

CENTRE OF TESTING SERVICE INTERNATIONAL

OPERATE ACCORDING TO ISO/IEC 17025

FCC ID TEST REPORT

TEST REPORT NUMBER: CGZ3170322-00391-EF



CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China







| | TEST REPORT For FCC ID | | |
|---|---|--|--|
| 47 CFR PART 15 OCT, 2016 | | | |
| Report Reference No | CGZ3170322-00391-EF | | |
| Date of issue | . 10 April 2017 | | |
| Testing Laboratory Name | CENTRE OF TESTING SERVICE CO., LTD. | | |
| Address | A101, No.65, Zhuji Highway,Tianhe District, Guangzhou, China | | |
| Testing location/ procedure | Full application of Harmonised standards ■ | | |
| | Partial application of Harmonised standards \square | | |
| | Other standard testing method \square | | |
| Applicant's name | IOTEAM S.r.I. | | |
| Address | Via Colzani 48 - I-20831 Seregno MB-Italy | | |
| Test specification | | | |
| Standard | 47 CFR PART 15 OCT, 2016 | | |
| Test Report Form No | . CTSEMC-1.0 | | |
| TRF Originator | CENTRE OF TESTING SERVICE CO., LTD. | | |
| Master TRF | Dated 2009-01 | | |
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| Test item description | DUSTY | | |
| Trade Mark | IOTEAM | | |
| Manufacturer | IOTEAM S.r.I. | | |
| Model/Type reference | Rev.B | | |
| Ratings | DC 3.3V, 50 μ A to 10mA | | |
| Operating Frequency | 2405.0 MHz~2475.0 MHz | | |
| Result | Positive | | |

10-4

Compiled by:

Supervised by:

Approved by:

Kate zhang / Fileadministrators

Duke yang / Technique principal

Vincent yao / Manager

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FCCID -- TEST REPORT

| Test Report No. : | CGZ3170322-00391-EF | 10 April 2017 Date of issue |
|-------------------|---------------------|--------------------------------|
| | | |

| Type / Model | Rev.B |
|--------------|---|
| | DUOTY |
| EUT | DUSTY |
| Applicant | IOTEAM S.r.I. |
| Address | Via Colzani 48 - I-20831 Seregno MB-Italy |
| Telephone | +39-3282297500 |
| Fax | 1 |
| Contact | Silvia |
| | |
| Manufacturer | IOTEAM S.r.I. |
| Address | Via Colzani 48 - I-20831 Seregno MB-Italy |
| Telephone | +39-3282297500 |
| Fax | 1 |
| Contact | Silvia |
| | |
| Factory | 1 |
| Address | 1 |
| Telephone | 1 |
| Fax | 1 |
| Contact | 1 |

Test Result according to the standards on page 1: PASSED

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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TABLE OF CONTENTS

| <u>Description</u> | Page |
|--|------|
| 1.0 TEST STANDARDS | 5 |
| 2.0 SUMMARY | 5 |
| | |
| 2.1 GENERAL REMARKS | |
| 2.2 FINAL ASSESSMENT | 5 |
| 3.0 EQUIPMENT UNDER TEST | 5 |
| 3.1 Power Supply System utilised | 5 |
| 3.2 SHORT DESCRIPTION OF THE EQUIPMENT UNDER TEST (EUT) | 5 |
| 3.3 EUT OPERATION MODE | |
| 3.4 EUT CONFIGURATION | 6 |
| 4.0 TEST ENVIRONMENT | 7 |
| 4.1 Address of the test laboratory | 7 |
| 4.2 TEST FACILITY | |
| 4.3 Environmental conditions | |
| 4.4 DEFINITIONS OF SYMBOLS USED IN THIS TEST REPORT | |
| 4.5 STATEMENT OF THE MEASUREMENT UNCERTAINTY | |
| 4.6 MEASUREMENT UNCERTAINTY | 8 |
| 5.0 SUMMARY OF STANDARDS AND RESULTS | 8 |
| 5.1.DESCRIPTION OF STANDARDS AND RESULTS | 8 |
| 6.0 POWER LINE CONDUCTED EMISSION TEST | 9 |
| 6.1.Test Equipment | g |
| 6.2. BLOCK DIAGRAM OF TEST SETUP | |
| 6.3. POWER LINE CONDUCTED EMISSION TEST LIMITS | 9 |
| 6.4.Test Procedure | |
| 6.5. POWER LINE CONDUCTED EMISSION TEST RESULTS | 9 |
| 7.0 6DB BANDWIDTH MEASUREMENT | 12 |
| 7.1 LIMITS | 12 |
| 7.2 MEASUREMENT EQUIPMENT USED | 12 |
| 7.3 TEST CONFIGURATION | 12 |
| 7.4 TEST PROCEDURE | |
| 7.5 TEST RESULTS | 12 |
| 8.0 PEAK POWER | 15 |
| 8.1 LIMIT | 15 |
| 8.2 MEASUREMENT EQUIPMENT USED | |
| 8.3 TEST CONDIGURATION | 15 |
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| 8.4 TEST PROCEDURE | 16 |
|--|----|
| 8.5 TEST RESULTS | 16 |
| 9.0 PEAK POWER SPECTRAL DENSITY | 19 |
| 0.41 IMIT | 40 |
| 9.1 LIMIT | 18 |
| 9.2 MEASUREMENT EQUIPMENT USED | |
| 9.3 TEST CONFIGURATION | |
| 9.4 TEST PROCEDURE | |
| 9.5 TEST RESULTS | 19 |
| 10.0 BAND EDGES MEASUREMENT | 23 |
| | |
| 10.1 LIMIT | 23 |
| 10.2 MEASUREMENT EQUIPMENT USED | 23 |
| 10.3 TEST CONFIGURATION | 23 |
| 10.4 TEST PROCEDURE | 23 |
| 10.5 TEST RESULTS | |
| 11.0 SPURIOUS EMISSIONS | 26 |
| 11.1 LIMIT | 26 |
| 11.2 Test Equipment | |
| 11.3 TEST CONFIGURATION | |
| 11.4 TEST PROCEDURE | |
| 11.5 TEST RESULTS | |
| 1.10 1201 N200210 | |
| 12.0 ANTENNA REQUIREMENTS | 42 |
| 12.1 STANDARD APPLICABLE | 42 |
| 12.2 ANTENNA CONSTRUCTION AND DIRECTIONAL GAIN | |
| 12.2 ARTERIA CONSTRUCTION AND DIRECTIONAL CAIR | |
| 13.0 DEVIATION TO TEST SPECIFICATIONS | 42 |

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1.0 TEST STANDARDS

The tests were performed according to following standards:

- 47 CFR PART 15 OCT, 2016
- ■ANSI C63.10:2013

2.0 SUMMARY

2.1 GENERAL REMARKS

| Date of receipt of test sample | 22 March 2017 |
|--------------------------------|--------------------------|
| | |
| Testing commenced on | 22 March ~ 10 April 2017 |
| | · |
| Testing concluded on | 10 April 2017 |

2.2 FINAL ASSESSMENT

The FCC requirements pertaining to the technical standards and tested operation modes are

fulfilled.

□ - **not** fulfilled.

The equipment under test

- fulfils the FCC requirements cited on page 1.
 - does not fulfil the FCC requirements cited on page 1.

3.0 EQUIPMENT UNDER TEST

3.1 Power supply system utilised

Power supply voltage : ■ DC 3.3V by Jig;

Jig DC 5V by Notebook

3.2 Short description of the Equipment under Test (EUT)

Number of tested samples: 1

Serial number: Prototype

3.3 EUT operation mode

The equipment under test was operated during the measurement under the following conditions:

- ☐ Standby
- ☐ TX- Y position
- ☐ TX- Zposition
- TX- X position

GFSK: TX-X Position Low (2405.0 MHz)

TX-X Position Middle (2440.0 MHz) TX-X Position High (2475.0 MHz)

Note:Operation mode TX -X position of EUT is the radiated test worst case. So only these test results be recorded in the test report.

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3.4 EUT configuration

3.4.1. Description of configuration (EUT)

| Description | : | DUSTY |
|-----------------------|---|------------------------|
| Model Number | : | Rev.B |
| Operation frequency | | 2405.0 MHZ~2475.0 MHz |
| Modulation Technology | : | GFSK (IEEE-802.15.4) |
| Antenna 1 | | PCB Antenna, 0dBi |
| Antenna 2 | | External Antenna, 2dBi |

3.4.2. Tested Supporting System Details

3.4.1. Notebook

| M/N | : | F83VF |
|--------------|---|--------------------------------------|
| S/N | : | N/A |
| Manufacturer | | ASUS |
| Power Cord | : | Unshielded, Detachabled, 1.5m , 3Pin |
| FCC | • | ID |

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Report No.: CGZ3170322-00391-EF Page 6 of 42





4.0 TEST ENVIRONMENT

4.1 Address of the test laboratory

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Fax: +86-20-38780406

4.2 Test facility

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

CNAS-Lab Code: L3394

CENTRE OF TESTING SERVICE CO., LTD has been assessed and proved to be in compliance with CNAS-CL01: 2006 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

IC-Registration No.: 8374A

The 3m Alternate Test Site of CENTRE OF TESTING SERVICE CO., LTD has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 8374A on May 22, 2014.

FCC-Registration No.: 971995

CENTRE OF TESTING SERVICE CO., LTD, EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration No.791995, July 13,2012.

4.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

| Temperature: | 15~35 ° C |
|-----------------------|------------|
| | |
| Humidity: | 25~75 % |
| | |
| Atmospheric pressure: | 86~106 kPa |

4.4 Definitions of symbols used in this test report

- The black square indicates that the listed condition, standard or equipment is applicable for this report.
- The empty square indicates that the listed condition, standard or equipment is **not** applicable for this report.

4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the CTS quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

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Report No.: CGZ3170322-00391-EF Page 7 of 42







4.6 Measurement Uncertainty

| Test Item | Frequency Range | Uncertainty | Note |
|--------------------------------|-----------------|-------------|------|
| Conduction disturbance | 150kHz~30MHz | ±1.22dB | (1) |
| Power disturbance 30MHz~300MHz | | ±1.38dB | (1) |
| | 30MHz~300MHz | ±3.14dB | (1) |
| Radiation emission (3m) | 300MHz~1000MHz | ±3.18dB | (1) |
| | 1GHz~26.5GHz | ±3.54dB | (1) |

^{(1).} This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

5.0 Summary of standards and results

5.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

| EMISSION | | | |
|--|--|---------|--|
| Description of Test Item | Standard | Results | |
| Conducted Emission Test | FCC Part 15 : 15.207 ANSI C63.10:2013 | PASSED | |
| 6dB Bandwidth Measurement | FCC Part 15.247(a)(2) ANSI C63.10:2013 | PASSED | |
| Peak Power | FCC Part 15.247(b)(3)(4) ANSI C63.10:2013 | PASSED | |
| Peak Power Spectral Density | 15.247(e) Power Density ANSI C63.10:2013 | PASSED | |
| Band edges measurement | FCC Part 15.247(d) ANSI C63.10:2013 | PASSED | |
| Spurious Emissions | FCC Part 15: 15.209 ANSI C63.10:2013 | PASSED | |
| Antenna Requirements | FCC Part 15: 15.203 ANSI C63.10:2013 | PASSED | |
| N/A is an abbreviation for Not Applicable. | | | |

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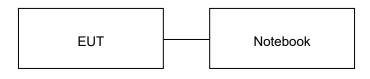


6.0 Power Line Conducted Emission Test

6.1.Test Equipment

| Conduc | Conducted Disturbance | | | | | | | | |
|--------|-----------------------|-----------------|-----------|------------|-----------|--|--|--|--|
| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | | | | |
| 1 | EMI Test Receiver | ROHDE & SCHWARZ | ESHS10 | 842884/012 | 2016/11 | | | | |
| 2 | Artificial Mains | ROHDE & SCHWARZ | ESH3-Z5 | 832479/025 | 2016/11 | | | | |
| 3 | Artificial Mains | ROHDE & SCHWARZ | ESH3-Z5 | 832479/026 | 2016/11 | | | | |
| 4 | Pulse Limiter | ROHDE & SCHWARZ | ESHSZ2 | 100301 | 2016/11 | | | | |
| 5 | EMI Test Software | EZ-EMC | Farad | N/A | N/A | | | | |

6.2. Block Diagram of Test Setup



(EUT: DUSTY)

6.3. Power Line Conducted Emission Test Limits

Standard: FCC Part 15: 15.207, ANSI C63.10-2013

| Γ | | | Maximum RF Line Voltage | | | |
|---|-----------|----------|-------------------------|---------------|--|--|
| | Frequency | | Quasi-Peak Level | Average Level | | |
| | | | dB(μV) | dB(μV) | | |
| | 150kHz | ~ 500kHz | 66 ~ 56* | 56 ~ 46* | | |
| | 500kHz | ~ 5MHz | 56 | 46 | | |
| | 5MHz | ~ 30MHz | 60 | 50 | | |

Notes: 1. * Decreasing linearly with logarithm of frequency.

6.4.Test Procedure

The Notebook Power connected to the power mains through a line impedance stabilization network (L.I.S.N.#2). This provides a 50 ohm coupling impedance for the EUT. Please refer the block diagram of the test setup and photographs. The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#1). Power on the PC and let it work normally, we use a keyboard test soft ware, let EUT working in test mode, then test it. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC Part 15C on Conducted Emission Test.

6.5. Power Line Conducted Emission Test Results

PASSED.

The frequency range from 150KHz~30MHz is investigated. Please see the following pages.

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Report No.: CGZ3170322-00391-EF Page 9 of 42

^{2.} The lower limit shall apply at the transition frequencies.

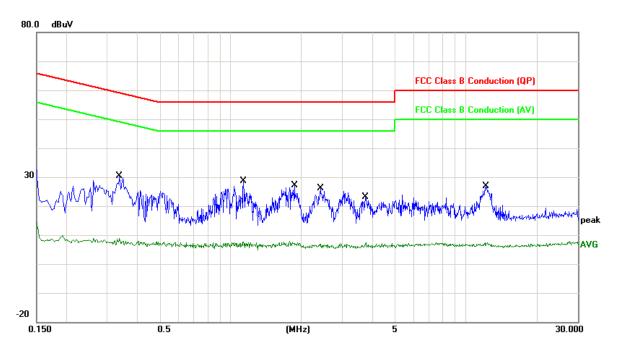






| Test point: | L | Result: | ■ - passed |
|------------------|---------------|---------|------------------------|
| Frequency range: | 0.15MHz~30MHz | | \square - not passed |

| EUT | DUSTY |
|---------------------|---|
| Operating Condition | TX |
| Test Condition | Ambient Temperature: 25°C Humidity: 56% |
| Test Date: | 22 March ~ 10 April 2017 |
| Operator | Duke |
| MODEL NO | Rev.B |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|---------|--------------------|----------------|-------------------|-------------------|-------------------|----------------|------|
| 1 | 0.3380 | 10.20 | 17.50 | 27.70 | 59.25 | -31.55 | QP |
| 2 | 0.3380 | 10.20 | -1.14 | 9.06 | 49.25 | -40.19 | AVG |
| 3 | 1.1380 | 10.32 | 5.98 | 16.30 | 56.00 | -39.70 | QP |
| 4 | 1.1380 | 10.32 | -3.73 | 6.59 | 46.00 | -39.41 | AVG |
| 5 | 1.8700 | 10.40 | 6.67 | 17.07 | 56.00 | -38.93 | QP |
| 6 | 1.8700 | 10.40 | -3.79 | 6.61 | 46.00 | -39.39 | AVG |
| 7 | 2.4140 | 10.46 | 6.35 | 16.81 | 56.00 | -39.19 | QP |
| 8 | 2.4140 | 10.46 | -4.56 | 5.90 | 46.00 | -40.10 | AVG |
| 9 | 3.7460 | 10.60 | 3.46 | 14.06 | 56.00 | -41.94 | QP |
| 10 | 3.7460 | 10.60 | -4.89 | 5.71 | 46.00 | -40.29 | AVG |
| 11 | 12.2340 | 11.20 | 5.43 | 16.63 | 60.00 | -43.37 | QP |
| 12 | 12.2340 | 11.20 | -5.26 | 5.94 | 50.00 | -44.06 | AVG |
| Remark: | : Other frequen | icy mini ma | rgin all >6 dB | of Limit | | • | |

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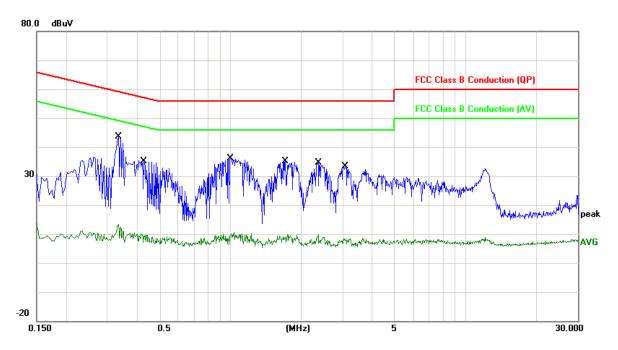
Report No.: CGZ3170322-00391-EF







Test point: N Result: ■ - passed □ - not passed



| No. | Frequency | Factor | Reading | Level | Limit | Margin | Det. |
|---------|---------------|-------------|----------------|----------|----------|--------|------|
| | (MHz) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 0.3340 | 10.31 | 26.49 | 36.80 | 59.35 | -22.55 | QP |
| 2 | 0.3340 | 10.31 | 1.92 | 12.23 | 49.35 | -37.12 | AVG |
| 3 | 0.4300 | 10.31 | 15.79 | 26.10 | 57.25 | -31.15 | QP |
| 4 | 0.4300 | 10.31 | -2.15 | 8.16 | 47.25 | -39.09 | AVG |
| 5 | 1.0020 | 10.43 | 16.49 | 26.92 | 56.00 | -29.08 | QP |
| 6 | 1.0020 | 10.43 | -2.29 | 8.14 | 46.00 | -37.86 | AVG |
| 7 | 1.7140 | 10.49 | 15.02 | 25.51 | 56.00 | -30.49 | QP |
| 8 | 1.7140 | 10.49 | -2.81 | 7.68 | 46.00 | -38.32 | AVG |
| 9 | 2.3700 | 10.55 | 14.79 | 25.34 | 56.00 | -30.66 | QP |
| 10 | 2.3700 | 10.55 | -3.59 | 6.96 | 46.00 | -39.04 | AVG |
| 11 | 3.0780 | 10.61 | 13.47 | 24.08 | 56.00 | -31.92 | QP |
| 12 | 3.0780 | 10.61 | -3.84 | 6.77 | 46.00 | -39.23 | AVG |
| Remark: | Other frequen | icy mini ma | rgin all >6 dB | of Limit | | | • |

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Page 11 of 42

Report No.: CGZ3170322-00391-EF





7.0 6dB BANDWIDTH MEASUREMENT

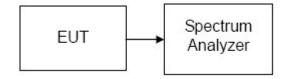
7.1 LIMITS

According to §15.247(a)(2), systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

7.2 MEASUREMENT EQUIPMENT USED

| 6dB Bandwidth | | | | | | | |
|---------------|-----------------|-----------------|-----------|------------|-----------|--|--|
| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | | |
| 1 | Signal analyzer | ROHDE & SCHWARZ | FSIQ26 | 100311 | 2017/03 | | |

7.3 TEST CONFIGURATION



7.4 TEST PROCEDURE

- 1. Place the EUT on the table and set it in the transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as RBW = 100kHz, VBW = 300kHz, Span =1.5 times of bandwidth, Sweep = auto.
- 4. Mark the peak frequency and -6dB (upper and lower) frequency.
- 5. Repeat until all the rest channels are investigated

7.5 TEST RESULTS

| Modulation Standard | Channel | Frequency (MHz) | Bandwidth (MHz) | Limit (KHz) | Result |
|---------------------|---------|--------------------|--------------------|----------------|--------|
| | Low | 2405 | 1.57 | | PASSED |
| GFSK | Middle | 2440 | 1.57 | >500 | PASSED |
| | High | 2475 | 1.61 | | PASSED |

Remark: The Bandwidth is Delta 2 of following the graph. And the Delta 2 is Marker 2 subtract Marker 1.

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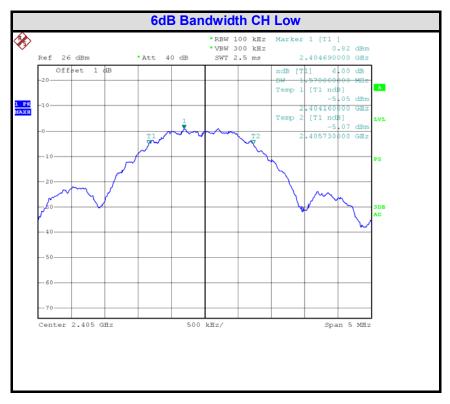
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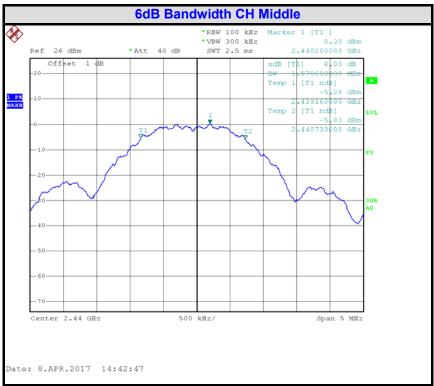
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Test Plot





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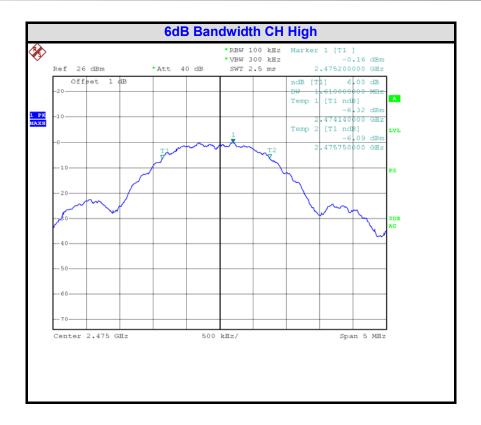
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8.0 PEAK POWER

8.1 LIMIT

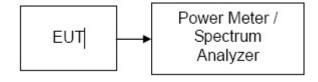
The maximum peak output power of the intentional radiator shall not exceed the following:

- 1. According to §15.247(b)(3), for systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz: 1 Watt.
- 2. According to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

8.2 MEASUREMENT EQUIPMENT USED

| Peak Power | | | | | | | | |
|------------|-----------------|-----------------|-----------|------------|-----------|--|--|--|
| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | | | |
| 1 | Signal analyzer | ROHDE & SCHWARZ | FSIQ26 | 100311 | 2017/03 | | | |
| 2 | Power meter | ROHDE & SCHWARZ | NRVS | 842856/049 | 2017/03 | | | |

8.3 TEST CONDIGURATION



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Report No.: CGZ3170322-00391-EF Page 15 of 42





8.4 TEST PROCEDURE

- 1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2. Set RBW = 1MHz.
- 3. Set VBW ≥ 3MHz.
- 4. Use sample detector mode if bin width (i.e., span/number of points in spectrum display) < 0.5 RBW. Otherwise use peak detector mode.
- 5. Use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at full control power for entire sweep of every sweep. If the device transmits continuously, with no off intervals or reduced power Intervals, the trigger may be set to "free run".
- 6. Trace average 100 traces in power averaging mode.
- 7. Compute power by integrating the spectrum across the 26 dB EBW of the signal. The integration can be performed using the spectrum analyzer's band power measurement function with band limits set equal to the EBW band edges or by summing power levels in each 1 MHz band in linear power terms. The 1 MHz band power levels to be summed can be obtained by averaging, in linear power terms, power levels in each frequency bin across the 1 MHz.

8.5 TEST RESULTS

Passed Test Data

| Modulation Standard | Channel | Frequency (MHz) | Output Power (dBm) | Limit (dBm) | Result |
|------------------------|---------|--------------------|-----------------------|----------------|--------|
| | Low | 2405 | 6.31 | | PASSED |
| GFSK | Middle | 2440 | 5.61 | 30dBm | PASSED |
| | High | 2475 | 5.40 | | PASSED |

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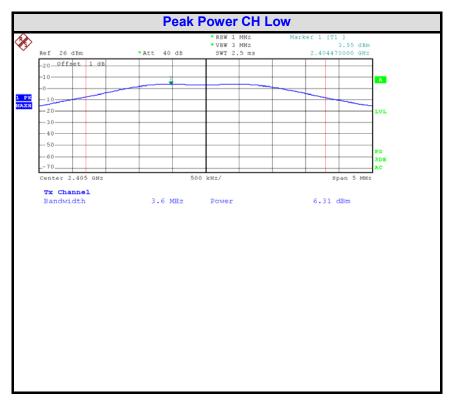
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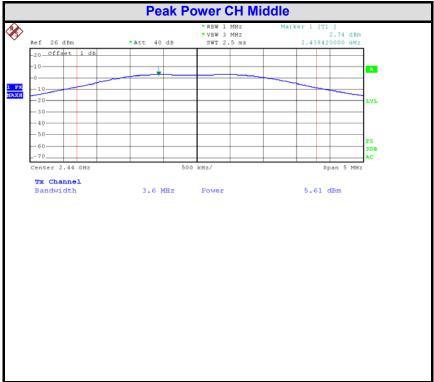
Report No.: CGZ3170322-00391-EF Page 16 of 42





Test Plot





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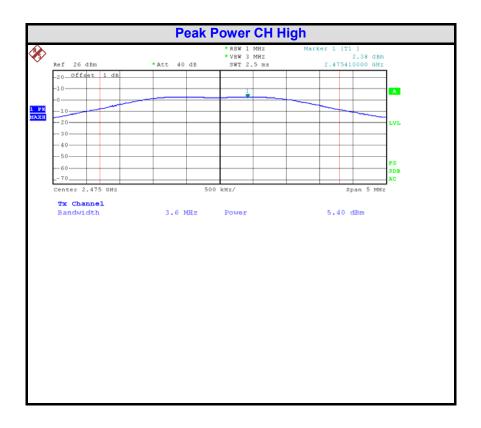
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9.0 PEAK POWER SPECTRAL DENSITY

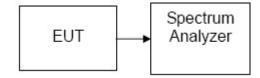
9.1 LIMIT

- 1. For direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.
- 2. The direct sequence operating of the hybrid system, with the frequency hopping operation turned off, shall comply with the power density requirements of paragraph (d) of this section

9.2 MEASUREMENT EQUIPMENT USED

| Peak Power Spectral Density | | | | | | | |
|-----------------------------|--|-----------------|--------|--------|---------|--|--|
| Item | m Test Equipment Manufacturer Model No. Serial No. Last Cal. | | | | | | |
| 1 | Signal analyzer | ROHDE & SCHWARZ | FSIQ26 | 100311 | 2017/03 | | |

9.3 TEST CONFIGURATION



9.4 TEST PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as RBW = 3kHz, VBW = 10kHz, Span = 1.5 times the bandwidth, Sweep=Auto couple
- 4. Record the max. reading.
- 5. Repeat the above procedure until the measurements for all frequencies are completed.

9.5 TEST RESULTS

PASSED

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Report No.: CGZ3170322-00391-EF Page 19 of 42

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Test Data

| Modulation Standard | Channel | Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Result |
|------------------------|---------|--------------------|---------------|----------------|--------|
| GFSK | Low | 2405 | -8.25 | 8 | PASSED |
| | Middle | 2440 | -9.13 | | PASSED |
| | High | 2475 | -9.43 | | PASSED |

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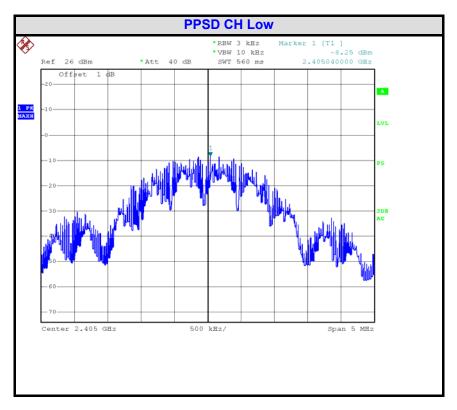
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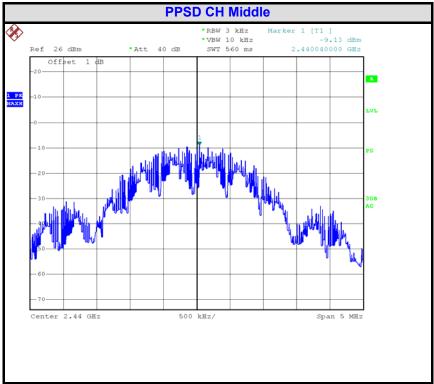
Report No.: CGZ3170322-00391-EF Page 20 of 42





Test Plot





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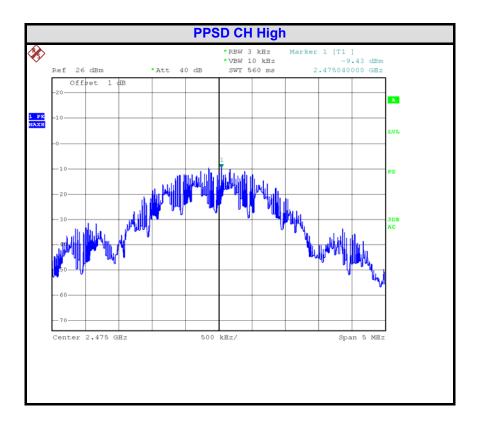
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10.0 BAND EDGES MEASUREMENT

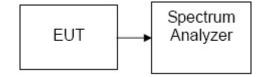
10.1 LIMIT

According to §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c)).

10.2 MEASUREMENT EQUIPMENT USED

| Radia | Radiated disturbance (electric field) | | | | | | | | |
|-------|--|-----------------|--------|--------|---------|--|--|--|--|
| Item | tem Test Equipment Manufacturer Model No. Serial No. Last Cal. | | | | | | | | |
| 1 | Signal analyzer | ROHDE & SCHWARZ | FSIQ26 | 100311 | 2017/03 | | | | |

10.3 Test Configuration



10.4 TEST PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as RBW = 100kHz, VBW = 300kHz, Sweep=Auto couple
- 4. Record the max. reading.
- 5. Repeat the above procedure until the measurements for all frequencies are

10.5 TEST RESULTS

Refer to attach spectrum analyzer data chart.

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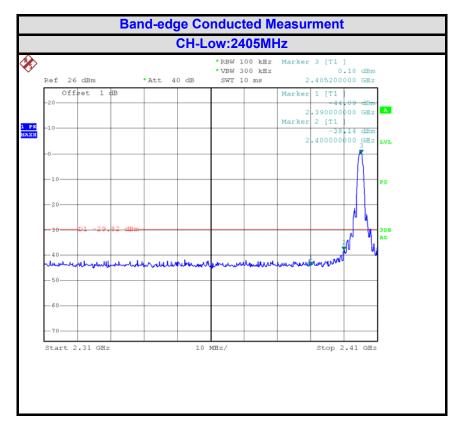
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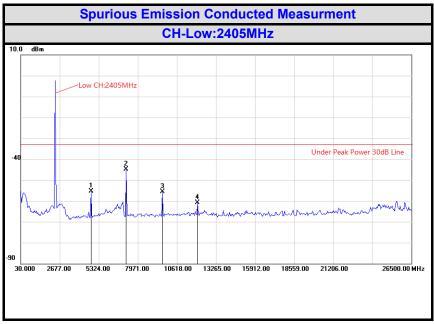
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Test Polt:





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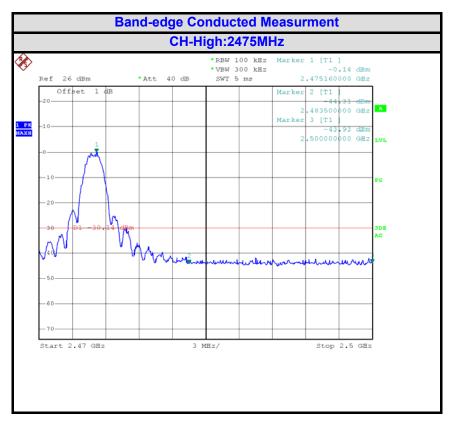
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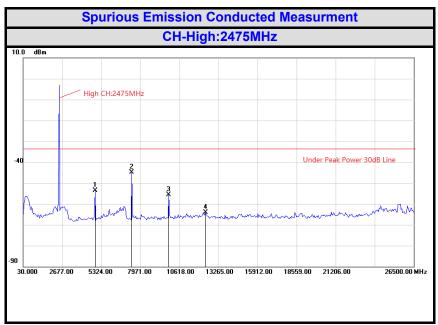
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11.0 SPURIOUS EMISSIONS

11.1 LIMIT

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:

| FRE | QUEN | CY | DISTANCE | FIELD STREN | GTHS LIMIT | |
|-------|------------|-------|----------|----------------------------|------------|--|
| | MHz | | Meters | μV/m | dB(μV)/m | |
| 0.009 | ~ | 0.490 | 300 | 2400/F(kHz) | | |
| 0.490 | ~ | 1.705 | 30 | 24000/F(kHz) | | |
| 1.705 | ~ | 30 | 30 | 30 | | |
| 30 | ~ | 88 | 3 | 100 | 40.0 | |
| 88 | ~ | 216 | 3 | 150 | 43.5 | |
| 216 | ~ | 960 | 3 | 200 | 46.0 | |
| 960 | ~ | 1000 | 3 | 500 | 54.0 | |
| ٨١ | Above 1000 | | 3 | Other:74.0 dB(μV)/m (Peak) | | |
| A | nove I | 000 | 3 | 54.0 dB(μV)/m (Average) | | |

Note: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands54-72 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., Sections 15.231 and 15.241.

11.2 Test Equipment

| Radia | ated disturbance (elect | ric field) | | | |
|-------|-------------------------|-----------------|------------|------------|-----------|
| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Last Cal. |
| 1 | EMI Test Receiver | ROHDE & SCHWARZ | ESCI | 100868 | 2016/11 |
| 2 | Biconical Antenna | ROHDE & SCHWARZ | HK116 | 100221 | 2017/03 |
| 3 | Log per Antenna | ROHDE & SCHWARZ | HL223 | 100226 | 2017/03 |
| 4 | Log per Antenna | ROHDE & SCHWARZ | HL050 | 100186 | 2017/03 |
| 5 | Signal analyzer | ROHDE & SCHWARZ | FSIQ26 | 100311 | 2017/03 |
| 6 | Loop Antenna | A.R.A | PLA-1030/B | 1030 | 2016/11 |
| 7 | EMI Test Software | EZ-EMC | Farad | N/A | N/A |

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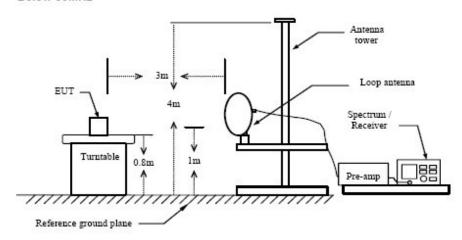
Report No.: CGZ3170322-00391-EF Page 26 of 42



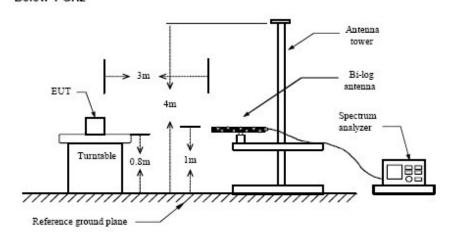


11.3 TEST CONFIGURATION

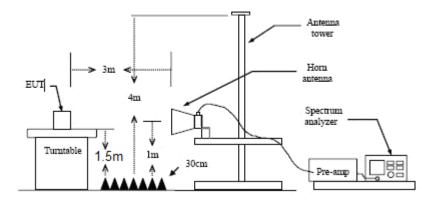
Below 30MHz



Below 1 GHz



Above 1 GHz



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Report No.: CGZ3170322-00391-EF Page 27 of 42





11.4 TEST PROCEDURE

- 1. The EUT is placed on a turntable, which is 0.8m for below 1GHz and 1.5m for Above 1GHz above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.

11.5 TEST RESULTS

The frequency range from 9KHz~30MHz,30MHz to 230MHz, 230MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

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Test Mode: TX –X Position Mode Result: □ - passed Frequency range: 9KHz~30MHz □ - not passed

| No. | Frequency (MHz) | Factor (dB) | | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | |
|--|--------------------|----------------|--|-------------------|-------------------|----------------|------|--|
| Remark: The test result reading value is to low, margin all > 20dB of the limit. | | | | | | | | |

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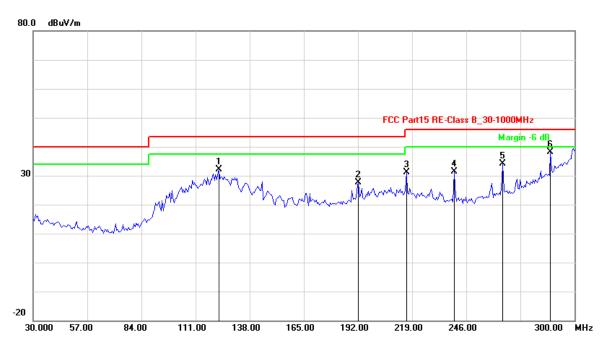






| EUT | DUSTY | | |
|----------------|---|--|--|
| Test Condition | Ambient Temperature: 25°C Humidity: 56% | | |
| Test distance | 3 Meter | | |
| Test Date: | 22 March ~ 10 April 2017 | | |
| Operator | Duke | | |
| MODEL NO | Rev.B | | |
| Note: | PCB Antenna | | |

| Channel: | TX –X Position | Result: | ■ - passed |
|------------------|----------------|---------|----------------|
| Test point: | Horizontal | | □ - not passed |
| Frequency range: | 30MHz-1GHz | | |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|--------|--------------------|----------------|-------------------|-------------------|-------------------|----------------|------|
| 1 | 122.5250 | -15.97 | 48.14 | 32.17 | 43.50 | -11.33 | QP |
| 2 | 192.3246 | -13.35 | 41.03 | 27.68 | 43.50 | -15.82 | QP |
| 3 | 216.1323 | -10.10 | 41.13 | 31.03 | 46.00 | -14.97 | QP |
| 4 | 239.9399 | -11.14 | 42.61 | 31.47 | 46.00 | -14.53 | QP |
| 5 | 264.2886 | -10.08 | 44.14 | 34.06 | 46.00 | -11.94 | QP |
| 6 | 288.0962 | -4.33 | 42.54 | 38.21 | 46.00 | -7.79 | QP |
| Remark | : Other frequen | icy mini ma | rgin all >6 dB o | of Limit | | | |

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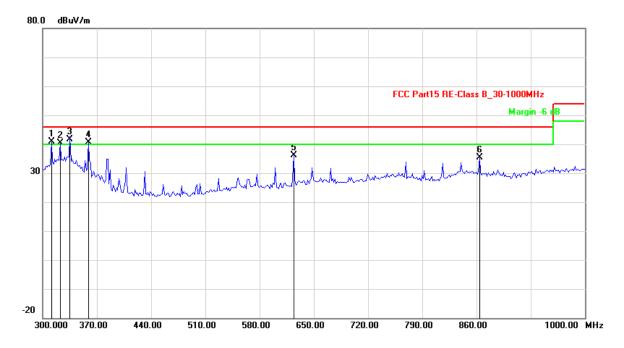
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Report No.: CGZ3170322-00391-EF Page 30 of 42

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| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | | | |
|---------|--|----------------|-------------------|-------------------|-------------------|----------------|------|--|--|--|
| 1 | 311.2224 | -12.66 | 53.48 | 40.82 | 46.00 | -5.18 | QP | | | |
| 2 | 322.4449 | -12.19 | 52.63 | 40.44 | 46.00 | -5.56 | QP | | | |
| 3 | 335.0701 | -11.66 | 53.27 | 41.61 | 46.00 | -4.39 | QP | | | |
| 4 | 358.9178 | -10.90 | 51.44 | 40.54 | 46.00 | -5.46 | QP | | | |
| 5 | 624.0481 | -4.34 | 40.48 | 36.14 | 46.00 | -9.86 | QP | | | |
| 6 | 863.9279 | -0.51 | 36.00 | 35.49 | 46.00 | -10.51 | QP | | | |
| Remark: | Remark: Other frequency mini margin all >6 dB of Limit | | | | | | | | | |

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Channel: Low Channel Result: □ - passed

Test point: Horizontal □ - not passed

Frequency range: 1GHz-26.5GHz

| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | | |
|---------|---|----------------|-------------------|-------------------|-------------------|----------------|------|--|--|
| 1 | 1667.57 | -9.05 | 52.40 | 43.35 | 74.00 | -30.65 | peak | | |
| 2 | 1667.57 | -9.05 | 38.32 | 29.26 | 54.00 | -24.74 | AVG | | |
| 3 | 5180.94 | 6.00 | 38.57 | 44.57 | 74.00 | -29.43 | peak | | |
| 4 | 5180.94 | 6.00 | 24.14 | 30.14 | 54.00 | -23.86 | AVG | | |
| Remark: | Remark: Other frequency mini margin all >20 dB of Limit | | | | | | | | |

Channel:Middle ChannelResult:■ - passedTest point:Horizontal□ - not passedFrequency range:1GHz-26.5GHz

| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | | | |
|---------|---|----------------|-------------------|-------------------|-------------------|----------------|------|--|--|--|
| 1 | 1129.01 | -13.49 | 54.99 | 41.50 | 74.00 | -32.50 | peak | | | |
| 2 | 1129.01 | -13.49 | 40.71 | 27.22 | 54.00 | -26.78 | AVG | | | |
| 3 | 5737.38 | 7.61 | 35.55 | 43.16 | 74.00 | -30.84 | peak | | | |
| 4 | 5737.38 | 7.61 | 20.94 | 28.55 | 54.00 | -25.45 | AVG | | | |
| Remark: | Remark: Other frequency mini margin all >20 dB of Limit | | | | | | | | | |

 Channel:
 High Channel
 Result:
 ■ - passed

 Test point:
 Horizontal
 □ - not passed

 Frequency range:
 1GHz-26.5GHz

| No. | Frequency | Factor | Reading | Level | Limit | Margin | Det. | | | |
|---------|---|--------|---------|----------|----------|--------|------|--|--|--|
| | (MHz) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | | | | |
| 1 | 1983.23 | -7.05 | 48.16 | 41.11 | 74.00 | -32.89 | peak | | | |
| 2 | 1983.23 | -7.05 | 33.40 | 26.35 | 54.00 | -27.65 | AVG | | | |
| 3 | 5898.08 | 8.08 | 35.19 | 43.26 | 74.00 | -30.74 | peak | | | |
| 4 | 5898.08 | 8.08 | 20.53 | 28.60 | 54.00 | -25.40 | AVG | | | |
| Remark: | Remark: Other frequency mini margin all >20 dB of Limit | | | | | | | | | |

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Report No.: CGZ3170322-00391-EF Page 32 of 42



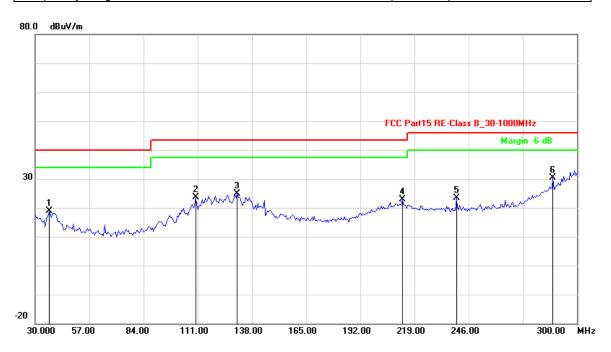




Channel: TX –X Position Result: □ - passed

Test point: Vertical □ - not passed

Frequency range: 30MHz-1GHz



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | | |
|---------|--|----------------|-------------------|-------------------|-------------------|----------------|------|--|--|
| 1 | 37.0341 | -16.08 | 35.03 | 18.95 | 40.00 | -21.05 | QP | | |
| 2 | 110.0802 | -16.69 | 40.38 | 23.69 | 43.50 | -19.81 | QP | | |
| 3 | 130.6413 | -15.53 | 40.53 | 25.00 | 43.50 | -18.50 | QP | | |
| 4 | 212.8858 | -9.82 | 32.73 | 22.91 | 43.50 | -20.59 | QP | | |
| 5 | 239.9399 | -11.14 | 34.41 | 23.27 | 46.00 | -22.73 | QP | | |
| 6 | 288.0962 | -4.33 | 34.61 | 30.28 | 46.00 | -15.72 | QP | | |
| Remark: | Remark: Other frequency mini margin all >6 dB of Limit | | | | | | | | |

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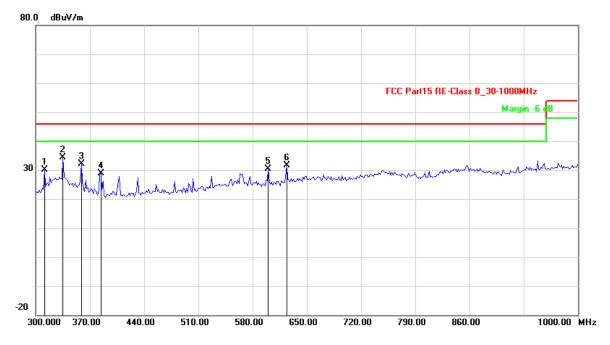
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Report No.: CGZ3170322-00391-EF









| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | |
|--------|--|----------------|-------------------|-------------------|-------------------|----------------|------|--|
| 1 | 311.2224 | -12.66 | 42.69 | 30.03 | 46.00 | -15.97 | QP | |
| 2 | 335.0701 | -11.66 | 46.11 | 34.45 | 46.00 | -11.55 | QP | |
| 3 | 358.9178 | -10.90 | 43.03 | 32.13 | 46.00 | -13.87 | QP | |
| 4 | 384.1683 | -10.52 | 39.43 | 28.91 | 46.00 | -17.09 | QP | |
| 5 | 600.2004 | -5.43 | 35.69 | 30.26 | 46.00 | -15.74 | QP | |
| 6 | 624.0481 | -4.34 | 35.91 | 31.57 | 46.00 | -14.43 | QP | |
| Remark | Remark: Other frequency mini margin all >6 dB of Limit | | | | | | | |

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| Channel: | Low Channel | Result: | ■ - passed |
|------------------|--------------|---------|----------------|
| Test point: | Vertical | | □ - not passed |
| Frequency range: | 1GHz-26.5GHz | | |

| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | |
|---------|---|----------------|-------------------|-------------------|-------------------|----------------|------|--|
| 1 | 1231.35 | -12.56 | 55.63 | 43.07 | 74.00 | -30.93 | peak | |
| 2 | 1231.35 | -12.56 | 40.79 | 28.23 | 54.00 | -25.77 | AVG | |
| 3 | 5250.48 | 6.20 | 40.70 | 46.90 | 74.00 | -27.10 | peak | |
| 4 | 5250.48 | 6.20 | 26.12 | 32.33 | 54.00 | -21.67 | AVG | |
| Remark: | Remark: Other frequency mini margin all >20 dB of Limit | | | | | | | |

| Channel: | Middle Channel | Result: | ■ - passed |
|------------------|----------------|---------|----------------|
| Test point: | Vertical | | ☐ - not passed |
| Frequency range: | 1GHz-26.5GHz | | |

| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | |
|---------|---|----------------|-------------------|-------------------|-------------------|----------------|------|--|
| 1 | 1851.61 | -7.88 | 49.26 | 41.37 | 74.00 | -32.63 | peak | |
| 2 | 1851.61 | -7.88 | 34.72 | 26.84 | 54.00 | -27.16 | AVG | |
| 3 | 5852.03 | 7.94 | 38.28 | 46.23 | 74.00 | -27.77 | peak | |
| 4 | 5852.03 | 7.94 | 23.96 | 31.90 | 54.00 | -22.10 | AVG | |
| Remark: | Remark: Other frequency mini margin all >20 dB of Limit | | | | | | | |

| Channel: | High Channel | Result: | ■ - passed |
|------------------|--------------|---------|----------------|
| Test point: | Vertical | | ☐ - not passed |
| Frequency range: | 1GHz-26.5GHz | | |

| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | |
|---------|---|----------------|-------------------|-------------------|-------------------|----------------|------|--|
| 1 | 1832.88 | -8.00 | 51.92 | 43.92 | 74.00 | -30.08 | peak | |
| 2 | 1832.88 | -8.00 | 37.20 | 29.20 | 54.00 | -24.80 | AVG | |
| 3 | 5945.66 | 8.21 | 37.52 | 45.73 | 74.00 | -28.27 | peak | |
| 4 | 5945.66 | 8.21 | 22.68 | 30.89 | 54.00 | -23.11 | AVG | |
| Remark: | Remark: Other frequency mini margin all >20 dB of Limit | | | | | | | |

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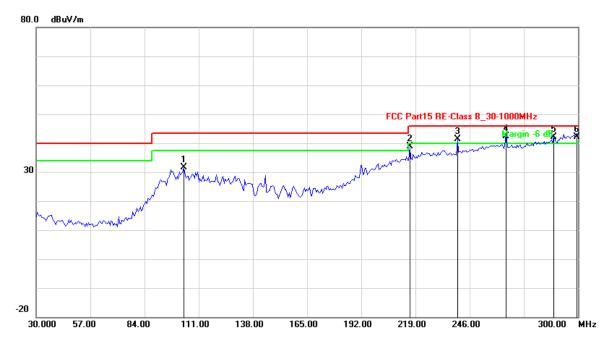
Report No.: CGZ3170322-00391-EF Page 35 of 42





| EUT | DUSTY |
|----------------|---|
| Test Condition | Ambient Temperature: 25°C Humidity: 56% |
| Test distance | 3 Meter |
| Test Date: | 22 March ~ 10 April 2017 |
| Operator | Duke |
| MODEL NO | Rev.B |
| Note: | External Antenna |

| Channel: | TX –X Position | Result: | ■ - passed |
|------------------|----------------|---------|----------------|
| Test point: | Horizontal | | □ - not passed |
| Frequency range: | 30MHz-1GHz | | |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | |
|--------|--|----------------|-------------------|-------------------|-------------------|----------------|------|--|
| 1 | 103.5872 | -17.23 | 48.81 | 31.58 | 43.50 | -11.92 | QP | |
| 2 | 216.1323 | -10.10 | 49.00 | 38.90 | 46.00 | -7.10 | QP | |
| 3 | 239.9399 | -11.14 | 52.63 | 41.49 | 46.00 | -4.51 | QP | |
| 4 | 264.2886 | -10.08 | 52.57 | 42.49 | 46.00 | -3.51 | QP | |
| 5 | 288.0962 | -4.33 | 46.46 | 42.13 | 46.00 | -3.87 | QP | |
| 6 | 299.4589 | -1.27 | 43.52 | 42.25 | 46.00 | -3.75 | QP | |
| Remark | Remark: Other frequency mini margin all >6 dB of Limit | | | | | | | |

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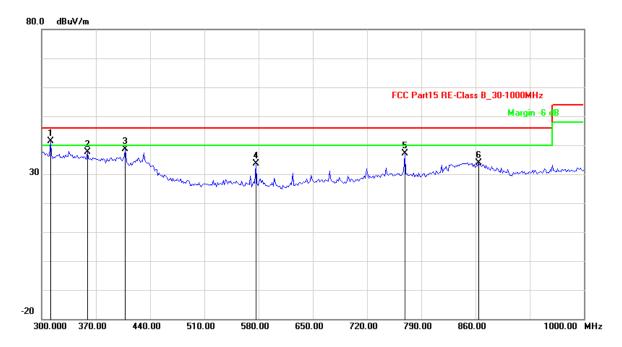
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| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | |
|--------|--|----------------|-------------------|-------------------|-------------------|----------------|------|--|
| 1 | 311.2224 | -12.66 | 54.09 | 41.43 | 46.00 | -4.57 | QP | |
| 2 | 358.9178 | -10.90 | 48.52 | 37.62 | 46.00 | -8.38 | QP | |
| 3 | 408.0160 | -9.95 | 48.46 | 38.51 | 46.00 | -7.49 | QP | |
| 4 | 576.3527 | -5.47 | 39.09 | 33.62 | 46.00 | -12.38 | QP | |
| 5 | 768.5371 | -1.93 | 39.04 | 37.11 | 46.00 | -8.89 | QP | |
| 6 | 863.9279 | -0.51 | 34.49 | 33.98 | 46.00 | -12.02 | QP | |
| Remark | Remark: Other frequency mini margin all >6 dB of Limit | | | | | | | |

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| Channel: | Low Channel | Result: | ■ - passed |
|------------------|--------------|---------|----------------|
| Test point: | Horizontal | | □ - not passed |
| Frequency range: | 1GHz-26.5GHz | | |

| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | |
|--------|---|----------------|-------------------|-------------------|-------------------|----------------|------|--|
| 1 | 1865.34 | -7.80 | 48.99 | 41.20 | 74.00 | -32.80 | peak | |
| 2 | 1865.34 | -7.80 | 34.38 | 26.58 | 54.00 | -27.42 | AVG | |
| 3 | 5953.06 | 8.23 | 35.63 | 43.86 | 74.00 | -30.14 | peak | |
| 4 | 5953.06 | 8.23 | 21.01 | 29.24 | 54.00 | -24.76 | AVG | |
| Remark | Remark: Other frequency mini margin all >20 dB of Limit | | | | | | | |

| Channel: | Middle Channel | Result: | ■ - passed |
|------------------|----------------|---------|----------------|
| Test point: | Horizontal | | □ - not passed |
| Frequency range: | 1GHz-26.5GHz | | 1 |

| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | | |
|--------|---|----------------|-------------------|-------------------|-------------------|----------------|------|--|--|
| 1 | 1017.64 | -14.50 | 55.32 | 40.82 | 74.00 | -33.18 | peak | | |
| 2 | 1017.64 | -14.50 | 40.75 | 26.25 | 54.00 | -27.75 | AVG | | |
| 3 | 5547.39 | 7.06 | 39.38 | 46.44 | 74.00 | -27.56 | peak | | |
| 4 | 5547.39 | 7.06 | 24.90 | 31.96 | 54.00 | -22.04 | AVG | | |
| Remark | Remark: Other frequency mini margin all >20 dB of Limit | | | | | | | | |

| Channel: | High Channel | Result: | ■ - passed |
|------------------|--------------|---------|----------------|
| Test point: | Horizontal | | □ - not passed |
| Frequency range: | 1GHz-26.5GHz | | |

| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | | |
|---------|---|----------------|-------------------|-------------------|-------------------|----------------|------|--|--|
| 1 | 1791.91 | -8.26 | 51.12 | 42.86 | 74.00 | -31.14 | peak | | |
| 2 | 1791.91 | -8.26 | 36.45 | 28.19 | 54.00 | -25.81 | AVG | | |
| 3 | 5324.34 | 6.42 | 37.20 | 43.62 | 74.00 | -30.38 | peak | | |
| 4 | 5324.34 | 6.42 | 22.32 | 28.74 | 54.00 | -25.26 | AVG | | |
| Remark: | Remark: Other frequency mini margin all >20 dB of Limit | | | | | | | | |

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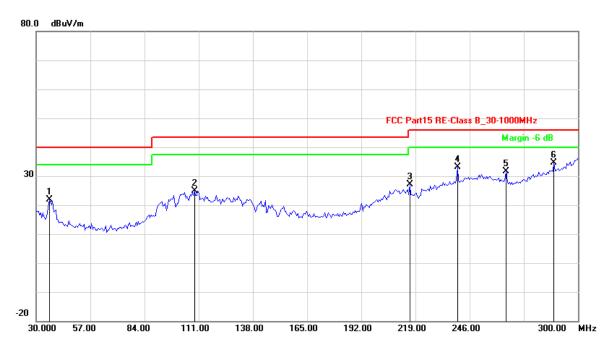
Report No.: CGZ3170322-00391-EF Page 38 of 42











| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | | |
|---------|--|----------------|-------------------|-------------------|-------------------|----------------|------|--|--|
| 1 | 36.4930 | -16.01 | 37.85 | 21.84 | 40.00 | -18.16 | QP | | |
| 2 | 108.9980 | -16.77 | 41.65 | 24.88 | 43.50 | -18.62 | QP | | |
| 3 | 216.1323 | -10.10 | 37.14 | 27.04 | 46.00 | -18.96 | QP | | |
| 4 | 239.9399 | -11.14 | 44.31 | 33.17 | 46.00 | -12.83 | QP | | |
| 5 | 264.2886 | -10.08 | 41.83 | 31.75 | 46.00 | -14.25 | QP | | |
| 6 | 288.0962 | -4.33 | 38.86 | 34.53 | 46.00 | -11.47 | QP | | |
| Remark: | Remark: Other frequency mini margin all >6 dB of Limit | | | | | | | | |

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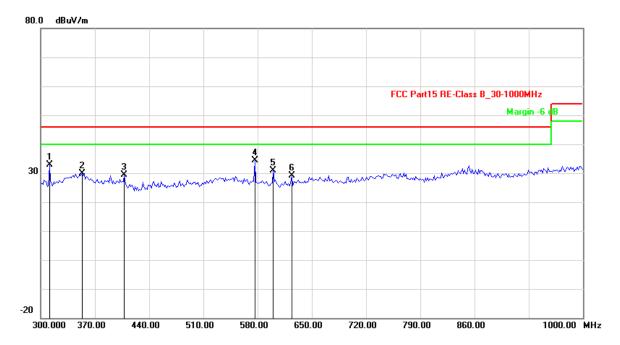
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| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | | |
|--------|--|----------------|-------------------|-------------------|-------------------|----------------|------|--|--|
| 1 | 311.2224 | -12.66 | 45.46 | 32.80 | 46.00 | -13.20 | QP | | |
| 2 | 353.3066 | -10.99 | 40.88 | 29.89 | 46.00 | -16.11 | QP | | |
| 3 | 408.0160 | -9.95 | 39.32 | 29.37 | 46.00 | -16.63 | QP | | |
| 4 | 576.3527 | -5.47 | 39.89 | 34.42 | 46.00 | -11.58 | QP | | |
| 5 | 600.2004 | -5.43 | 36.19 | 30.76 | 46.00 | -15.24 | QP | | |
| 6 | 624.0481 | -4.34 | 33.45 | 29.11 | 46.00 | -16.89 | QP | | |
| Remark | Remark: Other frequency mini margin all >6 dB of Limit | | | | | | | | |

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| Channel: | Low Channel | Result: | ■ - passed |
|------------------|--------------|---------|----------------|
| Test point: | Vertical | | ☐ - not passed |
| Frequency range: | 1GHz-26.5GHz | | |

| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | |
|--------|---|----------------|-------------------|-------------------|-------------------|----------------|------|--|
| 1 | 1581.28 | -9.60 | 52.52 | 42.92 | 74.00 | -31.08 | peak | |
| 2 | 1581.28 | -9.60 | 38.03 | 28.43 | 54.00 | -25.57 | AVG | |
| 3 | 5677.72 | 7.44 | 38.38 | 45.82 | 74.00 | -28.18 | peak | |
| 4 | 5677.72 | 7.44 | 24.05 | 31.49 | 54.00 | -22.51 | AVG | |
| Remark | Remark: Other frequency mini margin all >20 dB of Limit | | | | | | | |

| Channel: | Middle Channel | Result: | ■ - passed |
|------------------|----------------|---------|----------------|
| Test point: | Vertical | | □ - not passed |
| Frequency range: | 1GHz-26.5GHz | | ' |

| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | | |
|--------|---|----------------|-------------------|-------------------|-------------------|----------------|------|--|--|
| 1 | 1660.81 | -9.10 | 51.58 | 42.49 | 74.00 | -31.51 | peak | | |
| 2 | 1660.81 | -9.10 | 36.85 | 27.75 | 54.00 | -26.25 | AVG | | |
| 3 | 5367.82 | 6.54 | 38.89 | 45.44 | 74.00 | -28.56 | peak | | |
| 4 | 5367.82 | 6.54 | 24.43 | 30.97 | 54.00 | -23.03 | AVG | | |
| Remark | Remark: Other frequency mini margin all >20 dB of Limit | | | | | | | | |

| Channel: | High Channel | Result: | ■ - passed |
|------------------|--------------|---------|----------------|
| Test point: | Vertical | | □ - not passed |
| Frequency range: | 1GHz-26.5GHz | | |

| No. | Frequency | Factor | Reading | Level | Limit | Margin | Det. |
|---|-----------|--------|---------|----------|----------|--------|------|
| | (MHz) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1127.77 | -13.50 | 57.17 | 43.67 | 74.00 | -30.33 | peak |
| 2 | 1127.77 | -13.50 | 42.68 | 29.18 | 54.00 | -24.82 | AVG |
| 3 | 5050.95 | 5.63 | 39.74 | 45.36 | 74.00 | -28.64 | peak |
| 4 | 5050.95 | 5.63 | 25.08 | 30.71 | 54.00 | -23.29 | AVG |
| Remark: Other frequency mini margin all >20 dB of Limit | | | | | | | |

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Report No.: CGZ3170322-00391-EF Page 41 of 42





12.0 Antenna Requirements

12.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

12.2 Antenna Construction and Directional Gain

Antenna 1:External antenna with 2dBi. Antenna 2: PCB antenna with 0dBi.

13.0 Deviation to test specifications

The following identical model(s):

N/A

Belong to the tested device:

Product description: **DUSTY**Model name: **Rev.B**

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