

FCC PART 15, SUBPART C ISEDC RSS-247, ISSUE 3, AUGUST 2023

TEST REPORT

For

VergeSense, Inc.

2261 Market Street, #5058 San Francisco, CA 94114, USA

FCC ID: 2BFSEG400B IC: 32309-G400B

| Report Type: | | Product Type: | |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------|--|
| Class II Permis | sive Change | Bluetooth LE LR Module | |
| Prepared By: | Xavier Kelley RF Test Enginee | er AUNZ | |
| Report Number: | R2402274-247-02 | | |
| Report Date: | 2024-04-09 | | |
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Note: This test report was prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. This test report shall not be used by the customer to claim product certification, approval, or endorsement by A2LA or any agency of the United States Government or any foreign government.

* This test report may contain data and test methods that are not covered by BACL's scope of accreditation as of the test report date shown above. These items are marked within the test report text with an asterisk "*"

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DOCUMENT REVISION HISTORY

| Revision Number Report Number | | Description of Revision | Date of Revision |
|-------------------------------|-----------------|-------------------------|------------------|
| 0 | R2402274-247-02 | C2PC | 2024-04-09 |

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1 General Description

1.1 Product Description for Equipment Under Test (EUT)

This test report is prepared on behalf of *VergeSense, Inc.*, and their product Bluetooth LE LR Module, FCC ID: 2BFSEG400B, IC: 32309-G400B. The host device, or the "EUT" as referred to in this report is a G400/Beach Ball gateway at contains the Bluetooth LE LR Module as well as another pre-certified Wi-Fi module (FCC ID: 2BFSEG400W, IC: 32309-G400W). This report is to show continuous compliance for the Bluetooth LE LR Module with new antenna and colocation with other radio installed in the host device.

1.2 Mechanical Description of EUT

The UUT measures approximately 9.7 cm (L) x 9.7 cm (W) x 2.6 cm (H) and weighs approximately 0.15 kg.

The data gathered was from a production sample provided by VergeSense, Inc. with S/N: 201-180720

1.3 Objective

This report is prepared on behalf of *VergeSense, Inc.* in accordance with Part 2, Subpart J, and Part 15, Subpart C of the Federal Communication Commission's rules and ISEDC RSS-247 Issue 3, August 2023.

The objective is to determine compliance with FCC Part 15.247 and ISEDC RSS-247 for Antenna Requirement, RF Exposure & Radiated Spurious Emissions.

In order to determine compliance, the manufacturer or a contracted laboratory makes measurements and takes the necessary steps to ensure that the equipment complies with the appropriate technical standards.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product maybe which result in lowering the immunity should be checked to ensure compliance has been maintained (i.e., printed circuit board layout changes, different line filter, different power supply, harnessing and/or I/O cable changes, etc.).

1.4 Related Submittal(s)/Grant(s)

N/A

1.5 Test Methodology

All measurements contained in this report were conducted in accordance with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices and FCC KDB 558074 D01 DTS Meas Guidance v05r02: Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247.

1.6 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in the field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

| Parameter | Measurement uncertainty | |
|-----------------------------------|-------------------------|--|
| Occupied Channel Bandwidth | ±5 % | |
| RF output power, conducted | ±0.57 dB | |
| Power Spectral Density, conducted | ±1.48dB | |
| Unwanted Emissions, conducted | ±1.57dB | |
| All emissions, radiated | ±4.0 dB | |
| AC power line Conducted Emission | ±2.0 dB | |
| Temperature | ±2 ° C | |
| Humidity | ±5 % | |
| DC and low frequency voltages | ±1.0 % | |
| Time | ±2 % | |
| Duty Cycle | ±3 % | |

1.7 Test Facility Registrations

BACLs test facilities that are used to perform Radiated and Conducted Emissions tests are currently recognized by the Federal Communications Commission as Accredited with NIST Designation Number US1129.

BACL's test facilities that are used to perform Radiated and Conducted Emissions tests are currently registered with Industry Canada under Registration Numbers: 3062A-1, 3062A-2, and 3062A-3.

BACL is a Chinese Taipei Bureau of Standards Metrology and Inspection (BSMI) validated Conformity Assessment Body (CAB), under Appendix B, Phase I Procedures of the APEC Mutual Recognition Arrangement (MRA). BACL's BSMI Lab Code Number is: SL2-IN-E-1002R

BACL's test facilities that are used to perform AC Line Conducted Emissions, Telecommunications Line Conducted Emissions, Radiated Emissions from 30 MHz to 1 GHz, and Radiated Emissions from 1 GHz to 6 GHz are currently recognized as Accredited in accordance with the Voluntary Control Council for Interference [VCCI] Article 15 procedures under Registration Number A-0027.

1.8 Test Facility Accreditations

Bay Area Compliance Laboratories Corp. (BACL) is:

A- An independent, 3rd-Party, Commercial Test Laboratory accredited to ISO/IEC 17025:2017 by A2LA (Test Laboratory Accreditation Certificate Number 3297.02), in the fields of: Electromagnetic Compatibility and Telecommunications. Unless noted by an Asterisk (*) in the Compliance Matrix (See Section 3 of this Test Report), BACL's ISO/IEC 17025:2005 Scope of Accreditation includes all of the Test Method Standards and/or the Product Family Standards detailed in this Test Report.

BACL's ISO/IEC 17025:2005 Scope of Accreditation includes a comprehensive suite of EMC Emissions, EMC Immunity, Radio, RF Exposure, Safety and wireline Telecommunications test methods applicable to a wide

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range of product categories. These product categories include Central Office Telecommunications Equipment [including NEBS - Network Equipment Building Systems], Unlicensed and Licensed Wireless and RF devices, Information Technology Equipment (ITE); Telecommunications Terminal Equipment (TTE); Medical Electrical Equipment; Industrial, Scientific and Medical Test Equipment; Professional Audio and Video Equipment; Industrial and Scientific Instruments and Laboratory Apparatus; Cable Distribution Systems, and Energy Efficient Lighting.

B- A Product Certification Body accredited to ISO/IEC 17065:2012 by A2LA (Product Certification Body Accreditation Certificate Number 3297.03) to certify

- For the USA (Federal Communications Commission):

- 1- All Unlicensed radio frequency devices within FCC Scopes A1, A2, A3, and A4;
- 2- All Licensed radio frequency devices within FCC Scopes B1, B2, B3, and B4;
- 3- All Telephone Terminal Equipment within FCC Scope C.

- For the Canada (Industry Canada):

- 1 All Scope 1-Licence-Exempt Radio Frequency Devices;
- 2 All Scope 2-Licensed Personal Mobile Radio Services;
- 3 All Scope 3-Licensed General Mobile & Fixed Radio Services;
- 4 All Scope 4-Licensed Maritime & Aviation Radio Services;
- 5 All Scope 5-Licensed Fixed Microwave Radio Services
- 6 All Broadcasting Technical Standards (BETS) in the Category I Equipment Standards List.
- For Singapore (Info-Communications Development Authority (IDA)):
 - All Line Terminal Equipment: All Technical Specifications for Line Terminal Equipment Table 1 of IDA MRA Recognition Scheme: 2011, Annex 2
 - 2. All Radio-Communication Equipment: All Technical Specifications for Radio-Communication Equipment – Table 2 of IDA MRA Recognition Scheme: 2011, Annex 2
- For the Hong Kong Special Administrative Region:
 - 1 All Radio Equipment, per KHCA 10XX-series Specifications;
 - 2 All GMDSS Marine Radio Equipment, per HKCA 12XX-series Specifications;
 - 3 All Fixed Network Equipment, per HKCA 20XX-series Specifications.
- For Japan:

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- MIC Telecommunication Business Law (Terminal Equipment):
 - All Scope A1 Terminal Equipment for the Purpose of Calls;
 - All Scope A2 Other Terminal Equipment
- 2 Radio Law (Radio Equipment):
 - All Scope B1 Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 1 of the Radio Law
 - All Scope B2 Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 2 of the Radio Law
 - All Scope B3 Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 3 of the Radio Law

C- A Product Certification Body accredited to ISO/IEC 17065:2012 by A2LA (Product Certification Body Accreditation Certificate Number 3297.01) to certify Products to USA's Environmental Protection Agency (EPA) ENERGY STAR Product Specifications for:

- 1 Electronics and Office Equipment:
 - for Telephony (ver. 3.0)
 - for Audio/Video (ver. 3.0)
 - for Battery Charging Systems (ver. 1.1)
 - for Set-top Boxes & Cable Boxes (ver. 4.1)
 - for Televisions (ver. 6.1)
 - for Computers (ver. 6.0)
 - for Displays (ver. 6.0)
 - for Imaging Equipment (ver. 2.0)

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- for Computer Servers (ver. 2.0)
- 2 Commercial Food Service Equipment
 - for Commercial Dishwashers (ver. 2.0)
 - for Commercial Ice Machines (ver. 2.0)
 - for Commercial Ovens (ver. 2.1)
 - for Commercial Refrigerators and Freezers
- 3 Lighting Products
 - For Decorative Light Strings (ver. 1.5)
 - For Luminaires (including sub-components) and Lamps (ver. 1.2)
 - For Compact Fluorescent Lamps (CFLs) (ver. 4.3)
 - For Integral LED Lamps (ver. 1.4)
- 4 Heating, Ventilation, and AC Products
 - for Residential Ceiling Fans (ver. 3.0)
 - for Residential Ventilating Fans (ver. 3.2)
- 5 Other
- For Water Coolers (ver. 3.0)

D- A NIST Designated Phase-I and Phase-II Conformity Assessment Body (CAB) for the following economies and regulatory authorities under the terms of the stated MRAs/Treaties:

- Australia: ACMA (Australian Communication and Media Authority) APEC Tel MRA -Phase I;
- Canada: (Innovation, Science and Economic development Canada ISED) Foreign Certification Body FCB – APEC Tel MRA -Phase I & Phase II;
 - Chinese Taipei (Republic of China Taiwan):
 - o BSMI (Bureau of Standards, Metrology and Inspection) APEC Tel MRA -Phase I;
 - NCC (National Communications Commission) APEC Tel MRA -Phase I;
- European Union:
 - $\circ~$ EMC Directive 2014/30/EU US-EU EMC & Telecom MRA CAB (NB)
 - Radio Equipment (RE) Directive 2014/53/EU US-EU EMC & Telecom MRA CAB (NB)
 - Low Voltage Directive (LVD) 2014/35/EU
- Hong Kong Special Administrative Region: (Office of the Telecommunications Authority OFTA) APEC Tel MRA -Phase I & Phase II
- Israel US-Israel MRA Phase I
- Republic of Korea (Ministry of Communications Radio Research Laboratory) APEC Tel MRA -Phase I
- Singapore: (Infocomm Media Development Authority IMDA) APEC Tel MRA -Phase I & Phase II;
- Japan: VCCI Voluntary Control Council for Interference US-Japan Telecom Treaty VCCI Side Letter-
- USA:
 - $\circ \quad \text{ENERGY STAR Recognized Test Laboratory} \text{US EPA}$
 - Telecommunications Certification Body (TCB) US FCC;
 - Nationally Recognized Test Laboratory (NRTL) US OSHA
- Vietnam: APEC Tel MRA -Phase I;

2 System Test Configuration

2.1 Justification

The EUT was configured for testing according to ANSI C63.10-2013 and FCC KDB 558074 D01 DTS Meas Guidance v05r02.

The EUT was tested in a testing mode to represent worst-case results during the final qualification test.

2.2 EUT Exercise Software

The exercising software used during testing was "TeraTerm", provided by VergeSense, Inc.. The software is compliant with the standard requirements being tested against. Conducted power was verified prior to testing in order to maintain consistency with original certification.

| 1M | IBIT |
|----------------------------|---------------|
| Channel Frequency (MHz) | Power Setting |
| 2402 | Pos8dBm |
| 2440 | Pos8dBm |
| 2480 | Pos8dBm |

2MBIT

| Channel Frequency (MHz) | Power Setting | | |
|----------------------------|---------------|--|--|
| 2402 | Pos8dBm | | |
| 2440 | Pos8dBm | | |
| 2480 | Pos8dBm | | |

2.3 Equipment Modification

No modifications were made to the EUT during testing.

2.4 Local Support Equipment

| Manufacturer | Description | Model | |
|--------------|-------------|---------------|--|
| Dell | Laptop | Latitude 5401 | |

2.5 **Power Supply and Line Filters**

| Manufacturer Description | | Model | Serial Number |
|--------------------------|--|-------------|---------------|
| - PoE | | POE480050US | - |

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2.6 Interface Ports and Cabling

| Cable Description | Length (m) | То | From |
|-------------------|------------|--------|------|
| Ethernet Cable | < 2 | UUT | POE |
| Ethernet Cable | < 2 | Laptop | POE |

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3 Summary of Test Results

| FCC & ISEDC Rules | Description of Test | Results |
|------------------------------------------------------------------------------------------------------------|-----------------------------|-----------|
| FCC §15.203 ISEDC RSS-Gen §6.8 | Antenna Requirements | Compliant |
| FCC §2.1091, §15.247(i) ISEDC RSS-102 | RF Exposure | Compliant |
| FCC §2.1053, §15.35(b), §15.205, §15.209, §15.247(d) ISEDC RSS-247 §5.5 ISEDC RSS-Gen §8.9, §8.10 | Radiated Spurious Emissions | Compliant |

BACL is responsible for all the information provided in this report, except when information is provided by the customer as identified in this report. Information provided by the customer, e.g., antenna gain, can affect the validity of results.

4 FCC §15.203 & ISEDC RSS-Gen §6.8 – Antenna Requirements

4.1 Applicable Standards

According to FCC §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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The 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.

And according to FCC §15.247 (b) (4), if transmitting antennas of directional gain greater than 6 dBi are used the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

According to ISEDC RSS-Gen §6.8: Transmitter Antenna

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotopically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.

For license-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:

This radio transmitter has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

4.2 Antenna Description

| External/Internal/ Integral Antenna Type | | Frequency Range (MHz) | Maximum Antenna Gain (dBi) |
|---------------------------------------------|--|--------------------------|----------------------------------|
| Internal Stamped metal | | 2400-2500 | 1.9 |

5 FCC §2.1091, FCC §15.247(i) & ISEDC RSS-102 – RF Exposure

5.1 Applicable Standards

According to FCC §15.247(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

| Frequency Range (MHz) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm ²) | Averaging Time (minutes) |
|-----------------------------|-------------------------------------|-------------------------------------|----------------------------------------|-----------------------------|
| | Limits for Gene | eral Population/Uncont | rolled Exposure | |
| 0.3-1.34 | 614 | 1.63 | * (100) | 30 |
| 1.34-30 | 824/f | 2.19/f | * (180/f ²) | 30 |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1500 | / | / | f/1500 | 30 |
| 1500-100,000 | / | / | 1.0 | 30 |

Limits for General Population/Uncontrolled Exposure

f = frequency in MHz

* = Plane-wave equivalent power density

According to ISED RSS-102 Issue 5:

2.5.2 Exemption Limits for Routine Evaluation – RF Exposure Evaluation

RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

- below 20 MHz⁶ and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance);
- at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 4.49/f^{0.5} W (adjusted for tune-up tolerance), where f is in MHz;
- at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance);
- at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1.31 x 10⁻² f^{0.6834} W (adjusted for tune-up tolerance), where f is in MHz;
- at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 5 W (adjusted for tune-up tolerance).

In these cases, the information contained in the RF exposure technical brief may be limited to information that demonstrates how the e.i.r.p. was derived.

5.2 MPE Prediction

Predication of MPE limit at a given distance, Equation from OET Bulletin 65, Edition 97-01

$$S = PG/4\pi R^2$$

Where: S = power density

P = power input to antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Note: According to MIMOFCC KDB 662911 D02 MIMO with Cross Polarized Antenna v01, Where an FCC rule specifies limits in radiated terms such as EIRP or ERP, the limits apply to the maximum emission that would be observed by a linearly polarized measurement antenna. Therefore, the highest output power from single antenna power was selected to calculate in this section.

5.3 RF exposure evaluation for FCC

BLE:

Maximum output power at antenna input terminal (dBm): 8.90

Maximum output power at antenna input terminal (mW): 7.76

Prediction distance (cm): 20

Prediction frequency (MHz): 2402

Maximum Directional Antenna Gain, typical (dBi): 1.9

Maximum Antenna Gain (numeric): 1.55

Power density of prediction frequency at 20.0 cm (mW/cm²): 0.002

FCC MPE limit for uncontrolled exposure at prediction frequency (mW/cm²): <u>1.0</u>

The device is compliant with the requirement FCC MPE limit for uncontrolled exposure. The maximum power density at the distance of 20cm is 0.002 mW/cm^2 . Limit is 1.0 mW/cm^2 .

Colocation evaluation: BLE ratio + Wifi ratio < 1 2.4Wifi colocation: 0.002/1 + 0.08/1 = 0.082 < 15Wifi colocation: 0.002/1 + 0.04/1 = 0.042 < 1

Note: refer to R2402274-247-01 for 2.4Wifi (FCC ID: 2BFSEG400W, IC: 32309-G400W) Note: refer to R2402274-407 for 5Wifi (FCC ID: 2BFSEG400W, IC: 32309-G400W)

5.4 **RF** exposure evaluation exemption for IC

BLE

Maximum EIRP power = 8.90 dBm + 1.9 dBi = 10.8 dBm which is lesser than $1.31 \times 10^{-2} f^{0.6834} = 2.68 \text{ W} = 34.28 \text{ dBm}$.

Therefore, the RF exposure Evaluation is exempt.

6 FCC §15.35(b), §15.205, §15.209, §15.247(d) & ISEDC RSS-247 §5.5, RSS-Gen §8.9, §8.10 – Spurious Radiated Emissions

6.1 Applicable Standards

As per FCC §15.35(b): Unless otherwise specified, on any frequency or frequencies above 1000 MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function. Unless otherwise specified, measurements above 1000 MHz shall be performed using a minimum resolution bandwidth of 1 MHz.

As Per FCC §15.205(a) except as show in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| $\begin{array}{c} 0.090 - 0.110\\ 0.495 - 0.505\\ 2.1735 - 2.1905\\ 4.125 - 4.128\\ 4.17725 - 4.17775\\ 4.20725 - 4.20775\\ 6.215 - 6.218\\ 6.26775 - 6.26825\\ 6.31175 - 6.31225\\ 8.291 - 8.294\\ 8.362 - 8.366\\ 8.37625 - 8.38675\\ 8.41425 - 8.41475\\ 12.29 - 12.293\\ 12.51975 - 12.52025\\ 12.57675 - 12.57725\\ 13.36 - 13.41\\ \end{array}$ | $\begin{array}{c} 16.42 - 16.423\\ 16.69475 - 16.69525\\ 25.5 - 25.67\\ 37.5 - 38.25\\ 73 - 74.6\\ 74.8 - 75.2\\ 108 - 121.94\\ 123 - 138\\ 149.9 - 150.05\\ 156.52475 - 156.52525\\ 156.7 - 156.9\\ 162.0125 - 167.17\\ 167.72 - 173.2\\ 240 - 285\\ 322 - 335.4\\ 399.9 - 410\\ 608 - 614\\ \end{array}$ | $\begin{array}{r} 960-1240\\ 1300-1427\\ 1435-1626.5\\ 1645.5-1646.5\\ 1660-1710\\ 1718.8-1722.2\\ 2200-2300\\ 2310-2390\\ 2483.5-2500\\ 2690-2900\\ 3260-3267\\ 3.332-3.339\\ 33458-3358\\ 3.600-4.400\\ \end{array}$ | $\begin{array}{c} 4.5-5.15\\ 5.35-5.46\\ 7.25-7.75\\ 8.025-8.5\\ 9.0-9.2\\ 9.3-9.5\\ 10.6-12.7\\ 13.25-13.4\\ 14.47-14.5\\ 15.35-16.2\\ 17.7-21.4\\ 22.01-23.12\\ 23.6-24.0\\ 31.2-31.8\\ 36.43-36.5\\ Above 38.6 \end{array}$ |

As per FCC §15.209(a): Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table

| Frequency (MHz) | Field Strength (micro volts/meter) | Measurement Distance (meters) |
|--------------------|---------------------------------------|----------------------------------|
| 0.009 - 0.490 | 2400/F(kHz) | 300 |
| 0.490 - 1.705 | 24000/F(kHz) | 30 |
| 1.705 - 30.0 | 30 | 30 |
| 30 - 88 | 100** | 3 |
| 88 - 216 | 150** | 3 |
| 216 - 960 | 200** | 3 |
| Above 960 | 500 | 3 |

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

As per FCC §15.247 (d),

in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. 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 §15.205(c).

As per ISEDC RSS-247 §5.5,

in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

As per ISEDC RSS-Gen §8.9,

Except where otherwise indicated in the applicable RSS, radiated emissions shall comply with the field strength limits shown in table 5 and table 6. Additionally, the level of any transmitter unwanted emission shall not exceed the level of the transmitter's fundamental emission.

| Frequency (MHz) | Field Strength (µV/m at 3 m) | | | | |
|-----------------|------------------------------|--|--|--|--|
| 30 - 88 | 100 | | | | |
| 88 - 216 | 150 | | | | |
| 216 - 960 | 200 | | | | |
| Above 960 | 500 | | | | |

Table 5 – General field strength limits at frequencies above 30 MHz

Table 6 - General field strength limits at frequencies below 30 MHz

| Frequency | Field Strength (micro volts/meter) | Measurement Distance (meters) |
|-----------------------------|---------------------------------------|----------------------------------|
| 9-490 kHz ^{Note 1} | 6.37/F (F in kHz) | 300 |
| 490 – 1705 kHz | 63.7/F (F in kHz) | 30 |
| 1.705 – 30 MHz | 0.08 | 30 |

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

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As per ISEDC RSS-Gen §8.10(c),

Unwanted emissions that do not fall within the restricted frequency bands listed in table 7 shall comply either with the limits specified in the applicable RSS or with those specified in table 5 and table 6.

| MHz | MHz | GHz |
|---------------------|-----------------------|---------------|
| 0.090 - 0.110 | 149.9 - 150.05 | 9.0 - 9.2 |
| 0.495 - 0.505 | 156.52475 - 156.52525 | 9.3 - 9.5 |
| 2.1735 - 2.1905 | 156.7 – 156.9 | 10.6 - 12.7 |
| 3.020 - 3.026 | 162.0125 - 167.17 | 13.25 - 13.4 |
| 4.125 - 4.128 | 167.72 - 173.2 | 14.47 - 14.5 |
| 4.17725 - 4.17775 | 240 - 285 | 15.35 - 16.2 |
| 4.20725 - 4.20775 | 322 - 335.4 | 17.7 - 21.4 |
| 5.677 - 5.683 | 399.9 - 410 | 22.01 - 23.12 |
| 6.215 - 6.218 | 608 - 614 | 23.6 - 24.0 |
| 6.26775 - 6.26825 | 960 - 1427 | 31.2 - 31.8 |
| 6.31175 - 6.31225 | 1435 - 1626.5 | 36.43 - 36.5 |
| 8.291 - 8.294 | 1645.5 - 1646.5 | Above 38.6 |
| 8.362 - 8.366 | 1660 - 1710 | |
| 8.37625 - 8.38675 | 1718.8 - 1722.2 | |
| 8.41425 - 8.41475 | 2200 - 2300 | |
| 12.29 - 12.293 | 2310 - 2390 | |
| 12.51975 - 12.52025 | 2483.5 - 2500 | |
| 12.57675 - 12.57725 | 2655 - 2900 | |
| 13.36 - 13.41 | 3260 - 3267 | |
| 16.42 - 16.423 | 3332 - 3339 | |
| 16.69475 - 16.69525 | 3345.8 - 3358 | |
| 16.80425 - 16.80475 | 3500 - 4400 | |
| 25.5 - 25.67 | 4500 - 5150 | |
| 37.5 - 38.25 | 5350 - 5460 | |
| 73 - 74.6 | 7250 - 7750 | |
| 74.8 - 75.2 | 8025 - 8500 | |
| 108 - 138 | | |

| Table 7 - Restricted | frequency | bands ^{Note 1} |
|----------------------|-----------|-------------------------|
|----------------------|-----------|-------------------------|

Note 1: Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

6.2 Test Setup

The radiated emissions tests were performed in the 5-meter chamber, using the setup in accordance with ANSI C63.10-2013. The specification used was the FCC §15.247 and ISEDC RSS-247 limits.

The spacing between the peripherals was 10 centimeters.

External I/O cables were draped along the edge of the test table and bundled when necessary.

6.3 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The EUT was set 3 meter away from the testing antenna, which was varied from 1-4 meters, and the EUT was placed on a turntable, which was 1.5 meters above the ground plane for above 1000 MHz measurements, the table shall be rotated for 360 degrees to find out the highest emission. The receiving antenna's polarity should be changed between horizontal and vertical.

The spectrum analyzer or receiver was set as:

Above 1000 MHz:

- (1) Peak: RBW = 1MHz / VBW = 1MHz / Sweep = Auto
- (2) Average: RBW = 1MHz / VBW = 10Hz or 1/T / Sweep = Auto

6.4 Corrected Amplitude and Margin Calculation

For emission above 1 GHz,

The Corrected Amplitude (CA) is calculated by adding the Antenna Factor (AF), the Cable Loss (CL), the Attenuator Factor (Atten) and subtracting the Amplifier Gain (Ga) to indicated Amplitude (Ai) reading. The basic equation is as follows:

CA = Ai + AF + CL + Atten - Ga

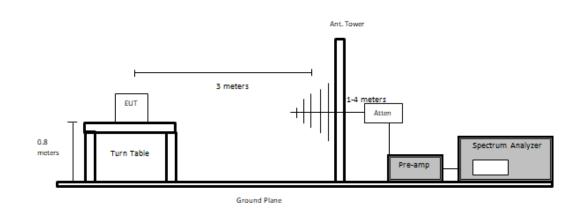
For example, a corrected amplitude of 40.3 dBuV/m = Indicated Reading (32.5 dBuV) + Antenna Factor (+23.5dB) + Cable Loss (3.7 dB) + Attenuator (10 dB) - Amplifier Gain (29.4 dB)

The "Margin" column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of -7 dB means the emission is 7 dB below the maximum limit. The equation for margin calculation is as follows:

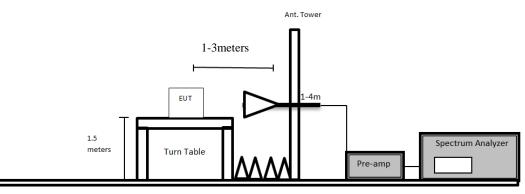
Margin = Corrected Amplitude – Limit

6.5 Test Setup Block Diagram

Below 1GHz



Above 1 GHz



Ground Plane

| BACL No | Manufacturer | Description | Model No. | Serial No. | Calibration Date | Calibration Interval |
|------------|-----------------------|-----------------------------------------|------------------------------|--------------------|---------------------|-------------------------|
| 624 | Agilent | Spectrum Analyzer | E4446A | MY48250238 | 2023-05-12 | 1 year |
| 327 | Sunol Sciences | System Controller | SC110V | 122303-1 | N/R | N/R |
| 1075 | Sunol Sciences | Boresight Tower | TLT3 | 050119-7 | N/R | N/R |
| 1388 | Sunol Sciences | Flush Mount Turntable | FM | 112005-2 | N/R | N/R |
| 658 | HP/ Agilant | Pre Amplifier | 8449B OPT HO2 | 3008A01103 | 2023-12-01 | 6 months |
| 1192 | ETS Lindgren | Horn Antenna | 3117 | 00218973 | 2022-09-29 | 2 years |
| 1247 | Uti flex | Micro - Coax | N/A | N/A | 2023-12-01 | 6 months |
| 1353 | RFMW | 2.92mm 10ft RF Cable DC to 40 GHz | P1CA- 29M29M- F150-120 | N/A | 2024-01-24 | 6 months |
| 827 | AH Systems | Preamplifier | PAM 1840 VH | 170 | 2023-11-08 | 1 year |
| 91 | Wisewave | Horn Antenna | ARH-4223-02 | 10555-02 | 2022-03-16 | 2 years |
| 672 | Micro-Tronics | 2.4-2.6 GHz Notch Filter | BRM50701 | 160 | 2023-03-09 | 1 year |
| 310 | Rohde & Schwarz | EMI test receiver 9 KHZ to 3 GHZ | ESCI 1166.5950.03 | 100338 | 2023-05-11 | 1 year |
| 316 | Sonoma Instruments | Preamplifier 10 kHz - 2.5 GHz | 317 | 260406 | 2024-02-27 | 6 months |
| 321 | Sunol Sciences | Biconilog Antenna | JB3 | A020106-2; 1504 | 2023-12-18 | 2 years |
| 1186 | Pasternack | Coaxial Cable, RG214 | PE3062- 1050CM | - | 2023-10-03 | 6 months |
| 1245 | - | 6dB Attenuator | PE7390-6 | 01182018A | 2023-12-18 | 2 years |
| 1246 | HP | RF Limiter | 11867A | 01734 | 2023-04-13 | 1 year |
| 1248 | Pasternack | RG214 COAX Cable | PE3062 | - | 2023-10-04 | 6 months |
| 1249 | Time microwave | LMR-400 Cable Dc-3 GHz | AE13684 | 2k80612-5 6fts | 2023-10-09 | 6 months |

6.6 Test Equipment List and Details

Note¹: cables, attenuators and notch filters included in the test set-up were checked each time before testing.

Statement of Traceability: BACL Corp. attests that all of the calibrations on the equipment items listed above were traceable to NIST or to another internationally recognized National Metrology Institute (NMI), and were compliant with the latest version of A2LA policy P102 "A2LA Policy on Metrological Traceability".

6.7 Test Environmental Conditions

| Temperature: | 23 °C |
|---------------------------|-----------|
| Relative Humidity: | 36% |
| ATM Pressure: | 101.8 kPa |

The testing was performed by Arturo Reyes from 03-05-2024 to 03-08-2024 in 5m chamber 3.

6.8 Summary of Test Results

According to the data hereinafter, the EUT <u>complied with the FCC Part 15.209, 15.247 and ISEDC RSS-247</u> <u>standards</u>' radiated emissions limits, and had the worst margin of:

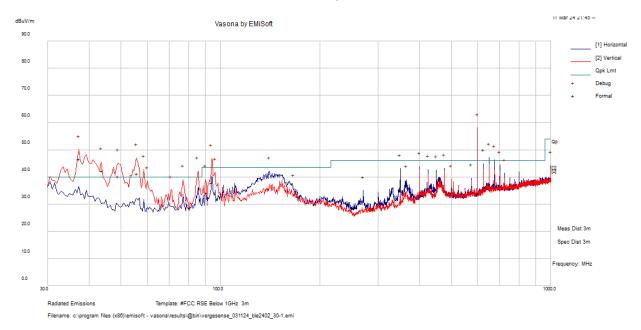
| Worst Case – Mode: Transmitting | | | | | | |
|---------------------------------|----------|---------------------------------------|-----------------|--|--|--|
| MarginFrequency(dB)(MHz) | | Polarization (Horizontal/Vertical) | Configuration | | | |
| -0.49 | 58.72125 | Vertical | BLE 1M, 2440MHz | | | |

Please refer to the tables and plots in the next section for detailed test results

6.9 Radiated Emissions Test Results

1) 30 MHz – 1 GHz, Measured at 3 meters

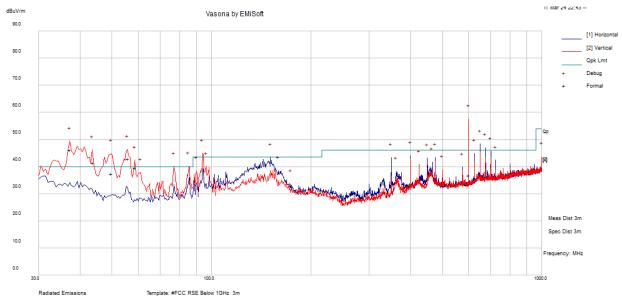
Note¹: All peaks exceeding the limit line in the graph fall out of restricted bands and thus 30dBc limit (FCC 15.247(d)/RSS-247 5.5) was instead applied. Fundamental measured: (103.06dBuV/m @3m) - 30dB = 73.06 dBuV/m @3m)



BLE 1M, 2402 MHz

| Frequency (MHz) | S.A. Reading (dBuV) | Correction Factor (dB/m) | Corrected Amplitude (dBµV/m) | Antenna Height (cm) | Antenna Polarity (H/V) | Turntable Azimuth (degrees) | Limit (dBµV/m) | Margin (dB) | Detector |
|--------------------|---------------------------|--------------------------------|------------------------------------|---------------------------|------------------------------|-----------------------------------|-------------------|----------------|----------|
| 600.11125 | 34.27 | -0.48 | 33.79 | 146 | V | 192 | 46 | -12.21 | QP |
| 37.36525 | 52.42 | -5.92 | 46.5 | 114 | V | 198 | 73.06 | -26.56 | QP |
| 55.846 | 55.5 | -14.13 | 41.37 | 103 | V | 7 | 73.06 | -31.69 | QP |
| 43.80725 | 52.82 | -10.46 | 42.36 | 123 | V | 118 | 73.06 | -30.7 | QP |
| 49.04875 | 53.42 | -13.28 | 40.14 | 109 | V | 353 | 73.06 | -32.92 | QP |
| 94.10475 | 49.61 | -11.81 | 37.8 | 180 | V | 214 | 43.5 | -5.7 | QP |

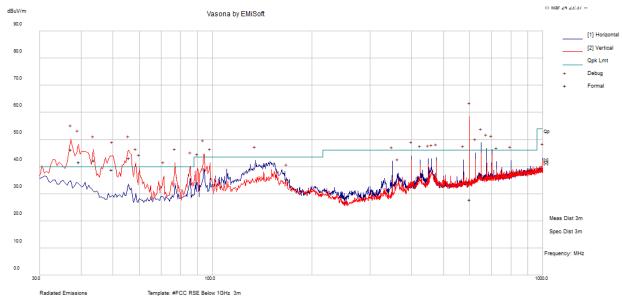
BLE 1M, 2440 MHz



| Filename: | c:\program | files | (x86)\emisoft | - vasona\results | \@bin\vergesense | 031124 | _ble2440_30-1.emi |
|-----------|------------|-------|---------------|------------------------------------|--------------------|---------|-------------------|
| r nename. | o. program | 1000 | (xoo) emisori | vasonaliesuits | (goint vergesense) | _001124 | Diezano_00-1.emi |

| Frequency (MHz) | S.A. Reading (dBuV) | Correction Factor (dB/m) | Corrected Amplitude (dBµV/m) | Antenna Height (cm) | Antenna Polarity (H/V) | Turntable Azimuth (degrees) | Limit (dBµV/m) | Margin (dB) | Detector |
|--------------------|---------------------------|--------------------------------|------------------------------------|---------------------------|------------------------------|-----------------------------------|-------------------|----------------|----------|
| 600.1115 | 37.18 | -0.48 | 36.7 | 134 | Н | 53 | 46 | -9.3 | QP |
| 37.36325 | 52.1 | -5.92 | 46.18 | 121 | V | 264 | 73.06 | -26.88 | QP |
| 55.87575 | 57.08 | -14.13 | 42.95 | 148 | V | 344 | 73.06 | -30.11 | QP |
| 43.753 | 51.8 | -10.42 | 41.38 | 119 | V | 61 | 73.06 | -31.68 | QP |
| 49.83225 | 50.92 | -13.58 | 37.34 | 219 | V | 330 | 40 | -2.66 | QP |
| 58.72125 | 53.44 | -13.93 | 39.51 | 130 | V | 18 | 40 | -0.49 | QP |

BLE 1M, 2480 MHz



Filename: c:\program files (x88)\emisoft - vasona\results\@bin\vergesense_031124_ble2480_30-1.emi

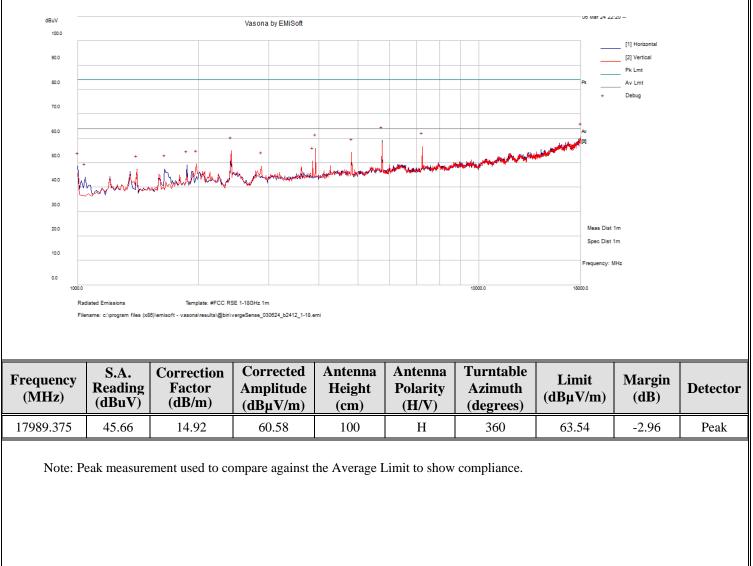
| Frequency (MHz) | S.A. Reading (dBuV) | Correction Factor (dB/m) | Corrected Amplitude (dBµV/m) | Antenna Height (cm) | Antenna Polarity (H/V) | Turntable Azimuth (degrees) | Limit (dBµV/m) | Margin (dB) | Detector |
|--------------------|---------------------------|--------------------------------|------------------------------------|---------------------------|------------------------------|-----------------------------------|-------------------|----------------|----------|
| 600.12925 | 28.39 | -0.48 | 27.91 | 289 | V | 16 | 46 | -18.09 | QP |
| 37.3785 | 52.19 | -5.93 | 46.26 | 110 | V | 275 | 73.06 | -26.8 | QP |
| 39.4415 | 49.17 | -7.42 | 41.75 | 114 | V | 276 | 73.06 | -31.31 | QP |
| 43.7805 | 52.7 | -10.44 | 42.26 | 130 | V | 42 | 73.06 | -30.8 | QP |
| 55.87425 | 57.4 | -14.13 | 43.27 | 135 | V | 352 | 73.06 | -29.79 | QP |
| 49.63525 | 52.49 | -13.5 | 38.99 | 134 | V | 157 | 40 | -1.01 | QP |

| FCC/IC Limits for 1 GHz to 26.5 GHz | | | | | | | | |
|-------------------------------------------------------------------------|-------|----------------------|------------------------|------------------------------------|--|--|--|--|
| Applicability | (dBm) | (uV/m at 3meters) | (dBuV/m at 3meters) | (dBuV/m at 1meter) ² | | | | |
| Restricted Band Average Limit | - | 500 | 54 | 63.54 | | | | |
| Restricted Band Peak Limit ¹ | - | - | 74 | 83.54 | | | | |
| FCC §15.407(b) & ISEDC RSS-247 §6.2 Defined Unwanted Emissions Limit | -27 | - | 68.2 | 77.74 | | | | |

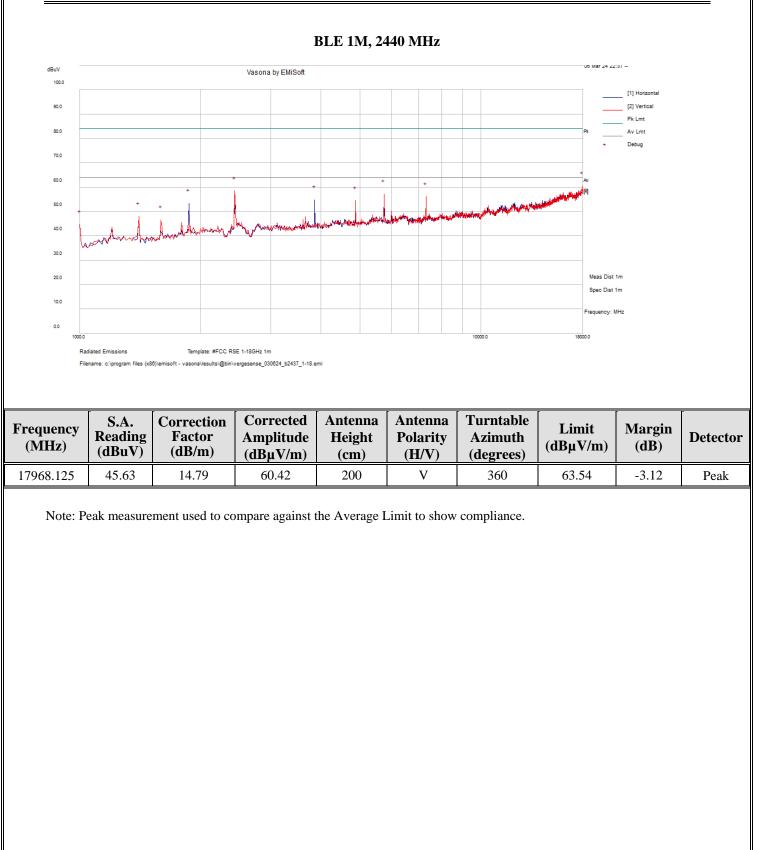
Note 1: Restricted Band Peak Limit is defined to be 20dB higher than Average Limit.

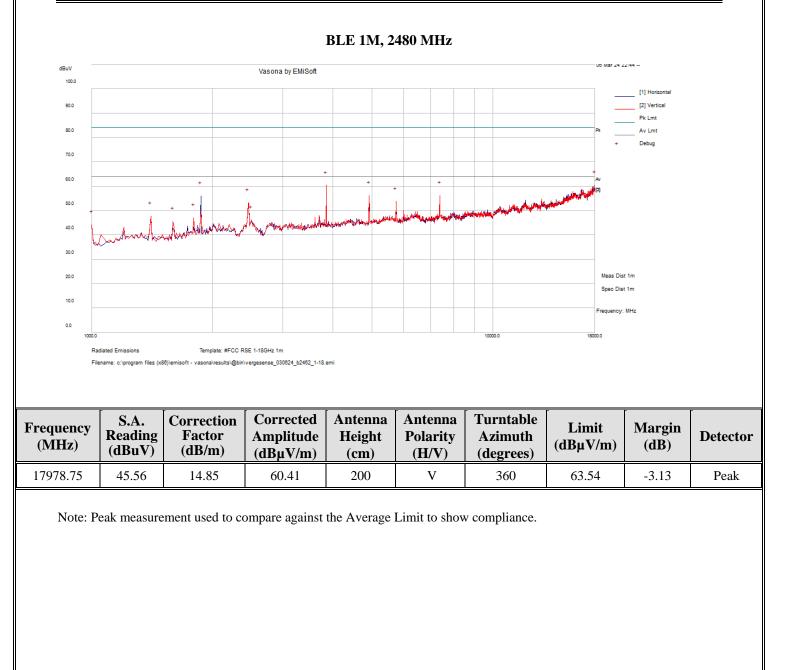
Note 2: Limits at 1 meter are determined by applying a Distance correction factor accounts for extrapolation from 1 meter to 3 meters. Formula used is as follows: 20*log (3 meters / 1 meter) = 9.54 (According to ANSI C63.10-2013 Section 9.4).

2) 1 GHz – 18 GHz, Measured at 1 meter

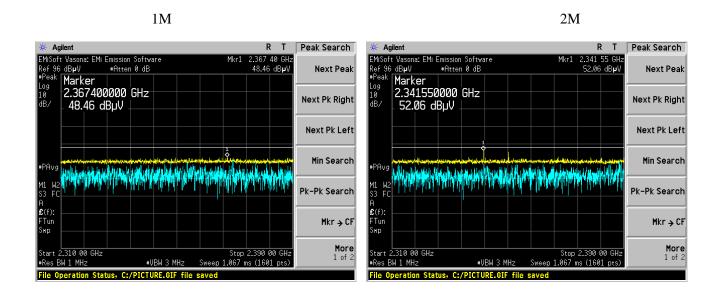


BLE 1M, 2402 MHz





3) Bandedges, Measured at 3 meter



2402 MHz

Note: Peak measurement used to compare against the Average Limit to show compliance. Note: measurements recorded at worst-case vertical polarization

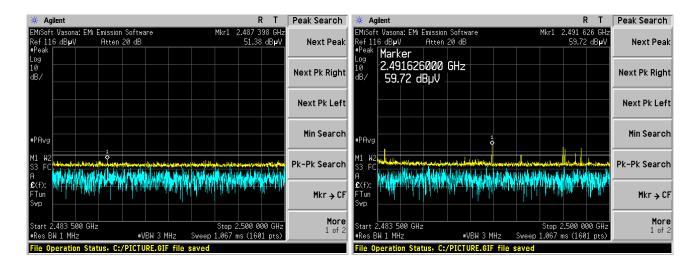
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2480 MHz

1M

2M

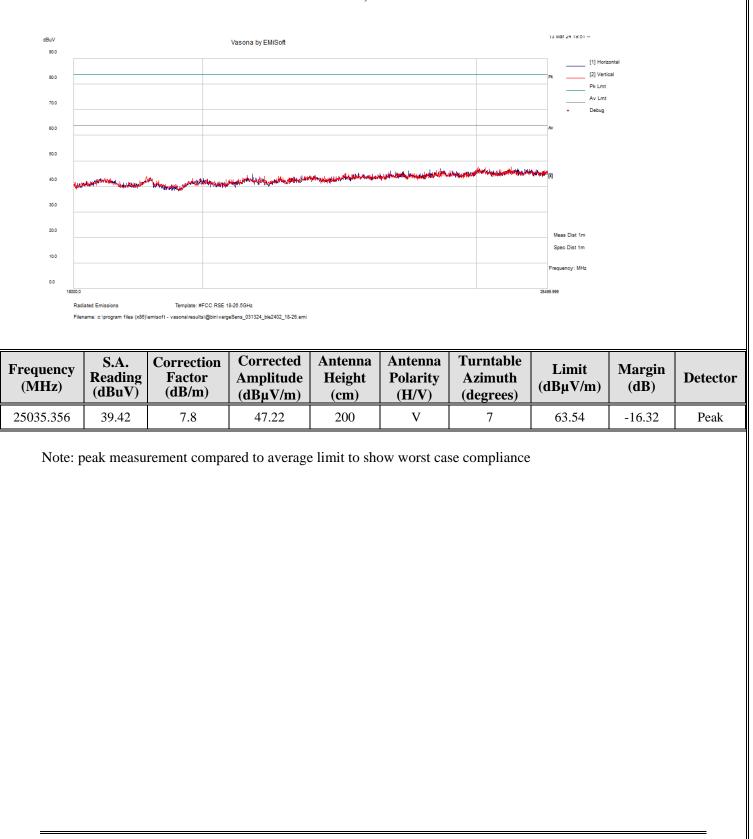


2M Average

| 🔆 Agilent | | | R T Peak Search |
|------------------------------------------------------------------------------------|-----------------------------|-------------------------------------|-----------------|
| EMiSoft Vasona: EMi Emissio Ref 116 dBµV Atten #Peak | 964 GHz 7 dBµV Next Peak | | |
| ^{#Peak} Marker ^{Log} 2.483964000 ^{dB/} 42.87 dBµV | GHz | | Next Pk Right |
| | | | Next Pk Left |
| *PAvg | | | Min Search |
| M1 W2 S3 FC 1 A | | | Pk-Pk Search |
| £(f): FTun Swp | | | Mkr → CF |
| Start 2.483 500 GHz #Res BW 1 MHz | #VBW 1 kHz | Stop 2.500 0 Sweep 12.91 ms (160 | |
| File Operation Status, C: | | | |

Note: Peak 1M measurement used to compare against the Average Limit to show compliance. Note: measurements recorded at worst-case vertical polarization

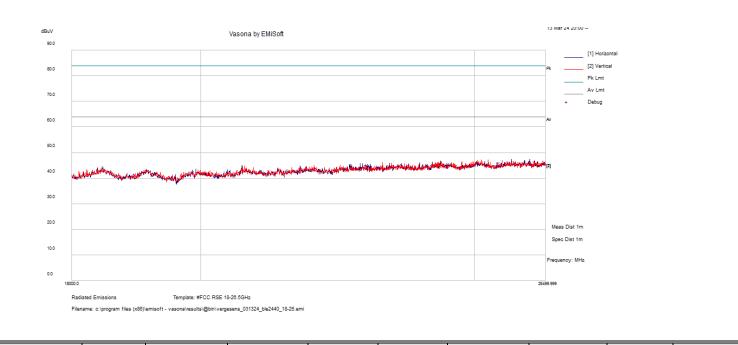
4) 18 -26.5 GHz, Measured at 1 meter



BLE 1M, 2402 MHz

FCC ID: 2BFSEG400B, IC: 32309-G400B

BLE 1M, 2440 MHz



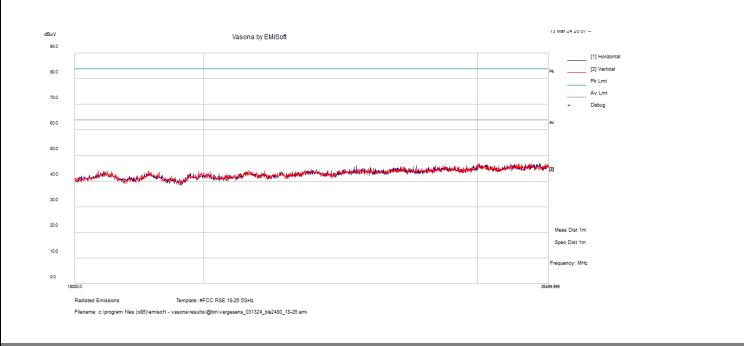
| Frequency (MHz) | S.A. Reading (dBuV) | Correction Factor (dB/m) | Corrected Amplitude (dBµV/m) | Antenna Height (cm) | Antenna Polarity (H/V) | Turntable Azimuth (degrees) | Limit (dBµV/m) | Margin (dB) | Detector |
|--------------------|---------------------------|--------------------------------|------------------------------------|---------------------------|------------------------------|-----------------------------------|-------------------|----------------|----------|
| 25767.233 | 39.39 | 7.91 | 47.3 | 200 | V | 7 | 63.54 | -16.24 | Peak |

Note: peak measurement compared to average limit to show worst case compliance

VergeSense, Inc.

FCC ID: 2BFSEG400B, IC: 32309-G400B

BLE 1M, 2480 MHz



| Frequency (MHz) | S.A. Reading (dBuV) | Correction Factor (dB/m) | Corrected Amplitude (dBµV/m) | Antenna Height (cm) | Antenna Polarity (H/V) | Turntable Azimuth (degrees) | Limit (dBµV/m) | Margin (dB) | Detector |
|--------------------|---------------------------|--------------------------------|------------------------------------|---------------------------|------------------------------|-----------------------------------|-------------------|----------------|----------|
| 26295.8 | 38.18 | 8.17 | 46.35 | 200 | V | 7 | 63.54 | -17.19 | Peak |

Note: peak measurement compared to average limit to show worst case compliance

VergeSense, Inc.

7 Appendix A (Normative) – EUT Test Setup Photographs

Please refer to the attachment.

8 Appendix B (Normative) – EUT External Photographs

Please refer to the attachment

9 Appendix C (Normative) – EUT Internal Photographs

Please refer to the attachment

10 Appendix D (Normative) – A2LA Electrical Testing Certificate



Please follow the web link below for a full ISO 17025 scope

https://www.a2la.org/scopepdf/3297-02.pdf

--- END OF REPORT ---