

# 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 : DRTFCC1810-0248(1)
2. Customer
  - Name : LINE Friends Corporation
  - Address : 200, Itaewon-ro, Yongsan-gu, Seoul, South Korea
3. Use of Report : FCC Original Grant
4. Product Name / Model Name : WIRELESS CHARGER / LFBT21-WCP-2018-1  
FCC ID : 2AQTS-LFBT21-WCP
5. Test Method Used : ANSI C63.10 - 2013  
Test Specification : FCC Part 15 Subpart C
6. Date of Test : 2018.09.19 ~ 2018.09.21
7. Testing Environment : See appended test report.
8. Test Result : Refer to the attached test result.

|             |                                |                               |
|-------------|--------------------------------|-------------------------------|
| Affirmation | Tested by                      | Reviewed by                   |
|             | Name : SunGeun Lee (Signature) | Name : Geunki Son (Signature) |

The test results presented in this test report are limited 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 . 11 . 05 .

**DT&C Co., Ltd.**

If this report is required to confirmation of authenticity, please contact to [report@dtnc.net](mailto:report@dtnc.net)

## Test Report Version

| Test Report No.    | Date          | Description                     |
|--------------------|---------------|---------------------------------|
| DRTFCC1810-0248    | Oct. 12, 2018 | Initial issue                   |
| DRTFCC1810-0248(1) | Nov. 05, 2018 | Update of Equipment information |
|                    |               |                                 |
|                    |               |                                 |
|                    |               |                                 |

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## 1. General Information

### 1.1. Testing Laboratory

|   |   |                  |
|---|---|------------------|
| <b>DT&amp;C Co., Ltd.</b>   |   |                  |
| 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.<br>The test site complies with the requirements of § 2.948 according to ANSI C63.4-2014. |   |                  |
| - FCC MRA Accredited Test Firm No. : KR0034   |   |                  |
| <a href="http://www.dtnet.net">www.dtnet.net</a>  |   |                  |
| Telephone   | : | + 82-31-321-2664 |
| FAX   | : | + 82-31-321-1664 |

### 1.2. Testing Environment

| Ambient Condition   |               |
|---------------------|---------------|
| ▪ Temperature       | 23 °C ~ 25 °C |
| ▪ Relative Humidity | 45 % ~ 52 %   |

### 1.3. Measurement Uncertainty

| Test items                                  | Measurement uncertainty                            |
|---|--|
| AC conducted emission                       | 2.4 dB (The confidence level is about 95 %, k = 2) |
| Radiated spurious emission<br>(1 GHz Below) | 5.1 dB (The confidence level is about 95 %, k = 2) |

#### 1.4. Details of Applicant

Applicant : LINE Friends Corporation  
 Address : 200, Itaewon-ro, Yongsan-gu, Seoul, South Korea  
 Contact person : JaeHong Noh

#### 1.5. Description of EUT

|                                 |   |
|---------------------------------|---|
| <b>FCC Equipment Class</b>      | Part 15 Low Power Transmitter Below 1705 kHz (DCD)  |
| <b>Equipment type</b>           | WIRELESS CHARGER  |
| <b>Equipment model name</b>     | LFBT21-WCP-2018-1   |
| <b>Equipment add model name</b> | LFBT21-WCP-2018-2, LFBT21-WCP-2018-3, LFBT21-WCP-2018-4, LFBT21-WCP-2018-5, LFBT21-WCP-2018-6, LFBT21-WCP-2018-7, LFBT21-WCP-2018-8 |
| <b>Equipment serial no.</b>     | Identical prototype   |
| <b>Hardware Version</b>         | N10TX_V2  |
| <b>Software Version</b>         | N10_V1.0  |
| <b>Frequency</b>                | 111 kHz ~ 205 kHz   |
| <b>Output power</b>             | Max : 5 W, 10 W   |
| <b>Power Supply</b>             | DC 5 V, 9 V   |
| <b>Antenna type</b>             | Coil Antenna  |

## 2. Information about test items

### 2.1 Test mode

This device has been tested with the below test modes and charging current conditions:

| Test Mode | Output Power | Charging current | Support Equipment           |
|-----------|--------------|------------------|-----------------------------|
| TM1       | 5 W          | 1 A              | Client device(Passive Coil) |
| TM2       | 10 W         | 1.1 A            | Client device(Passive Coil) |

### 2.2 Support equipment

| Equipment    | Model No. | Serial No. | Manufacturer             | Note     |
|--------------|-----------|------------|--------------------------|----------|
| Passive Coil | NA        | NA         | LINE Friends Corporation | 5V, 1A   |
| Passive Coil | NA        | NA         | LINE Friends Corporation | 9V, 1.1A |

Note: The above equipment was supported by manufacturer.

### 2.3 EMI Suppression Device(s)/Modifications

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

## 3. Antenna requirements

“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.”

**The antenna is permanently attached.**

**Please refer to the internal photo. Therefore this E.U.T Complies with the requirement of §15.203**

## 4. Test Report

### 4.1 Summary of tests

| FCC Part Section(s) | Parameter              | Limit             | Test Condition    | Status Note 1 |
|---------------------|------------------------|-------------------|-------------------|---------------|
| 2.1049              | 20 dB Bandwidth        | N/A               | Radiated          | <b>C</b>      |
| 15.209              | Radiated Emission      | FCC 15.209 limits |                   | <b>C</b>      |
| 15.207              | AC Conducted Emissions | FCC 15.207 limits | AC Line Conducted | <b>C</b>      |
| 15.203              | Antenna Requirements   | FCC 15.203        | -                 | <b>C</b>      |

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.

:

## 4.2 Transmitter requirements

### 4.2.1 20 dB Bandwidth

**- Procedure:**

The 20 dB Bandwidth is measured with a spectrum analyzer connected via a receive antenna placed near the EUT while the EUT is operating in transmission mode.

And spectrum analyzer setting use following test procedure of **ANCSI C63.10-2013 – Section 6.9.2.**

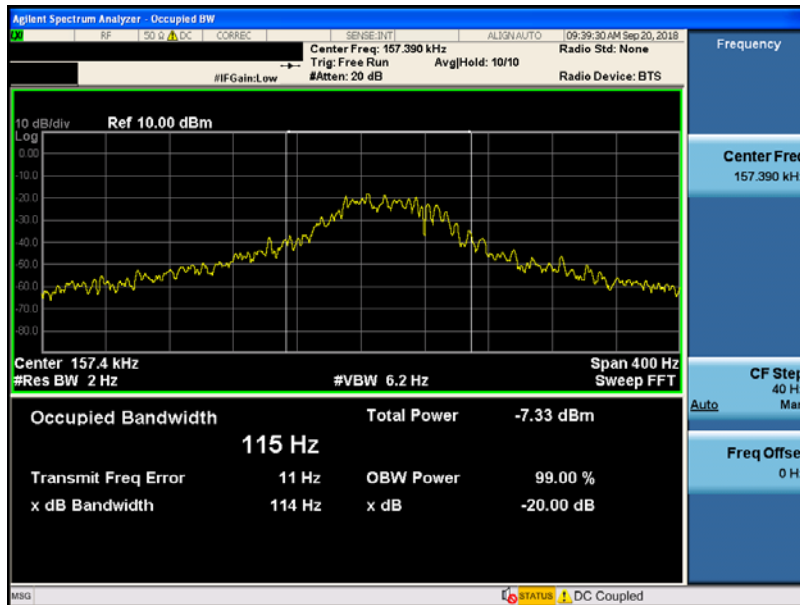
1. Center frequency = EUT channel center frequency
2. Span = 2 ~ 5 times the OBW
3. RBW = 1 % ~ 5 % OBW
4. VBW  $\geq$  3 x RBW
5. Detector = Peak
6. Trace = Max hold
7. The trace was allowed to stabilize
8. Determine the reference value = Set the spectrum analyzer marker to the highest level of the displayed trace
9. Using the marker-delta function of the instrument, determine the “-xx dB down amplitude” using [(reference value) - xx].
10. Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.



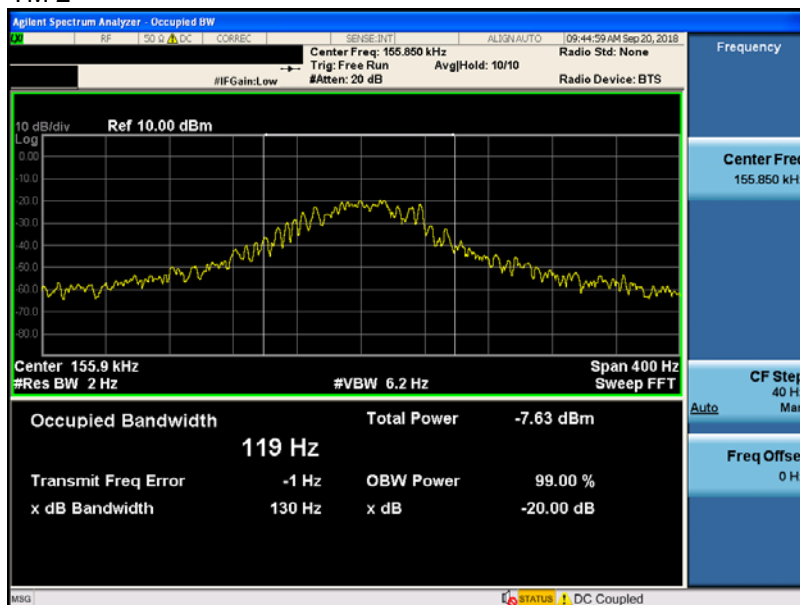
- Measurement Data: **Comply**

| Test mode | Tested Frequency(kHz) | 20dB Bandwidth(kHz) |
|-----------|-----------------------|---------------------|
| TM 1      | 157.400               | 0.114               |
| TM 2      | 155.900               | 0.130               |

-TM 1



-TM 2



- Minimum Standard: NA

## 4.2.2 Radiated Emissions

### - Limit: FCC Part 15.209(a)

| Frequency [MHz] | Field Strength [uV/m] | Measurement Distance [Meters] |
|-----------------|-----------------------|-------------------------------|
| 0.009 ~ 0.490   | 2400/F (kHz)          | 300                           |
| 0.490 ~ 1.705   | 24000/F (kHz)         | 30                            |
| 1.705 ~ 30      | 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.

### - Procedure:

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
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.
3. 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.
4. 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.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. 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.

- Measurement Data: **Comply** (refer to the next page)

**- Measurement Data:**

 Measurement Distance : **3 Meters**

| Tested Mode | Emissions (Note 1) | Freq. [MHz] | Worst case ANT pol (Note 2) | Reading [dBuV] | T.F [dB/m] | D.C.F. | Field Strength [dBuV/m] | Limit [dBuV/m] | Margin [dB] |
|-------------|--------------------|-------------|-----------------------------|----------------|------------|--------|-------------------------|----------------|-------------|
| TM 1        | F                  | 0.155       | P                           | 65.60          | 18.63      | 80     | 4.23                    | 23.80          | 19.57       |
|             | S                  | 0.625       | P                           | 23.20          | 18.68      | 40     | 1.88                    | 31.69          | 29.81       |
|             | S                  | 0.785       | P                           | 28.80          | 18.70      | 40     | 7.50                    | 29.71          | 22.21       |
|             | S                  | 1.110       | P                           | 23.10          | 18.75      | 40     | 1.85                    | 26.70          | 24.85       |
|             | S                  | 1.430       | P                           | 22.30          | 18.82      | 40     | 1.12                    | 24.50          | 23.38       |
|             | S                  | 1.746       | P                           | 21.90          | 18.90      | 40     | 0.80                    | 29.54          | 28.74       |
|             | S                  | 41.398      | V                           | 42.00          | -9.89      | NA     | 32.11                   | 40.00          | 7.89        |
|             | S                  | 96.323      | H                           | 47.60          | -12.70     | NA     | 34.90                   | 43.50          | 8.60        |
|             | S                  | 170.889     | H                           | 39.40          | -8.12      | NA     | 31.28                   | 43.50          | 12.22       |
|             | S                  | 244.480     | H                           | 35.90          | -9.12      | NA     | 26.78                   | 46.00          | 19.22       |
| TM 2        | F                  | 0.155       | P                           | 62.60          | 18.63      | 80     | 1.23                    | 23.80          | 22.57       |
|             | S                  | 0.785       | P                           | 30.00          | 18.70      | 40     | 8.70                    | 29.71          | 21.01       |
|             | S                  | 1.101       | P                           | 23.20          | 18.75      | 40     | 1.95                    | 26.77          | 24.82       |
|             | S                  | 1.416       | P                           | 17.50          | 18.82      | 40     | -3.68                   | 24.58          | 28.26       |
|             | S                  | 35.820      | V                           | 40.20          | -10.58     | NA     | 29.62                   | 40.00          | 10.38       |
|             | S                  | 96.323      | H                           | 32.50          | -12.70     | NA     | 19.80                   | 43.50          | 23.70       |
|             | S                  | 350.091     | H                           | 27.80          | -5.04      | NA     | 22.76                   | 46.00          | 23.24       |

**Note 1.** "F" = Fundamental emission / "S" = Spurious emission / "\*" = Noise Floor

**Note 2.** Loop antenna orientation (30 MHz Below)

"P"= Parallel, "V"= perpendicular, "G"= ground-parallel

Bilog antenna polarization (30 MHz above)

"H"= Horizontal, "V"= Vertical

**Note 3.** All data were recorded using a spectrum analyzer employing a peak detector.

If PK results were meet Quasi-peak limit, Quasi-peak measurements were omitted.

**Note 4.** No other spurious and harmonic emissions were reported greater than listed emissions above table.

**Note 5.** Sample calculation

Margin = Limit – Field Strength

Field Strength = Reading + T.F – Distance factor

T.F = AF + CL – AG

Distance factor =  $20\log(\text{Measurement distance} / \text{The measured distance})^2$

Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain

### 4.2.3 AC Line Conducted Emissions

#### - Test Requirements and limit

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  $\mu$ H/50 ohms line impedance stabilization network (LISN).

| Frequency Range (MHz) | Conducted Limit (dBuV) |            |
|-----------------------|------------------------|------------|
|                       | 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.

#### Test Configuration:

See test photographs for the actual connections between EUT and support equipment.

#### TEST PROCEDURE

1. The EUT is placed on a wooden table 80 cm above the reference ground plane.
2. The EUT is connected via LISN to a test power supply.
3. The measurement results are obtained as described below:
4. Detectors – Quasi Peak and Average Detector.

**Measurement Data:** **Comply** (refer to the next page)

**Measurement Data (5W)**

**Results of Conducted Emission**

DTNC

Date 2018-09-21

Order No.  
Model No.  
Serial No.  
Test Condition

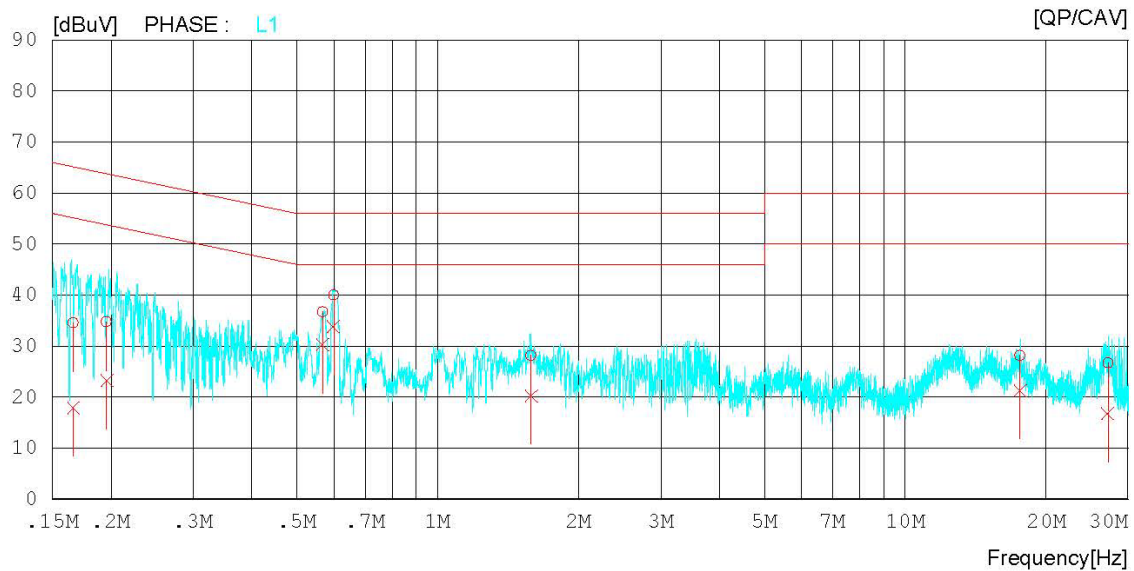
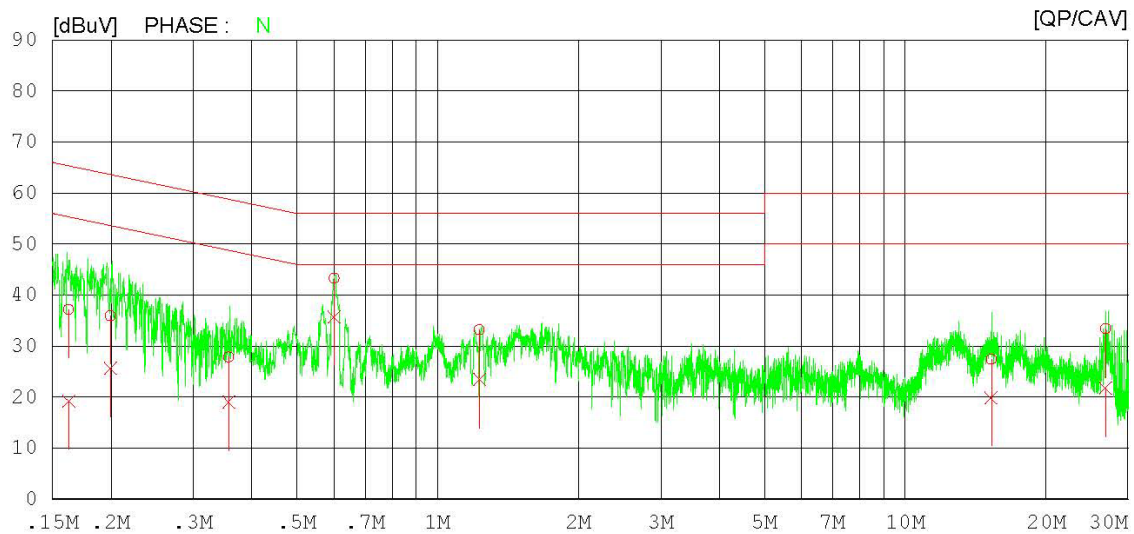
LFBT21-WCP-2018-1  
5W

Reference No.  
Power Supply  
Temp/Humi.  
Operator

120 V / 60Hz  
25 'C / 45 %  
S.G.LEE

Memo

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



**Measurement Data (5W)**

## Results of Conducted Emission

DTNC

Date 2018-09-21

|                |                   |               |              |
|----------------|-------------------|---------------|--------------|
| Order No.      |                   | Reference No. |              |
| Model No.      | LFBT21-WCP-2018-1 | Power Supply  | 120 V / 60Hz |
| Serial No.     |                   | Temp/Humi.    | 25 'C / 45 % |
| Test Condition | 5W                | Operator      | S.G.LEE      |

Memo

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

| NO | FREQ<br>[MHz] | READING      |               | C. FACTOR<br>[dB] | RESULT       |               | LIMIT        |               | MARGIN       |               | PHASE |
|----|---------------|--------------|---------------|-------------------|--------------|---------------|--------------|---------------|--------------|---------------|-------|
|    |               | QP<br>[dBuV] | CAV<br>[dBuV] |                   | QP<br>[dBuV] | CAV<br>[dBuV] | QP<br>[dBuV] | CAV<br>[dBuV] | QP<br>[dBuV] | CAV<br>[dBuV] |       |
| 1  | 0.16251       | 27.00        | 8.99          | 10.21             | 37.21        | 19.20         | 65.33        | 55.33         | 28.12        | 36.13         | N     |
| 2  | 0.19961       | 25.92        | 15.64         | 9.99              | 35.91        | 25.63         | 63.63        | 53.63         | 27.72        | 28.00         | N     |
| 3  | 0.35742       | 17.80        | 8.97          | 10.02             | 27.82        | 18.99         | 58.79        | 48.79         | 30.97        | 29.80         | N     |
| 4  | 0.60073       | 33.23        | 25.69         | 10.03             | 43.26        | 35.72         | 56.00        | 46.00         | 12.74        | 10.28         | N     |
| 5  | 1.22920       | 23.11        | 13.43         | 10.06             | 33.17        | 23.49         | 56.00        | 46.00         | 22.83        | 22.51         | N     |
| 6  | 15.26440      | 16.91        | 9.39          | 10.48             | 27.39        | 19.87         | 60.00        | 50.00         | 32.61        | 30.13         | N     |
| 7  | 26.81880      | 22.74        | 11.10         | 10.65             | 33.39        | 21.75         | 60.00        | 50.00         | 26.61        | 28.25         | N     |
| 8  | 0.16628       | 24.32        | 7.64          | 10.16             | 34.48        | 17.80         | 65.14        | 55.14         | 30.66        | 37.34         | L1    |
| 9  | 0.19567       | 24.70        | 13.18         | 9.99              | 34.69        | 23.17         | 63.79        | 53.79         | 29.10        | 30.62         | L1    |
| 10 | 0.56715       | 26.72        | 20.21         | 10.00             | 36.72        | 30.21         | 56.00        | 46.00         | 19.28        | 15.79         | L1    |
| 11 | 0.59892       | 29.98        | 23.73         | 10.00             | 39.98        | 33.73         | 56.00        | 46.00         | 16.02        | 12.27         | L1    |
| 12 | 1.58400       | 18.06        | 10.13         | 10.05             | 28.11        | 20.18         | 56.00        | 46.00         | 27.89        | 25.82         | L1    |
| 13 | 17.60240      | 17.67        | 10.74         | 10.48             | 28.15        | 21.22         | 60.00        | 50.00         | 31.85        | 28.78         | L1    |
| 14 | 27.11760      | 16.07        | 6.14          | 10.60             | 26.67        | 16.74         | 60.00        | 50.00         | 33.33        | 33.26         | L1    |

**Measurement Data (10W)**

**Results of Conducted Emission**

DTNC

Date 2018-09-21

Order No.  
Model No.  
Serial No.  
Test Condition

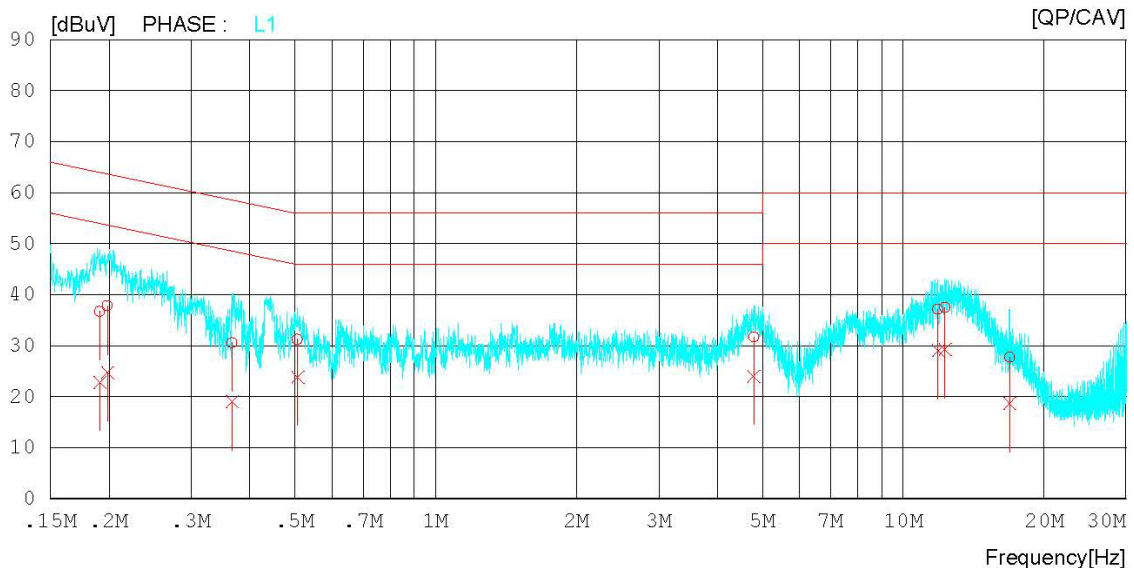
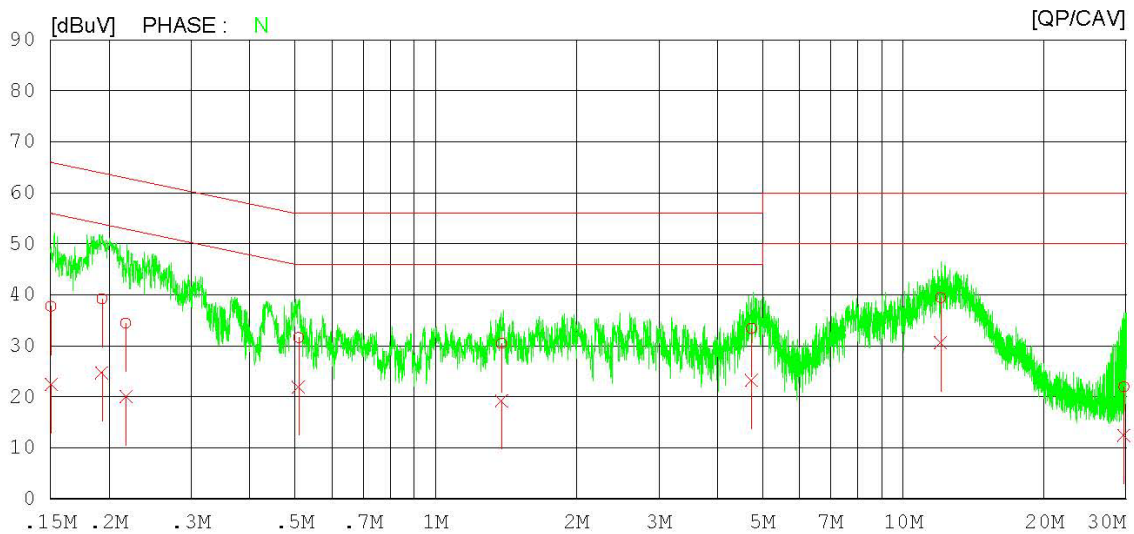
LFBT21-WCP-2018-1  
10W

Reference No.  
Power Supply  
Temp/Humi.  
Operator

120 V / 60Hz  
25 'C / 45 %  
S.G.LEE

Memo

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



**Measurement Data (5W)**

## Results of Conducted Emission

DTNC

Date 2018-09-21

|                |                   |               |              |
|----------------|-------------------|---------------|--------------|
| Order No.      |                   | Reference No. |              |
| Model No.      | LFBT21-WCP-2018-1 | Power Supply  | 120 V / 60Hz |
| Serial No.     |                   | Temp/Humi.    | 25 'C / 45 % |
| Test Condition | 10W               | Operator      | S.G.LEE      |

Memo

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

| NO | FREQ<br>[MHz] | READING      |               | C. FACTOR<br>[dB] | RESULT       |               | LIMIT        |               | MARGIN       |               | PHASE |
|----|---------------|--------------|---------------|-------------------|--------------|---------------|--------------|---------------|--------------|---------------|-------|
|    |               | QP<br>[dBuV] | CAV<br>[dBuV] |                   | QP<br>[dBuV] | CAV<br>[dBuV] | QP<br>[dBuV] | CAV<br>[dBuV] | QP<br>[dBuV] | CAV<br>[dBuV] |       |
| 1  | 0.15061       | 27.44        | 12.11         | 10.28             | 37.72        | 22.39         | 65.97        | 55.97         | 28.25        | 33.58         | N     |
| 2  | 0.19325       | 29.22        | 14.69         | 10.03             | 39.25        | 24.72         | 63.90        | 53.90         | 24.65        | 29.18         | N     |
| 3  | 0.21755       | 24.46        | 10.04         | 9.99              | 34.45        | 20.03         | 62.91        | 52.91         | 28.46        | 32.88         | N     |
| 4  | 0.50906       | 21.55        | 11.91         | 10.01             | 31.56        | 21.92         | 56.00        | 46.00         | 24.44        | 24.08         | N     |
| 5  | 1.38320       | 20.38        | 9.17          | 10.07             | 30.45        | 19.24         | 56.00        | 46.00         | 25.55        | 26.76         | N     |
| 6  | 4.73400       | 23.27        | 13.05         | 10.19             | 33.46        | 23.24         | 56.00        | 46.00         | 22.54        | 22.76         | N     |
| 7  | 12.02140      | 29.03        | 20.25         | 10.39             | 39.42        | 30.64         | 60.00        | 50.00         | 20.58        | 19.36         | N     |
| 8  | 29.65340      | 11.25        | 1.68          | 10.72             | 21.97        | 12.40         | 60.00        | 50.00         | 38.03        | 37.60         | N     |
| 9  | 0.19150       | 26.64        | 12.77         | 10.02             | 36.66        | 22.79         | 63.97        | 53.97         | 27.31        | 31.18         | L1    |
| 10 | 0.19855       | 27.79        | 14.65         | 9.98              | 37.77        | 24.63         | 63.67        | 53.67         | 25.90        | 29.04         | L1    |
| 11 | 0.36682       | 20.54        | 9.03          | 9.98              | 30.52        | 19.01         | 58.57        | 48.57         | 28.05        | 29.56         | L1    |
| 12 | 0.50699       | 21.25        | 13.81         | 9.99              | 31.24        | 23.80         | 56.00        | 46.00         | 24.76        | 22.20         | L1    |
| 13 | 4.79040       | 21.49        | 13.86         | 10.16             | 31.65        | 24.02         | 56.00        | 46.00         | 24.35        | 21.98         | L1    |
| 14 | 11.86660      | 26.77        | 18.68         | 10.34             | 37.11        | 29.02         | 60.00        | 50.00         | 22.89        | 20.98         | L1    |
| 15 | 12.27700      | 27.13        | 18.90         | 10.35             | 37.48        | 29.25         | 60.00        | 50.00         | 22.52        | 20.75         | L1    |
| 16 | 16.89420      | 17.20        | 8.16          | 10.47             | 27.67        | 18.63         | 60.00        | 50.00         | 32.33        | 31.37         | L1    |



# APPENDIX I

## TEST EQUIPMENT FOR TESTS

| Type                       | Manufacturer         | Model             | Cal.Date<br>(yy/mm/dd) | Next.Cal.Date<br>(yy/mm/dd) | S/N        |
|----------------------------|----------------------|-------------------|------------------------|-----------------------------|------------|
| Spectrum Analyzer          | Agilent Technologies | N9020A            | 17/12/28               | 18/12/28                    | MY49060056 |
| Multimeter                 | FLUKE                | 17B               | 17/12/26               | 18/12/26                    | 26030065WS |
| IN/OUT<br>Thermohygrometer | SATO                 | PC-5000TRH-II     | 18/07/18               | 19/07/18                    | N/A        |
| Thermohygrometer           | BODYCOM              | BJ5478            | 18/01/03               | 19/01/03                    | 120612-1   |
| HYGROMETER                 | TESTO                | 608-H1            | 18/02/10               | 19/02/10                    | 34862883   |
| Signal Generator           | Rohde Schwarz        | SMBV100A          | 17/12/27               | 18/12/27                    | 255571     |
| Loop Antenna               | Schwarzbeck          | FMZB1513          | 18/01/30               | 20/01/30                    | 1513-128   |
| Biglog Antenna             | Schwarzbeck          | VULB 9160         | 18/07/13               | 20/07/13                    | 3359       |
| PreAmplifier               | TSJ                  | MLA-010K01-B01-27 | 18/01/11               | 19/01/11                    | 2005354    |
| EMI TEST RECEIVER          | Rohde Schwarz        | ESC17             | 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      |
| EMI Test Receiver          | Rohde Schwarz        | ESW44             | 18/08/06               | 19/08/06                    | 101645     |
| Cable                      | DT&C                 | CABLE             | 18/07/05               | 19/07/05                    | RF-82      |
| Cable                      | HUBER+SUNNER         | SUCOFLEX          | 17/12/22               | 18/12/22                    | C-1        |
| Cable                      | HUBER+SUNNER         | SUCOFLEX          | 17/12/22               | 18/12/22                    | C-2        |
| Cable                      | HUBER+SUNNER         | SUCOFLEX          | 17/12/22               | 18/12/22                    | C-3        |
| Cable                      | HUBER+SUNNER         | SUCOFLEX          | 17/12/22               | 18/12/22                    | C-4        |