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FCC REPORT

Application No.: SZEM1406003386RF

Applicant: Arccos Golf LLC

Manufacturer:Wynnewood Toys Industrial (Shenzhen) Co. LTD.Factory:Wynnewood Toys Industrial (Shenzhen) Co. LTD.

Product Name: Arccos Golf

Model No.(EUT): 11

FCC ID: 2ACQZARCCOS14I1A

Standards: 47 CFR Part 15, Subpart C (2013)

Date of Receipt: 2014-07-01

Date of Test: 2014-07-07 to 2014-07-11

Date of Issue: 2014-07-23

Test Result: PASS *

Authorized Signature:



Jack Zhang EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

^{*} In the configuration tested, the EUT complied with the standards specified above.



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2 Version

| Revision Record | | | | | |
|-----------------|---------|------------|----------|----------|--|
| Version | Chapter | Date | Modifier | Remark | |
| 00 | | 2014-07-23 | | Original | |
| | | | | | |
| | | | | | |

| Authorized for issue by: | | |
|--------------------------|---------------------------------|------------------|
| Tested By | (Owen Zhou) /Project Engineer | 2014-07-11 Date |
| Prepared By | (Linlin Lv) /Clerk | 2014-07-23 Date |
| Checked By | Emen _ Lı` (Emen Li) /Reviewer | 2014-08-20 Date |



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3 Test Summary

| Test Item | Test Requirement | Test method | Result |
|---|--|-------------------------|--------|
| Antenna Requirement | 47 CFR Part 15, Subpart C Section 15.203/15.247 (c) | ANSI C63.10 2009 | PASS |
| AC Power Line Conducted Emission | 47 CFR Part 15, Subpart C Section 15.207 | ANSI C63.10 2009 | PASS |
| Conducted Peak Output Power | 47 CFR Part 15, Subpart C Section 15.247 (b)(3) | KDB558074 D01 v03r02 | PASS |
| 6dB Occupied Bandwidth | 47 CFR Part 15, Subpart C Section 15.247 (a)(2) | KDB558074 D01 v03r02 | PASS |
| Power Spectral Density | Density 47 CFR Part 15, Subpart C Section KDB558074 D01 v03r02 | | PASS |
| Band-edge for RF Conducted Emissions | 47 CFR Part 15, Subpart C Section 15.247(d) | KDB558074 D01 v03r02 | PASS |
| RF Conducted Spurious Emissions | 47 CFR Part 15, Subpart C Section 15.247(d) | KDB558074 D01 v03r02 | PASS |
| Radiated Spurious Emissions | 47 CFR Part 15, Subpart C Section 15.205/15.209 | ANSI C63.10 2009 | PASS |
| Restricted bands around fundamental frequency (Radiated Emission) | 47 CFR Part 15, Subpart C Section 15.205/15.209 | ANSI C63.10 2009 | PASS |



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5 General Information

5.1 Client Information

| Applicant: | Arccos Golf LLC |
|--------------------------|--|
| Address of Applicant: | 175 ATLANTIC STREET, STE 200A, STAMFORD, 06901, CT, USA |
| Manufacturer: | Wynnewood Toys Industrial (Shenzhen) Co. LTD. |
| Address of Manufacturer: | GUAN GUANG ROAD, FUANLAN, BAOAN DISTRICT, SHENZHEN, SHENZHEN N/A CHINA |
| Factory: | Wynnewood Toys Industrial (Shenzhen) Co. LTD. |
| Address of Factory: | GUAN GUANG ROAD, FUANLAN, BAOAN DISTRICT, SHENZHEN, SHENZHEN N/A CHINA |

5.2 General Description of EUT

| Product Name: | Arccos Golf |
|----------------------|------------------------------------|
| Model No.: | l1 |
| Operation Frequency: | 2402MHz~2480MHz |
| Bluetooth Version: | V4.0 |
| | This test report is for BLE mode |
| Modulation Type: | GFSK |
| Number of Channel: | 40 |
| Sample Type: | Portable production |
| Antenna Type: | Integral |
| Antenna Gain: | 0.2dBi |
| Battery: | DC 3.0V(1*3.0"CR2032" Button Cell) |
| Test Voltage: | DC 3.0V new Button Cell |



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| Operation Frequency each of channel | | | | | | | |
|-------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 1 | 2402MHz | 11 | 2422MHz | 21 | 2442MHz | 31 | 2462MHz |
| 2 | 2404MHz | 12 | 2424MHz | 22 | 2444MHz | 32 | 2464MHz |
| 3 | 2406MHz | 13 | 2426MHz | 23 | 2446MHz | 33 | 2466MHz |
| 4 | 2408MHz | 14 | 2428MHz | 24 | 2448MHz | 34 | 2468MHz |
| 5 | 2410MHz | 15 | 2430MHz | 25 | 2450MHz | 35 | 2470MHz |
| 6 | 2412MHz | 16 | 2432MHz | 26 | 2452MHz | 36 | 2472MHz |
| 7 | 2414MHz | 17 | 2434MHz | 27 | 2454MHz | 37 | 2474MHz |
| 8 | 2416MHz | 18 | 2436MHz | 28 | 2456MHz | 38 | 2476MHz |
| 9 | 2418MHz | 19 | 2438MHz | 29 | 2458MHz | 39 | 2478MHz |
| 10 | 2420MHz | 20 | 2440MHz | 30 | 2460MHz | 40 | 2480MHz |

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| Channel | Frequency | | |
|---------------------|-----------|--|--|
| The Lowest channel | 2402MHz | | |
| The Middle channel | 2440MHz | | |
| The Highest channel | 2480MHz | | |



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5.3 Test Environment

| Operating Environment: | | |
|------------------------|----------|--|
| Temperature: | 22.0 °C | |
| Humidity: | 52 % RH | |
| Atmospheric Pressure: | 1010mbar | |

5.4 Description of Support Units

The EUT has been tested with associated equipment below.

| Description | Manufacturer | Model No. |
|-------------|--------------|-----------|
| iPhone5 | Apple | A1429 |

5.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.



SGS

SGS-CSTC Standards Technical Services Ltd.

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5.6 Test Facility

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

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

VCCI

The 3m Semi-anechoic chamber, Full-anechoic Chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2197, G-416, T-1153 and C-2383 respectively.

FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen 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.: 556682.

Industry Canada (IC)

Two 3m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1 & 4620C-2.

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.



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6 Equipment List

| | Conducted Emission | | | | | |
|------|---------------------------------------|--|---------------------|------------------|---------------------------|--|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Due date (yyyy-mm-dd) | |
| 1 | Shielding Room | ZhongYu Electron | GB-88 | SEL0042 | 2015-06-10 | |
| 2 | LISN | Rohde & Schwarz | ENV216 | SEL0152 | 2014-10-24 | |
| 3 | LISN | ETS-LINDGREN | 3816/2 | SEL0021 | 2015-05-16 | |
| 4 | 8 Line ISN | Fischer Custom Communications Inc. | FCC-TLISN- T8-02 | SEL0162 | 2014-11-10 | |
| 5 | 4 Line ISN | Fischer Custom Communications Inc. | FCC-TLISN- T4-02 | SEL0163 | 2014-11-10 | |
| 6 | 2 Line ISN | Fischer Custom Communications Inc. | FCC-TLISN- T2-02 | SEL0164 | 2014-11-10 | |
| 7 | EMI Test Receiver | Rohde & Schwarz | ESCI | SEL0022 | 2015-05-16 | |
| 8 | Coaxial Cable | SGS | N/A | SEL0025 | 2015-05-29 | |
| 9 | DC Power Supply | Zhao Xin | RXN-305D | SEL0117 | 2014-10-24 | |
| 10 | Humidity/ Temperature Indicator | Shanhai Qixiang | ZJ1-2B | SEL0103 | 2014-10-24 | |
| 11 | Barometer | Chang Chun | DYM3 | SEL0088 | 2015-05-16 | |



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| | RE in Chamber | | | | | |
|------|------------------------------------|--|-----------|------------------|---------------------------|--|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Due date (yyyy-mm-dd) | |
| 1 | 3m Semi-Anechoic Chamber | ETS-LINDGREN | N/A | SEL0017 | 2015-06-10 | |
| 2 | EMI Test Receiver | Rohde & Schwarz | ESIB26 | SEL0023 | 2015-05-16 | |
| 3 | EMI Test software | AUDIX | E3 | SEL0050 | N/A | |
| 4 | BiConiLog Antenna (26-3000MHz) | ETS-LINDGREN | 3142C | SEL0015 | 2014-10-24 | |
| 5 | Double-ridged horn (1-18GHz) | ETS-LINDGREN | 3117 | SEL0006 | 2014-10-24 | |
| 6 | Horn Antenna (18-26GHz) | ETS-LINDGREN | 3160 | SEL0076 | 2014-10-24 | |
| 7 | Pre-amplifier (0.1-1300MHz) | Agilent Technologies | 8447D | SEL0053 | 2015-05-16 | |
| 8 | Pre-Amplifier (0.1-26.5GHz) | Compliance Directions Systems Inc. | PAP-0126 | SEL0168 | 2014-10-24 | |
| 9 | Coaxial cable | SGS | N/A | SEL0027 | 2015-05-29 | |
| 10 | Coaxial cable | SGS | N/A | SEL0189 | 2015-05-29 | |
| 11 | Coaxial cable | SGS | N/A | SEL0121 | 2015-05-29 | |
| 12 | Coaxial cable | SGS | N/A | SEL0178 | 2015-05-29 | |
| 13 | Band filter | Amindeon | 82346 | SEL0094 | 2015-05-16 | |
| 14 | Barometer | Chang Chun | DYM3 | SEL0088 | 2015-05-16 | |
| 15 | DC Power Supply | Zhao Xin | RXN-305D | SEL0117 | 2014-10-24 | |
| 16 | Humidity/ Temperature Indicator | Shanhai Qixiang | ZJ1-2B | SEL0103 | 2014-10-24 | |
| 17 | Signal Generator (10M-27GHz) | Rohde & Schwarz | SMR27 | SEL0067 | 2015-05-16 | |
| 18 | Signal Generator | Rohde & Schwarz | SMY01 | SEL0155 | 2014-10-24 | |
| 19 | Loop Antenna | Beijing Daze | ZN30401 | SEL0203 | 2015-06-04 | |



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| | RF connected test | | | | |
|------|---------------------------------------|-------------------------|-------------------------|---------|---------------------------|
| Item | Test Equipment | Manufacturer | Model No. Inventory No. | | Cal.Due date (yyyy-mm-dd) |
| 1 | DC Power Supply | Zhao Xin | RXN-305D | SEL0117 | 2014-10-24 |
| 2 | Humidity/ Temperature Indicator | HYGRO | ZJ1-2B | SEL0033 | 2014-10-24 |
| 3 | Spectrum Analyzer | Rohde & Schwarz | FSP | SEL0154 | 2014-10-24 |
| 4 | Coaxial cable | SGS | N/A | SEL0178 | 2015-05-29 |
| 5 | Coaxial cable | SGS | N/A | SEL0179 | 2015-05-29 |
| 6 | Barometer | ChangChun | DYM3 | SEL0088 | 2015-05-16 |
| 7 | Signal Generator | Rohde & Schwarz | SML03 | SEL0068 | 2015-05-16 |
| 8 | Band filter | amideon | 82346 | SEL0094 | 2015-05-16 |
| 9 | POWER METER | R&S | NRVS | SEL0144 | 2014-10-24 |
| 10 | Attenuator | Beijin feihang taida | TST-2-6dB | SEL0205 | 2015-05-16 |
| 11 | Power Divider(splitter) | Agilent Technologies | 11636B | SEL0130 | 2014-10-24 |

Note: The calibration interval is one year, all the instruments are valid.



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7 Test results and Measurement Data

7.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

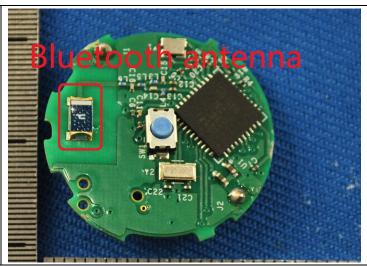
15.203 requirement:

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

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.

EUT Antenna:



The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0.2dBi.



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7.2 Conducted Emissions

Not Apply.

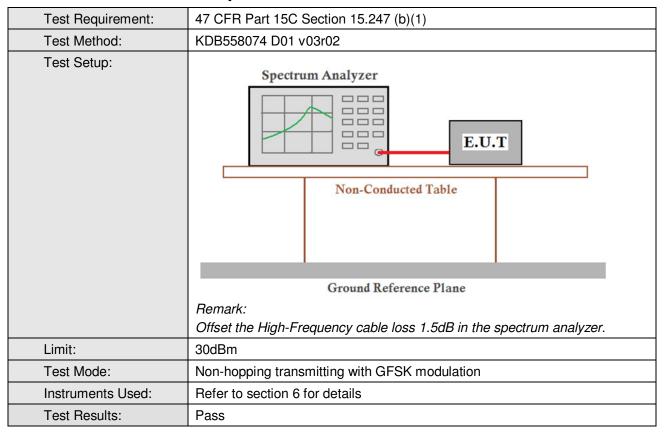
Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines.



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7.3 Conducted Peak Output Power



Measurement Data

| | GFSK mode | | | | | | | | |
|--------------|---|-------|------|--|--|--|--|--|--|
| Test channel | Test channel Peak Output Power (dBm) Limit (dBm) Result | | | | | | | | |
| Lowest | -10.95 | 30.00 | Pass | | | | | | |
| Middle | -11.17 | 30.00 | Pass | | | | | | |
| Highest | -11.35 | 30.00 | Pass | | | | | | |

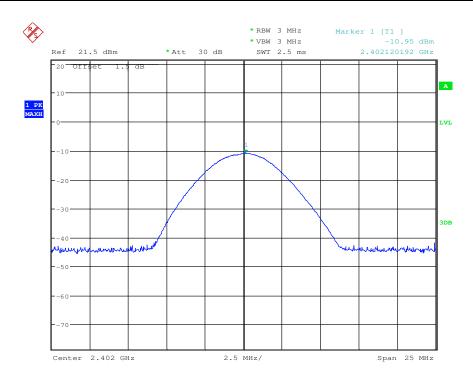


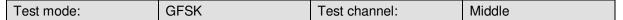
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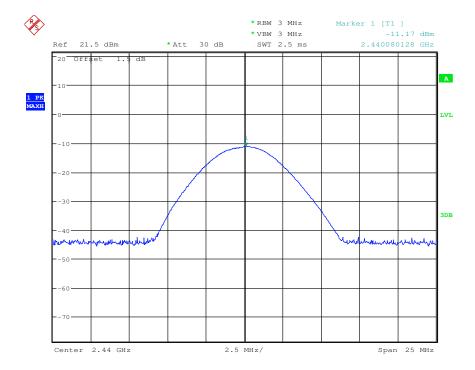
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Test plot as follows:

Test mode: GFSK Test channel: Lowest





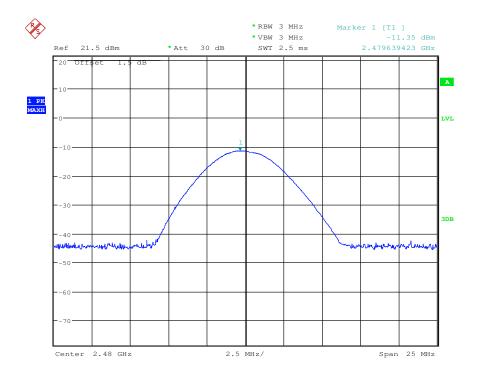




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Test mode: GFSK Test channel: Highest

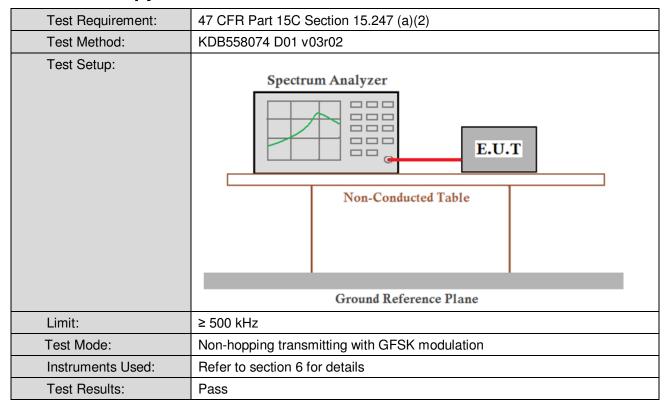




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7.4 6dB Occupy Bandwidth



Measurement Data

| Test channel | 6dB Occupy Bandwidth (MHz) | Limit (kHz) | Result |
|--------------|----------------------------|-------------|--------|
| Lowest | 0.711538461539 | ≥500 | Pass |
| Middle | 0.697115384615 | ≥500 | Pass |
| Highest | 0.692307692307 | ≥500 | Pass |



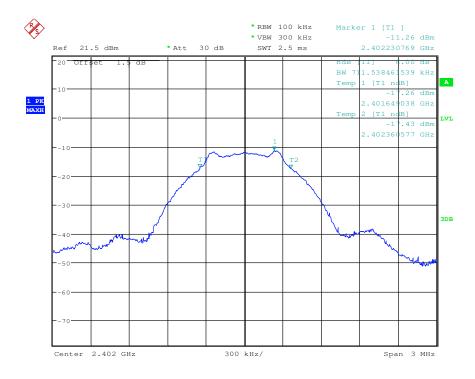


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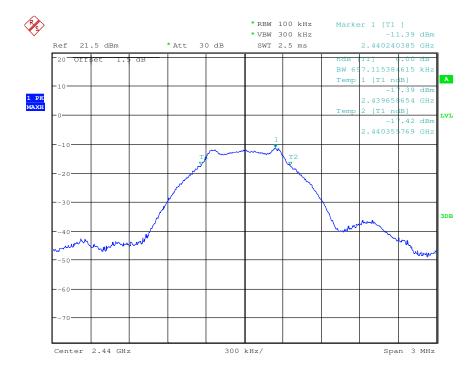
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Test plot as follows:

Test mode: GFSK Test channel: Lowest





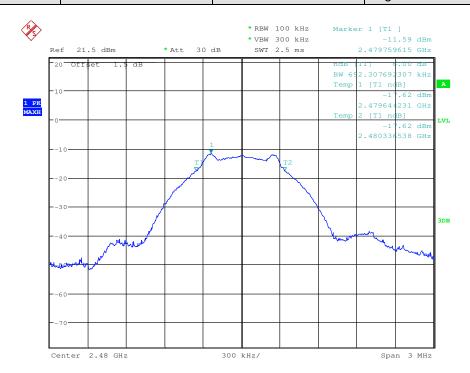




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Test mode: GFSK Test channel: Highest

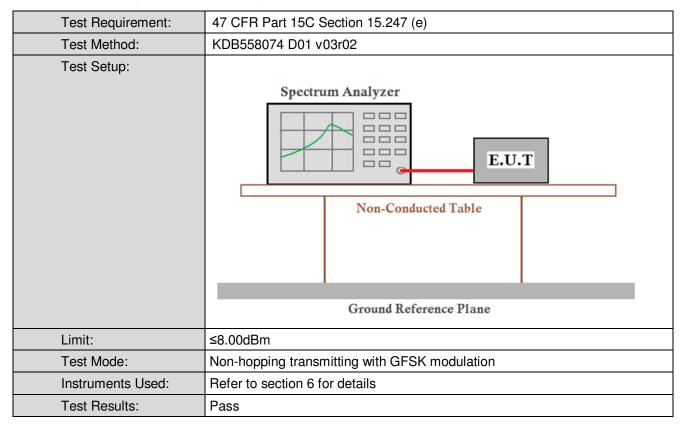




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7.5 Power Spectral Density



Measurement Data

| GFSK mode | | | | | | | | |
|--------------|------------------------------|-------------|--------|--|--|--|--|--|
| Test channel | Power Spectral Density (dBm) | Limit (dBm) | Result | | | | | |
| Lowest | -11.32 | ≤8.00 | Pass | | | | | |
| Middle | -5.41 | ≤8.00 | Pass | | | | | |
| Highest | -12.10 | ≤8.00 | Pass | | | | | |

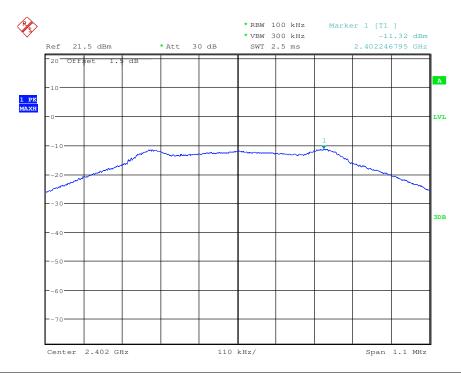


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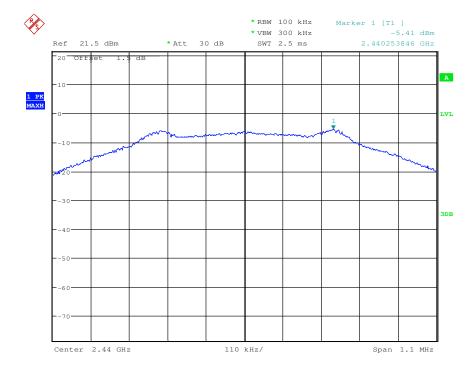
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Test plot as follows:

Test mode: GFSK Test channel: Lowest



Test mode: GFSK Test channel: Middle

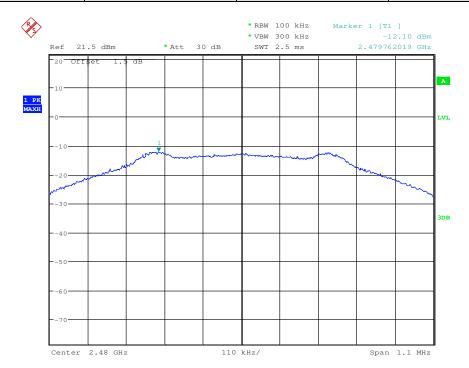




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Test mode: GFSK Test channel: Highest

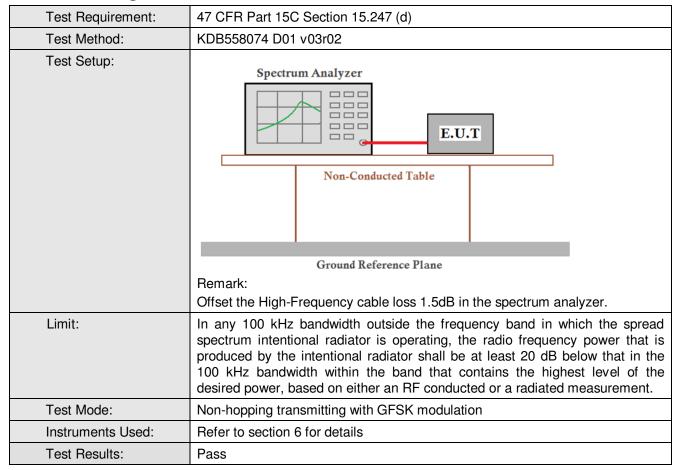




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7.6 Band-edge for RF Conducted Emissions



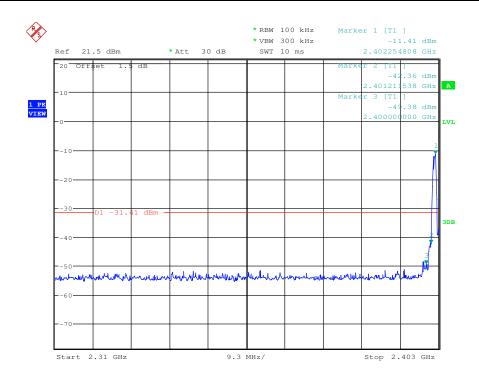


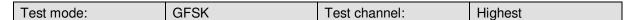
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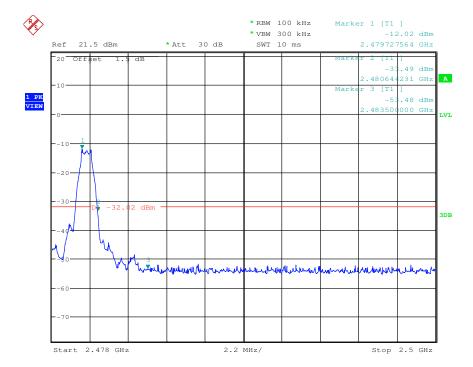
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Test plot as follows:

Test mode: GFSK Test channel: Lowest









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7.7 Spurious RF Conducted Emissions

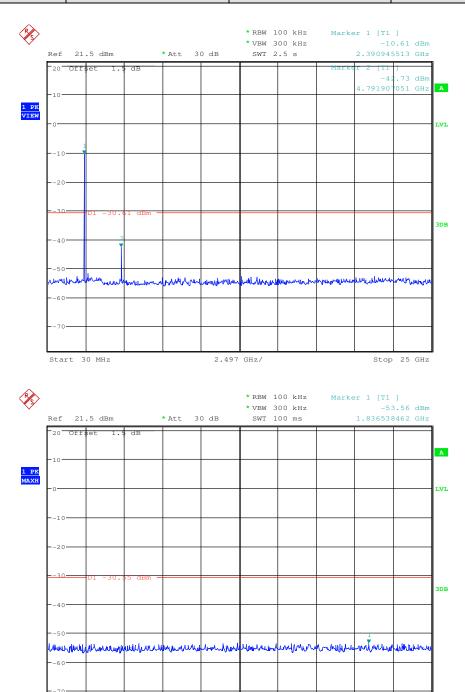
| Test Requirement: | 47 CFR Part 15C Section 15.247 (d) |
|-------------------|---|
| Test Method: | KDB558074 D01 v03r02 |
| Test Setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark: |
| | Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer. |
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is 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. |
| Test Mode: | Non-hopping transmitting with GFSK modulation |
| Instruments Used: | Refer to section 6 for details |
| Test Results: | Pass |



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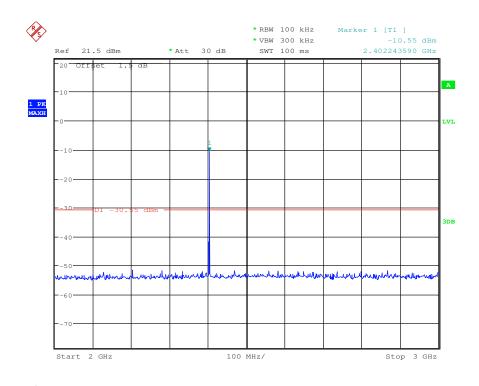
100 MHz/

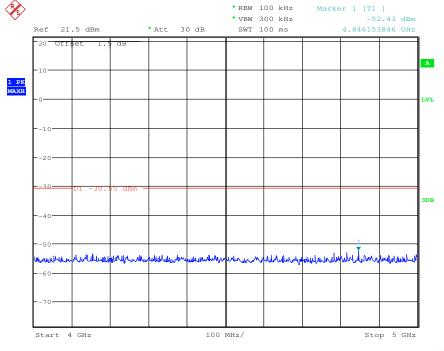
Start 1 GHz



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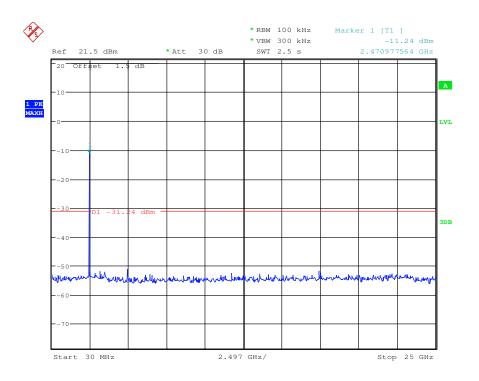


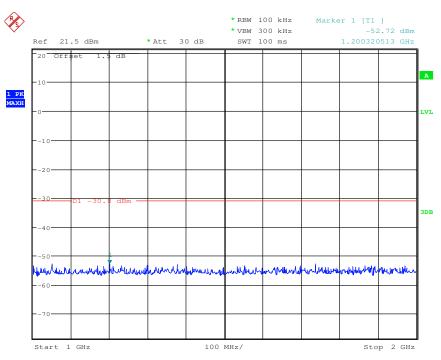


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Test mode: GFSK Test channel: Middle

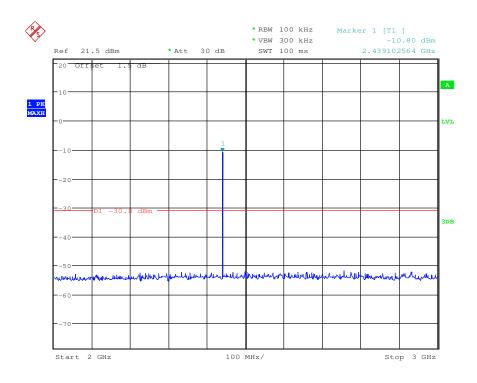


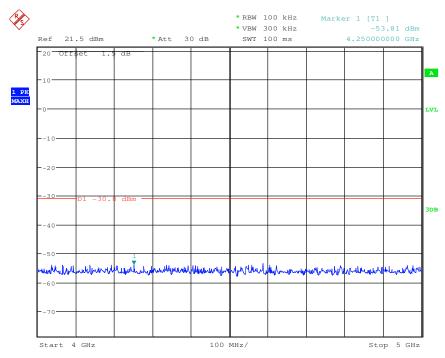




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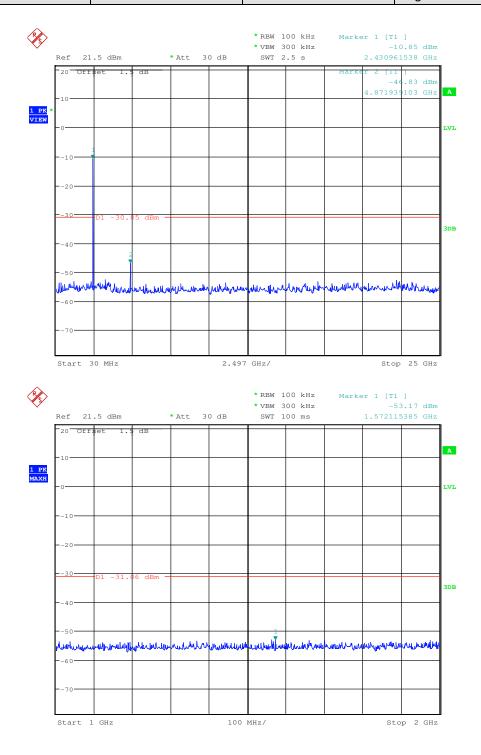




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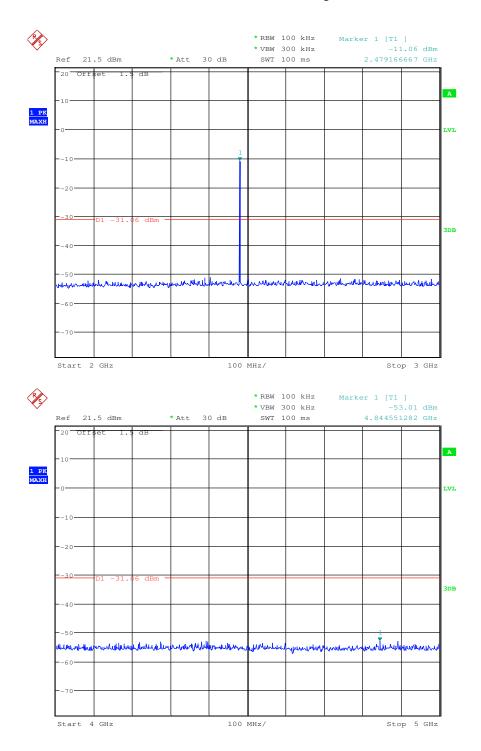
Test mode: GFSK Test channel: Highest





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Remark:

Pretest 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report.

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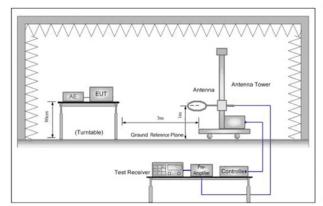
7.8 Radiated Spurious Emission

| 7.8.1 Spurious Emiss | ions | | | | | | | | |
|----------------------|---|--|--------------|-------------------|------------|-----------|--------------------------|---|--|
| Test Requirement: | 47 CFR Part 15C Secti | on 1 | 5.209 and 15 | .205 | | | | | |
| Test Method: | ANSI C63.10 2009 | | | | | | | | |
| Test Site: | Measurement Distance | Measurement Distance: 3m (Semi-Anechoic Chamber) | | | | | | | |
| Receiver Setup: | Frequency | | Detector | RBW | | VBW | Remark | Ī | |
| | 0.009MHz-0.090MH | Z | Peak | 10kHz | <u> </u> | 30kHz | Peak | | |
| | 0.009MHz-0.090MH | Z | Average | 10kHz | 2 | 30kHz | Average | | |
| | 0.090MHz-0.110MH | Z | Quasi-peak | 10kHz | 2 | 30kHz | Quasi-peak | | |
| | 0.110MHz-0.490MH | Z | Peak | 10kHz | <u> </u> | 30kHz | Peak | | |
| | 0.110MHz-0.490MH | Z | Average | 10kHz | <u> </u> | 30kHz | Average | | |
| | 0.490MHz -30MHz | 0.490MHz -30MHz Quasi-pe | | | | | Quasi-peak | | |
| | 30MHz-1GHz | | Quasi-peak | 100 kH | lz | 300kHz | Quasi-peak | | |
| | Above 1GHz | Peak | 1MHz | 1MHz | | Peak | | | |
| | Above Idiiz | | Peak | 1MHz | 1MHz | | Average | | |
| Limit: | Frequency | Frequency Fig. (mic | | Limit (dBuV/m) | Remark | | Measureme distance (n | | |
| | 0.009MHz-0.490MHz | 2 | 400/F(kHz) | - | | | 300 | | |
| | 0.490MHz-1.705MHz | 24 | 1000/F(kHz) | - | - | | 30 | | |
| | 1.705MHz-30MHz | | 30 | - | - | | 30 | | |
| | 30MHz-88MHz | | 100 | 40.0 | Ø | uasi-peak | 3 | | |
| | 88MHz-216MHz | | 150 | 43.5 | Q | uasi-peak | 3 | | |
| | 216MHz-960MHz | | 200 | 46.0 | Q | uasi-peak | 3 | | |
| | 960MHz-1GHz 500 | | 500 | 54.0 | Quasi-peak | | 3 | | |
| | Above 1GHz | 54.0 | - | Average | 3 | | | | |
| | Note: 15.35(b), Unless otherwise specified, the limit on pea frequency emissions is 20dB above the maximum permitted average e limit applicable to the equipment under test. This peak limit applies to t peak emission level radiated by the device. | | | | | | erage emissio | n | |
| Test Setup: | | | | | | | | | |



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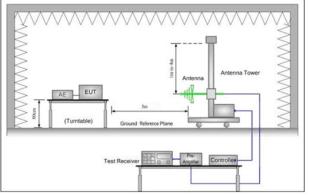


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

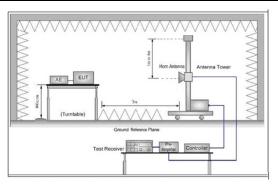


Figure 3. Above 1 GHz

Test Procedure:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna 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.
- d. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB 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 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)
- h. The radiation measurements are performed in X, Y, Z axis positioning



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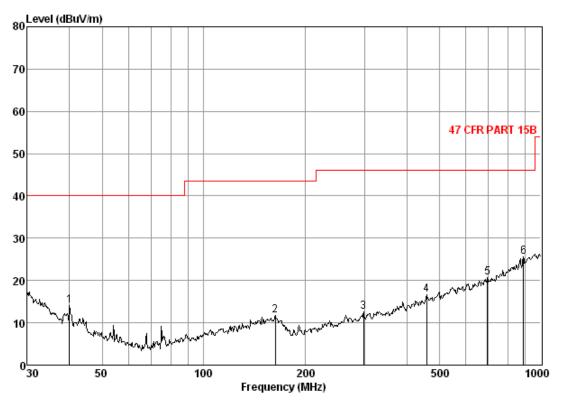
| | for Transmitting mode, and found the X axis positioning which it is the worst case.i. Repeat above procedures until all frequencies measured was complete. |
|-------------------|---|
| Test Mode: | Transmitting mode, |
| Instruments Used: | Refer to section 6 for details |
| Test Results: | Pass |



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| Radiated Emission below 1GHz | | | | | |
|---------------------------------------|--|--|--|--|--|
| 30MHz~1GHz (QP) | | | | | |
| Test mode: Transmitting mode Vertical | | | | | |



Condition: 47 CFR PART 15B 3m 3142C VERTICAL

Job No. : 3386RF Mode : TX mode

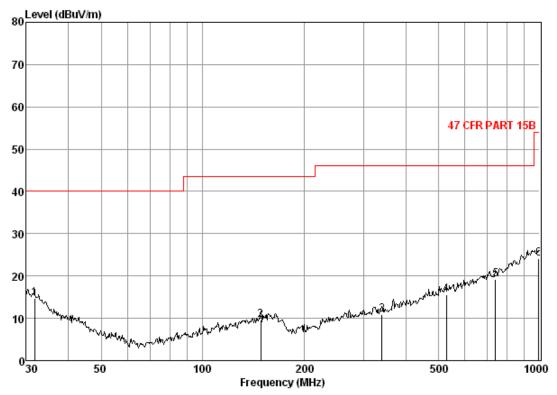
| | Freq | | | Preamp Factor | Read Level | | Limit Line | Over Limit |
|----------------------------|---|--|--|--|--|--|----------------------------------|--|
| | MHz | d₿ | dB/m | dB | dBuV | $\overline{\text{dBuV/m}}$ | $\overline{\text{dBuV/m}}$ | d B |
| 1 2 3 4 5 6 | 39. 99 163. 18 298. 27 459. 11 694. 42 887. 61 | 0.60 1.34 1.89 2.45 2.89 3.55 | 11. 20 9. 50 9. 62 13. 40 16. 60 20. 80 | 27. 32 26. 85 26. 41 27. 50 27. 42 26. 85 | 29. 67 27. 69 27. 51 28. 34 28. 58 28. 06 | 14. 15 11. 68 12. 61 16. 69 20. 65 25. 56 | 43.50 46.00 46.00 46.00 | -25.85 -31.82 -33.39 -29.31 -25.35 -20.44 |



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| Test mode: | Transmitting mode | Horizontal |
|------------|-------------------|------------|
| | | |



Condition: 47 CFR PART 15B 3m 3142C HORIZONTAL

Job No. : 3386RF Mode : TX mode

| | Freq | | | Preamp Factor | | | Limit Line | Over Limit |
|-----------------------|---|--|---|--|--|---|----------------------------------|--|
| | MHz | d₿ | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 2 3 4 5 | 31. 73 148. 96 340. 78 528. 25 739. 66 993. 01 | 0.60 1.32 2.03 2.63 3.03 3.69 | 16.57 9.23 10.50 14.18 17.80 20.97 | 27. 35 26. 91 26. 73 27. 65 27. 37 26. 33 | 24. 96 26. 04 25. 01 26. 34 25. 79 25. 80 | 14. 78 9. 68 10. 81 15. 50 19. 25 24. 13 | 43.50 46.00 46.00 46.00 | -25. 22 -33. 82 -35. 19 -30. 50 -26. 75 -29. 87 |



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| Transmitte | r Emiss | ion above | 1GHz | | | | | |
|--------------------|-----------------------|-----------------------------|--------------------------|-------------------------|-------------------|------------------------|-----------------------|--------------|
| Test mode: | (| GFSK | Test | channel: | Lowest | Rema | ırk: | Peak |
| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 3516.592 | 3.75 | 33.22 | 40.67 | 45.94 | 42.24 | 74 | -31.76 | Vertical |
| 4804.000 | 4.69 | 34.70 | 41.63 | 45.85 | 43.61 | 74 | -30.39 | Vertical |
| 5971.290 | 5.12 | 35.64 | 40.94 | 47.48 | 47.30 | 74 | -26.70 | Vertical |
| 7206.000 | 5.77 | 35.88 | 39.87 | 47.62 | 49.40 | 74 | -24.60 | Vertical |
| 9608.000 | 5.99 | 37.30 | 37.80 | 44.60 | 50.09 | 74 | -23.91 | Vertical |
| 11140.850 | 6.26 | 38.47 | 37.92 | 44.75 | 51.56 | 74 | -22.44 | Vertical |
| 3709.691 | 3.91 | 33.45 | 40.83 | 46.54 | 43.07 | 74 | -30.93 | Horizontal |
| 4804.000 | 4.69 | 34.70 | 41.63 | 47.71 | 45.47 | 74 | -28.53 | Horizontal |
| 5925.863 | 5.10 | 35.59 | 40.99 | 46.55 | 46.25 | 74 | -27.75 | Horizontal |
| 7206.000 | 5.77 | 35.88 | 39.87 | 47.09 | 48.87 | 74 | -25.13 | Horizontal |
| 9608.000 | 5.99 | 37.30 | 37.80 | 44.57 | 50.06 | 74 | -23.94 | Horizontal |
| 11457.210 | 6.34 | 38.41 | 38.05 | 45.42 | 52.12 | 74 | -21.88 | Horizontal |

| Test mode: | | GFSK . | | t channel: | Middle | Rem | ark: | Peak | |
|--------------------|-----------------------|-----------------------------|--------------------------|-------------------------|-------------------|------------------------|-----------------------|--------------|--|
| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization | |
| 3625.669 | 3.84 | 33.34 | 40.76 | 47.10 | 43.52 | 74 | -30.48 | Vertical | |
| 4880.000 | 4.72 | 34.59 | 41.68 | 46.46 | 44.09 | 74 | -29.91 | Vertical | |
| 5865.832 | 5.08 | 35.48 | 41.04 | 47.12 | 46.64 | 74 | -27.36 | Vertical | |
| 7320.000 | 5.92 | 35.93 | 39.77 | 46.65 | 48.73 | 74 | -25.27 | Vertical | |
| 9760.000 | 5.98 | 37.46 | 37.66 | 44.23 | 50.01 | 74 | -23.99 | Vertical | |
| 11027.980 | 6.23 | 38.49 | 37.88 | 44.36 | 51.20 | 74 | -22.80 | Vertical | |
| 3700.260 | 3.91 | 33.45 | 40.81 | 46.53 | 43.08 | 74 | -30.92 | Horizontal | |
| 4880.000 | 4.72 | 34.59 | 41.68 | 46.73 | 44.36 | 74 | -29.64 | Horizontal | |
| 6094.137 | 5.15 | 35.82 | 40.84 | 45.45 | 45.58 | 74 | -28.42 | Horizontal | |
| 7320.000 | 5.92 | 35.93 | 39.77 | 46.27 | 48.35 | 74 | -25.65 | Horizontal | |
| 9760.000 | 5.98 | 37.46 | 37.66 | 44.15 | 49.93 | 74 | -24.07 | Horizontal | |
| 11370.050 | 6.31 | 38.43 | 38.02 | 44.29 | 51.01 | 74 | -22.99 | Horizontal | |



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| Test mode: | | GFSK | Tes | t channel: | Highest | Rem | ark: | Peak |
|--------------------|-----------------------|-----------------------------|--------------------------|-------------------------|-------------------|------------------------|-----------------------|--------------|
| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 3672.110 | 3.88 | 33.41 | 40.80 | 47.21 | 43.70 | 74 | -30.30 | Vertical |
| 4960.000 | 4.76 | 34.46 | 41.74 | 46.70 | 44.18 | 74 | -29.82 | Vertical |
| 5986.509 | 5.12 | 35.67 | 40.94 | 46.15 | 46.00 | 74 | -28.00 | Vertical |
| 7440.000 | 6.04 | 35.98 | 39.67 | 46.69 | 49.04 | 74 | -24.96 | Vertical |
| 9920.000 | 5.98 | 37.63 | 37.53 | 43.45 | 49.53 | 74 | -24.47 | Vertical |
| 11370.050 | 6.31 | 38.43 | 38.02 | 44.33 | 51.05 | 74 | -22.95 | Vertical |
| 3410.797 | 3.65 | 33.23 | 40.61 | 47.42 | 43.69 | 74 | -30.31 | Horizontal |
| 4960.000 | 4.76 | 34.46 | 41.74 | 47.91 | 45.39 | 74 | -28.61 | Horizontal |
| 6094.137 | 5.15 | 35.82 | 40.84 | 48.26 | 48.39 | 74 | -25.61 | Horizontal |
| 7440.000 | 6.04 | 35.98 | 39.67 | 47.73 | 50.08 | 74 | -23.92 | Horizontal |
| 9920.000 | 5.98 | 37.63 | 37.53 | 44.84 | 50.92 | 74 | -23.08 | Horizontal |
| 11457.210 | 6.34 | 38.41 | 38.05 | 45.36 | 52.06 | 74 | -21.94 | Horizontal |

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 - Final Test Level = Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

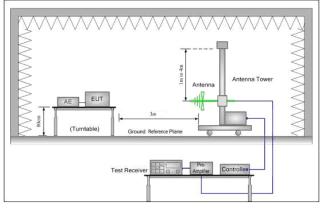


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7.9 Restricted bands around fundamental frequency

| Test Requirement: | 47 CFR Part 15C Section 15 | 5.209 and 15.205 | |
|-------------------|----------------------------|-----------------------|------------------|
| Test Method: | ANSI C63.10 2009 | | |
| Test Site: | Measurement Distance: 3m | (Semi-Anechoic Chambe | r) |
| Limit: | Frequency | Limit (dBuV/m @3m) | Remark |
| | 30MHz-88MHz | 40.0 | Quasi-peak Value |
| | 88MHz-216MHz | 43.5 | Quasi-peak Value |
| | 216MHz-960MHz | 46.0 | Quasi-peak Value |
| | 960MHz-1GHz | 54.0 | Quasi-peak Value |
| | Above 1GHz | 54.0 | Average Value |
| | Above IGHZ | 74.0 | Peak Value |
| | | _ | |
| Test Setup: | | | |



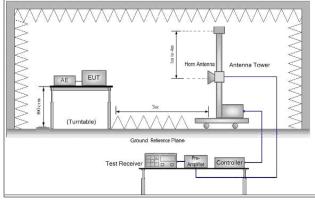


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

Test Procedure:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna 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.
- d. 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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel



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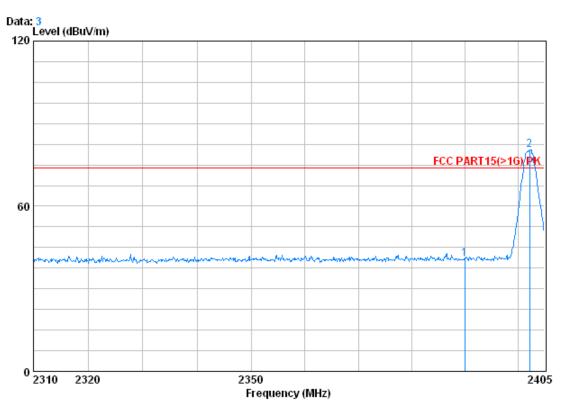
| | g. Test the EUT in the lowest channel , the Highest channel h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. i. Repeat above procedures until all frequencies measured was complete. |
|------------------------|---|
| Exploratory Test Mode: | Non-hopping transmitting with GFSK modulation |
| Instruments Used: | Refer to section 6 for details |
| Test Results: | Pass |



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Test plot as follows:



Condition : FCC PART15(>1G) PK 3m VERTICAL

Job No. : 3386RF Mode : 2402

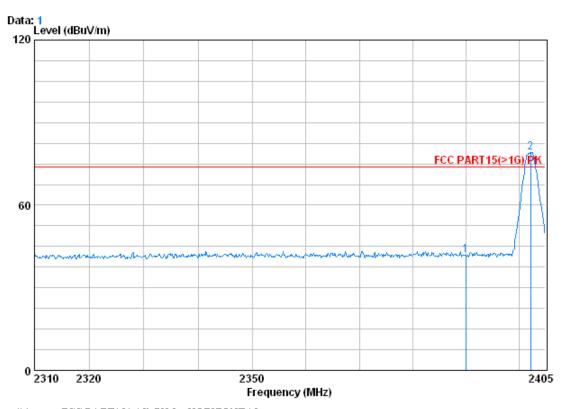
| | | | Cable | Antenna | Preamp | Read | | Limit | Over |
|---|---|----------|-------|---------|--------|-------|--------|--------|--------|
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit |
| | | | | | | | | | |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| | | | | , | | | , | , | |
| 1 | | 2390.000 | 2 08 | 32 51 | 39.85 | 45 31 | 40 06 | 74 00 | _33 04 |
| _ | | 2050.000 | 2.50 | 02.01 | 00.00 | 10.01 | 10.50 | 11.00 | 33.01 |
| 2 | 0 | 2402.245 | 2.98 | 32.51 | 39.86 | 84.71 | 80.34 | 74.00 | 6.34 |



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Test mode: GFSK Test channel: Lowest Remark: Peak Horizontal



Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job No. : 3386RF Mode : 2402

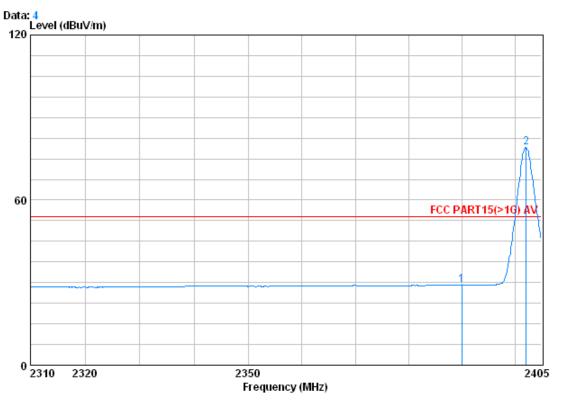
| | | | Cablei | Antenna | Preamp | Read | | Limit | Over |
|---|---|----------|--------|---------|--------|-------|--------|--------|--------|
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit |
| | | | | | | | | | |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| | | | | | | | | | |
| 1 | | 2390.000 | 2.98 | 32.51 | 39.85 | 46.15 | 41.79 | 74.00 | -32.21 |
| 2 | ß | 2402.245 | 2.98 | 32.51 | 39.86 | 83.59 | 79.22 | 74.00 | 5.22 |
| _ | _ | | | | | | | | |



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Test mode: GFSK Test channel: Lowest Remark: Average Vertical



Condition : FCC PART15(>1G) AV 3m VERTICAL

Job No. : 3386RF Mode : 2402

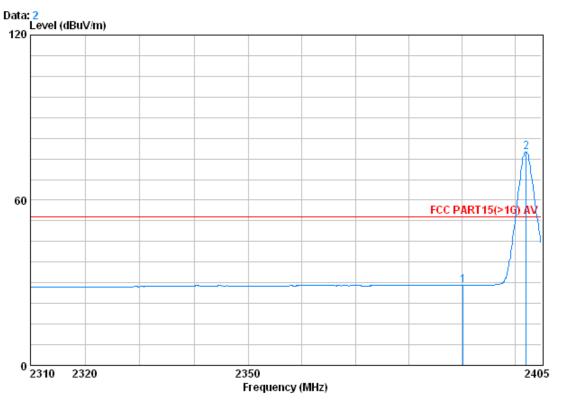
| | | | Cablei | Antenna | Preamp | Read | | Limit | Over |
|---|-----|----------------------|--------|---------|----------------|-------|--------|--------|-------|
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 2 | . @ | 2390.000 2402.150 | | | 39.85 39.86 | | | | |



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Test mode: GFSK Test channel: Lowest Remark: Average Horizontal



Condition : FCC PART15(>1G) AV 3m HORIZONTAL

Job No. : 3386RF Mode : 2402

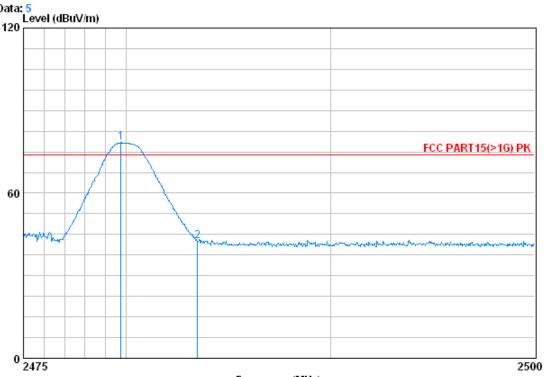
| | | | Cablei | Antenna | Preamp | Read | | Limit | Over |
|---|---|----------|--------|---------|--------|-------|--------|--------|--------|
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | | 2390.180 | 2.98 | 32.51 | 39.85 | 33.54 | 29.18 | 54.00 | -24.82 |
| 2 | 0 | 2402.150 | 2.98 | 32.51 | 39.86 | 81.95 | 77.59 | 54.00 | 23.59 |



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| Test mode: | GFSK | Test channel: | Highest | Remark: | Peak | Vertical |
|--------------|--------|----------------|-----------|--------------|-------|------------|
| Tost Illoud. | ai oix | i cot chamici. | riigiicat | i icilialik. | i can | v Ci ticai |



Frequency (MHz)

Condition : FCC PART15(>1G) PK 3m VERTICAL

Job No. : 3386RF Mode : 2480

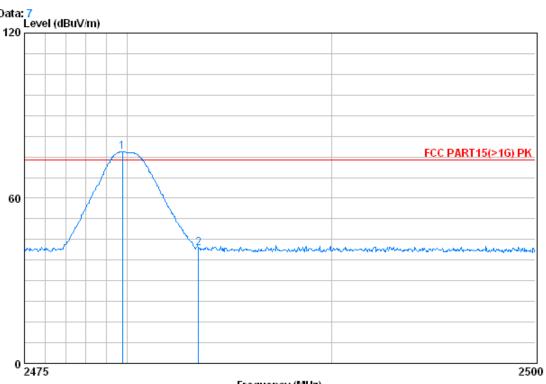
| | Cable | intenna | Preamp | Read | | Limit | Over |
|----------|-------|----------------------------------|--|--|---|--|---|
| Freq | Loss | Factor | Factor | Level | Level | Line | Limit |
| | | | | | | | |
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| | | | | | | | |
| 2479.750 | 3.03 | 32.67 | 39.92 | 82.54 | 78.32 | 74.00 | 4.32 |
| 2483.500 | 3.03 | 32.67 | 39.92 | 46.69 | 42.48 | 74.00 | -31.52 |
| | MHz - | Freq Loss MHz dB 2479.750 3.03 | Freq Loss Factor MHz dB dB/m 2479.750 3.03 32.67 | Freq Loss Factor Factor MHz dB dB/m dB 2479.750 3.03 32.67 39.92 | Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 2479.750 3.03 32.67 39.92 82.54 | MHz dB dB/m dB dBuV dBuV/m 2479.750 3.03 32.67 39.92 82.54 78.32 | Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 2479.750 3.03 32.67 39.92 82.54 78.32 74.00 |



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| Ī | Test mode: | GFSK | Test channel: | Highest | Remark: | Peak | Horizontal |
|---|------------|------|---------------|---------|---------|------|------------|
| | | | | | | | |



Frequency (MHz)

: FCC PART15(>1G) PK 3m HORIZONTAL Condition

Job No. : 3386RF : 2480 Mode

| | | CableAntenna | | Preamp Read | | Limit | | Over | |
|-----|----------|--------------|--------|-------------|-------|--------|--------|--------|--|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 X | 2479.775 | 3.03 | 32.67 | 39.92 | 81.08 | 76.86 | 74.00 | 2.86 | |
| 2 | 2483.500 | 3.03 | 32.67 | 39.92 | 45.98 | 41.76 | 74.00 | -32.24 | |

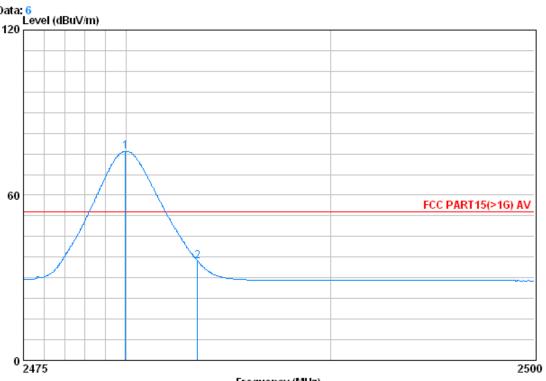
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| Test mode: | GFSK | Test channel: | Highest | Remark: | Average | Vertical |
|------------|--------|---------------|----------|---------|---------|------------|
| Test mode. | ai oit | rest chamber. | riignest | Hemaik. | Average | v Gi ticai |



Frequency (MHz)

Condition : FCC PART15(>1G) AV 3m VERTICAL

Job No. : 3386RF Mode : 2480

| | Freq | | | Preamp Factor | Read Level | | Limit Line | |
|-----|----------------------|----|------|------------------|---------------|--------|---------------|----|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 0 | 2479.975 2483.500 | | | 39.92 39.92 | | | | |

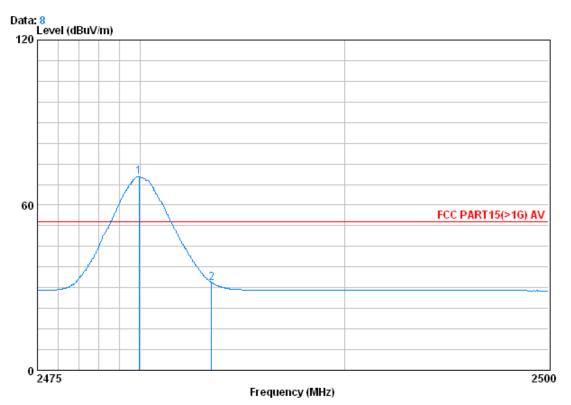




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| Test mode: | GFSK | Test channel: | Highest | Remark: | Average | Horizontal |
|------------|------|---------------|---------|---------|---------|------------|
|------------|------|---------------|---------|---------|---------|------------|



Condition : FCC PART15(>1G) AV 3m HORIZONTAL

Job No. : 3386RF Mode : 2480

| | | Cable | Antenna | Preamp | Read | | Limit | Over |
|-----|----------|-------|---------|--------|-------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit |
| | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| | | | | | | | | |
| 1 0 | 2479.950 | 3.03 | 32.67 | 39.92 | 74.66 | 70.44 | 54.00 | 16.44 |
| 2 | 2483.500 | 3.03 | 32.67 | 39.92 | 36.05 | 31.83 | 54.00 | -22.17 |

Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor