | <u>37.6</u>          | 37.4        | 46.0              | <u>8.4</u>  | 8.6            | -          |
| 11                | 500.00             | BBA  | <u>32.2</u>       | -           | 3.4              | 3.4  | <u>35.6</u>          | -           | 46.0              | <u>10.4</u> | -              | -          |
| 12                | 825.69             | BBA  | 19.3              | 19.3        | 10.4             | 10.4 | 29.7                 | 29.7        | 46.0              | 16.3        | 16.3           | -          |

Higher six points are underlined.  
Other frequencies : Below the FCC Part15B Class B limit  
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)  
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)  
(Factor = Ant. Fact. + Cable Loss - Amp. Gain + Att. - Dist. Conversion Fact.)

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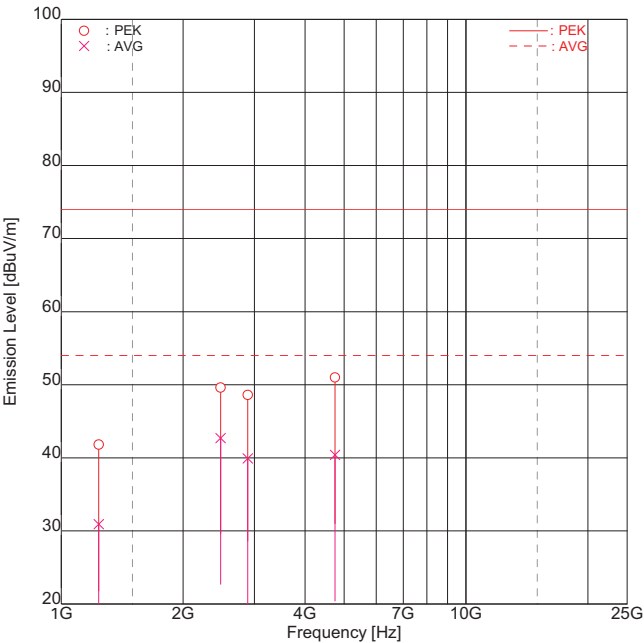
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1000 – 25000 MHz

Intertek Japan K.K.  
Tochigi No.1 Test Site  
Radiated Electric Field

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(469.995MHz: Band A)  
POWER SOURCE : DC 13.8V (AC120 V, 60 Hz)  
DATE TESTED : Jun 07 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
DISTANCE : 3.73 [m]  
TEMPERATURE : 21.6 [degC]  
HUMIDITY : 65.0 [%]  
NOTE :

ENGINEER : Koichi Wagatuma



| FREQUENCY<br>[No] | MODE<br>[MHz] |     | READING<br>[dBuV] |             | FACTOR<br>[dB] |      | EMISSION<br>[dBuV/m] |             | LIMIT<br>[dBuV/m] | MARGIN<br>[dB] |             |
|-------------------|---------------|-----|-------------------|-------------|----------------|------|----------------------|-------------|-------------------|----------------|-------------|
|                   |               |     | Hori              | Vert        | Hori           | Vert | Hori                 | Vert        |                   | Hori           | Vert        |
| 1                 | 1238.54       | PEK | 39.9              | 39.4        | 1.9            | 1.9  | 41.8                 | 41.3        | 74.0              | 32.2           | 32.7        |
| 2                 | 1238.54       | AVG | 28.0              | <u>29.0</u> | 1.9            | 1.9  | 29.9                 | <u>30.9</u> | 54.0              | 24.1           | <u>23.1</u> |
| 3                 | 2477.07       | PEK | 39.8              | <u>42.2</u> | 7.4            | 7.4  | 47.2                 | <u>49.6</u> | 74.0              | 26.8           | <u>24.4</u> |
| 4                 | 2477.07       | AVG | 30.6              | <u>35.3</u> | 7.4            | 7.4  | 38.0                 | <u>42.7</u> | 54.0              | 16.0           | <u>11.3</u> |
| 5                 | 2889.92       | PEK | 39.7              | 40.1        | 8.5            | 8.5  | 48.2                 | 48.6        | 74.0              | 25.8           | 25.4        |
| 6                 | 2889.92       | AVG | 30.4              | <u>31.4</u> | 8.5            | 8.5  | 38.9                 | <u>39.9</u> | 54.0              | 15.1           | <u>14.1</u> |
| 7                 | 4747.72       | PEK | <u>38.1</u>       | 37.1        | 12.9           | 12.9 | <u>51.0</u>          | 50.0        | 74.0              | <u>23.0</u>    | 24.0        |
| 8                 | 4747.72       | AVG | <u>27.5</u>       | 26.0        | 12.9           | 12.9 | <u>40.4</u>          | 38.9        | 54.0              | <u>13.6</u>    | 15.1        |

Higher six points are underlined.  
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamplifier)  
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)  
(Factor = Ant.Fact. + Cable Loss - Amp.Gain + Att. - Dist.Conversion Fact.)

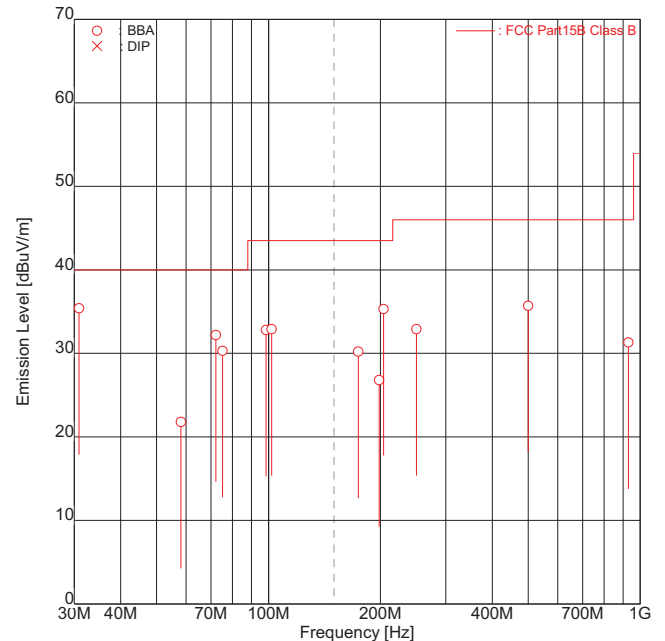
**9.1.2.10 RX mode(0.10MHz : Band B)  
30 – 1000 MHz**

# Intertek Japan K.K.

## Tochigi No.3 Test Site

### Radiated Electric Field

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(0.100MHz;Band B)  
POWER SOURCE : DC13.8V(AC120 V, 60 Hz)  
DATE TESTED : May 31 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
DISTANCE : 3.00 [m]  
TEMPERATURE : 25.7 [degC]  
HUMIDITY : 48.0 [%]  
NOTE :



ENGINEER : Koichi Wagatsuma

| FREQUENCY<br>[No] | FREQUENCY<br>[MHz] | ANT. | READING<br>[dBuV] |             | FACTOR<br>[dB/m] |      | EMISSION<br>[dBuV/m] |             | LIMIT<br>[dBuV/m] | MARGIN<br>[dB] |             |
|-------------------|--------------------|------|-------------------|-------------|------------------|------|----------------------|-------------|-------------------|----------------|-------------|
|                   |                    |      | Hori              | Vert        | Hori             | Vert | Hori                 | Vert        |                   | Hori           | Vert        |
| 1                 | 30.90              | BBA  | -                 | <u>42.6</u> | -7.2             | -7.2 | -                    | <u>35.4</u> | 40.0              | -              | <u>4.6</u>  |
| 2                 | 58.15              | BBA  | -                 | 27.2        | -5.4             | -5.4 | -                    | 21.8        | 40.0              | -              | 18.2        |
| 3                 | 72.22              | BBA  | <u>39.5</u>       | -           | -7.3             | -7.3 | <u>32.2</u>          | -           | 40.0              | 7.8            | -           |
| 4                 | 75.23              | BBA  | <u>38.3</u>       | -           | -8.0             | -8.0 | <u>30.3</u>          | -           | 40.0              | 9.7            | -           |
| 5                 | 98.47              | BBA  | -                 | 42.3        | -9.5             | -9.5 | -                    | 32.8        | 43.5              | -              | 10.7        |
| 6                 | 101.91             | BBA  | -                 | <u>42.0</u> | -9.1             | -9.1 | -                    | <u>32.9</u> | 43.5              | -              | <u>10.6</u> |
| 7                 | 174.45             | BBA  | 31.1              | <u>35.5</u> | -5.3             | -5.3 | 25.8                 | <u>30.2</u> | 43.5              | 17.7           | 13.3        |
| 8                 | 198.64             | BBA  | 33.8              | -           | -7.0             | -7.0 | 26.8                 | -           | 43.5              | 16.7           | -           |
| 9                 | 204.03             | BBA  | <u>42.2</u>       | 37.7        | -6.9             | -6.9 | <u>35.3</u>          | 30.8        | 43.5              | <u>8.2</u>     | 12.7        |
| 10                | 250.00             | BBA  | <u>37.8</u>       | -           | -4.9             | -4.9 | <u>32.9</u>          | -           | 46.0              | 13.1           | -           |
| 11                | 500.00             | BBA  | <u>32.3</u>       | -           | 3.4              | 3.4  | <u>35.7</u>          | -           | 46.0              | <u>10.3</u>    | -           |
| 12                | 930.40             | BBA  | -                 | 19.3        | 12.0             | 12.0 | -                    | 31.3        | 46.0              | -              | 14.7        |

Higher six points are underlined.  
Other frequencies : Below the FCC Part15B Class B limit  
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)  
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)  
(Factor = Ant. Fact. + Cable Loss - Amp. Gain + Att. - Dist. Conversion Fact.)

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# 1000 – 25000 MHz

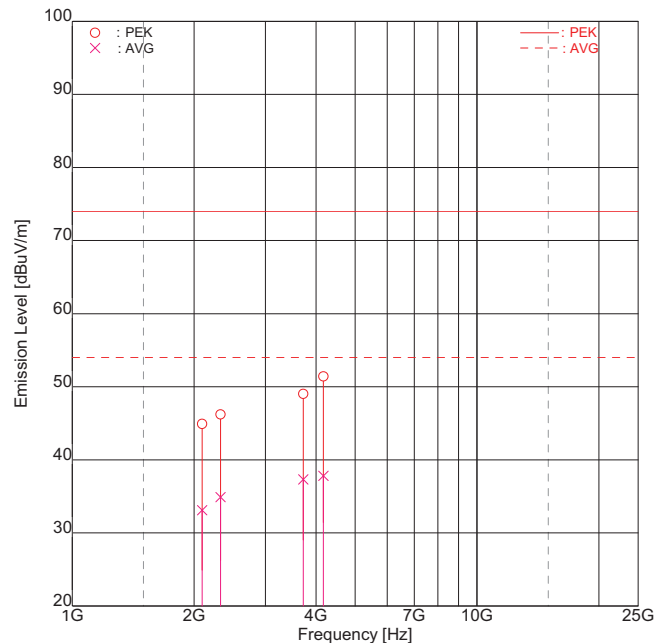
## Intertek Japan K.K.

### Tochigi No.1 Test Site

#### Radiated Electric Field

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(0.10MHz: Band B)  
POWER SOURCE : DC 13.8V (AC120 V, 60 Hz)  
DATE TESTED : Jun 07 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
DISTANCE : 3.73 [m]  
TEMPERATURE : 21.6 [degC]  
HUMIDITY : 65.0 [%]  
NOTE :

ENGINEER : Koichi Wagatuma



| FREQUENCY<br>[No] | MODE<br>[MHz] |     | READING<br>[dBuV] |             | FACTOR<br>[dB] |      | EMISSION<br>[dBuV/m] |             | LIMIT<br>[dBuV/m] | MARGIN<br>[dB] |             |
|-------------------|---------------|-----|-------------------|-------------|----------------|------|----------------------|-------------|-------------------|----------------|-------------|
|                   |               |     | Hori              | Vert        | Hori           | Vert | Hori                 | Vert        |                   | Hori           | Vert        |
| 1                 | 2093.40       | PEK | 38.7              | 38.4        | 6.2            | 6.2  | 44.9                 | 44.6        | 74.0              | 29.1           | 29.4        |
| 2                 | 2093.40       | AVG | <u>26.9</u>       | 26.3        | 6.2            | 6.2  | <u>33.1</u>          | 32.5        | 54.0              | <u>20.9</u>    | 21.5        |
| 3                 | 2326.00       | PEK | 39.0              | 39.4        | 6.8            | 6.8  | 45.8                 | 46.2        | 74.0              | 28.2           | 27.8        |
| 4                 | 2326.00       | AVG | <u>28.1</u>       | 27.7        | 6.8            | 6.8  | <u>34.9</u>          | 34.5        | 54.0              | <u>19.1</u>    | 19.5        |
| 5                 | 3721.60       | PEK | <u>37.8</u>       | 36.8        | 11.2           | 11.2 | <u>49.0</u>          | 48.0        | 74.0              | <u>25.0</u>    | 26.0        |
| 6                 | 3721.60       | AVG | <u>26.1</u>       | 26.0        | 11.2           | 11.2 | <u>37.3</u>          | 37.2        | 54.0              | <u>16.7</u>    | 16.8        |
| 7                 | 4172.97       | PEK | 39.0              | <u>39.4</u> | 12.0           | 12.0 | 51.0                 | <u>51.4</u> | 74.0              | 23.0           | <u>22.6</u> |
| 8                 | 4172.97       | AVG | 25.7              | <u>25.8</u> | 12.0           | 12.0 | 37.7                 | <u>37.8</u> | 54.0              | 16.3           | <u>16.2</u> |

Higher six points are underlined.  
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamplifier)  
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)  
(Factor = Ant.Fact. + Cable Loss - Amp.Gain + Att. - Dist.Conversion Fact.)

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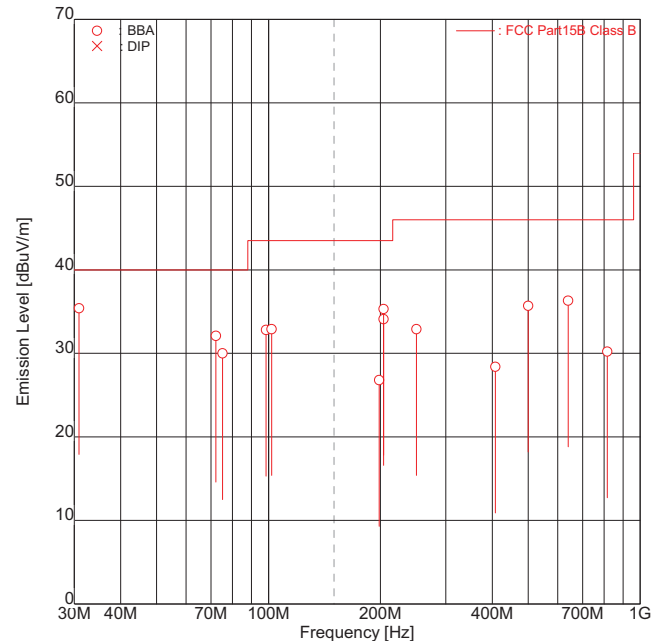
**9.1.2.11 RX mode(262.00MHz : Band B)  
30 – 1000 MHz**

# **Intertek Japan K.K.**

## **Tochigi No.3 Test Site**

### **Radiated Electric Field**

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(262.00MHz;Band B)  
POWER SOURCE : DC13.8V(AC120 V, 60 Hz)  
DATE TESTED : May 31 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
DISTANCE : 3.00 [m]  
TEMPERATURE : 25.7 [degC]  
HUMIDITY : 48.0 [%]  
NOTE :



ENGINEER : Koichi Wagatsuma

| FREQUENCY<br>[No] | FREQ<br>[MHz] | ANT. | READING<br>[dBuV] |             | FACTOR<br>[dB/m] |      | EMISSION<br>[dBuV/m] |             | LIMIT<br>[dBuV/m] | MARGIN<br>[dB] |            |
|-------------------|---------------|------|-------------------|-------------|------------------|------|----------------------|-------------|-------------------|----------------|------------|
|                   |               |      | Hori              | Vert        | Hori             | Vert | Hori                 | Vert        |                   | Hori           | Vert       |
| 1                 | 30.90         | BBA  | -                 | <u>42.6</u> | -7.2             | -7.2 | -                    | <u>35.4</u> | 40.0              | -              | <u>4.6</u> |
| 2                 | 72.22         | BBA  | <u>39.4</u>       | -           | -7.3             | -7.3 | <u>32.1</u>          | -           | 40.0              | <u>7.9</u>     | -          |
| 3                 | 75.23         | BBA  | <u>38.0</u>       | -           | -8.0             | -8.0 | <u>30.0</u>          | -           | 40.0              | <u>10.0</u>    | -          |
| 4                 | 98.47         | BBA  | -                 | 42.3        | -9.5             | -9.5 | -                    | 32.8        | 43.5              | -              | 10.7       |
| 5                 | 101.91        | BBA  | -                 | 42.0        | -9.1             | -9.1 | -                    | 32.9        | 43.5              | -              | 10.6       |
| 6                 | 198.64        | BBA  | 33.8              | -           | -7.0             | -7.0 | 26.8                 | -           | 43.5              | 16.7           | -          |
| 7                 | 203.95        | BBA  | <u>41.0</u>       | 36.5        | -6.9             | -6.9 | <u>34.1</u>          | 29.6        | 43.5              | <u>9.4</u>     | 13.9       |
| 8                 | 204.03        | BBA  | <u>42.2</u>       | 37.7        | -6.9             | -6.9 | <u>35.3</u>          | 30.8        | 43.5              | <u>8.2</u>     | 12.7       |
| 9                 | 250.00        | BBA  | 37.8              | -           | -4.9             | -4.9 | 32.9                 | -           | 46.0              | 13.1           | -          |
| 10                | 407.90        | BBA  | 27.8              | 25.7        | 0.6              | 0.6  | 28.4                 | 26.3        | 46.0              | 17.6           | 19.7       |
| 11                | 500.00        | BBA  | 32.3              | -           | 3.4              | 3.4  | 35.7                 | -           | 46.0              | 10.3           | -          |
| 12                | 640.10        | BBA  | <u>29.5</u>       | 29.2        | 6.8              | 6.8  | <u>36.3</u>          | 36.0        | 46.0              | <u>9.7</u>     | 10.0       |
| 13                | 815.80        | BBA  | 20.0              | 19.3        | 10.2             | 10.2 | 30.2                 | 29.5        | 46.0              | 15.8           | 16.5       |

Higher six points are underlined.  
Other frequencies : Below the FCC Part15B Class B limit  
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)  
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)  
(Factor = Ant. Fact. + Cable Loss - Amp. Gain + Att. - Dist. Conversion Fact.)

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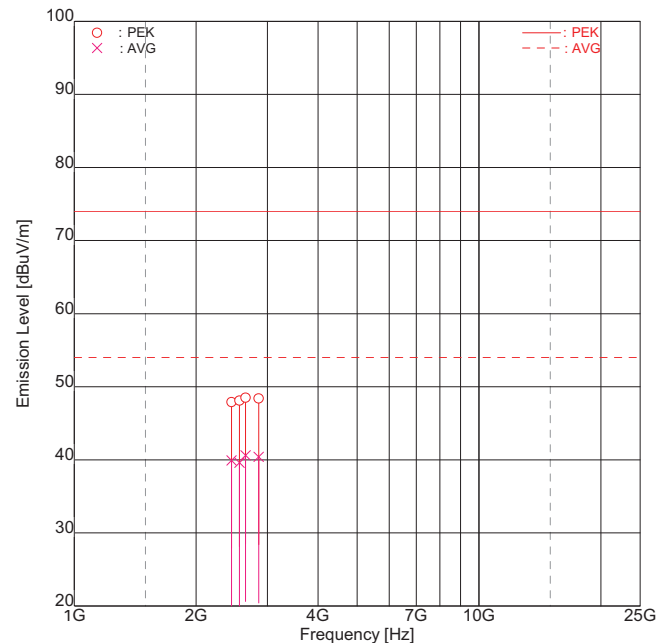
# 1000 – 25000 MHz

## Intertek Japan K.K.

### Tochigi No.1 Test Site

#### Radiated Electric Field

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(262.00MHz: Band B)  
POWER SOURCE : DC 13.8V (AC120 V, 60 Hz)  
DATE TESTED : Jun 07 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
DISTANCE : 3.73 [m]  
TEMPERATURE : 21.6 [degC]  
HUMIDITY : 65.0 [%]  
NOTE :



ENGINEER : Koichi Wagatuma

| FREQUENCY<br>[No] | MODE<br>[MHz] |     | READING<br>[dBuV] |             | FACTOR<br>[dB] |      | EMISSION<br>[dBuV/m] |             | LIMIT<br>[dBuV/m] | MARGIN<br>[dB] |             |
|-------------------|---------------|-----|-------------------|-------------|----------------|------|----------------------|-------------|-------------------|----------------|-------------|
|                   |               |     | Hori              | Vert        | Hori           | Vert | Hori                 | Vert        |                   | Hori           | Vert        |
| 1                 | 2447.40       | PEK | 40.3              | 40.6        | 7.3            | 7.3  | 47.6                 | 47.9        | 74.0              | 26.4           | 26.1        |
| 2                 | 2447.40       | AVG | 30.2              | <u>32.6</u> | 7.3            | 7.3  | 37.5                 | <u>39.9</u> | 54.0              | 16.5           | <u>14.1</u> |
| 3                 | 2560.45       | PEK | 40.0              | 40.6        | 7.5            | 7.5  | 47.5                 | 48.1        | 74.0              | 26.5           | 25.9        |
| 4                 | 2560.45       | AVG | 31.2              | <u>32.1</u> | 7.5            | 7.5  | 38.7                 | <u>39.6</u> | 54.0              | 15.3           | <u>14.4</u> |
| 5                 | 2651.35       | PEK | <u>40.6</u>       | 40.3        | 7.9            | 7.9  | <u>48.5</u>          | 48.2        | 74.0              | <u>25.5</u>    | 25.8        |
| 6                 | 2651.35       | AVG | <u>32.7</u>       | 31.1        | 7.9            | 7.9  | <u>40.6</u>          | 39.0        | 54.0              | <u>13.4</u>    | 15.0        |
| 7                 | 2855.30       | PEK | <u>40.0</u>       | 39.4        | 8.4            | 8.4  | <u>48.4</u>          | 47.8        | 74.0              | <u>25.6</u>    | 26.2        |
| 8                 | 2855.30       | AVG | <u>32.0</u>       | 29.9        | 8.4            | 8.4  | <u>40.4</u>          | 38.3        | 54.0              | <u>13.6</u>    | 15.7        |

Higher six points are underlined.  
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamplifier)  
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)  
(Factor = Ant.Fact. + Cable Loss - Amp.Gain + Att. - Dist.Conversion Fact.)

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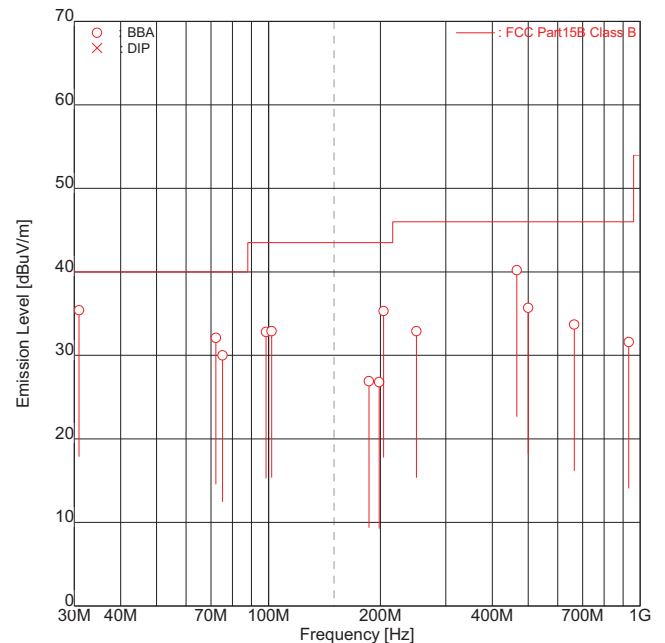
**9.1.2.12 RX mode(523.995MHz : Band B)  
30 – 1000 MHz**

# Intertek Japan K.K.

## Tochigi No.3 Test Site

### Radiated Electric Field

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(523.995MHz;Band B)  
POWER SOURCE : DC13.8V(AC120 V, 60 Hz)  
DATE TESTED : May 31 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
DISTANCE : 3.00 [m]  
TEMPERATURE : 25.7 [degC]  
HUMIDITY : 48.0 [%]  
NOTE :



ENGINEER : Koichi Wagatsuma

| FREQUENCY<br>[No] | FREQUENCY<br>[MHz] | ANT. | READING<br>[dBuV] |             | FACTOR<br>[dB/m] |      | EMISSION<br>[dBuV/m] |             | LIMIT<br>[dBuV/m] | MARGIN<br>[dB] |            |
|-------------------|--------------------|------|-------------------|-------------|------------------|------|----------------------|-------------|-------------------|----------------|------------|
|                   |                    |      | Hori              | Vert        | Hori             | Vert | Hori                 | Vert        |                   | Hori           | Vert       |
| 1                 | 30.90              | BBA  | -                 | <u>42.6</u> | -7.2             | -7.2 | -                    | <u>35.4</u> | 40.0              | -              | <u>4.6</u> |
| 2                 | 72.22              | BBA  | <u>39.4</u>       | -           | -7.3             | -7.3 | <u>32.1</u>          | -           | 40.0              | <u>7.9</u>     | -          |
| 3                 | 75.23              | BBA  | <u>38.0</u>       | -           | -8.0             | -8.0 | <u>30.0</u>          | -           | 40.0              | <u>10.0</u>    | -          |
| 4                 | 98.47              | BBA  | -                 | 42.3        | -9.5             | -9.5 | -                    | 32.8        | 43.5              | -              | 10.7       |
| 5                 | 101.91             | BBA  | -                 | 42.0        | -9.1             | -9.1 | -                    | 32.9        | 43.5              | -              | 10.6       |
| 6                 | 186.38             | BBA  | 29.0              | 33.0        | -6.1             | -6.1 | 22.9                 | 26.9        | 43.5              | 20.6           | 16.6       |
| 7                 | 198.64             | BBA  | 33.8              | -           | -7.0             | -7.0 | 26.8                 | -           | 43.5              | 16.7           | -          |
| 8                 | 204.03             | BBA  | <u>42.2</u>       | 37.7        | -6.9             | -6.9 | <u>35.3</u>          | 30.8        | 43.5              | <u>8.2</u>     | 12.7       |
| 9                 | 250.00             | BBA  | 37.8              | -           | -4.9             | -4.9 | 32.9                 | -           | 46.0              | 13.1           | -          |
| 10                | 465.94             | BBA  | <u>37.8</u>       | 36.0        | 2.4              | 2.4  | <u>40.2</u>          | 38.4        | 46.0              | <u>5.8</u>     | 7.6        |
| 11                | 500.00             | BBA  | <u>32.3</u>       | -           | 3.4              | 3.4  | <u>35.7</u>          | -           | 46.0              | <u>10.3</u>    | -          |
| 12                | 665.08             | BBA  | -                 | 26.3        | 7.4              | 7.4  | -                    | 33.7        | 46.0              | -              | 12.3       |
| 13                | 931.89             | BBA  | -                 | 19.6        | 12.0             | 12.0 | -                    | 31.6        | 46.0              | -              | 14.4       |

Higher six points are underlined.  
Other frequencies : Below the FCC Part15B Class B limit  
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)  
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)  
(Factor = Ant. Fact. + Cable Loss - Amp. Gain + Att. - Dist. Conversion Fact.)

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# 1000 – 25000 MHz

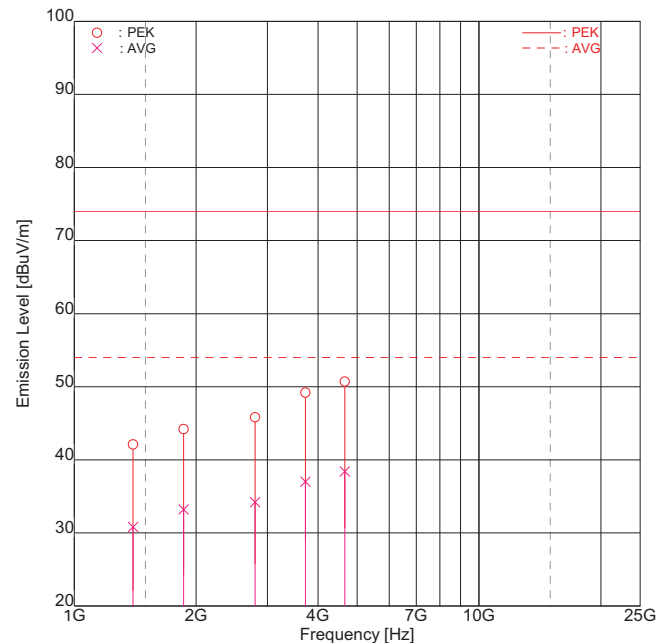
## Intertek Japan K.K.

### Tochigi No.1 Test Site

#### Radiated Electric Field

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : RX mode(523.995MHz: Band B)  
POWER SOURCE : DC 13.8V (AC120 V, 60 Hz)  
DATE TESTED : Jun 07 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
DISTANCE : 3.73 [m]  
TEMPERATURE : 21.6 [degC]  
HUMIDITY : 65.0 [%]  
NOTE :

ENGINEER : Koichi Wagatuma



| FREQUENCY<br>[No] | MODE<br>[MHz] |     | READING<br>[dBuV] |             | FACTOR<br>[dB] |      | EMISSION<br>[dBuV/m] |             | LIMIT<br>[dBuV/m] | MARGIN<br>[dB] |             |
|-------------------|---------------|-----|-------------------|-------------|----------------|------|----------------------|-------------|-------------------|----------------|-------------|
|                   |               |     | Hori              | Vert        | Hori           | Vert | Hori                 | Vert        |                   | Hori           | Vert        |
| 1                 | 1397.84       | PEK | 38.0              | 39.5        | 2.6            | 2.6  | 40.6                 | 42.1        | 74.0              | 33.4           | 31.9        |
| 2                 | 1397.84       | AVG | 26.5              | <u>28.2</u> | 2.6            | 2.6  | 29.1                 | <u>30.8</u> | 54.0              | 24.9           | <u>23.2</u> |
| 3                 | 1863.78       | PEK | 39.0              | -           | 5.2            | 5.2  | 44.2                 | -           | 74.0              | 29.8           | -           |
| 4                 | 1863.78       | AVG | <u>28.0</u>       | -           | 5.2            | 5.2  | <u>33.2</u>          | -           | 54.0              | <u>20.8</u>    | -           |
| 5                 | 2798.67       | PEK | 37.3              | 37.5        | 8.3            | 8.3  | 45.6                 | 45.8        | 74.0              | 28.4           | 28.2        |
| 6                 | 2798.67       | AVG | 25.7              | <u>25.9</u> | 8.3            | 8.3  | 34.0                 | <u>34.2</u> | 54.0              | 20.0           | <u>19.8</u> |
| 7                 | 3727.56       | PEK | 37.5              | 38.0        | 11.2           | 11.2 | 48.7                 | 49.2        | 74.0              | 25.3           | 24.8        |
| 8                 | 3727.56       | AVG | <u>25.8</u>       | 25.7        | 11.2           | 11.2 | <u>37.0</u>          | 36.9        | 54.0              | <u>17.0</u>    | 17.1        |
| 9                 | 4659.45       | PEK | 37.5              | <u>38.1</u> | 12.6           | 12.6 | 50.1                 | <u>50.7</u> | 74.0              | 23.9           | <u>23.3</u> |
| 10                | 4659.45       | AVG | 25.7              | <u>25.8</u> | 12.6           | 12.6 | 38.3                 | <u>38.4</u> | 54.0              | 15.7           | <u>15.6</u> |

Higher six points are underlined.  
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamplifier)  
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)  
(Factor = Ant.Fact. + Cable Loss - Amp.Gain + Att. - Dist.Conversion Fact.)

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**9.1.2.13 VFO Scan mode(136-173.995MHz : Band A)  
30 – 1000 MHz**

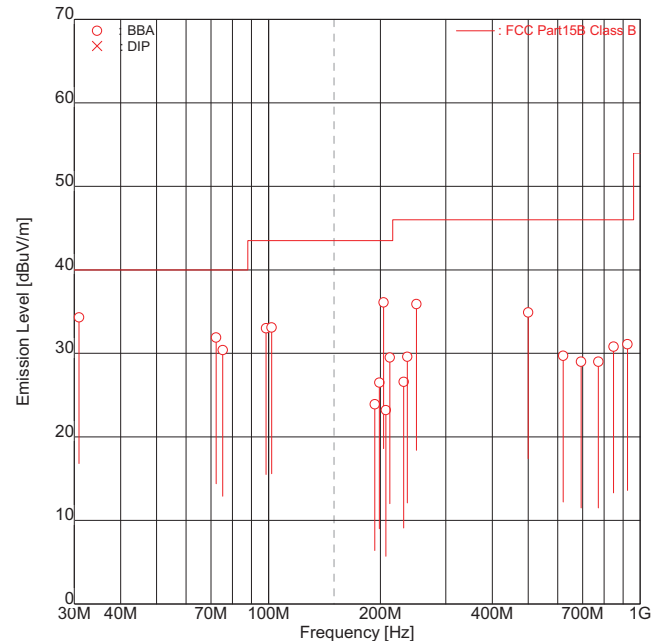
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## Tochigi No.3 Test Site

### Radiated Electric Field

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : VFO SCAN  
(136-173.995MHz;Band A)  
POWER SOURCE : DC13.8V(AC120 V, 60 Hz)  
DATE TESTED : Jun 01 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
DISTANCE : 3.00 [m]  
TEMPERATURE : 27.1 [degC]  
HUMIDITY : 20.0 [%]  
NOTE :

ENGINEER : Koichi Wagatsuma



| [No] | FREQUENCY [MHz] | ANT. | READING [dBuV] |             | FACTOR [dB/m] |      | EMISSION [dBuV/m] |             | LIMIT [dBuV/m] | MARGIN [dB] |             |
|------|-----------------|------|----------------|-------------|---------------|------|-------------------|-------------|----------------|-------------|-------------|
|      |                 |      | Hori           | Vert        | Hori          | Vert | Hori              | Vert        |                | Hori        | Vert        |
| 1    | 30.90           | BBA  | -              | <u>41.5</u> | -7.2          | -7.2 | -                 | <u>34.3</u> | 40.0           | -           | <u>5.7</u>  |
| 2    | 72.28           | BBA  | <u>39.3</u>    | -           | -7.4          | -7.4 | <u>31.9</u>       | -           | 40.0           | <u>8.1</u>  | -           |
| 3    | 75.30           | BBA  | <u>38.4</u>    | -           | -8.0          | -8.0 | <u>30.4</u>       | -           | 40.0           | <u>9.6</u>  | -           |
| 4    | 98.47           | BBA  | -              | 42.5        | -9.5          | -9.5 | -                 | 33.0        | 43.5           | -           | 10.5        |
| 5    | 101.91          | BBA  | -              | <u>42.2</u> | -9.1          | -9.1 | -                 | <u>33.1</u> | 43.5           | -           | <u>10.4</u> |
| 6    | 193.15          | BBA  | -              | 30.5        | -6.6          | -6.6 | -                 | 23.9        | 43.5           | -           | 19.6        |
| 7    | 198.78          | BBA  | 33.6           | -           | -7.1          | -7.1 | 26.5              | -           | 43.5           | 17.0        | -           |
| 8    | 204.03          | BBA  | <u>43.0</u>    | 40.0        | -6.9          | -6.9 | <u>36.1</u>       | 33.1        | 43.5           | <u>7.4</u>  | 10.4        |
| 9    | 206.98          | BBA  | 27.3           | 30.0        | -6.8          | -6.8 | 20.5              | 23.2        | 43.5           | 23.0        | 20.3        |
| 10   | 212.15          | BBA  | -              | 36.0        | -6.5          | -6.5 | -                 | 29.5        | 43.5           | -           | 14.0        |
| 11   | 231.15          | BBA  | 32.2           | 30.0        | -5.6          | -5.6 | 26.6              | 24.4        | 46.0           | 19.4        | 21.6        |
| 12   | 236.25          | BBA  | 35.0           | -           | -5.4          | -5.4 | 29.6              | -           | 46.0           | 16.4        | -           |
| 13   | 250.00          | BBA  | 40.0           | <u>40.8</u> | -4.9          | -4.9 | 35.1              | <u>35.9</u> | 46.0           | 10.9        | <u>10.1</u> |
| 14   | 500.00          | BBA  | 31.5           | -           | 3.4           | 3.4  | 34.9              | -           | 46.0           | 11.1        | -           |
| 15   | 621.00          | BBA  | 23.2           | 22.1        | 6.5           | 6.5  | 29.7              | 28.6        | 46.0           | 16.3        | 17.4        |
| 16   | 693.43          | BBA  | -              | 21.1        | 7.9           | 7.9  | -                 | 29.0        | 46.0           | -           | 17.0        |
| 17   | 772.60          | BBA  | -              | 19.5        | 9.5           | 9.5  | -                 | 29.0        | 46.0           | -           | 17.0        |
| 18   | 848.60          | BBA  | -              | 20.0        | 10.8          | 10.8 | -                 | 30.8        | 46.0           | -           | 15.2        |
| 19   | 924.58          | BBA  | 19.2           | 19.1        | 11.9          | 11.9 | 31.1              | 31.0        | 46.0           | 14.9        | 15.0        |

Higher six points are underlined.  
Other frequencies : Below the FCC Part15B Class B limit  
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamplifier)  
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)  
(Factor = Ant. Fact. + Cable Loss - Amp. Gain + Att. - Dist. Conversion Fact.)

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# 1000 – 25000 MHz

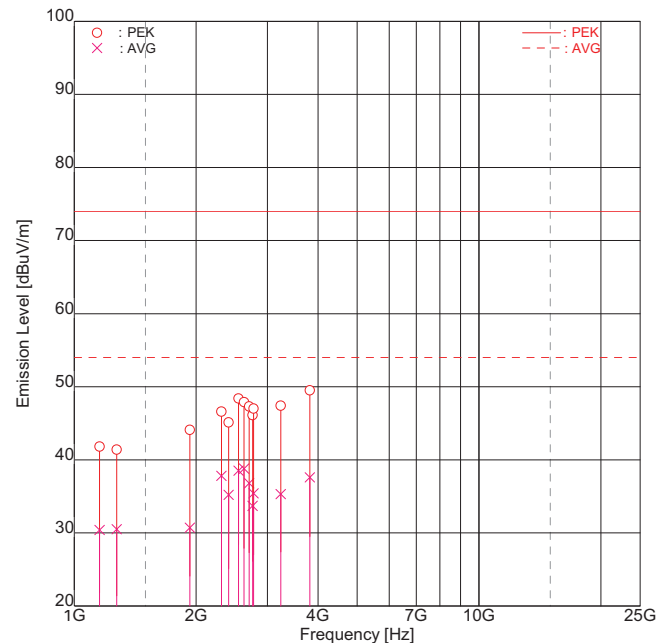
## Intertek Japan K.K.

### Tochigi No.1 Test Site

#### Radiated Electric Field

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : VFO SCAN  
(136.00-173.995MHz: Band A)  
POWER SOURCE : DC 13.8V (AC120 V, 60 Hz)  
DATE TESTED : Jun 08 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
DISTANCE : 3.73 [m]  
TEMPERATURE : 24.6 [degC]  
HUMIDITY : 60.0 [%]  
NOTE :

ENGINEER : Koichi Wagatuma



| [No] | FREQUENCY [MHz] | MODE | READING [dBuV] |             | FACTOR [dB] |      | EMISSION [dBuV/m] |             | LIMIT [dBuV/m] | MARGIN [dB] |             |
|------|-----------------|------|----------------|-------------|-------------|------|-------------------|-------------|----------------|-------------|-------------|
|      |                 |      | Hori           | Vert        | Hori        | Vert | Hori              | Vert        |                | Hori        | Vert        |
| 1    | 1155.70         | PEK  | 38.0           | 40.3        | 1.5         | 1.5  | 39.5              | 41.8        | 74.0           | 34.5        | 32.2        |
| 2    | 1155.70         | AVG  | 26.9           | 28.9        | 1.5         | 1.5  | 28.4              | 30.4        | 54.0           | 25.6        | 23.6        |
| 3    | 1272.90         | PEK  | 38.2           | 39.4        | 2.0         | 2.0  | 40.2              | 41.4        | 74.0           | 33.8        | 32.6        |
| 4    | 1272.90         | AVG  | 28.0           | 28.5        | 2.0         | 2.0  | 30.0              | 30.5        | 54.0           | 24.0        | 23.5        |
| 5    | 1931.50         | PEK  | 37.7           | 38.6        | 5.5         | 5.5  | 43.2              | 44.1        | 74.0           | 30.8        | 29.9        |
| 6    | 1931.50         | AVG  | 25.2           | 24.3        | 5.5         | 5.5  | 30.7              | 29.8        | 54.0           | 23.3        | 24.2        |
| 7    | 2311.47         | PEK  | 39.0           | 39.8        | 6.8         | 6.8  | 45.8              | 46.6        | 74.0           | 28.2        | 27.4        |
| 8    | 2311.47         | AVG  | 30.5           | <u>31.0</u> | 6.8         | 6.8  | 37.3              | <u>37.8</u> | 54.0           | 16.7        | <u>16.2</u> |
| 9    | 2408.45         | PEK  | 37.8           | 38.0        | 7.1         | 7.1  | 44.9              | 45.1        | 74.0           | 29.1        | 28.9        |
| 10   | 2408.45         | AVG  | 27.7           | 28.1        | 7.1         | 7.1  | 34.8              | 35.2        | 54.0           | 19.2        | 18.8        |
| 11   | 2545.80         | PEK  | 38.0           | 40.8        | 7.6         | 7.6  | 45.6              | 48.4        | 74.0           | 28.4        | 25.6        |
| 12   | 2545.80         | AVG  | 29.0           | <u>30.9</u> | 7.6         | 7.6  | 36.6              | <u>38.5</u> | 54.0           | 17.4        | <u>15.5</u> |
| 13   | 2627.40         | PEK  | 39.3           | 40.1        | 7.8         | 7.8  | 47.1              | 47.9        | 74.0           | 26.9        | <u>26.1</u> |
| 14   | 2627.40         | AVG  | 28.7           | <u>31.0</u> | 7.8         | 7.8  | 36.5              | <u>38.8</u> | 54.0           | 17.5        | <u>15.2</u> |
| 15   | 2704.12         | PEK  | 39.3           | <u>37.8</u> | 8.0         | 8.0  | 47.3              | 45.8        | 74.0           | 26.7        | <u>28.2</u> |
| 16   | 2704.12         | AVG  | <u>28.8</u>    | 24.9        | 8.0         | 8.0  | <u>36.8</u>       | 32.9        | 54.0           | 17.2        | 21.1        |
| 17   | 2757.95         | PEK  | 37.5           | 37.9        | 8.2         | 8.2  | 45.7              | 46.1        | 74.0           | 28.3        | 27.9        |
| 18   | 2757.95         | AVG  | 25.5           | 25.3        | 8.2         | 8.2  | 33.7              | 33.5        | 54.0           | 20.3        | 20.5        |
| 19   | 2774.22         | PEK  | 38.8           | 38.4        | 8.2         | 8.2  | 47.0              | 46.6        | 74.0           | 27.0        | 27.4        |
| 20   | 2774.22         | AVG  | <u>27.2</u>    | 27.1        | 8.2         | 8.2  | <u>35.4</u>       | 35.3        | 54.0           | <u>18.6</u> | 18.7        |
| 21   | 3236.15         | PEK  | 37.9           | 37.1        | 9.5         | 9.5  | 47.4              | 46.6        | 74.0           | 26.6        | 27.4        |
| 22   | 3236.15         | AVG  | 25.8           | 25.7        | 9.5         | 9.5  | 35.3              | 35.2        | 54.0           | 18.7        | 18.8        |
| 23   | 3818.70         | PEK  | 38.0           | 37.8        | 11.5        | 11.5 | 49.5              | 49.3        | 74.0           | 24.5        | 24.7        |
| 24   | 3818.70         | AVG  | <u>26.1</u>    | 25.6        | 11.5        | 11.5 | <u>37.6</u>       | 37.1        | 54.0           | <u>16.4</u> | 16.9        |

Higher six points are underlined.  
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamplifier)  
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)  
(Factor = Ant.Fact. + Cable Loss - Amp.Gain + Att. - Dist.Conversion Fact.)

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**9.1.2.14 VFO Scan mode(216-259.995MHz : Band A)  
30 – 1000 MHz**

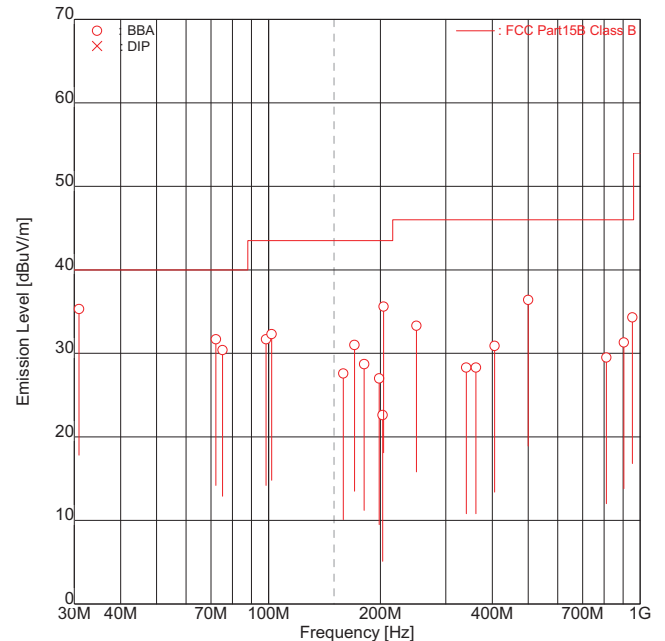
# Intertek Japan K.K.

## Tochigi No.3 Test Site

### Radiated Electric Field

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : VFO SCAN  
(216-259.995MHz;Band A)  
POWER SOURCE : DC13.8V(AC120 V, 60 Hz)  
DATE TESTED : Jun 01 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
DISTANCE : 3.00 [m]  
TEMPERATURE : 28.0 [degC]  
HUMIDITY : 24.0 [%]  
NOTE :

ENGINEER : Koichi Wagatsuma



| [No] | FREQUENCY [MHz] | ANT. | READING [dBuV] |             | FACTOR [dB/m] |      | EMISSION [dBuV/m] |             | LIMIT [dBuV/m] | MARGIN [dB] |             |
|------|-----------------|------|----------------|-------------|---------------|------|-------------------|-------------|----------------|-------------|-------------|
|      |                 |      | Hori           | Vert        | Hori          | Vert | Hori              | Vert        |                | Hori        | Vert        |
| 1    | 30.90           | BBA  | -              | <u>42.5</u> | -7.2          | -7.2 | -                 | <u>35.3</u> | 40.0           | -           | <u>4.7</u>  |
| 2    | 72.22           | BBA  | <u>39.0</u>    | -           | -7.3          | -7.3 | <u>31.7</u>       | -           | 40.0           | <u>8.3</u>  | -           |
| 3    | 75.23           | BBA  | <u>38.4</u>    | -           | -8.0          | -8.0 | <u>30.4</u>       | -           | 40.0           | <u>9.6</u>  | -           |
| 4    | 98.47           | BBA  | -              | 41.2        | -9.5          | -9.5 | -                 | 31.7        | 43.5           | -           | 11.8        |
| 5    | 101.91          | BBA  | -              | <u>41.4</u> | -9.1          | -9.1 | -                 | <u>32.3</u> | 43.5           | -           | <u>11.2</u> |
| 6    | 158.85          | BBA  | 30.5           | 32.1        | -4.5          | -4.5 | 26.0              | 27.6        | 43.5           | 17.5        | 15.9        |
| 7    | 170.29          | BBA  | 31.1           | 36.0        | -5.0          | -5.0 | 26.1              | 31.0        | 43.5           | 17.4        | 12.5        |
| 8    | 180.85          | BBA  | 30.5           | 34.4        | -5.7          | -5.7 | 24.8              | 28.7        | 43.5           | 18.7        | 14.8        |
| 9    | 198.60          | BBA  | 34.0           | -           | -7.0          | -7.0 | 27.0              | -           | 43.5           | 16.5        | -           |
| 10   | 202.85          | BBA  | -              | 29.6        | -7.0          | -7.0 | -                 | 22.6        | 43.5           | -           | 20.9        |
| 11   | 204.03          | BBA  | <u>42.5</u>    | 37.0        | -6.9          | -6.9 | <u>35.6</u>       | 30.1        | 43.5           | <u>7.9</u>  | 13.4        |
| 12   | 250.00          | BBA  | 38.2           | 32.2        | -4.9          | -4.9 | 33.3              | 27.3        | 46.0           | 12.7        | 18.7        |
| 13   | 340.58          | BBA  | 27.5           | 29.8        | -1.5          | -1.5 | 26.0              | 28.3        | 46.0           | 20.0        | 17.7        |
| 14   | 361.70          | BBA  | 29.1           | 28.0        | -0.8          | -0.8 | 28.3              | 27.2        | 46.0           | 17.7        | 18.8        |
| 15   | 405.69          | BBA  | 30.3           | 26.9        | 0.6           | 0.6  | 30.9              | 27.5        | 46.0           | 15.1        | 18.5        |
| 16   | 500.00          | BBA  | <u>33.0</u>    | -           | 3.4           | 3.4  | <u>36.4</u>       | -           | 46.0           | <u>9.6</u>  | -           |
| 17   | 811.38          | BBA  | 19.2           | 19.3        | 10.2          | 10.2 | 29.4              | 29.5        | 46.0           | 16.6        | 16.5        |
| 18   | 904.25          | BBA  | 19.2           | 19.5        | 11.8          | 11.8 | 31.0              | 31.3        | 46.0           | 15.0        | 14.7        |
| 19   | 953.10          | BBA  | -              | 22.0        | 12.3          | 12.3 | -                 | 34.3        | 46.0           | -           | 11.7        |

Higher six points are underlined.  
Other frequencies : Below the FCC Part15B Class B limit  
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)  
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)  
(Factor = Ant. Fact. + Cable Loss - Amp. Gain + Att. - Dist. Conversion Fact.)

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# 1000 – 25000 MHz

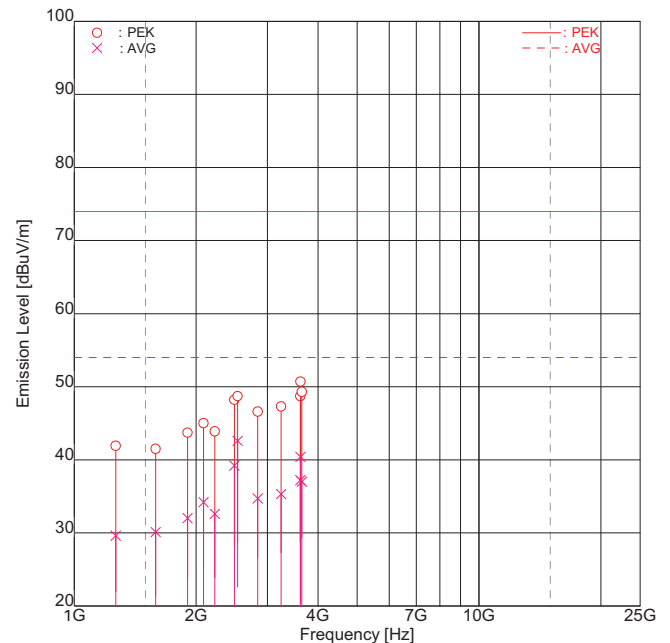
## Intertek Japan K.K.

### Tochigi No.1 Test Site

#### Radiated Electric Field

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : VFO SCAN  
(216.00-259.995MHz: Band A)  
POWER SOURCE : DC 13.8V (AC120 V, 60 Hz)  
DATE TESTED : Jun 08 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
DISTANCE : 3.73 [m]  
TEMPERATURE : 22.2 [degC]  
HUMIDITY : 35.0 [%]  
NOTE :

ENGINEER : Koichi Wagatuma



| [No] | FREQUENCY [MHz] | MODE | READING [dBuV] |             | FACTOR [dB] |      | EMISSION [dBuV/m] |             | LIMIT [dBuV/m] | MARGIN [dB] |             |
|------|-----------------|------|----------------|-------------|-------------|------|-------------------|-------------|----------------|-------------|-------------|
|      |                 |      | Hori           | Vert        | Hori        | Vert | Hori              | Vert        |                | Hori        | Vert        |
| 1    | 1265.95         | PEK  | 39.1           | 39.9        | 2.0         | 2.0  | 41.1              | 41.9        | 74.0           | 32.9        | 32.1        |
| 2    | 1265.95         | AVG  | 27.1           | 27.6        | 2.0         | 2.0  | 29.1              | 29.6        | 54.0           | 24.9        | 24.4        |
| 3    | 1588.50         | PEK  | 37.6           | 38.0        | 3.5         | 3.5  | 41.1              | 41.5        | 74.0           | 32.9        | 32.5        |
| 4    | 1588.50         | AVG  | 26.6           | 26.5        | 3.5         | 3.5  | 30.1              | 30.0        | 54.0           | 23.9        | 24.0        |
| 5    | 1906.20         | PEK  | 37.5           | 38.3        | 5.4         | 5.4  | 42.9              | 43.7        | 74.0           | 31.1        | 30.3        |
| 6    | 1906.20         | AVG  | 26.6           | 26.3        | 5.4         | 5.4  | 32.0              | 31.7        | 54.0           | 22.0        | 22.3        |
| 7    | 2086.60         | PEK  | 38.8           | 38.6        | 6.2         | 6.2  | 45.0              | 44.8        | 74.0           | 29.0        | 29.2        |
| 8    | 2086.60         | AVG  | 27.8           | 28.0        | 6.2         | 6.2  | 34.0              | 34.2        | 54.0           | 20.0        | 19.8        |
| 9    | 2223.90         | PEK  | 36.9           | 37.3        | 6.6         | 6.6  | 43.5              | 43.9        | 74.0           | 30.5        | 30.1        |
| 10   | 2223.90         | AVG  | 26.0           | 26.0        | 6.6         | 6.6  | 32.6              | 32.6        | 54.0           | 21.4        | 21.4        |
| 11   | 2487.80         | PEK  | 40.8           | 39.6        | 7.4         | 7.4  | 48.2              | 47.0        | 74.0           | 25.8        | 27.0        |
| 12   | 2487.80         | AVG  | <u>31.8</u>    | 30.3        | 7.4         | 7.4  | <u>39.2</u>       | 37.7        | 54.0           | <u>14.8</u> | 16.3        |
| 13   | 2531.90         | PEK  | 40.6           | 41.2        | 7.5         | 7.5  | 48.1              | 48.7        | 74.0           | 25.9        | 25.3        |
| 14   | 2531.90         | AVG  | 31.7           | <u>35.1</u> | 7.5         | 7.5  | 39.2              | <u>42.6</u> | 54.0           | 14.8        | <u>11.4</u> |
| 15   | 2839.83         | PEK  | 38.0           | <u>38.2</u> | 8.4         | 8.4  | 46.4              | 46.6        | 74.0           | 27.6        | <u>27.4</u> |
| 16   | 2839.83         | AVG  | 26.3           | 26.1        | 8.4         | 8.4  | 34.7              | 34.5        | 54.0           | 19.3        | 19.5        |
| 17   | 3245.52         | PEK  | 37.8           | 37.4        | 9.5         | 9.5  | 47.3              | 46.9        | 74.0           | 26.7        | 27.1        |
| 18   | 3245.52         | AVG  | 25.7           | <u>25.8</u> | 9.5         | 9.5  | 35.2              | <u>35.3</u> | 54.0           | 18.8        | <u>18.7</u> |
| 19   | 3617.00         | PEK  | 37.8           | 37.5        | 10.9        | 10.9 | 48.7              | 48.4        | 74.0           | 25.3        | 25.6        |
| 20   | 3617.00         | AVG  | <u>26.3</u>    | 25.9        | 10.9        | 10.9 | <u>37.2</u>       | 36.8        | 54.0           | <u>16.8</u> | 17.2        |
| 21   | 3623.79         | PEK  | 38.8           | 39.8        | 10.9        | 10.9 | 49.7              | 50.7        | 74.0           | 24.3        | 23.3        |
| 22   | 3623.79         | AVG  | 26.7           | <u>29.5</u> | 10.9        | 10.9 | 37.6              | <u>40.4</u> | 54.0           | 16.4        | <u>13.6</u> |
| 23   | 3651.21         | PEK  | 37.9           | 38.3        | 11.0        | 11.0 | 48.9              | 49.3        | 74.0           | 25.1        | 24.7        |
| 24   | 3651.21         | AVG  | <u>26.0</u>    | 25.9        | 11.0        | 11.0 | <u>37.0</u>       | 36.9        | 54.0           | <u>17.0</u> | 17.1        |

Higher six points are underlined.  
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamplifier)  
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)  
(Factor = Ant.Fact. + Cable Loss + Amp.Gain + Att. - Dist.Conversion Fact.)

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**9.1.2.15 VFO Scan mode(410-469.995MHz : Band A)  
30 – 1000 MHz**

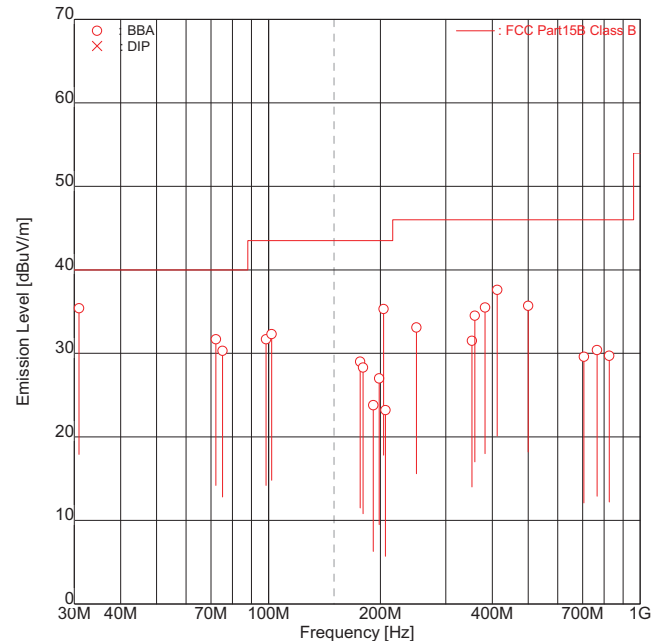
# Intertek Japan K.K.

## Tochigi No.3 Test Site

### Radiated Electric Field

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : VFO SCAN  
(410-469.995MHz;Band A)  
POWER SOURCE : DC13.8V(AC120 V, 60 Hz)  
DATE TESTED : Jun 01 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
DISTANCE : 3.00 [m]  
TEMPERATURE : 28.0 [degC]  
HUMIDITY : 24.0 [%]  
NOTE :

ENGINEER : Koichi Wagatsuma



| [No] | FREQUENCY [MHz] | ANT. | READING [dBuV] |             | FACTOR [dB/m] |      | EMISSION [dBuV/m] |             | LIMIT [dBuV/m] | MARGIN [dB] |            |
|------|-----------------|------|----------------|-------------|---------------|------|-------------------|-------------|----------------|-------------|------------|
|      |                 |      | Hori           | Vert        | Hori          | Vert | Hori              | Vert        |                | Hori        | Vert       |
| 1    | 30.90           | BBA  | -              | <u>42.6</u> | -7.2          | -7.2 | -                 | <u>35.4</u> | 40.0           | -           | <u>4.6</u> |
| 2    | 72.22           | BBA  | <u>39.0</u>    | -           | -7.3          | -7.3 | <u>31.7</u>       | -           | 40.0           | <u>8.3</u>  | -          |
| 3    | 75.23           | BBA  | <u>38.3</u>    | -           | -8.0          | -8.0 | <u>30.3</u>       | -           | 40.0           | <u>9.7</u>  | -          |
| 4    | 98.47           | BBA  | -              | 41.2        | -9.5          | -9.5 | -                 | 31.7        | 43.5           | -           | 11.8       |
| 5    | 101.91          | BBA  | -              | 41.4        | -9.1          | -9.1 | -                 | 32.3        | 43.5           | -           | 11.2       |
| 6    | 176.43          | BBA  | 30.3           | 34.4        | -5.4          | -5.4 | 24.9              | 29.0        | 43.5           | 18.6        | 14.5       |
| 7    | 179.63          | BBA  | 28.8           | 34.0        | -5.7          | -5.7 | 23.1              | 28.3        | 43.5           | 20.4        | 15.2       |
| 8    | 191.43          | BBA  | 26.6           | 30.2        | -6.4          | -6.4 | 20.2              | 23.8        | 43.5           | 23.3        | 19.7       |
| 9    | 198.60          | BBA  | 34.0           | -           | -7.0          | -7.0 | 27.0              | -           | 43.5           | 16.5        | -          |
| 10   | 204.03          | BBA  | <u>42.2</u>    | 37.7        | -6.9          | -6.9 | <u>35.3</u>       | 30.8        | 43.5           | <u>8.2</u>  | 12.7       |
| 11   | 206.42          | BBA  | 28.0           | 30.0        | -6.8          | -6.8 | 21.2              | 23.2        | 43.5           | 22.3        | 20.3       |
| 12   | 250.00          | BBA  | 38.0           | 32.5        | -4.9          | -4.9 | 33.1              | 27.6        | 46.0           | 12.9        | 18.4       |
| 13   | 352.85          | BBA  | 32.3           | 32.6        | -1.1          | -1.1 | 31.2              | 31.5        | 46.0           | 14.8        | 14.5       |
| 14   | 359.26          | BBA  | 32.5           | 35.3        | -0.8          | -0.8 | 31.7              | 34.5        | 46.0           | 14.3        | 11.5       |
| 15   | 382.86          | BBA  | 35.6           | 33.1        | -0.1          | -0.1 | 35.5              | 33.0        | 46.0           | 10.5        | 13.0       |
| 16   | 412.85          | BBA  | <u>36.8</u>    | 36.6        | 0.8           | 0.8  | <u>37.6</u>       | 37.4        | 46.0           | <u>8.4</u>  | 8.6        |
| 17   | 500.00          | BBA  | <u>32.3</u>    | -           | 3.4           | 3.4  | <u>35.7</u>       | -           | 46.0           | <u>10.3</u> | -          |
| 18   | 705.70          | BBA  | 20.2           | 21.5        | 8.1           | 8.1  | 28.3              | 29.6        | 46.0           | 17.7        | 16.4       |
| 19   | 765.70          | BBA  | 21.0           | 20.7        | 9.4           | 9.4  | 30.4              | 30.1        | 46.0           | 15.6        | 15.9       |
| 20   | 825.69          | BBA  | 19.3           | 19.3        | 10.4          | 10.4 | 29.7              | 29.7        | 46.0           | 16.3        | 16.3       |

Higher six points are underlined.  
Other frequencies : Below the FCC Part15B Class B limit  
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)  
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)  
(Factor = Ant. Fact. + Cable Loss - Amp. Gain + Att. - Dist. Conversion Fact.)

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# 1000 – 25000 MHz

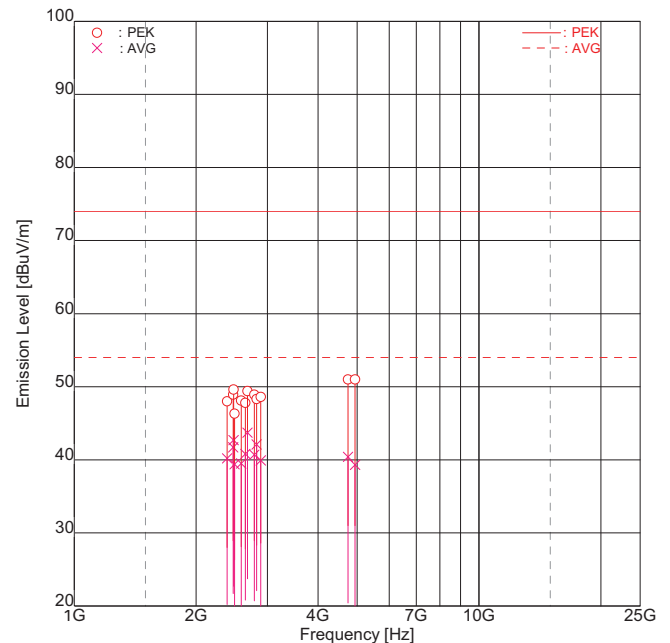
## Intertek Japan K.K.

### Tochigi No.1 Test Site

#### Radiated Electric Field

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : VFO SCAN  
(410.00-469.995MHz: Band A)  
POWER SOURCE : DC 13.8V (AC120 V, 60 Hz)  
DATE TESTED : Jun 08 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
DISTANCE : 3.73 [m]  
TEMPERATURE : 22.2 [degC]  
HUMIDITY : 35.0 [%]  
NOTE :

ENGINEER : Koichi Wagatuma



| [No] | FREQUENCY [MHz] | MODE | READING [dBuV] |             | FACTOR [dB] |      | EMISSION [dBuV/m] |             | LIMIT [dBuV/m] | MARGIN [dB] |             |
|------|-----------------|------|----------------|-------------|-------------|------|-------------------|-------------|----------------|-------------|-------------|
|      |                 |      | Hori           | Vert        | Hori        | Vert | Hori              | Vert        |                | Hori        | Vert        |
| 1    | 2387.10         | PEK  | 41.0           | 41.0        | 7.0         | 7.0  | 48.0              | 48.0        | 74.0           | 26.0        | 26.0        |
| 2    | 2387.10         | AVG  | 33.2           | 32.6        | 7.0         | 7.0  | 40.2              | 39.6        | 54.0           | 13.8        | 14.4        |
| 3    | 2469.95         | PEK  | 40.0           | 41.5        | 7.4         | 7.4  | 47.4              | 48.9        | 74.0           | 26.6        | 25.1        |
| 4    | 2469.95         | AVG  | 33.3           | <u>34.3</u> | 7.4         | 7.4  | 40.7              | <u>41.7</u> | 54.0           | 13.3        | <u>12.3</u> |
| 5    | 2477.07         | PEK  | 39.8           | 42.2        | 7.4         | 7.4  | 47.2              | 49.6        | 74.0           | 26.8        | 24.4        |
| 6    | 2477.07         | AVG  | 30.6           | <u>35.3</u> | 7.4         | 7.4  | 38.0              | <u>42.7</u> | 54.0           | 16.0        | <u>11.3</u> |
| 7    | 2488.53         | PEK  | 38.9           | 37.8        | 7.4         | 7.4  | 46.3              | 45.2        | 74.0           | 27.7        | 28.8        |
| 8    | 2488.53         | AVG  | 31.6           | 32.0        | 7.4         | 7.4  | 39.0              | 39.4        | 54.0           | 15.0        | 14.6        |
| 9    | 2586.03         | PEK  | 40.5           | 40.1        | 7.6         | 7.6  | 48.1              | 47.7        | 74.0           | 25.9        | 26.3        |
| 10   | 2586.03         | AVG  | 31.9           | 31.5        | 7.6         | 7.6  | 39.5              | 39.1        | 54.0           | 14.5        | 14.9        |
| 11   | 2646.38         | PEK  | 40.0           | 39.5        | 7.8         | 7.8  | 47.8              | 47.3        | 74.0           | 26.2        | 26.7        |
| 12   | 2646.38         | AVG  | <u>33.0</u>    | 31.0        | 7.8         | 7.8  | <u>40.8</u>       | 38.8        | 54.0           | <u>13.2</u> | 15.2        |
| 13   | 2679.95         | PEK  | 41.3           | 41.5        | 7.9         | 7.9  | 49.2              | 49.4        | 74.0           | 24.8        | 24.6        |
| 14   | 2679.95         | AVG  | 34.1           | <u>35.8</u> | 7.9         | 7.9  | 42.0              | <u>43.7</u> | 54.0           | 12.0        | <u>10.3</u> |
| 15   | 2784.95         | PEK  | 40.5           | 40.7        | 8.2         | 8.2  | 48.7              | 48.9        | 74.0           | 25.3        | 25.1        |
| 16   | 2784.95         | AVG  | <u>32.5</u>    | 31.3        | 8.2         | 8.2  | <u>40.7</u>       | 39.5        | 54.0           | <u>13.3</u> | 14.5        |
| 17   | 2822.80         | PEK  | 40.0           | 40.0        | 8.3         | 8.3  | 48.3              | 48.3        | 74.0           | 25.7        | 25.7        |
| 18   | 2822.80         | AVG  | <u>33.8</u>    | 31.0        | 8.3         | 8.3  | <u>42.1</u>       | 39.3        | 54.0           | <u>11.9</u> | 14.7        |
| 19   | 2889.92         | PEK  | 39.7           | 40.1        | 8.5         | 8.5  | 48.2              | 48.6        | 74.0           | 25.8        | 25.4        |
| 20   | 2889.92         | AVG  | 30.4           | 31.4        | 8.5         | 8.5  | 38.9              | 39.9        | 54.0           | 15.1        | 14.1        |
| 21   | 4747.72         | PEK  | 38.1           | 37.1        | 12.9        | 12.9 | 51.0              | 50.0        | 74.0           | 23.0        | 24.0        |
| 22   | 4747.72         | AVG  | 27.5           | 26.0        | 12.9        | 12.9 | 40.4              | 38.9        | 54.0           | 13.6        | 15.1        |
| 23   | 4939.90         | PEK  | 37.5           | 37.3        | 13.5        | 13.5 | 51.0              | 50.8        | 74.0           | 23.0        | 23.2        |
| 24   | 4939.90         | AVG  | 25.8           | 25.5        | 13.5        | 13.5 | 39.3              | 39.0        | 54.0           | 14.7        | 15.0        |

Higher six points are underlined.  
Emission Level = Read + Factor(Antenna, Antenna Pad, Cable, Preamp)  
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)  
(Factor = Ant.Fact. + Cable Loss + Amp.Gain + Att. - Dist.Conversion Fact.)

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**9.1.2.16 VFO Scan mode(0.10-523.995MHz : Band B)  
30 – 1000 MHz**

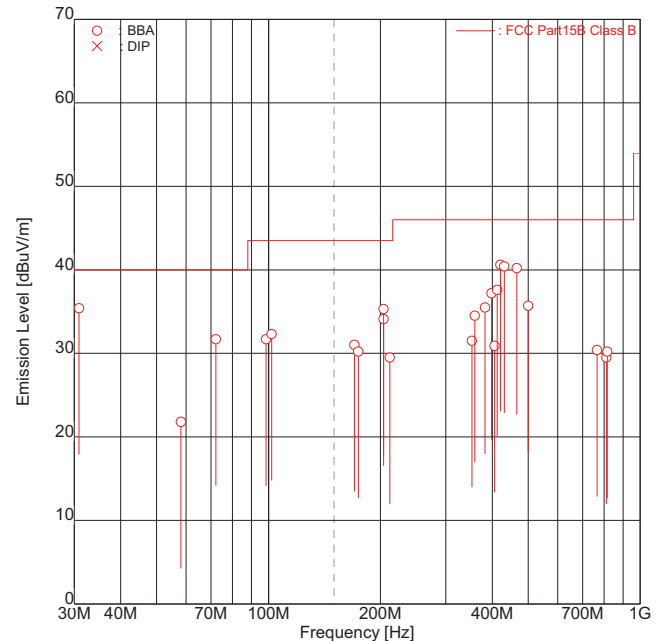
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## Tochigi No.3 Test Site

### Radiated Electric Field

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : VFO SCAN  
(0.100-523.995MHz;Band B)  
POWER SOURCE : DC13.8V(AC120 V, 60 Hz)  
DATE TESTED : Jun 01 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
DISTANCE : 3.00 [m]  
TEMPERATURE : 28.0 [degC]  
HUMIDITY : 24.0 [%]  
NOTE :

ENGINEER : Koichi Wagatsuma



| [No] | FREQUENCY [MHz] | ANT. | READING [dBuV] |             | FACTOR [dB/m] |      | EMISSION [dBuV/m] |             | LIMIT [dBuV/m] | MARGIN [dB] |            |
|------|-----------------|------|----------------|-------------|---------------|------|-------------------|-------------|----------------|-------------|------------|
|      |                 |      | Hori           | Vert        | Hori          | Vert | Hori              | Vert        |                | Hori        | Vert       |
| 1    | 30.90           | BBA  | -              | <u>42.6</u> | -7.2          | -7.2 | -                 | <u>35.4</u> | 40.0           | -           | <u>4.6</u> |
| 2    | 58.15           | BBA  | -              | 27.2        | -5.4          | -5.4 | -                 | 21.8        | 40.0           | -           | 18.2       |
| 3    | 72.22           | BBA  | <u>39.0</u>    | -           | -7.3          | -7.3 | <u>31.7</u>       | -           | 40.0           | <u>8.3</u>  | -          |
| 4    | 98.47           | BBA  | -              | 41.2        | -9.5          | -9.5 | -                 | 31.7        | 43.5           | -           | 11.8       |
| 5    | 101.91          | BBA  | -              | 41.4        | -9.1          | -9.1 | -                 | 32.3        | 43.5           | -           | 11.2       |
| 6    | 170.29          | BBA  | 31.1           | 36.0        | -5.0          | -5.0 | 26.1              | 31.0        | 43.5           | 17.4        | 12.5       |
| 7    | 174.45          | BBA  | 31.1           | 35.5        | -5.3          | -5.3 | 25.8              | 30.2        | 43.5           | 17.7        | 13.3       |
| 8    | 203.95          | BBA  | 41.0           | 36.5        | -6.9          | -6.9 | 34.1              | 29.6        | 43.5           | 9.4         | 13.9       |
| 9    | 204.03          | BBA  | <u>42.2</u>    | 37.7        | -6.9          | -6.9 | <u>35.3</u>       | 30.8        | 43.5           | <u>8.2</u>  | 12.7       |
| 10   | 212.15          | BBA  | -              | 36.0        | -6.5          | -6.5 | -                 | 29.5        | 43.5           | -           | 14.0       |
| 11   | 352.85          | BBA  | 32.3           | 32.6        | -1.1          | -1.1 | 31.2              | 31.5        | 46.0           | 14.8        | 14.5       |
| 12   | 359.26          | BBA  | 32.5           | 35.3        | -0.8          | -0.8 | 31.7              | 34.5        | 46.0           | 14.3        | 11.5       |
| 13   | 382.86          | BBA  | 35.6           | 33.1        | -0.1          | -0.1 | 35.5              | 33.0        | 46.0           | 10.5        | 13.0       |
| 14   | 398.15          | BBA  | 36.9           | 35.5        | 0.3           | 0.3  | 37.2              | 35.8        | 46.0           | 8.8         | 10.2       |
| 15   | 405.69          | BBA  | 30.3           | 26.9        | 0.6           | 0.6  | 30.9              | 27.5        | 46.0           | 15.1        | 18.5       |
| 16   | 412.85          | BBA  | 36.8           | 36.6        | 0.8           | 0.8  | 37.6              | 37.4        | 46.0           | 8.4         | 8.6        |
| 17   | 421.15          | BBA  | <u>39.6</u>    | 38.5        | 1.0           | 1.0  | <u>40.6</u>       | 39.5        | 46.0           | <u>5.4</u>  | 6.5        |
| 18   | 430.77          | BBA  | <u>39.1</u>    | 38.5        | 1.3           | 1.3  | <u>40.4</u>       | 39.8        | 46.0           | <u>5.6</u>  | 6.2        |
| 19   | 465.94          | BBA  | <u>37.8</u>    | 36.0        | 2.4           | 2.4  | <u>40.2</u>       | 38.4        | 46.0           | <u>5.8</u>  | 7.6        |
| 20   | 500.00          | BBA  | 32.3           | -           | 3.4           | 3.4  | 35.7              | -           | 46.0           | 10.3        | -          |
| 21   | 765.70          | BBA  | 21.0           | 20.7        | 9.4           | 9.4  | 30.4              | 30.1        | 46.0           | 15.6        | 15.9       |
| 22   | 811.38          | BBA  | 19.2           | 19.3        | 10.2          | 10.2 | 29.4              | 29.5        | 46.0           | 16.6        | 16.5       |
| 23   | 815.80          | BBA  | 20.0           | 19.3        | 10.2          | 10.2 | 30.2              | 29.5        | 46.0           | 15.8        | 16.5       |

Higher six points are underlined.  
Other frequencies : Below the FCC Part15B Class B limit  
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)  
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)  
(Factor = Ant. Fact. + Cable Loss - Amp. Gain + Att. - Dist. Conversion Fact.)

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1000 – 25000 MHz

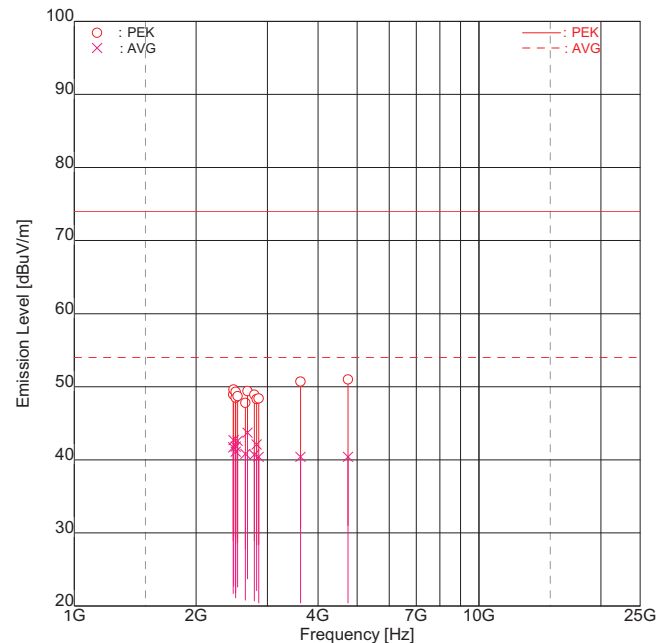
# Intertek Japan K.K.

## Tochigi No.1 Test Site

### Radiated Electric Field

APPLICANT : JVCKENWOOD Corporation  
EUT NAME : 144/220/430MHz TRIBANDER  
MODEL NO. : TH-D74A  
SERIAL NO. : FES2 K-08  
TEST MODE : VFO SCAN  
(0.100-523.995MHz: Band B)  
POWER SOURCE : DC 13.8V (AC120 V, 60 Hz)  
DATE TESTED : Jun 08 2016  
FILE NO. : -  
REGULATION : FCC Part15B Class B  
TEST METHOD : ANSI C63.4-2014  
DISTANCE : 3.73 [m]  
TEMPERATURE : 25.4 [degC]  
HUMIDITY : 28.0 [%]  
NOTE :

ENGINEER : Koichi Wagatuma



| [No] | FREQUENCY [MHz] | MODE | READING [dBuV] |             | FACTOR [dB] |      | EMISSION [dBuV/m] |             | LIMIT [dBuV/m] | MARGIN [dB] |             |
|------|-----------------|------|----------------|-------------|-------------|------|-------------------|-------------|----------------|-------------|-------------|
|      |                 |      | Hori           | Vert        | Hori        | Vert | Hori              | Vert        |                | Hori        | Vert        |
| 1    | 2469.95         | PEK  | 40.0           | 41.5        | 7.4         | 7.4  | 47.4              | 48.9        | 74.0           | 26.6        | 25.1        |
| 2    | 2469.95         | AVG  | 33.3           | <u>34.3</u> | 7.4         | 7.4  | 40.7              | <u>41.7</u> | 54.0           | 13.3        | <u>12.3</u> |
| 3    | 2477.07         | PEK  | 39.8           | 42.2        | 7.4         | 7.4  | 47.2              | 49.6        | 74.0           | 26.8        | 24.4        |
| 4    | 2477.07         | AVG  | 30.6           | <u>35.3</u> | 7.4         | 7.4  | 38.0              | <u>42.7</u> | 54.0           | 16.0        | <u>11.3</u> |
| 5    | 2505.65         | PEK  | 40.9           | 41.1        | 7.4         | 7.4  | 48.3              | 48.5        | 74.0           | 25.7        | 25.5        |
| 6    | 2505.65         | AVG  | 33.4           | 33.7        | 7.4         | 7.4  | 40.8              | 41.1        | 54.0           | 13.2        | 12.9        |
| 7    | 2506.35         | PEK  | 41.3           | 41.9        | 7.4         | 7.4  | 48.7              | 49.3        | 74.0           | 25.3        | 24.7        |
| 8    | 2506.35         | AVG  | 33.7           | <u>34.4</u> | 7.4         | 7.4  | 41.1              | <u>41.8</u> | 54.0           | 12.9        | <u>12.2</u> |
| 9    | 2531.90         | PEK  | 40.6           | 41.2        | 7.5         | 7.5  | 48.1              | 48.7        | 74.0           | 25.9        | 25.3        |
| 10   | 2531.90         | AVG  | 31.7           | <u>35.1</u> | 7.5         | 7.5  | 39.2              | <u>42.6</u> | 54.0           | 14.8        | <u>11.4</u> |
| 11   | 2646.38         | PEK  | 40.0           | 39.5        | 7.8         | 7.8  | 47.8              | 47.3        | 74.0           | 26.2        | 26.7        |
| 12   | 2646.38         | AVG  | 33.0           | 31.0        | 7.8         | 7.8  | 40.8              | 38.8        | 54.0           | 13.2        | 15.2        |
| 13   | 2679.95         | PEK  | 41.3           | 41.5        | 7.9         | 7.9  | 49.2              | 49.4        | 74.0           | 24.8        | 24.6        |
| 14   | 2679.95         | AVG  | 34.1           | <u>35.8</u> | 7.9         | 7.9  | 42.0              | <u>43.7</u> | 54.0           | 12.0        | <u>10.3</u> |
| 15   | 2784.95         | PEK  | 40.5           | 40.7        | 8.2         | 8.2  | 48.7              | 48.9        | 74.0           | 25.3        | 25.1        |
| 16   | 2784.95         | AVG  | 32.5           | 31.3        | 8.2         | 8.2  | 40.7              | 39.5        | 54.0           | 13.3        | 14.5        |
| 17   | 2822.80         | PEK  | 40.0           | 40.0        | 8.3         | 8.3  | 48.3              | 48.3        | 74.0           | 25.7        | 25.7        |
| 18   | 2822.80         | AVG  | 33.8           | 31.0        | 8.3         | 8.3  | 42.1              | 39.3        | 54.0           | 11.9        | 14.7        |
| 19   | 2855.30         | PEK  | 40.0           | 39.4        | 8.4         | 8.4  | 48.4              | 47.8        | 74.0           | 25.6        | 26.2        |
| 20   | 2855.30         | AVG  | 32.0           | 29.9        | 8.4         | 8.4  | 40.4              | 38.3        | 54.0           | 13.6        | 15.7        |
| 21   | 3623.79         | PEK  | 38.8           | 39.8        | 10.9        | 10.9 | 49.7              | 50.7        | 74.0           | 24.3        | 23.3        |
| 22   | 3623.79         | AVG  | 26.7           | 29.5        | 10.9        | 10.9 | 37.6              | 40.4        | 54.0           | 16.4        | 13.6        |
| 23   | 4747.72         | PEK  | 38.1           | 37.1        | 12.9        | 12.9 | 51.0              | 50.0        | 74.0           | 23.0        | 24.0        |
| 24   | 4747.72         | AVG  | 27.5           | 26.0        | 12.9        | 12.9 | 40.4              | 38.9        | 54.0           | 13.6        | 15.1        |

Higher six points are underlined.  
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamplifier)  
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)  
(Factor = Ant.Fact. + Cable Loss - Amp.Gain + Att. - Dist.Conversion Fact.)

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## 9.2 38dB Rejection Test

|                              |                                     |
|------------------------------|-------------------------------------|
| <b>Location</b>              | Kashima No.1 Test Site              |
| <b>Test Engineer</b>         | Koichi Wagatsuma                    |
| <b>Date Tested</b>           | From June 13, 2016 to June 16, 2016 |
| <b>Temperature Variation</b> | 21.7 – 23.9 [degC]                  |
| <b>Humidity Variation</b>    | 55 - 60 [%]                         |

### Test Procedure

| Item                | Document number |
|---------------------|-----------------|
| 38dB Rejection test | RJP-TE102       |

### 9.2.1 Result of 38dB Rejection

#### 9.2.1.1 VFO SCAN mode (136-173.995MHz : Band A)

| Injected Frequency [MHz] | Detected Frequency [MHz] | 12dB SINAD Reading Injected Frequency [dBm] | 12dB SINAD Reading Detected Frequency | Rejection Level [dB] | Margin [dB] |
|--------------------------|--------------------------|---------------------------------------------|---------------------------------------|----------------------|-------------|
| 824.040                  | No Point Detected        | See Note                                    | See Note                              | -                    | -           |
| 836.505                  | No Point Detected        | See Note                                    | See Note                              | -                    | -           |
| 848.970                  | No Point Detected        | See Note                                    | See Note                              | -                    | -           |
| 869.040                  | No Point Detected        | See Note                                    | See Note                              | -                    | -           |
| 881.505                  | No Point Detected        | See Note                                    | See Note                              | -                    | -           |
| 893.970                  | No Point Detected        | See Note                                    | See Note                              | -                    | -           |

Note : There was no need to carry out the measurements because no point was detected.

SG Input Level = 66dBuV

SG Reference Level = -3.0dBuV (the worst case sensitivity)

#### 9.2.1.2 VFO SCAN mode (216-259.995MHz : Band A)

| Injected Frequency [MHz] | Detected Frequency [MHz] | 12dB SINAD Reading Injected Frequency [dBm] | 12dB SINAD Reading Detected Frequency | Rejection Level [dB] | Margin [dB] |
|--------------------------|--------------------------|---------------------------------------------|---------------------------------------|----------------------|-------------|
| 824.040                  | No Point Detected        | See Note                                    | See Note                              | -                    | -           |
| 836.505                  | No Point Detected        | See Note                                    | See Note                              | -                    | -           |
| 848.970                  | No Point Detected        | See Note                                    | See Note                              | -                    | -           |
| 869.040                  | No Point Detected        | See Note                                    | See Note                              | -                    | -           |
| 881.505                  | No Point Detected        | See Note                                    | See Note                              | -                    | -           |
| 893.970                  | No Point Detected        | See Note                                    | See Note                              | -                    | -           |

Note : There was no need to carry out the measurements because no point was detected.

SG Input Level = 66dBuV

SG Reference Level = -10.7dBuV (the worst case sensitivity)

#### 9.2.1.3 VFO SCAN mode (410-469.995MHz : Band A)

| Injected Frequency [MHz] | Detected Frequency [MHz] | 12dB SINAD Reading Injected Frequency [dBm] | 12dB SINAD Reading Detected Frequency | Rejection Level [dB] | Margin [dB] |
|--------------------------|--------------------------|---------------------------------------------|---------------------------------------|----------------------|-------------|
| 824.040                  | No Point Detected        | See Note                                    | See Note                              | -                    | -           |
| 836.505                  | No Point Detected        | See Note                                    | See Note                              | -                    | -           |
| 848.970                  | No Point Detected        | See Note                                    | See Note                              | -                    | -           |
| 869.040                  | No Point Detected        | See Note                                    | See Note                              | -                    | -           |
| 881.505                  | No Point Detected        | See Note                                    | See Note                              | -                    | -           |
| 893.970                  | No Point Detected        | See Note                                    | See Note                              | -                    | -           |

Note : There was no need to carry out the measurements because no point was detected.

SG Input Level = 66dBuV

SG Reference Level = -7.4dBuV (the worst case sensitivity)

#### 9.2.1.4 VFO SCAN mode (0.10-523.995MHz : Band B)

| Injected Frequency [MHz] | Detected Frequency [MHz] | 12dB SINAD Reading Injected Frequency [dBm] | 12dB SINAD Reading Detected Frequency | Rejection Level [dB] | Margin [dB] |
|--------------------------|--------------------------|---------------------------------------------|---------------------------------------|----------------------|-------------|
| 824.040                  | No Point Detected        | See Note                                    | See Note                              | -                    | -           |
| 836.505                  | No Point Detected        | See Note                                    | See Note                              | -                    | -           |
| 848.970                  | No Point Detected        | See Note                                    | See Note                              | -                    | -           |
| 869.040                  | No Point Detected        | See Note                                    | See Note                              | -                    | -           |
| 881.505                  | No Point Detected        | See Note                                    | See Note                              | -                    | -           |
| 893.970                  | No Point Detected        | See Note                                    | See Note                              | -                    | -           |

Note : There was no need to carry out the measurements because no point was detected.

SG Input Level = 66dBuV

SG Reference Level = 17.2dBuV (the worst case sensitivity)

## SECTION 10. LIST OF MEASURING INSTRUMENTS

Test instruments are calibrated according to Quality Manual and Calibration Rules of Intertek Japan K.K.

All measurements equipment used for the measurement is calibrated based on standard.

Each measurement result is traceable to national or international standards.

Antenna used for the measurement is calibrated based on the ANSI C63.5.

| Instrument                                      | Model No.                          | Serial No.      | Manufacturer    | Cal. Interval | Effective period |
|-------------------------------------------------|------------------------------------|-----------------|-----------------|---------------|------------------|
| <b>Conducted disturbance at mains terminals</b> |                                    |                 |                 |               |                  |
| LISN (EUT)                                      | ESH2-Z5                            | 890484/005      | Rohde & Schwarz | 1 Y           | Jul., 31 2016    |
| 10dB Attenuator                                 | CFA-01(BPJ-10)                     | None(F0300008)  | TAMAGAWA        | 1 Y           | Jul., 31 2016    |
| LISN (Peripheral)                               | KNW-407                            | 8-1395-6        | Kyoritsu        | 1 Y           | Nov.30, 2016     |
| 10dB Attenuator                                 | CFA-01(BPJ-10)                     | None(F0300009)  | TAMAGAWA        | 1 Y           | Nov.30, 2016     |
| 50Ω Termination                                 | CT-01                              | None(F03050013) | TAMAGAWA        | 1 Y           | Nov.30, 2016     |
| Coaxial cable(C1)                               | 5D-2W(4.6 m)                       | 3C01a           | Intertek        | 1 Y           | Nov.30, 2016     |
| Coaxial cable(C2)                               | RG-5A/U(9.0 m)                     | 3C02            | Intertek        | 1 Y           | Nov.30, 2016     |
| Coaxial cable(C3)                               | 5D-2W(0.2 m)                       | 3C03            | Intertek        | 1 Y           | Nov.30, 2016     |
| Coaxial cable(C4)                               | 5D-2W(1.7 m)                       | 3C04a           | Intertek        | 1 Y           | Nov.30, 2016     |
| RF Switch                                       | ACX-150                            | None(F03301501) | Intertek        | 1 Y           | Nov.30, 2016     |
| <b>Radiated disturbance</b>                     |                                    |                 |                 |               |                  |
| Broad Band antenna                              | VULB9168                           | 218             | Schwarzbeck     | 1 Y           | Mar.31 2017      |
| 6dB Attenuator                                  | CFA-01(NPJ-6)                      | None(F0300002)  | TAMAGAWA        | 1 Y           | Apr.31 2017      |
| Step Attenuator                                 | 8494B                              | 2812A15595      | Hewlett Packard | 1 Y           | May 31 2017      |
| Amplifier                                       | 8447D                              | 1937A03130      | Hewlett Packard | 1 Y           | May 31 2017      |
| Coaxial cable(R1)                               | 5D-2W(12.0 m)                      | 3R01a           | Intertek        | 1 Y           | May 31 2017      |
| Coaxial cable(R2)                               | 10D-2W(21.0 m)                     | 3R02a           | Intertek        | 1 Y           | May 31 2017      |
| Coaxial cable(R3)                               | RG-5A/U(0.2 m)                     | 3R03            | Intertek        | 1 Y           | May 31 2017      |
| Coaxial cable(R4)                               | 5D-2W(0.7 m)                       | 3R04            | Intertek        | 1 Y           | May 31 2017      |
| Coaxial cable(R5)                               | 5D-2W(0.2 m)                       | 3R05            | Intertek        | 1 Y           | May 31 2017      |
| Coaxial cable(R6)                               | 5D-2W(1.7 m)                       | 3R06a           | Intertek        | 1 Y           | May 31 2017      |
| RF Switch                                       | ACX-150                            | None(F03301501) | Intertek        | 1 Y           | May 31 2017      |
| Site Attenuation                                |                                    |                 |                 | 1 Y           | Dec. 31 2016     |
| Double ridged antenna                           | 3115                               | 9903-5699       | EMCO            | 1 Y           | Jul 31 2016      |
| 6dB Attenuator                                  | 8493C                              | 80390           | Agilent         | 1 Y           | Nov.30 2016      |
| Amplifier                                       | TPA0118-30                         | 1052071(0504)   | TOYO            | 1 Y           | Nov.30 2016      |
| Coaxial cable(RG1)                              | SUCOFLEX(1.5 m)                    | MY19475/4       | SUHNER          | 1 Y           | Nov.30 2016      |
| Coaxial cable(RG2)                              | SUCOFLEX(6.0 m)                    | MY19494/4       | SUHNER          | 1 Y           | Nov.30 2016      |
| Spectrum analyzer                               | 8563E<br>(Firmware Revision 71024) | 3821A09565      | Hewlett Packard | 1 Y           | May.31 2017      |
| Double Ridged Antenna                           | MLA-18265-B03-30                   | 1694440         | TSJ             | 1 Y           | Feb.28 2017      |
| Coaxial Cable(RG3)                              | 5B-048-98-98-6000                  | 120315          | Candox          | 1 Y           | Sep.30 2016      |
| SVSWR                                           |                                    |                 |                 | 1 Y           | Jun.30, 2016     |
| <b>Common</b>                                   |                                    |                 |                 |               |                  |
| Test receiver                                   | ESS<br>(Firmware Version 1.07)     | 842886/013      | Rohde & Schwarz | 1 Y           | Jan.31, 2017     |
| Testing Software                                | emiT (Version 3,0,0,0)             |                 |                 |               |                  |

| <b>38dB Rejection test</b> |              |            |                 |     |              |
|----------------------------|--------------|------------|-----------------|-----|--------------|
| Signal Generator           | SMB100A      | 105709     | Rohde & Schwarz | 1 Y | Apr.30, 2017 |
| Audio Analyzer             | 8903B        | 2948A07326 | Hewlett Packard | 1 Y | Aug 31, 2016 |
| Coaxial Cable              | SUCOFLEX 104 | 237767/4   | SUHNER          | 1 Y | May 31, 2017 |

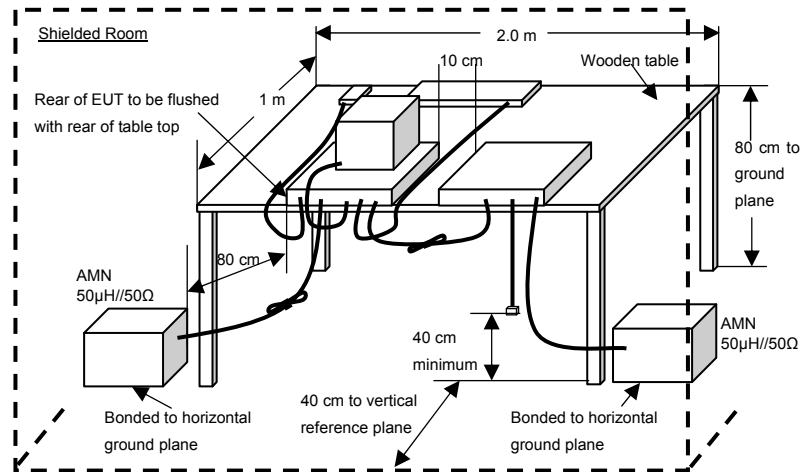
## **ANNEX**

## A. TEST PROCEDURE(S)

Test was carried out under the following conditions.

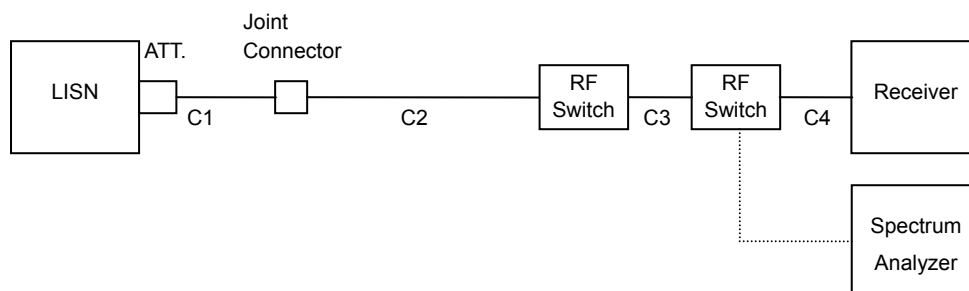
### Conducted disturbance at mains terminals

Test setup as per standard



\* Reference Ground plane : greater than 2 x 2m

### Diagram of the measuring instruments



#### [ Preliminary Measurement ]

EUT is tested on all operating conditions.

The spectrum analyzer is controlled by the computer program to sweep the frequency range to be measured, then spectrum chart is plotted out to find the worst emission conditions in operating mode and/or configuration decision for the final test.

All leads other than safety ground are tested.

#### [ Final Measurement ]

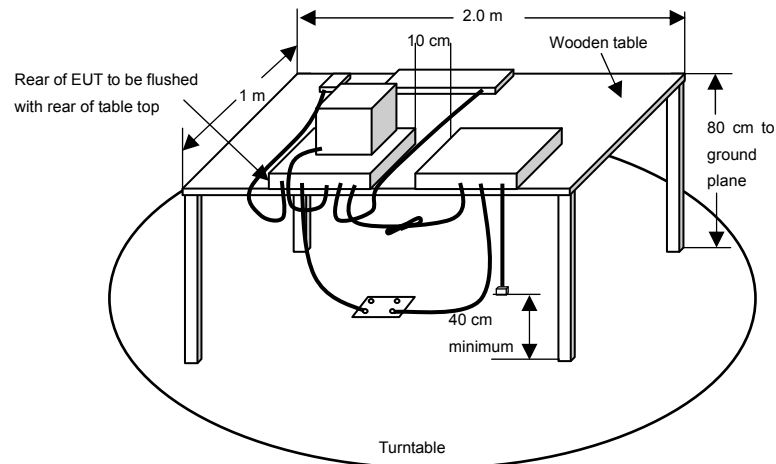
The EUT is operated in the worst emission condition found by the preliminary test.

The equipment and cables are arranged or manipulated within the range of the test standard in the above condition.

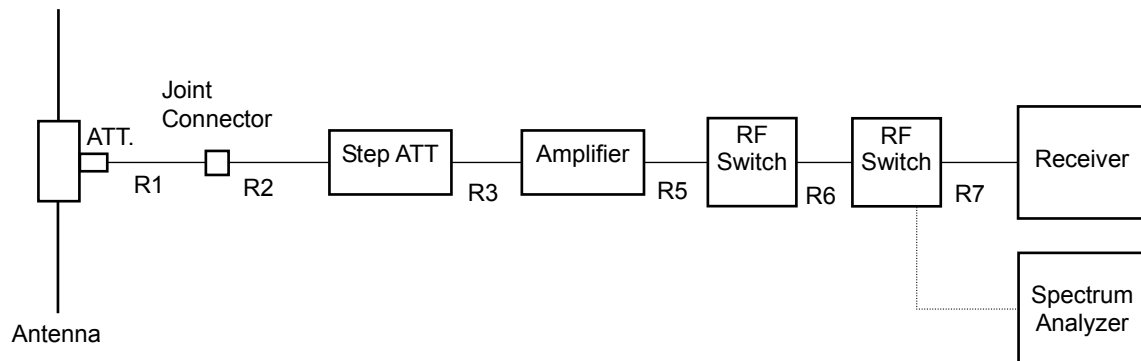
At least six highest spectrum are measured in quasi-peak and average (if necessary) using the test receiver.

## Radiated disturbance

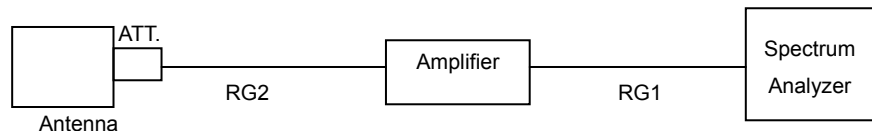
### Test setup as per standard



### Diagram of the measuring instruments ( 30-1000MHz )



### Above 1GHz(1-18GHz)



### Above 1GHz(18-26.5GHz)



#### [ Preliminary Measurement ]

EUT is tested on all operating conditions.

The spectrum analyzer is set max-hold mode and swept during turntable was rotated 0 to 360 degree, And find the worst emission conditions in configuration, operating mode, or ambient noise notation.

#### [ Final Measurement ]

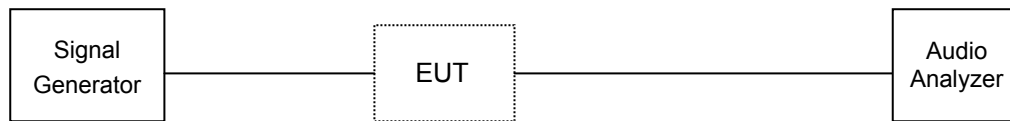
The EUT operated in the worst emission condition found by the preliminary test.

The turntable azimuth (EUT direction) and antenna height are adjusted the position so that maximum field strength is obtained for each frequency spectrum to be measured.

The equipment and cables are arranged or manipulated within the range of the test standard in the above condition. At least six highest spectrums are measured by the test receiver (quasi-peak) and spectrum analyzer (peak and average). When the uncertain result was obtained (30 – 1000 MHz), the measurement is retried by using the half wave dipole antenna instead of the broadband antenna.

### **38dB Rejection test**

#### **Schema for the 38dB rejection measurement**



#### **[ Preliminary Measurement ]**

The Signal Genarator conditions :

Output level = 66 dBuV.

Modulation = Frequency modulated to 1 kHz tone at 3 kHz peak deviation.

Frequency Points = 824.040 MHz, 836.505 MHz, 848.970 MHz  
869.040 MHz, 881.505 MHz, 893.970 MHz

(The Cellular Radiotelephone Service mobile and base frequency bands)

The EUT condition :

Scanning Frequency = 136 – 174.00 MHz :Band A (Minimum Scan Step).

Scanning Frequency = 216 – 260.00 MHz :Band A (Minimum Scan Step).

Scanning Frequency = 410 – 470.00 MHz :Band A (Minimum Scan Step).

Scanning Frequency = 0.10 – 524.00 MHz :Band B (Minimum Scan Step).

Scan stopped point, was the detected frequency.

#### **[ Final Measurement ]**

Injected 12dB SINAD Reading (SG RF Output)

The EUT condition :

Frequency = Scan stopped point

The Signal Genarator condition :

Frequency = Cellular point

Detected 12dB SINAD Reading (SG RF Output)

The EUT condition :

Frequency = Scan stopped point

The Signal Genarator condition :

Frequency = Scan stopped point

Under the requirements of Section15.121(b) of the Rule.

Injected 12dB SINAD Reading – Detected 12dB SINAD Reading = 38 dB or more.