TEST REPORT



DT&C Co., Ltd.

42, Yurim-ro, 154Beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea, 17042 Tel: 031-321-2664, Fax: 031-321-1664

1. Report No: DRTFCC1807-0179

2. Customer

· Name : Bitfinder, Inc.

Address: 814 SARATOGA AVE #J205, SAN JOSE, California, United States 95129

3. Use of Report: FCC Original Grant

4. Product Name / Model Name : AWAIR / AWAIR Rev2

FCC ID: 2AF65AWAIR0HD2

5. Test Method Used: ANSI C63.10-2013

Test Specification: FCC Part 15 Subpart C.249

6. Date of Test: 2018.07.03 ~ 2018.07.06

7. Testing Environment: See appended test report.

8. Test Result: Refer to the attached test result.

| | Affirmation | Tested by | / | Reviewed by | DA |
|---|-------------|--------------------|---------|-------------------|-------------|
| Ľ | Ammation | Name : SunGeun Lee | (Dajie) | Name : GeunKi Son | (Signature) |

The test results presented in this test report are imited only to the sample supplied by applicant and the use of this test report is inhibited other than its purpose. This test report shall not be reproduced except in full, without the written approval of DT&C Co., Ltd.

2018.07.16.

DT&C Co., Ltd.

If this report is required to confirmation of authenticity, please contact to report@dtnc.net



Test Report Version

| Test Report No. | Date | Description |
|-----------------|---------------|---------------|
| DRTFCC1807-0179 | Jul. 16, 2018 | Initial issue |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |



Table of Contents

Report No.: DRTFCC1807-0179

| 1. General Information | 4 |
|---|----|
| 1.1 Testing Laboratory | 4 |
| 1.2 Test Environment | 4 |
| 1.3 Measurement Uncertainty | 4 |
| 1.4 Details of Applicant | |
| 1.5 Description of EUT | 5 |
| 1.6 Test Mode | 5 |
| 1.7 EMI Suppression Device(s)/Modifications | 5 |
| 1.8 Test Equipment List | |
| 2. Summary of Test | |
| 3. Transmitter requirements | 8 |
| 3.1 AC Conducted Emissions | 8 |
| 3.1.1 Test Requirements and limit, §15.207 | 8 |
| 3.1.2 Test Configuration | 8 |
| 3.1.3 Test Procedure | 8 |
| 3.1.4 Test Result | 9 |
| 3.2 Radiated Emission | 11 |
| 3.2.1 Test Configuration | 13 |
| 3.2.2 Test Procedures for Radiated Spurious Emissions | 13 |
| 3.2.3 Test Result | 14 |
| 3.3 Antenna Requirements | 15 |
| ADDENDIV I | 16 |

1. General Information

1.1 Testing Laboratory

DT&C Co., Ltd.

The 3 m test site and conducted measurement facility used to collect the radiated data are located at the 42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 17042.

Report No.: DRTFCC1807-0179

The test site comply with the requirements of § 2.948 according to ANSI C63.4-2014.

- FCC MRA Accredited Test Firm No.: KR0034

| www.dtnc.net | www.dtnc.net | | | | | |
|--------------|--------------|------------------|--|--|--|--|
| Telephone | : | + 82-31-321-2664 | | | | |
| FAX | : | + 82-31-321-1664 | | | | |

1.2 Test Environment

| Ambient Condition | Ambient Condition | | |
|-------------------|-------------------|--|--|
| Temperature | +20 °C ~ +25 °C | | |
| Relative Humidity | 40 % ~ 45 % | | |

1.3 Measurement Uncertainty

| Test items | Measurement uncertainty |
|--|--|
| Radiated spurious emission (1 GHz Below) | 5.1 dB (The confidence level is about 95 %, k = 2) |
| Radiated spurious emission (1 GHz ~ 18 GHz) | 5.4 dB (The confidence level is about 95 %, k = 2) |
| Radiated spurious emission (18 GHz Above) | 5.3 dB (The confidence level is about 95 %, k = 2) |



1.4 Details of Applicant

Applicant : Bitfinder, Inc.

Address : 814 SARATOGA AVE #J205 , SAN JOSE, California, United States 95129

Report No.: DRTFCC1807-0179

Contact person : Kevin Cho

1.5 Description of EUT

| EUT | AWAIR |
|-------------------------------|---|
| Model Name | AWAIR Rev2 |
| Add Model Name | NA |
| Power Supply | DC 5V |
| Hardware version | V 3.0 |
| Software version | V 1.0.0 |
| Frequency Range | 915 MHz |
| Max. field strength (average) | 77.76 dBuV/m |
| Modulation Type | GFSK |
| Antenna Specification | Antenna Type: PCB Pattern Antenna Gain: -0.3 dBi (PK) (1 dB Cable Loss excluded) |

1.6 Test Mode

| Test Mode | Description | |
|-----------|-----------------|--|
| TM1 | Sub 1G (915MHz) | |

1.7 EMI Suppression Device(s)/Modifications

EMI suppression device(s) added and/or modifications made during testing \rightarrow None



1.8 Test Equipment List

| Туре | Manufacturer | Model | Cal.Date (yy/mm/dd) | Next.Cal.Date (yy/mm/dd) | S/N |
|-------------------|---------------------------|--------------------------------|------------------------|-----------------------------|------------|
| Spectrum Analyzer | Agilent Technologies | N9020A | 17/12/28 | 18/12/28 | US50200816 |
| Spectrum Analyzer | Agilent Technologies | N9020A | 18/01/03 | 19/01/03 | MY48011700 |
| DC Power Supply | Agilent Technologies | 66332A | 18/07/02 | 19/07/02 | MY43000719 |
| Multimeter | FLUKE | 17B | 17/12/26 | 18/12/26 | 26030065WS |
| Signal Generator | Rohde Schwarz | SMBV100A | 17/12/27 | 18/12/27 | 255571 |
| Signal Generator | ANRITSU | MG3695C | 18/02/12 | 19/02/12 | 173501 |
| Thermohygrometer | BODYCOM | BJ5478 | 17/09/11 | 18/09/11 | N/A |
| Loop Antenna | Schwarzbeck | FMZB1513 | 18/01/30 | 20/01/30 | 1513-128 |
| BILOG ANTENNA | Schwarzbeck | VULB 9168 | 18/03/26 | 20/03/26 | 9168-0819 |
| Horn Antenna | ETS-Lindgren | 3115 | 17/01/13 | 19/01/13 | 9202-3820 |
| Horn Antenna | Schwarzbeck | BBHA 9120C | 17/12/04 | 19/12/04 | 9120C-561 |
| PreAmplifier | tsj | MLA-10K01-B01- 27 | 18/01/11 | 19/01/11 | 2005354 |
| PreAmplifier | tsj | MLA-0118-J01-45 | 18/02/08 | 19/02/08 | 17138 |
| EMI Test Receiver | ROHDE&SCHWARZ | ESW44 | 17/08/21 | 18/08/21 | 101645 |
| Attenuator | SMAJK | SMAJK-2-3 | 17/09/06 | 18/09/06 | 3 |
| Attenuator | Aeroflex/Weinschel | 56-3 | 17/12/27 | 18/12/27 | Y2370 |
| Attenuator | SRTechnology | F01-B0606-01 | 17/09/07 | 18/09/07 | 13092403 |
| Attenuator | Hefei Shunze | SS5T2.92-10-40 | 17/12/27 | 18/12/27 | 16012202 |
| Attenuator | SMAJK | SMAJK-50-10 | 17/09/06 | 18/09/06 | 15081903 |
| High Pass Filter | Wainwright Instruments | WHNX8.0/26.5- 6SS | 17/12/26 | 18/12/26 | 3 |
| High Pass Filter | Wainwright Instruments | WHKX12-935- 1000-15000-40SS | 17/09/05 | 18/09/05 | 8 |
| EMI TEST RECEIVER | Rohde Schwarz | ESCI7 | 18/02/12 | 19/02/12 | 100910 |
| PULSE LIMITER | Rohde Schwarz | ESH3-Z2 | 17/09/29 | 18/09/29 | 101333 |
| LISN | SCHWARZBECK | NNLK 8121 | 18/03/20 | 19/03/20 | 06183 |
| Cable | DT&C | CABLE | 18/03/26 | 19/03/26 | RF-68 |
| Cable | DT&C | CABLE | 18/03/26 | 19/03/26 | P-IN |
| Cable | DT&C | CABLE | 18/03/26 | 19/03/26 | RF-71 |
| Cable | DT&C | CABLE | 18/06/22 | 19/06/22 | RF-82 |
| Cable | DT&C | CABLE | 18/06/22 | 19/06/22 | C-016-4 |
| Cable | DT&C | CABLE | 18/06/22 | 19/06/22 | RF-81 |
| Cable | Radiall | TESTPRO3 | 18/06/22 | 19/06/22 | RF-74 |
| Cable | Radiall | TESTPRO3 | 18/06/22 | 19/06/22 | RF-66 |
| Cable | HUBER+SUHNER | SUCOFLEX | 17/12/22 | 18/12/22 | C-1 |
| Cable | HUBER+SUHNER | SUCOFLEX | 17/12/22 | 18/12/22 | C-2 |
| Cable | HUBER+SUHNER | SUCOFLEX | 17/12/22 | 18/12/22 | C-3 |
| Cable | HUBER+SUHNER | SUCOFLEX | 17/12/22 | 18/12/22 | C-4 |

Report No.: DRTFCC1807-0179

Note: The measurement antennas were calibrated in accordance to the requirements of ANSI C63.5-2017

Note: The cable is not a regular calibration item, so it has been calibrated by DT & C itself

2. Summary of Test

| FCC Part | Parameter | Limit | Test Condition | Status Note 1 |
|-------------------------|---|---------------|----------------------|------------------|
| 15.249 (a) | Field Strength Limits | FCC 15.249(a) | C 15.249(a) | |
| 15.205 15.209 15.249 | General Field Strength Limits (Restricted Bands and Radiated Emission Limits) FCC 15.209, 249 limits | | Radiated | С |
| 15.207 | 15.207 AC Conducted Emissions | | AC Line Conducted | С |
| 15.203 | Antenna Requirements | FCC 15.203 | - | С |

Report No.: DRTFCC1807-0179

Note 1: C=Comply NC=Not Comply NT=Not Tested NA=Not Applicable

Note 2: For radiated emission tests below 30 MHz were performed on semi-anechoic chamber which is correlated with OATS.

3. Transmitter requirements

3.1 AC Conducted Emissions

3.1.1 Test Requirements and limit, §15.207

According to §15.207(a) for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 uH/50 ohm line impedance stabilization network (LISN).

Report No.: DRTFCC1807-0179

Compliance with the provision of this paragraph shall on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower applies at the boundary between the frequency ranges.

| Frequency Range | Conducted Limit (dBuV) | | |
|-----------------|------------------------|------------|--|
| (MHz) | Quasi-Peak | Average | |
| 0.15 ~ 0.5 | 66 to 56 * | 56 to 46 * | |
| 0.5 ~ 5 | 56 | 46 | |
| 5 ~ 30 | 60 | 50 | |

^{*} Decreases with the logarithm of the frequency

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

3.1.2 Test Configuration

Refer to the next page.

3.1.3 Test Procedure

Conducted emissions from the EUT were measured according to the ANSI C63.10.

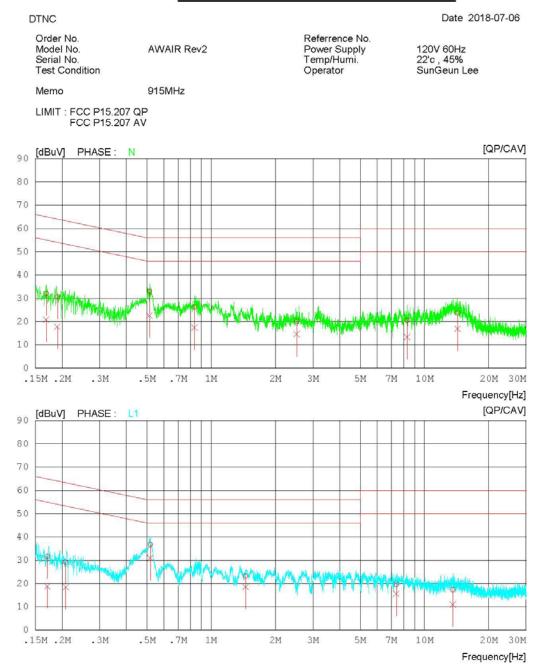
- 1. The test procedure is performed in a 6.5 m \times 3.5 m \times 3.5 m (L \times W \times H) shielded room. The EUT along with its peripherals were placed on a 1.0 m (W) \times 1.5 m (L) and 0.8 m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.
- 2. The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room.
- 3. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.
- 4. The excess power cable between the EUT and the LISN was bundled. The power cables of peripherals were unbundled. All connecting cables of EUT and peripherals were moved to find the maximum emission.

3.1.4 Test Result

AC Line Conducted Emissions (Graph)

Report No.: DRTFCC1807-0179

Results of Conducted Emission



AC Line Conducted Emissions (List)

Report No.: DRTFCC1807-0179

Results of Conducted Emission

DTNC Date 2018-07-06

Order No. Model No. Serial No. Test Condition

AWAIR Rev2

Referrence No. Power Supply Temp/Humi. Operator

120V 60Hz 22'c , 45% SunGeun Lee

Memo 915MHz

LIMIT : FCC P15.207 QP FCC P15.207 AV

| NC | FREQ | READING QP CAV [dBuV] [dBuV] | C.FACTOR | RESULT QP CAV [dBuV][dBuV | LIMIT QP CAV [dBuV] [dBuV | MARGIN QP CAV] [dBuV][dBuV | PHASE |
|----|----------|------------------------------------|----------|---------------------------------|-----------------------------------|-----------------------------------|-------|
| 1 | 0.16846 | 22.15 10.93 | 9.89 | 32.04 20.82 | 65.04 55.04 | 33.00 34.22 | N |
| 2 | 0.18991 | 20.66 7.87 | 9.90 | 30.5617.77 | 64.04 54.04 | 33.4836.27 | N |
| 3 | 0.51336 | 23.11 12.71 | 9.90 | 33.01 22.61 | 56.00 46.00 | 22.99 23.39 | N |
| 4 | 0.83606 | 16.25 7.52 | 9.92 | 26.1717.44 | 56.00 46.00 | 29.83 28.56 | N |
| 5 | 2.51720 | 10.14 4.62 | 9.96 | 20.1014.58 | 56.00 46.00 | 35.90 31.42 | N |
| 6 | 8.28840 | 10.37 3.20 | 10.10 | 20.47 13.30 | 60.00 50.00 | 39.5336.70 | N |
| 7 | 14.30980 | 13.44 6.72 | 10.21 | 23.65 16.93 | 60.00 50.00 | 36.35 33.07 | N |
| 8 | 0.17056 | 21.66 8.90 | 9.89 | 31.55 18.79 | 64.93 54.93 | 33.38 36.14 | L1 |
| 9 | 0.20778 | 19.23 8.52 | 9.90 | 29.1318.42 | 63.29 53.29 | 34.1634.87 | L1 |
| 10 | 0.51789 | 26.71 21.03 | 9.90 | 36.61 30.93 | 56.00 46.00 | 19.39 15.07 | L1 |
| 11 | 1.44960 | 13.17 8.54 | 9.93 | 23.1018.47 | 56.00 46.00 | 32.90 27.53 | L1 |
| 12 | 7.37520 | 9.56 5.49 | 10.06 | 19.62 15.55 | 60.00 50.00 | 40.3834.45 | L1 |
| 13 | 13.57380 | 6.99 0.75 | 10.18 | 17.17 10.93 | 60.00 50.00 | 42.8339.07 | L1 |

3.2 Radiated Emission

Test Requirements and limit, §15.249, §15.205, §15.209

FCC Part 15.249

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

Report No.: DRTFCC1807-0179

| | Limit @ 3m | | | | |
|-----------------|--------------------------------------|------------------------------------|--|--|--|
| Frequency (MHz) | Field strength of fundamental (mV/m) | Field strength of harmonics (uV/m) | | | |
| 902 ~ 908 | 50 | 500 | | | |
| 2400 ~ 2483.5 | 50 | 500 | | | |
| 5725 ~ 5825 | 50 | 500 | | | |
| 24,000 ~ 24,250 | 250 | 2500 | | | |

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

(e) As shown in §15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

According to § 15.209(a), except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table

| Frequency (MHz) | Limit (uV/m) | Measurement Distance (meter) | | |
|-----------------|--------------|------------------------------|--|--|
| 0.009 - 0.490 | 2400/F(KHz) | 300 | | |
| 0.490 - 1.705 | 24000/F(KHz) | 30 | | |
| 1.705 – 30.0 | 30 | 30 | | |
| 30 ~ 88 | 100 ** | 3 | | |
| 88 ~ 216 | 150 ** | 3 | | |
| 216 ~ 960 | 200 ** | 3 | | |
| Above 960 | 500 | 3 | | |

^{**} Except as provided in 15.209(g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54 - 72 MHz, 76 - 88 MHz, 174 - 216 MHz or 470 - 806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g. 15.231 and 15.241.

According to § 15.205(a) and (b), only spurious emissions are permitted in any of the frequency bands listed below :

• FCC Part 15.205 (a): Only spurious emissions are permitted in any of the frequency bands listed below:

Report No.: DRTFCC1807-0179

| MHz | MHz | MHz | MHz | GHz | GHz |
|-------------------|----------------|-------------------|-----------------|--------------|---------------|
| 0.009 ~ 0.110 | 12.29 ~ 12.293 | 149.9 ~ 150.05 | 1645.5 ~ 1646.5 | 4.5 ~ 5.15 | 14.47 ~ 14.5 |
| 0.495 ~ 0.505 | 12.51975 ~ | 156.52475 ~ | 1660 ~ 1710 | 5.35 ~ 5.46 | 15.35 ~ 16.2 |
| 2.1735 ~ 2.1905 | 12.52025 | 156.52525 | 1718.8 ~ 1722.2 | 7.25 ~ 7.75 | 17.7 ~ 21.4 |
| 4.125 ~ 4.128 | 12.57675 ~ | 156.7 ~ 156.9 | 2200 ~ 2300 | 8.025 ~ 8.5 | 22.01 ~ 23.12 |
| 4.17725 ~ 4.17775 | 12.57725 | 162.0125 ~ 167.17 | 2310 ~ 2390 | 9.0 ~ 9.2 | 23.6 ~ 24.0 |
| 4.20725 ~ 4.20775 | 13.36 ~ 13.41 | 167.72 ~ 173.2 | 2483.5 ~ 2500 | 9.3 ~ 9.5 | 31.2 ~ 31.8 |
| 6.215 ~ 6.218 | 16.42 ~ 16.423 | 240 ~ 285 | 2655 ~ 2900 | 10.6 ~ 12.7 | 36.43 ~ 36.5 |
| 6.26775 ~ 6.26825 | 16.69475 ~ | 322 ~ 335.4 | 3260 ~ 3267 | 13.25 ~ 13.4 | Above 38.6 |
| 6.31175 ~ 6.31225 | 16.69525 | 399.90 ~ 410 | 3332 ~ 3339 | | |
| 8.291 ~ 8.294 | 16.80425 ~ | 608 ~ 614 | 3345.8 ~ 3358 | | |
| 8.362 ~ 8.366 | 16.80475 | 960 ~ 1240 | 3600 ~ 4400 | | |
| 8.37625 ~ 8.38675 | 25.5 ~ 25.67 | 1300 ~ 1427 | | | |
| 8.41425 ~ 8.41475 | 37.5 ~ 38.25 | 1435 ~ 1626.5 | | | |
| | 73 ~ 74.6 | | | | |
| | 74.8 ~ 75.2 | | | | |
| | 108 ~ 121.94 | | | | |
| | 123 ~ 138 | | | | |

The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurements.

3.2.1 Test Configuration

Refer to the APPENDIX I.

3.2.2 Test Procedures for Radiated Spurious Emissions

1. The EUT is placed on a non-conductive table. For emission measurements at or below 1 GHz, the table height is 80 cm. For emission measurements above 1 GHz, the table height is 1.5 m. The table was rotated 360 degrees to determine the position of the highest radiation.

Report No.: **DRTFCC1807-0179**

- 2. During performing radiated emission below 1 GHz, the EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable-height antenna tower. During performing radiated emission above 1 GHz, the EUT was set 1 or 3 meter away from the interference-receiving antenna.
- 3. For measurements above 1GHz absorbers are placed on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1 GHz, the absorbers are removed.
- 4. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 5. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 6. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 7. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

3.2.3 Test Result

Frequency Range: 9 kHz ~ 10 GHz

-TM1

| Frequency (MHz) | ANT Pol | The worst case EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | D.C.F (dB) | Distance Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|--------------------|------------|---|------------------|-------------------|---------------|---------------|----------------------------|--------------------|-------------------|----------------|
| 311.90 | Н | Y | QP | 56.20 | -11.80 | N/A | N/A | 44.40 | 46.02 | 1.62 |
| 359.91 | Н | Y | QP | 55.70 | -10.76 | N/A | N/A | 44.94 | 46.02 | 1.08 |
| 407.93 | Н | Y | QP | 52.10 | -9.17 | N/A | N/A | 42.93 | 46.02 | 3.09 |
| 914.99* | Η | Z | PK | 74.44 | 33.50 | N/A | N/A | 107.94 | 113.98 | 6.04 |
| 914.99* | Η | Z | AV | 74.44 | 33.50 | -30.18 | N/A | 77.76 | 93.98 | 16.22 |
| 1829.97 | Н | X | PK | 66.79 | -0.93 | N/A | N/A | 65.86 | 74.00 | 8.14 |
| 1829.97 | Н | X | AV | 66.79 | -0.93 | -30.18 | N/A | 35.68 | 54.00 | 18.32 |

Report No.: DRTFCC1807-0179

■ Note.

- 1. No other spurious and harmonic emissions were found greater than listed emissions on above table.
- 2. The result of average measurement was calculated using PK result and duty cycle reduction factor.
- 3. Sample Calculation.

 $\begin{aligned} & \text{Margin = Limit} - \text{Result} \quad / \quad \text{Result = Reading + T.F + D.C.F} \quad / \quad \text{T.F = AF + CL - AG} \\ & \text{Where, T.F = Total Factor,} \quad \text{AF = Antenna Factor,} \quad \text{CL = Cable Loss,} \quad \text{AG = Amplifier Gain,} \\ & \text{DCF = Duty Cycle Reduction Factor.} \end{aligned}$

4. * is fundamental frequency.

3.3 Antenna Requirements

- According to FCC 47 CFR §15.203:

An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

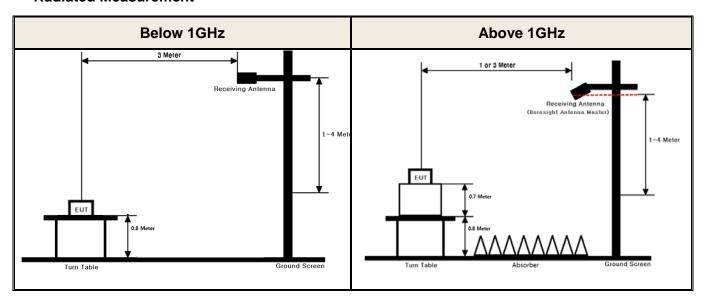
Report No.: DRTFCC1807-0179

The antenna is attached on the device by means of unique connection type. Therefore this E.U.T Complies with the requirement of §15.203

APPENDIX I

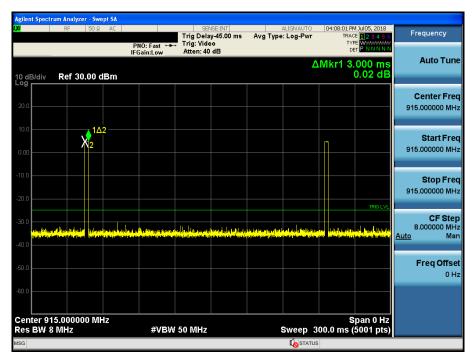
Test set up diagrams

Radiated Measurement



Report No.: DRTFCC1807-0179

Duty cycle reduction factor



| Measured worst case transmit time per 100ms | 3.0 ms |
|---|------------------------------------|
| Declared worst case transmit time per 100ms | 3.04 ms |
| Duty cycle reduction factor(Worst case) | 20 x log (3.04ms/100ms) = -30.18dB |

Note: The worst duty cycle has heen provided by the manufacturer's technical documentation.