



Report No.: TW2103129E File reference No.: 2021-04-14

Applicant: Shenzhen Neewer Technology Co., Ltd

Product: 2.4GHz TRIGGER

Model No.: FC-16, VC-16, FC-16T, VC-16TX

Brand Name: NEEWER

Test Standards: FCC Part 15.249

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 Subpart C,

Paragraph 15.249 regulations for the evaluation of

electromagnetic compatibility



Dated: April 14, 2021

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com

Report No.: TW2103129E Page 2 of 36

Date: 2021-04-14



Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

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

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number: 5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

Date: 2021-04-14



Test Report Conclusion

| | Content | |
|------|------------------------------------|----|
| 1.0 | General Details | 4 |
| 1.1 | Test Lab Details | 4 |
| 1.2 | Applicant Details | 4 |
| 1.3 | Description of EUT | 4 |
| 1.4 | Submitted Sample | 4 |
| 1.5 | Test Duration | 5 |
| 1.6 | Test Uncertainty | 5 |
| 1.7 | Test By | 5 |
| 2.0 | List of Measurement Equipment | 6 |
| 3.0 | Technical Details | 7 |
| 3.1 | Summary of Test Results | 7 |
| 3.2 | Test Standards | 7 |
| 4.0 | EUT Modification | 7 |
| 5.0 | Power Line Conducted Emission Test | 8 |
| 5.1 | Schematics of the Test | 8 |
| 5.2 | Test Method and Test Procedure | 8 |
| 5.3 | Configuration of the EUT | 8 |
| 5.4 | EUT Operating Condition | 9 |
| 5.5 | Conducted Emission Limit. | 9 |
| 5.6 | Test Result | 9 |
| 6.0 | Radiated Emission test | 12 |
| 6.1 | Test Method and Test Procedure | 12 |
| 6.2 | Configuration of the EUT | 13 |
| 6.3 | EUT Operation Condition | 13 |
| 6.4 | Radiated Emission Limit | 13 |
| 6.5 | Test Result | 15 |
| 7.0 | Band Edge | 23 |
| 7.1 | Test Method and Test Procedure. | 23 |
| 7.2 | Radiated Test Setup | 23 |
| 7.3 | Configuration of the EUT | 23 |
| 7.4 | EUT Operating Condition | 23 |
| 7.5 | Band Edge Limit | 23 |
| 7.6 | Band Edge Test Result | 24 |
| 8.0 | Antenna Requirement | 28 |
| 9.0 | 20dB bandwidth measurement. | 29 |
| 10.0 | FCC ID Label | 30 |

The report refers only to the sample tested and does not apply to the bulk.

11.0

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

Photo of Test Setup and EUT View....

Report No.: TW2103129E Page 4 of 36

Date: 2021-04-14



1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.

Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le

Village, Nanshan District, Shenzhen, China

Telephone: (755) 83448688 Fax: (755) 83442996

Site on File with the Federal Communications Commission – United Sates

Registration Number: 744189 For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: Shenzhen Neewer Technology Co., Ltd

Address: ROOM 1901-1903, Block A, LU SHAN BUILDING NO.3023 CHUNFENGRD LUO HU

DISTRICT, SHENZHEN, GUANGDONG, 518001, CHINA

Telephone: --Fax: --

1.3 Description of EUT

Product: 2.4GHz TRIGGER

Manufacturer: Shenzhen Neewer Technology Co., Ltd

Address: ROOM 1901-1903, Block A, LU SHAN BUILDING NO.3023

CHUNFENGRD LUO HU DISTRICT, SHENZHEN, GUANGDONG,

518001, CHINA

Brand Name: NEEWER
Model Number: FC-16

Additional Model Name VC-16, FC-16T, VC-16TX Rating: DC3V, 2 pcs AAA batteries

Modulation Type: FSK

Operation Frequency: 2408-2474MHz

Hardware Version: V2.16 Software Version: V2.16

Antenna Designation PCB antenna with gain -2.0dBi Max (Get from the antenna specification

provided by the applicant)

1.4 Submitted Sample: 2 Sample

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

Report No.: TW2103129E Page 5 of 36

Date: 2021-04-14



1.5 Test Duration

2021-03-11 to 2021-04-14

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Conducted Emissions Uncertainty = 3.6dB

Note: The measurement uncertainty for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by

Report No.: TW2103129E Page 6 of 36

Date: 2021-04-14



| 2.0 Test Equipment | | | | | |
|--------------------|--------------|----------------------|--------------|--------------|------------|
| Instrument Type | Manufacturer | Model | Serial No. | Date of Cal. | Due Date |
| ESPI Test Receiver | R&S | ESPI 3 | 100379 | 2020-06-23 | 2021-06-22 |
| LISN | R&S | EZH3-Z5 | 100294 | 2020-06-23 | 2021-06-22 |
| LISN | R&S | EZH3-Z5 | 100253 | 2020-06-23 | 2021-06-22 |
| Impuls-Begrenzer | R&S | ESH3-Z2 | 100281 | 2020-06-23 | 2021-06-22 |
| Loop Antenna | EMCO | 6507 | 00078608 | 2018-06-25 | 2021-06-24 |
| Spectrum | R&S | FSIQ26 | 100292 | 2020-06-23 | 2021-06-22 |
| Horn Antenna | A-INFO | LB-180400-KF | J211060660 | 2020-06-23 | 2021-06-22 |
| Horn Antenna | R&S | BBHA 9120D | 9120D-631 | 2018-07-09 | 2021-07-08 |
| Power meter | Anritsu | ML2487A | 6K00003613 | 2020-06-23 | 2021-06-22 |
| Power sensor | Anritsu | MA2491A | 32263 | 2020-06-23 | 2021-06-22 |
| Bilog Antenna | Schwarebeck | VULB9163 | 9163/340 | 2018-07-04 | 2021-07-03 |
| 9*6*6 Anechoic | | | N/A | 2020-07-06 | 2021-07-05 |
| EMI Test Receiver | RS | ESVB | 826156/011 | 2020-06-23 | 2021-06-22 |
| EMI Test Receiver | RS | ESH3 | 860904/006 | 2020-06-23 | 2021-06-22 |
| Spectrum | HP/Agilent | ESA-L1500A | US37451154 | 2020-06-23 | 2021-06-22 |
| Spectrum | HP/Agilent | E4407B | MY50441392 | 2020-06-23 | 2021-06-22 |
| Spectrum | RS | FSP | 1164.4391.38 | 2021-01-16 | 2022-01-15 |
| RF Cable | Zhengdi | ZT26-NJ-NJ-8 M/FA | | 2020-06-23 | 2021-06-22 |
| RF Cable | Zhengdi | 7m | | 2020-06-23 | 2021-06-22 |
| RF Switch | EM | EMSW18 | 060391 | 2020-06-23 | 2021-06-22 |
| Pre-Amplifier | Schwarebeck | BBV9743 | #218 | 2020-06-23 | 2021-06-22 |
| Pre-Amplifier | HP/Agilent | 8449B | 3008A00160 | 2020-06-23 | 2021-06-22 |
| LISN | SCHAFFNER | NNB42 | 00012 | 2021-01-06 | 2022-01-05 |

2.2 Automation Test Software

For Conducted Emission Test

| Name | Version | | |
|--------|-------------------|--|--|
| EZ-EMC | Ver.EMC-CON 3A1.1 | | |

For Radiated Emissions

| Name | Version |
|---|---------|
| EMI Test Software BL410-EV18.91 | V18.905 |
| EMI Test Software BL410-EV18.806 High Frequency | V18.06 |

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

Report No.: TW2103129E Page 7 of 36

Date: 2021-04-14



3.0 Technical Details

3.1 Summary of test results

| The EUT has been | tastad acco | rding to the | following | enacifications |
|------------------|-------------|--------------|-------------|-----------------|
| THE LUT HAS DEEN | testeu acco | ruing to the | 10110W11112 | specifications: |

| Standard | Test Type | Result | Notes |
|---|-------------------------------------|--------|----------|
| FCC Part 15, Paragraph 15.207 | Conducted Emission Test | PASS | N/A |
| FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit | Field Strength of Fundamental | PASS | Complies |
| FCC Part 15, Paragraph 15.209 and RSS-210 | Radiated Emission Test | PASS | Complies |
| FCC Part 15 Subpart C Paragraph 15.249(d) Limit | Band Edge Test | PASS | Complies |

3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249, ANSI C63.4:2014 and ANSI C63.10:2013

4.0 EUT Modification

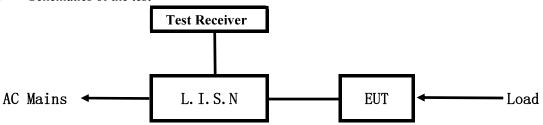
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

Date: 2021-04-14



5. Power Line Conducted Emission Test

5.1 Schematics of the test

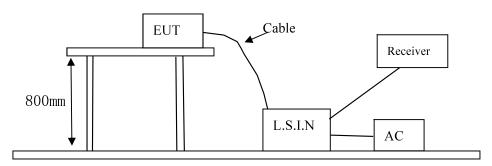


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2014.

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2014. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

One channels are provided to the EUT

A. EUT

| Device | Manufacturer | Model | FCC ID |
|----------------|-------------------------------------|----------------------------------|-------------|
| 2.4GHz TRIGGER | Shenzhen Neewer Technology Co., Ltd | FC-16, VC-16, FT-16T, VC-16TX | 2ANIV-FC-16 |

Date: 2021-04-14



Page 9 of 36

B. Internal Device

| Device | Manufacturer | Model | FCC ID/DOC |
|--------|--------------|-------|------------|
| N/A | | | |

C. Peripherals

| Device Manufacturer | | i iviaiiuiaciuici | Model | Rating |
|---------------------|-----|-------------------|-------|--------|
| | N/A | | | |

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2014

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

| Engage av (MIII) | Class B Limits (dB µ V) | | | | |
|-------------------|-------------------------|---------------|--|--|--|
| Frequency(MHz) | Quasi-peak Level | Average Level | | | |
| $0.15 \sim 0.50$ | 66.0~56.0* | 56.0~46.0* | | | |
| $0.50 \sim 5.00$ | 56.0 | 46.0 | | | |
| $5.00 \sim 30.00$ | 60.0 | 50.0 | | | |

Notes:

- 1. *Decreasing linearly with logarithm of frequency.
- 2. The tighter limit shall apply at the transition frequencies

5.6 Test Results: N/A

Note: EUT powered by AAA battery, this test item not applicable.

Date: 2021-04-14

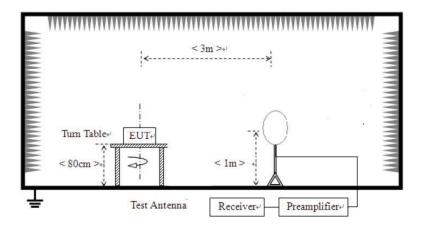


6 Radiated Emission Test

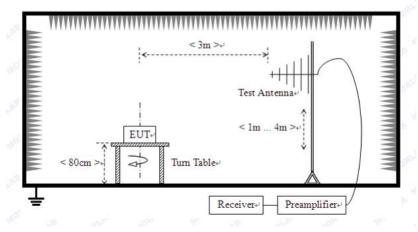
- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz (Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz). Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to1GHz



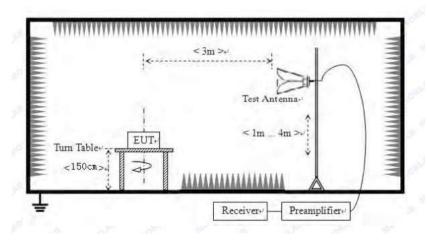
The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

Date: 2021-04-14



For radiated emissions above 1GHz



- 6.2 Configuration of The EUT
 Same as section 5.3 of this report
- 6.3 EUT Operating Condition
 Same as section 5.4 of this report.
- 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

| Fundamental Frequency | Field Strength of Fundamental (3m) | | | Field S | trength of Harmo | onics (3m) |
|-----------------------|------------------------------------|--------------|------------|---------|------------------|------------|
| (MHz) | mV/m | dBuV/m | | uV/m | dBu | V/m |
| 2400-2483.5 | 50 | 94 (Average) | 114 (Peak) | 500 | 54 (Average) | 74 (Peak) |

Note:

- 1. RF Field Strength (dBuV) = 20 log RF Voltage (uV)
- 2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- 3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

Report No.: TW2103129E Page 12 of 36

Date: 2021-04-14



B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

| | • | 8 1 |
|-----------------------|--------------|---------------------------|
| Frequency Range (MHz) | Distance (m) | Field strength (dB µ V/m) |
| 30-88 | 3 | 40.0 |
| 88-216 | 3 | 43.5 |
| 216-960 | 3 | 46.0 |
| Above 960 | 3 | 54.0 |

Note:

- 1. RF Voltage $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
- 5. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.
- 6.New battery was used during the radiated emissions test.

Report No.: TW2103129E Page 13 of 36

Date: 2021-04-14

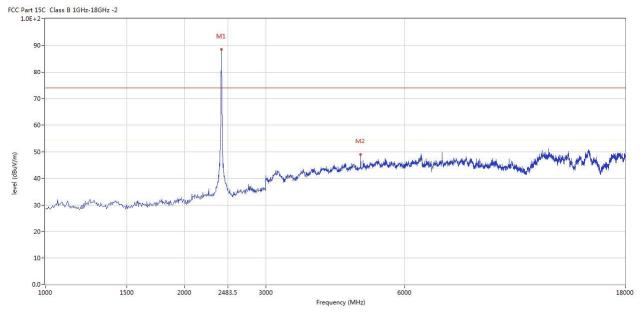


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

Please refer to the following test plots for details: Low Channel-2408MHz

Horizontal



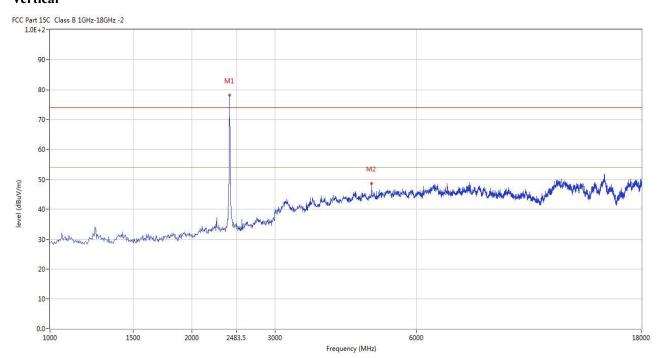
| No. | Frequency | Results | Factor | Limit | Over Limit | Detector | Table (o) | Height | ANT | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|-----------|--------|------------|---------|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dB) | | | (cm) | | |
| 1 | 2406.750 | 88.51 | -3.57 | 114.0 | -25.49 | Peak | 264.00 | 100 | Horizontal | Pass |
| 2 | 4812.250 | 49.04 | 3.13 | 74.0 | -24.96 | Peak | 338.00 | 100 | Horizontal | Pass |

Report No.: TW2103129E Page 14 of 36

Date: 2021-04-14



Vertical



| No. | Frequency | Results | Factor | Limit | Over Limit | Detector | Table (o) | Height | ANT | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|-----------|--------|----------|---------|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dB) | | | (cm) | | |
| 1 | 2406.750 | 78.12 | -3.57 | 114.0 | -35.88 | Peak | 20.00 | 100 | Vertical | Pass |
| 2 | 4816.500 | 48.49 | 3.14 | 74.0 | -25.51 | Peak | 129.00 | 100 | Vertical | Pass |

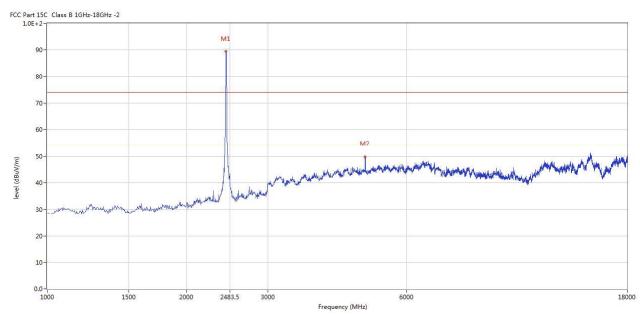
Report No.: TW2103129E Page 15 of 36

Date: 2021-04-14



Please refer to the following test plots for details: Middle Channel-2440MHz

Horizontal



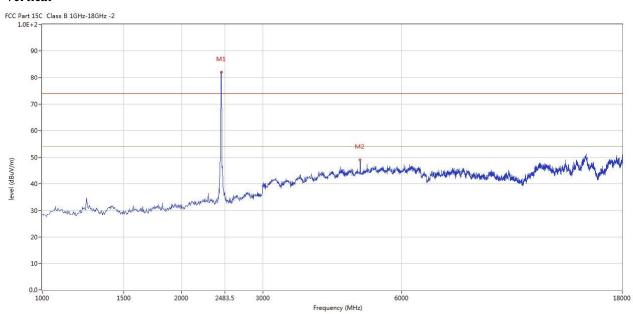
| No. | Frequency | Results | Factor | Limit | Over Limit | Detector | Table (o) | Height | ANT | Verdict |
|-----|-----------|----------|--------|----------|----------------|----------|-----------|--------|------------|---------|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dB) | | | (cm) | | |
| 1 | 2440.750 | 89.40 | -3.57 | 114.0 | - 24.60 | Peak | 85.00 | 100 | Horizontal | Pass |
| 2 | 4876.000 | 49.78 | 3.19 | 74.0 | -24.22 | Peak | 352.00 | 100 | Horizontal | Pass |

Report No.: TW2103129E Page 16 of 36

Date: 2021-04-14



Vertical



| No. | Frequency | Results | Factor | Limit | Over | Detector | Table (o) | Height | ANT | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|-----------|--------|------------------|---------|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | Limit (dB) | | | (cm) | | |
| 1 | 2440.750 | 82.04 | -3.57 | 114.0 | -31.96 | Peak | 22.00 | 100 | Vertica l | Pass |
| 2 | 4876.000 | 48.88 | 3.19 | 74.0 | -25.12 | Peak | 129.00 | 100 | Vertica l | Pass |

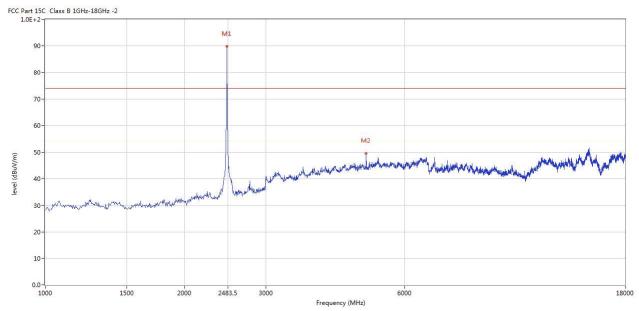
Report No.: TW2103129E Page 17 of 36

Date: 2021-04-14



Please refer to the following test plots for details: High Channel-2474MHz

Horizontal



| No. | Frequency | Results | Factor | Limit | Over Limit | Detector | Table (o) | Height | ANT | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|-----------|--------|------------|---------|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dB) | | | (cm) | | |
| 1 | 2474.750 | 89.76 | -3.57 | 114.0 | -24.24 | Peak | 271.00 | 100 | Horizontal | Pass |
| 2 | 4948.250 | 49.57 | 3.33 | 74.0 | -24.43 | Peak | 360.00 | 100 | Horizontal | Pass |

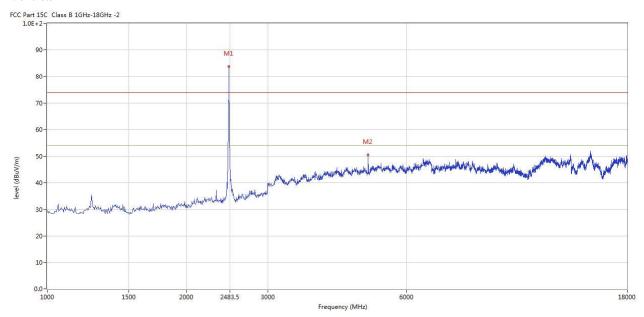
Page 18 of 36

Report No.: TW2103129E

Date: 2021-04-14



Vertical



| No. | Frequency | Results | Factor | Limit | Over Limit | Detector | Table (o) | Height | ANT | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|-----------|--------|------------------|---------|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dB) | | | (cm) | | |
| 1 | 2474.750 | 83.72 | -3.57 | 114.0 | -30.28 | Peak | 22.00 | 100 | Vertica l | Pass |
| 2 | 4948.250 | 50.50 | 3.33 | 74.0 | -23.50 | Peak | 122.00 | 100 | Vertica l | Pass |

Note: (2) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

- (3)Margin=Emission-Limits
- (4)According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (5) For test purpose, keep EUT continuous transmitting
- (5) For emission above 18GHz and Below 30MHz, It is only the floor noise. No necessary to take down.
- (6) the measured PK value less than the AV limit.

Report No.: TW2103129E Page 19 of 36

Date: 2021-04-14

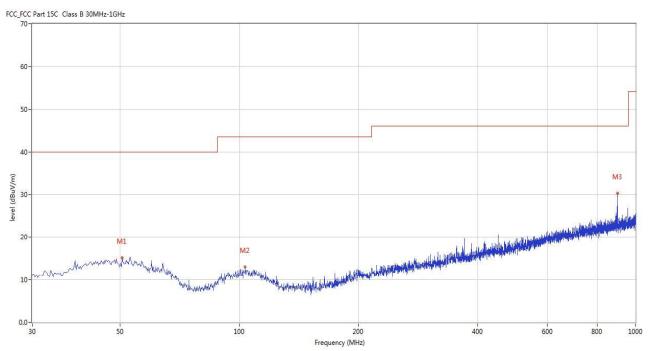


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



| No. | Frequency | Results | Factor | Limit | Over Limit | Detector | Table (o) | Height | ANT | Verdict |
|-----|-----------|----------|----------------|----------|------------|----------|-----------|--------|------------|---------|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dB) | | | (cm) | | |
| 1 | 50.607 | 15.21 | -11.39 | 40.0 | -24.79 | Peak | 203.00 | 100 | Horizontal | Pass |
| 2 | 103.459 | 13.03 | - 13.36 | 43.5 | -30.47 | Peak | 59.00 | 100 | Horizontal | Pass |
| 3 | 900.115 | 30.27 | -1.86 | 46.0 | -15.73 | Peak | 191.00 | 100 | Horizontal | Pass |

Report No.: TW2103129E Page 20 of 36

Date: 2021-04-14

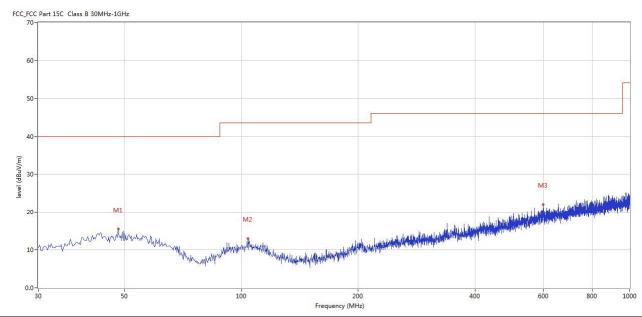


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



| No. | Frequency | Results | Factor | Limit | Over Limit | Detector | Table (o) | Height | ANT | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|-----------|--------|----------|---------|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dB) | | | (cm) | | |
| 1 | 48.183 | 15.56 | -11.26 | 40.0 | -24.44 | Peak | 360.00 | 100 | Vertical | Pass |
| 2 | 103.944 | 13.02 | -13.33 | 43.5 | -30.48 | Peak | 360.00 | 100 | Vertical | Pass |
| 3 | 599.248 | 22.00 | -5.04 | 46.0 | -24.00 | Peak | 357.00 | 100 | Vertical | Pass |

Date: 2021-04-14

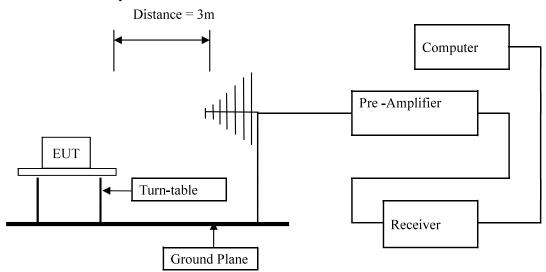


7. Band Edge

7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) Set Spectrum as RBW=1MHz, VBW=3MHz and Peak detector used for PK value. RBW=1MHz, VBW=10Hz and Peak detector used for AV value.
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

7. 2 Radiated Test Setup



For the actual test configuration, please refer to the related items – Photos of Testing

7.3 Configuration of The EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

7.5 Band Edge Limit

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

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

Report No.: TW2103129E Page 22 of 36

Date: 2021-04-14



7.6 Test Result

| Product: | 2.4GHz TRIGGER | Polarity | Horizontal |
|--------------|----------------------|--------------|------------|
| Mode | Keeping Transmitting | Test Voltage | DC3.0V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | | - |



| 1. | | | | | | | | | | | |
|----|-----|-----------|----------|--------|----------|----------------|----------|--------------------|--------|------------|---------|
| | No. | Frequency | Results | Factor | Limit | Over Limit | Detector | Tab l e (o) | Height | ANT | Verdict |
| | | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dB) | | | (cm) | | |
| | 2 | 2400.030 | 45.84 | -3.57 | 74.0 | - 28.16 | Peak | 272.00 | 100 | Horizontal | Pass |
| | 3 | 2390.048 | 42.78 | -3.53 | 74.0 | - 31.22 | Peak | 272.00 | 100 | Horizontal | Pass |

Page 23 of 36

Report No.: TW2103129E

Date: 2021-04-14

2390.063

3

37.97

-3.53

74.0



| F | Product: | | 2.4GHz | z TRIGGE | R | Detecto | or | | Vertical | |
|--|-----------------------------|---|---------------------------------------|-------------------------------------|--|--|--|-------------|-----------------|-----------------|
| | Mode | | Keeping | Transmitti | ing | Test Volta | age |] | DC3.0V | |
| Te | mperature | | 24 | deg. C, | | Humidit | ty | 4 | 56% RH | |
| Те | st Result: | | | Pass | | | | | | |
| C Part 1 1.0E+2 | 5C Class B 1GHz-18GHz 2- | r -2 | | | | | | | | - |
| 90 | 0- | | | | | | | | | |
| 80 | 0- | | | | | | | | | |
| 70 | 0- | | | | | | | | | |
| 60 | 1 | | | | | | | | | |
| | - | | | | | | | | 1 | |
| | | | | | | | | | Long | |
| | 0- | | | | alla totanika . | | | W | Line | V. |
| |) | hada saltaman kan ngara Manik Hala kan ngar | i detallisatulpuk systemises kusik l | kind ge distribution of an addition | man samuel and the sa | na de la constitución de la cons | | V | Ling | Andrews . |
| (m/\ngp) 40 | D | hadi, seba-amada sergir, terak elekak bera | الغراء ويودون بالميلوالية | kini <u>n</u> direktin nenede | managar principal de la caractería de la c | n de production de de la companya del la companya de la companya d | | | Long | Manyamenas |
| (W/\ngp) 40 | D | hadisə kirin qərə sirə də dirilə kiral | للغوريد ومورد والمطاولة الموادية | kind ye dirinikler, a ferezakin | personal principal de la companya de | na provincia de la companya de la co | The state of the s | | - Comment | Mayorman |
| (E) 50 (A) | | hadisələrin med savraptı, Atrik Arab gred | usekkad dja k spiegrad i sokil | kingg direktildingen erlek | Market State of the State of th | and the state of t | | | and the same of | Many provide |
| (E) 50 (A) | | hada alkamana kaangka Afrik Afrik pad | ezink Marik digirik saperana (isak M | kingga, dahasiyldiri ayan cafabi | Frequency (MHz | | | | And the same of | 2420 |
| (E) 50 (apr) | | Results | | Limit | engr | 2) | Table (o) | Height | ANT | ((62)039) |
| (E) 50 (E) 70 (E) 70 | 0 | 7800-880-990 | Factor | | Frequency (MH: | 2) | Table (o) | Height (cm) | ANT | 2420 Verdict |

-36.03

Peak

100

54.00

Vertical

Pass

Page 24 of 36

Report No.: TW2103129E

Date: 2021-04-14



| Product: | 2 | 2.4GHz TRIGGEF | 2 | Polarit | У | - | Horizontal | |
|--|--|--------------------------|---------------------------|------------|--|--|--|--|
| Mode | Ke | eeping Transmitti | ng | Test Volta | age | | DC3.0V | |
| Temperature | | 24 deg. C, | | Humidi | ty | | 56% RH | |
| Test Result: | | Pass | | | | | | |
| CC Part 15C Class B 1GHz-18G 1.0E+2- | z -2 | | | | | | | |
| 90 - 80 - 70 - | | | | | | | | |
| 60 - 50 - 60 - 60 - 60 - 60 - 60 - 60 - | Complete Andrews | | A consequence of the same | | new Programme de de la constant minima de la constant minima de la constant minima de la constant minima de la | Marie and the second page page page page page page page page | Mary and and the second and the | ************************************** |
| 50 - de | Complete parties of the control of t | | Andrew Commence of the | | and the second s | Marie and the consequence of the latter of t | all factor of the second secon | - warmang sapple of the |
| ((E)(N)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1) | Hampling April 1997 | | Frequency (MHz | 2483.5 | and the second s | ************************************** | all factor of the factor of th | 2500 |
| 30- 20- 10- 2460 | Results Fa | actor Limit | | 2483.5 | Table (o) | Height | ANT | 2500 Verdict |
| 30- 20- 20- 2460 | | actor Limit dB) (dBuV/m) | Frequency (MHz | 2483.5 | Table (o) | Height (cm) | ANT | |

Page 25 of 36

Report No.: TW2103129E

Date: 2021-04-14



| P | roduct: | | 2.4GH | Iz TRIGGE | R | Detec | tor | | Vertical | |
|--|----------------------|--|-------------|-------------------|--|-------------------------|---|---|--|--|
| Mode Temperature | | Keeping Transmitting 24 deg. C, | | | Test Vo | Test Voltage | | DC3.0V | | |
| | | | | | Humidity | | 56% RH | | | |
| Tes | st Result: | | | Pass | | | | | | |
| Part 15 | C Class B 1GHz-18GHz | -2 | | | | | | | | |
| 90- 80- 70- | | | | | | | | | | |
| 60· 50· 40· 30· 20· | | eganosation of the second | | | Water and the same of the same | which the second second | white the same of | Particular description of the second | the supplied of the supplied o | the special property of the sp |
| 30- 20- 10- | | granetisteren de de la companya de l | | | | 2483.5 | | o'mindadea, Lillan, ggganinisiyla | to any he sould be some a standard about the soul a | 2500 |
| 30- 20- 10- | | Translation of the Control of the Co | | | Frequency (Mi | 2483.5 | | oʻrminakalan ildə oygan qalqida | the stand of the standard of t | 2500 |
| 30- 20- 10- | | Results | Factor | Limit | | 2483.5 | Table (o) | Height | ANT | 111000000 |
| 50· 40· 30· 20· 10· 0.0· 21· | 460 | | Factor (dB) | Limit (dBuV/m) | Frequency (Mi | 2483.5 2483.5 | | | | 2500 |

Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.

2. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.