

FCC Part 15, Subpart C, Section 15.247

Test Report

On

reSeal / safeTstrap Bluetooth Low Energy Radio Device FCC ID: 2ALIWVP820

Customer Name: Vypin LLC

Customer P.O: 1008

Date of Report: June 14, 2018

Test Report No: R-6285N-1

Test Start Date: December 11, 2017

Test Finish Date: December 13, 2017

Test Technician: M. Seamans

Report Approved By: T. Hannemann

Report Prepared By: J. Ramsey

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Technical Information

Report Number: R-6285N-1

Customer: Vypin, LLC

Address: 21 Continental Blvd.

Merrimack, NH 03054

Manufacturer: Vypin, LLC

Manufacturer Address: 4080 McGinnis Ferry Road

Alpharetta, GA 30005

Test Sample: reSeal / safeTstrap Bluetooth Low Energy Radio Device

Model Number: VP800

Serial Number: 0280e1506408

FCC ID: 2ALIWVP820

Digital Transmission – Direct Sequence Spread Spectrum

Type: Transmitter

Power Requirements: 3.0 VDC via one Internal Battery

Frequency of Operation: 2.402 – 2.480 GHz

Equipment Class: DTS

Antenna Type: Inverted F, Antenna Gain 3.3 dBi

Equipment Use: Bluetooth Beacon

Test Specification:

FCC Rules and Regulations Part 15, Subpart C, Section 15.247

Test Procedure:

ANSI C63.4: 2014 ANSI C63.10: 2013

Test Facility:

Retlif Testing Laboratories 101 New Boston Road Goffstown, NH 03045

FCC Designation Number: US5327



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Table 1 – Tests Performed

| FCC Part 15, Subpart C | Test Method | |
|---------------------------|--|--|
| 15.247(b)(3) | Power Output | |
| 15.247(a)(2) | Occupied Bandwidth | |
| 15.247(d) | Antenna Terminal Out of Band/Band Edge Conducted Emissions | |
| 15.247(d) | Out of Band/Band Edge Radiated Emissions | |
| 15.247(e) | Power Density | |

EUT Operation:

The EUT was transmitting a modulated signal at 2.405 GHz (Low), 2.426 GHz (Mid) and 2.480 GHz (High).

EUT Description:

The reSeal / safeTstrap Bluetooth Low Energy Radio Device is a reusable electronic seal solution that provides real-time visibility. It can provide notification when seal is compromised, location-based management and a date/time stamp for audit support.



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Certification and Signatures

We certify that this report is a true representation of the results obtained from the tests of the equipment stated. We further certify that the measurements shown in this report were made in accordance with the procedures indicated and vouch for the qualifications of all Retlif Testing Laboratories personnel taking them.

Todd Hannemann EMC Test Engineer

iNARTE Certified Technician ATL-0255-T

Non-Warranty Provision

The testing services have been performed, findings obtained and reports prepared in accordance with generally accepted laboratory principles and practices. This warranty is in lieu of all others, either expressed or implied.

Non-Endorsement

This test report contains only findings and results arrived at after employing the specific test procedures and standards listed herein. It is not intended to constitute a recommendation, endorsement or certification of the product or material tested. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.



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Revision History

Revisions to this document are listed below; the latest revised document supersedes all previous issues of this document:

| Revision | Date | Pages Affected |
|----------|---------------|------------------|
| - | June 14, 2018 | Original Release |



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Requirements and Test Results

FCC Section 15.247 (a)(2) - Bandwidth

For systems using digital modulation techniques operating in the 902-928 MHz, 2400-2483.5 MHz, and 5725 – 5850 MHz bands the minimum 6 dB bandwidth shall be at least 500 kHz.

Results:

The minimum 6dB bandwidth measured while transmitting was 677.354 kHz. The device was found to meet the requirement of 15.247 (a)(2).

FCC Section 15.247 (b)(3) - Power Output

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g.: alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Results:

The maximum measured peak conducted output power when transmitting was 6.08 mW. The maximum antenna gain of the antenna is 3.3 dBi. The device was found to meet the power output requirements of 15.247 (b)(3) including de facto EIRP.



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Requirements and Test Results (con't)

FCC Section 15.247(d) – Unwanted Emissions

Antenna Terminal Out of Band/Band Edge Conducted Emissions

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 Section 15.247, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

Results:

All measured out of band/band edge conducted emissions were below the specified limits and the device was found to meet the requirements of 15.247 (d).

FCC Section 15.247(d) – Unwanted Emissions

Radiated Spurious Emissions/Restricted Bands/Band Edge

Emissions which fall into restricted bands, as defined in 15.205(a) must comply with the radiated emissions limits specified in 15.209(a) and shown below in Table 3 Antenna-port conducted measurements may also be used as an alternative to radiated measurements for demonstrating compliance in the restricted frequency bands. When conducted measurements are performed in the restricted frequency bands the conducted output power (in dBm) plus the maximum transmit antenna gain (in dBi) must be converted to equivalent electric field strength to be compared to the limits. Emissions emanating from the EUT cabinet and cables must also comply with the radiated emissions limits. Radiated emissions measurements were also performed at the band edges to ensure band edge compliance.

Table 2 - Radiated Emission Limits

| Frequency of Emission (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-----------------------------|-----------------------------------|-------------------------------|
| 30 to 88 | 100 | 3 |
| 88 to 216 | 150 | 3 |
| 216 to 960 | 200 | 3 |
| Above 960 | 500 | 3 |



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Results:

All spurious emissions were measured and found to be in compliance with the limits specified in 15.209(a). Band edge emissions were also found to be in compliance with the limits specified in 15.209(a).

Conducted Restricted Bands Field Strength Conversion:

The Conducted Restricted Band Emissions were converted to field strength of the emission as follows:

EIRP = CO + AG

Where:

CO = Conducted Output Power in dBm

AG = Maximum Transmit Antenna Gain in dBi

E = EIRP - 20log D + 104.8

Where:

 $E = electric field strength in dB\mu V/m$,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

dBµV/M is converted to uV/M for comparison to the specified limit using the formula:

invLog dBµV/M/20



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Requirements and Test Results (con't)

FCC Section 15.247(e) - Power Spectral Density

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Results:

The power spectral density conducted from the intentional radiator to the antenna was not greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density was determined in accordance with Section 15.247(b)(3), herein.



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Requirements and Test Results (con't)

Field Strength Calculation/Conversion:

The maximized field strength of the emission was obtained as follows:

CR = MR + CF

Where:

CR = Corrected Reading in dBµV/m

MR = Uncorrected Meter Reading in dBµV

CF = Correction Factor in dB (Antenna Factor, Pre-amp + Cable Loss)

Example:

 $MR = 15.35 dB\mu V$

CF = 16.85 dB

 $CR = 15.35 \text{ dBuV} + 16.85 = 32.2 \text{ dB}\mu\text{V/m}$

dBµV/M is converted to uV/M for comparison to the specified limit using the formula:

invLog dBµV/M/20

32.2 dBuV/m = 40.74 uV/m

RF Power Conversion:

Power readings in dBm may be converted to mW using the formula:

InvLog dBm/10

Example: 20dBm = 100mW



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FCC Section 15.247 (i) RF Exposure Limits

Spread Spectrum Transmitters operating under 15.247 must be operated in a manner that ensures the public is not exposed to RF energy levels in access of the commission's guidelines. Based on the transmitter power and maximum antenna gain (see calculation below) the minimum separation distance was calculated to determine the distance for acceptable MPE power density levels to meet both the Occupational/Controlled Exposure and the General Population/Uncontrolled Exposure requirements of FCC Part 1.1310. The calculation below uses the more stringent General Population MPE Limits.

$$S = \frac{PG}{4 \prod Dsq}$$

D = Minimum Separation Distance in cm

S = Max allowed Power Density in mW/cmsq

Per 1.1310 For the Frequency of 2400 MHz S = 1 mW/cmsq

Power = Max Power Input to Antenna = 4.06mW

Gain = Max Power Gain of Antenna = 3.3 dBi = 2.14 numeric

1 mW/cmsq =
$$\frac{4.06 \times 2.14}{4 \times (3.14) \times D^2}$$
 = $\frac{8.69}{12.56 \times D^2}$

$$D^2 = \frac{8.69}{12.56 \times 1}$$

$$D = \sqrt{0.69} = 0.83 \text{ cm}$$



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Equipment List

FCC Section 15.247(a)(2) Occupied Bandwidth

| EN | Manufacturer | Description | Range | Model No. | Cal Date | Due Date |
|-------|--------------------|-----------------------|----------------------|-----------|------------|------------|
| 5030B | NARDA MICROWAV | E ATTENUATOR, COAXIAL | 10 dB, DC - 12.4 GHz | 757C-10 | 3/7/2017 | 3/31/2018 |
| 5070 | ROHDE & SCHWARZ | RECEIVER, EMI | 20 Hz - 40 GHz | ESIB40 | 10/17/2017 | 10/31/2018 |

FCC Section 15.247 (d)

Antenna Terminal Out of Band / Band Edge Conducted Émissions / Restricted Band / Duty Cycle

| EN | Manufacturer | Description | Range | Model No. | Cal Date | Due Date |
|-------|--------------------|-----------------------|----------------------|-----------|------------|--------------|
| 5030B | NARDA MICROWAV | E ATTENUATOR, COAXIAL | 10 dB, DC - 12.4 GHz | 757C-10 | 3/7/2017 | 3/31/2018 |
| 5070 | ROHDE & SCHWARZ | RECEIVER, EMI | 20 Hz - 40 GHz | ESIB40 | 10/17/2017 | 7 10/31/2018 |

FCC Section 15.247(b)(3) Power Output

| EN | Manufacturer | Description | Range | Model No. | Cal Date | Due Date |
|-------|--------------------|-----------------------|----------------------|-----------|------------|--------------|
| 5030B | NARDA MICROWAV | E ATTENUATOR, COAXIAL | 10 dB, DC - 12.4 GHz | 757C-10 | 3/7/2017 | 3/31/2018 |
| 5070 | ROHDE & SCHWARZ | RECEIVER, EMI | 20 Hz - 40 GHz | ESIB40 | 10/17/2017 | 7 10/31/2018 |

FCC Section 15.247 (d) Out of Band/Band Edge Radiated Emissions

| EN | Manufacturer | Description | Range | Model No. | Cal Date | Due Date |
|-------|--------------------|-------------------------------------|--------------------|-----------|-------------|-------------|
| 1232 | AGILENT / HP | PRE-AMPLIFIER | 1 - 26.5 GHz | 8449B | 5/23/2017 | 5/31/2018 |
| 3258 | ETS / EMCO | ANTENNA, DOUBLE RIDGED GUIDE | 1 - 18 GHz | 3115 | 10/13/2016 | 4/30/2018 |
| 3427B | ETS / EMCO | ANTENNA, BICONICAL | 20 - 200 MHz | 3104 | 9/21/2017 | 3/31/2019 |
| 3430 | MCS | ANTENNA, HORN | 18 - 26.5 GHz | K-5039 | No Calibrat | on Required |
| 4029B | RETLIF | OPEN AREA TEST SITE, ATTENUATION | 3 / 10 Meters | RNH | 4/13/2016 | 4/30/2018 |
| 443 | ELECTRO-METRICS | ANTENNA, LOG PERIODIC | 200 MHz - 1000 MHz | LPA-25 | 10/6/2016 | 4/30/2018 |
| 5070 | ROHDE & SCHWARZ | RECEIVER, EMI | 20 Hz - 40 GHz | ESIB40 | 10/17/2017 | 10/31/2018 |



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Equipment List_(continued)

FCC Section 15.247(e) Power Density

| EN | Manufacturer | Description | Range | Model No. | Cal Date | Due Date |
|-------|--------------------|-----------------------|----------------------|-----------|------------|------------|
| 5030B | NARDA MICROWAV | E ATTENUATOR, COAXIAL | 10 dB, DC - 12.4 GHz | 757C-10 | 3/7/2017 | 3/31/2018 |
| 5070 | ROHDE & SCHWARZ | RECEIVER, EMI | 20 Hz - 40 GHz | ESIB40 | 10/17/2017 | 10/31/2018 |



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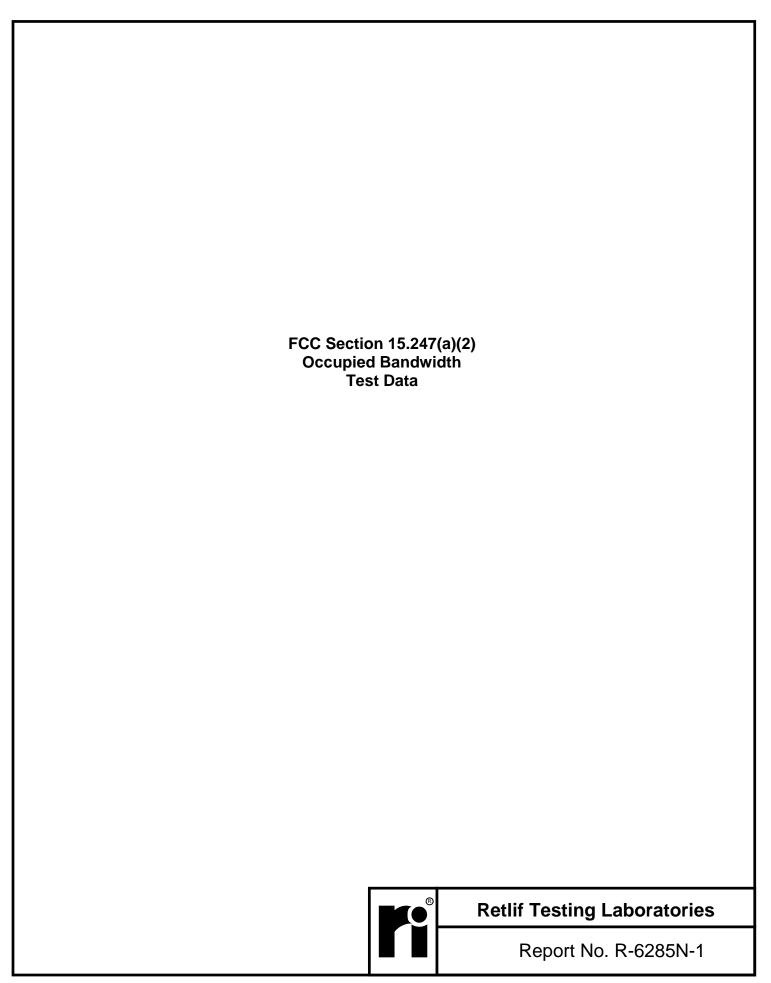
Test Photographs Occupied Bandwidth



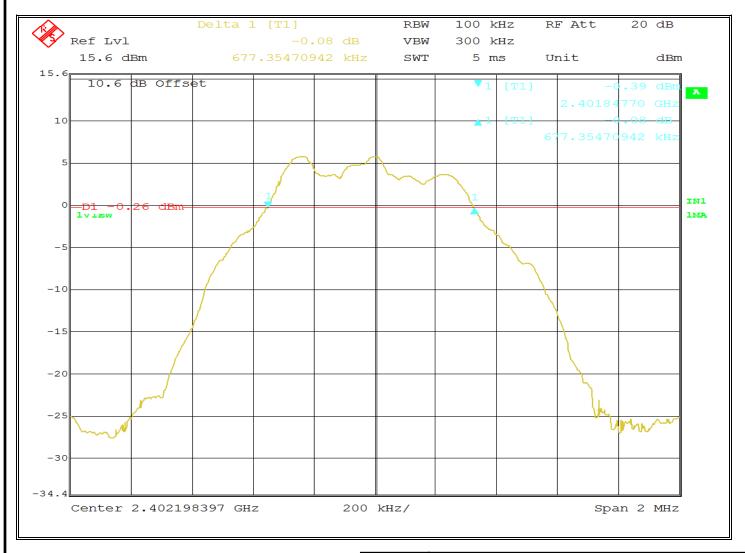
Test Setup



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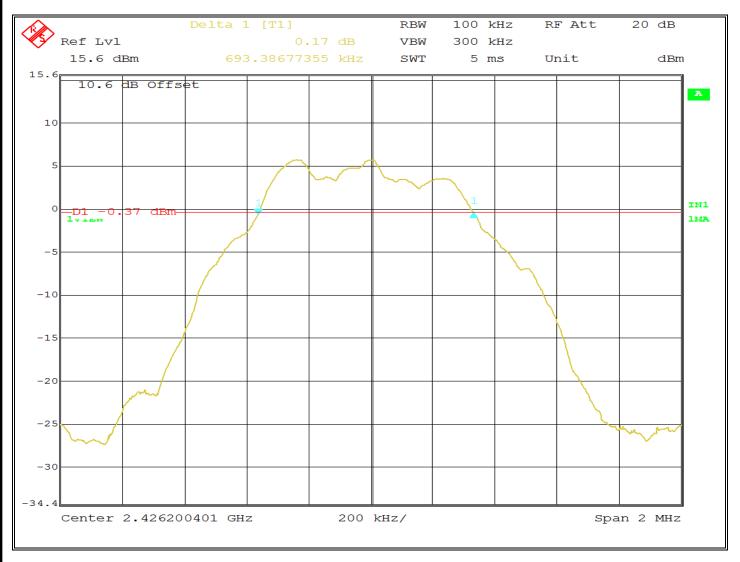


| | EMISSIONS TEST DATA SHEET | | | |
|--------------------------|---|--|--|--|
| Method: | Occupied Bandwidth | | | |
| Test Specification: | FCC Part 15, Subpart C Paragraph: 15.247 (a)(2) | | | |
| Job Number: | R-6285N-1 | | | |
| Customer: | Vypin LLC | | | |
| Test Sample: | reSeal / safeTstrap Bluetooth Low Energy Radio Device | | | |
| Model Number: | VP820 | | | |
| Serial Number: | 0280e1506408 | | | |
| Operating Mode: | Transmitting modulated signal at 2.402 GHz | | | |
| Technician: | M.Seamans | | | |
| Date(s): | December 11 th , 2017 | | | |
| Temp/ Relative Humidity: | 19.8 °C / 34.5 % | | | |
| Result: | 6dB Bandwidth: 677.354 kHz | | | |



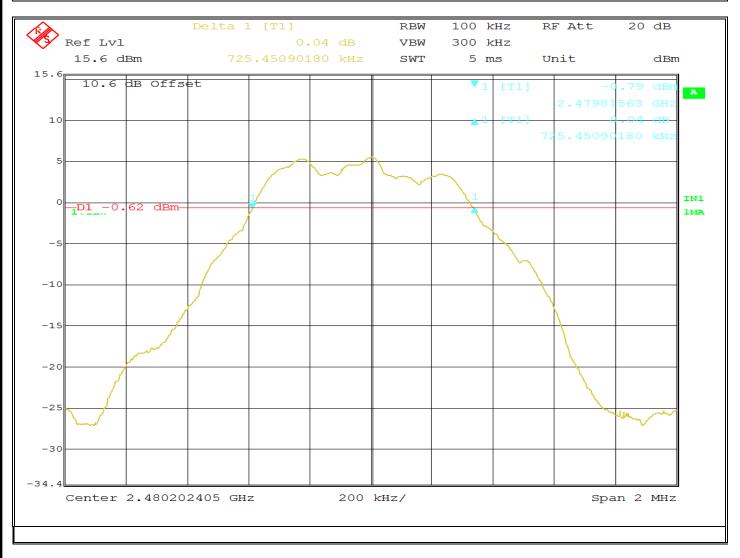


| | EMISSIONS TEST DATA SHEET | | | |
|--------------------------|---|--|--|--|
| Method: | Occupied Bandwidth | | | |
| Test Specification: | FCC Part 15, Subpart C Paragraph: 15.247 (a)(2) | | | |
| Job Number: | R-6285N-1 | | | |
| Customer: | Vypin LLC | | | |
| Test Sample: | reSeal / safeTstrap Bluetooth Low Energy Radio Device | | | |
| Model Number: | VP820 | | | |
| Serial Number: | 0280e1506408 | | | |
| Operating Mode: | Transmitting modulated signal at 2.426 GHz | | | |
| Technician: | M.Seamans | | | |
| Date(s): | December 11 th , 2017 | | | |
| Temp/ Relative Humidity: | 19.8 °C / 34.5 % | | | |
| Result: | 6dB Bandwidth: 693.386 kHz | | | |





| EMISSIONS TEST DATA SHEET | | | |
|---------------------------|---|--|--|
| Method: | Occupied Bandwidth | | |
| Test Specification: | FCC Part 15, Subpart C Paragraph: 15.247 (a)(2) | | |
| Job Number: | R-6285N-1 | | |
| Customer: | Vypin LLC | | |
| Test Sample: | reSeal / safeTstrap Bluetooth Low Energy Radio Device | | |
| Model Number: | VP820 | | |
| Serial Number: | 0280e1506408 | | |
| Operating Mode: | Transmitting modulated signal at 2.480 GHz | | |
| Technician: | M.Seamans | | |
| Date(s): | December 11 th , 2017 | | |
| Temp/ Relative Humidity: | 19.8 °C / 34.5 % | | |
| Result: | 6dB Bandwidth: 725.450 kHz | | |





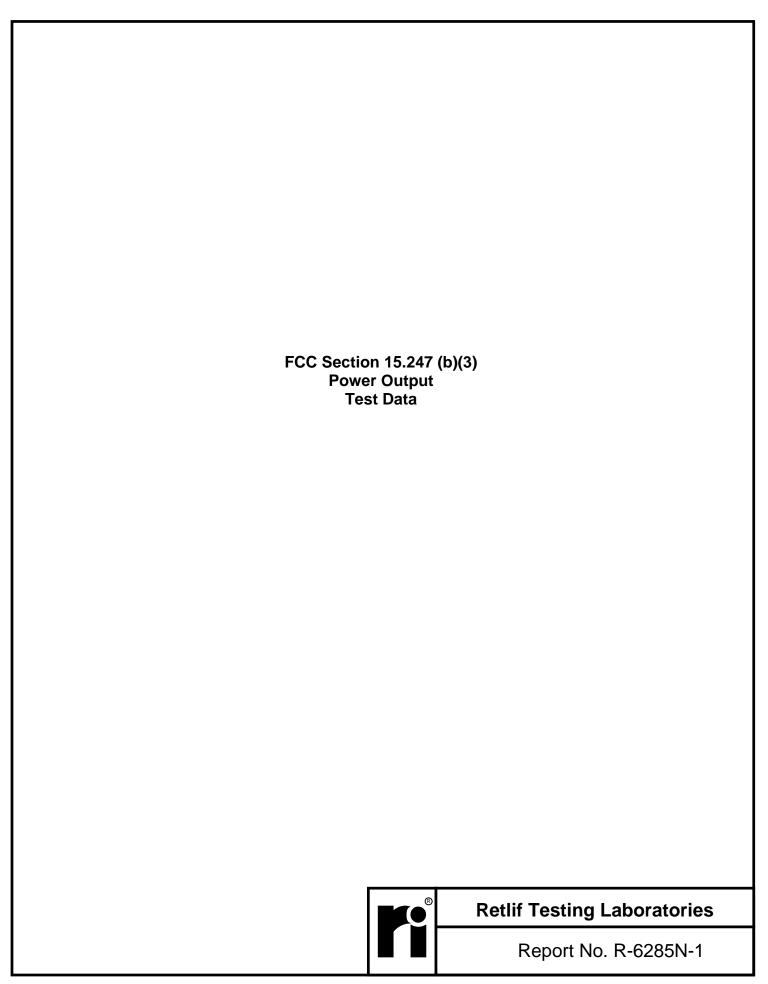
Test Photographs Power Output



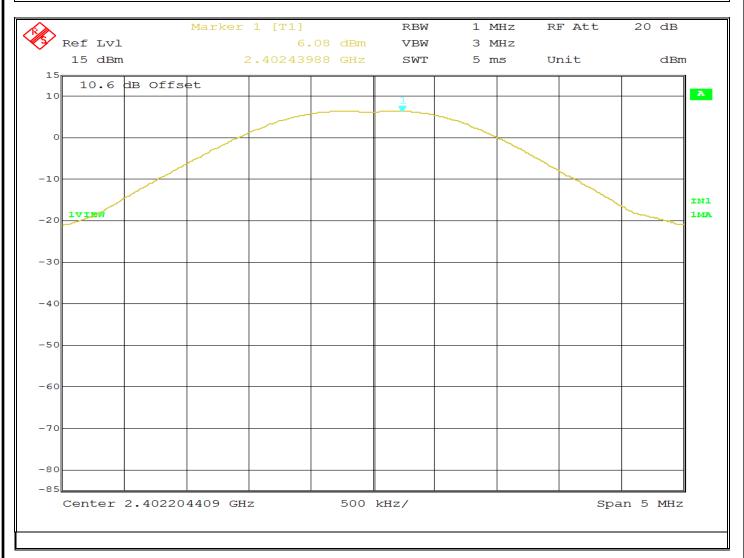
Test Setup



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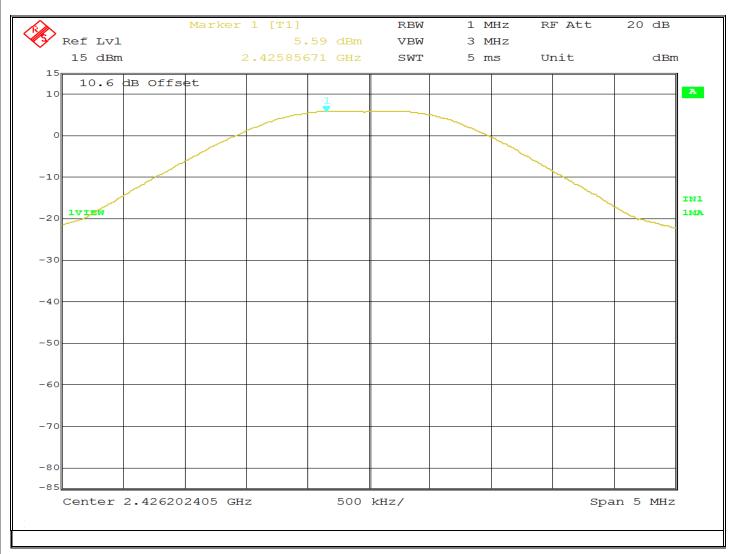


| EMISSIONS TEST DATA SHEET | | | |
|---------------------------|---|--|--|
| Method: | Power Output | | |
| Test Specification: | FCC Part 15, Subpart C Paragraph: 15.247 (b)(3) | | |
| Job Number: | R-6285N-1 | | |
| Customer: | Vypin LLC | | |
| Test Sample: | reSeal / safeTstrap Bluetooth Low Energy Radio Device | | |
| Model Number: | VP820 | | |
| Serial Number: | 0280e1506408 | | |
| Operating Mode: | Transmitting modulated signal at 2.402 GHz | | |
| Technician: | M.Seamans | | |
| Date(s): | December 12 th , 2017 | | |
| Temp/ Relative Humidity: | 18.3 °C / 31.1 % | | |
| Result: | Power Output: 6.08 dBm | | |



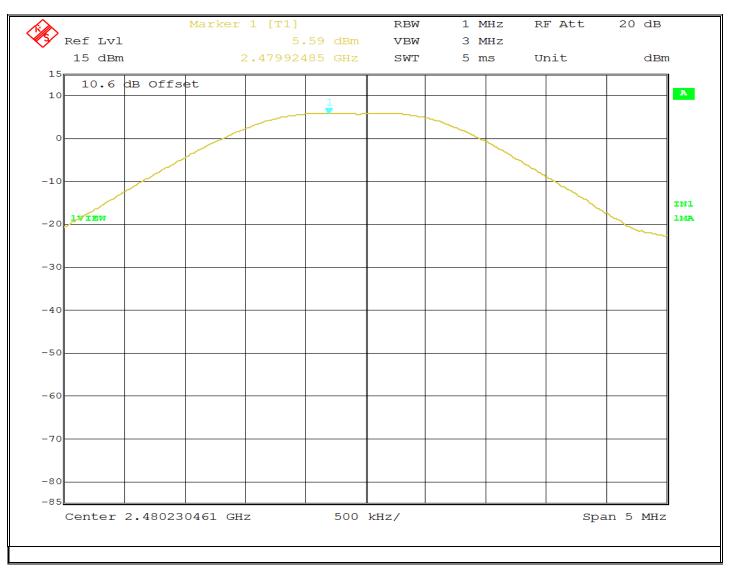


| EMISSIONS TEST DATA SHEET | | | | | | |
|---------------------------|---|--|--|--|--|--|
| Method: | Power Output | | | | | |
| Test Specification: | FCC Part 15, Subpart C Paragraph: 15.247 (b)(3) | | | | | |
| Job Number: | R-6285N-1 | | | | | |
| Customer: | Vypin LLC | | | | | |
| Test Sample: | reSeal / safeTstrap Bluetooth Low Energy Radio Device | | | | | |
| Model Number: | VP820 | | | | | |
| Serial Number: | 0280e1506408 | | | | | |
| Operating Mode: | Transmitting modulated signal at 2.426 GHz | | | | | |
| Technician: | M.Seamans | | | | | |
| Date(s): | December 12 th , 2017 | | | | | |
| Temp/ Relative Humidity: | 18.3 °C / 31.1 % | | | | | |
| Result: | Power Output: 5.59 dBm | | | | | |





| EMISSIONS TEST DATA SHEET | | | | | | |
|---------------------------|---|--|--|--|--|--|
| Method: Power Output | | | | | | |
| Test Specification: | FCC Part 15, Subpart C Paragraph: 15.247 (b)(3) | | | | | |
| Job Number: | R-6285N-1 | | | | | |
| Customer: | Vypin LLC | | | | | |
| Test Sample: | reSeal / safeTstrap Bluetooth Low Energy Radio Device | | | | | |
| Model Number: | VP820 | | | | | |
| Serial Number: | 0280e1506408 | | | | | |
| Operating Mode: | Transmitting modulated signal at 2.480 GHz | | | | | |
| Technician: | M.Seamans | | | | | |
| Date(s): | December 12 th , 2017 | | | | | |
| Temp/ Relative Humidity: | 18.3 °C / 31.1 % | | | | | |
| Result: | Power Output: 5.59 dBm | | | | | |





Test Photographs Antenna Terminal Out of Band/Band Edge Conducted Emissions

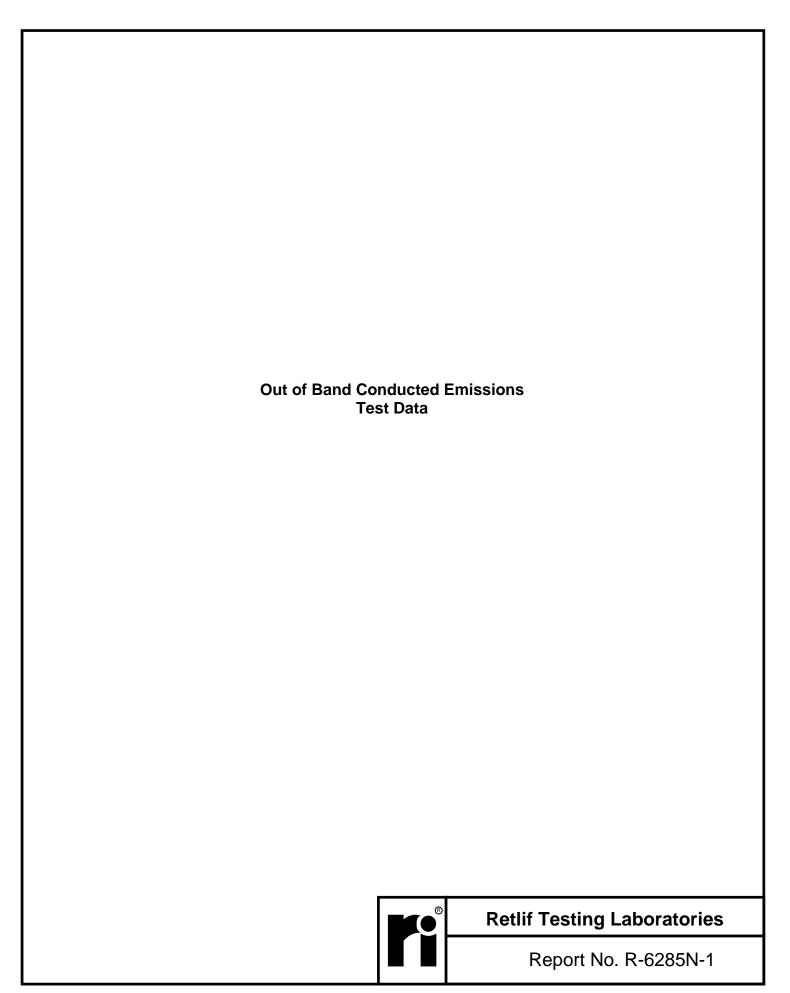


Test Setup

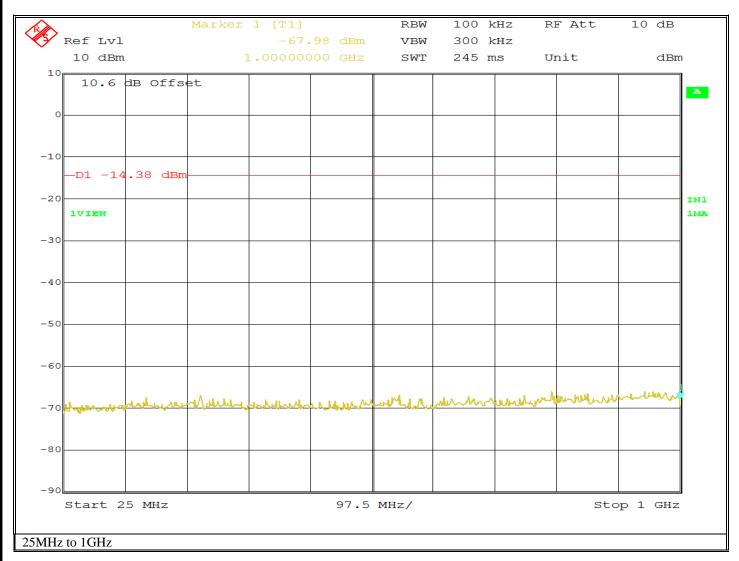


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| FCC Section 15.247 (Antenna Terminal Out of Band/Band Edge Test Data | Conducted Emissions |
|---|-----------------------------|
| | Retlif Testing Laboratories |
| | Report No. R-6285N-1 |

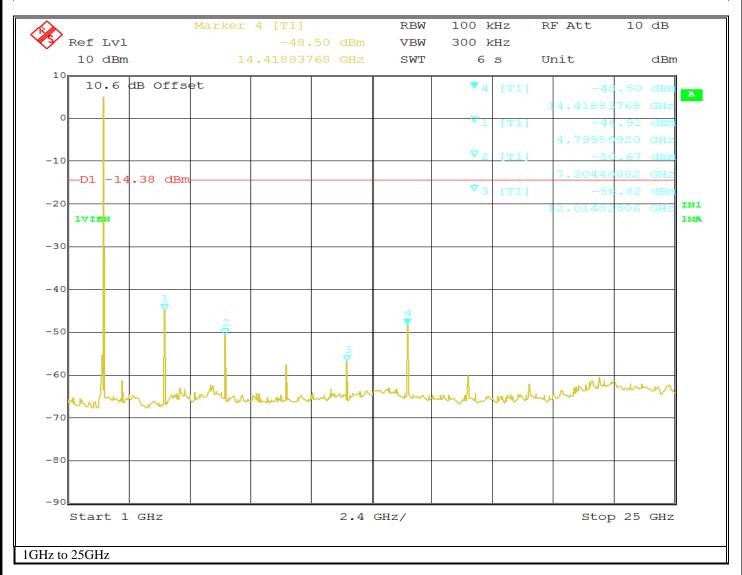


| EMISSIONS TEST DATA SHEET | | | | | | |
|-------------------------------|---|--|--|--|--|--|
| Method: Conducted Out of Band | | | | | | |
| Test Specification: | FCC Part 15, Subpart C Paragraph: 15.247 (d) | | | | | |
| Job Number: | R-6285N-1 | | | | | |
| Customer: | Vypin LLC | | | | | |
| Test Sample: | reSeal / safeTstrap Bluetooth Low Energy Radio Device | | | | | |
| Model Number: | VP820 | | | | | |
| Serial Number: | 0280e1506408 | | | | | |
| Operating Mode: | Transmitting modulated signal at 2.402 GHz | | | | | |
| Technician: | M.Seamans | | | | | |
| Date(s): | December 12th, 2017 | | | | | |
| Temp/ Relative Humidity: | 19.6 °C / 29.4 % | | | | | |
| Notes: | Limit: -14.38 dBm | | | | | |



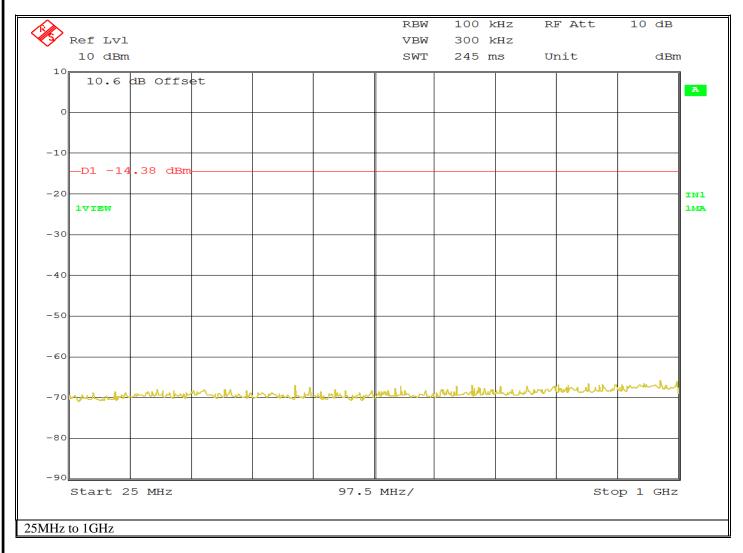


| EMISSIONS TEST DATA SHEET | | | | | | |
|---------------------------|---|--|--|--|--|--|
| Method: | Conducted Out of Band | | | | | |
| Test Specification: | FCC Part 15, Subpart C Paragraph: 15.247 (d) | | | | | |
| Job Number: | R-6285N-1 | | | | | |
| Customer: | Customer: Vypin LLC | | | | | |
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| Operating Mode: | Transmitting modulated signal at 2.402 GHz | | | | | |
| Technician: | Technician: M.Seamans | | | | | |
| Date(s): | December 12 th , 2017 | | | | | |
| Temp/ Relative Humidity: | 19.6 °C / 29.4 % | | | | | |
| Notes: | Notes: Limit: -14.38 dBm | | | | | |



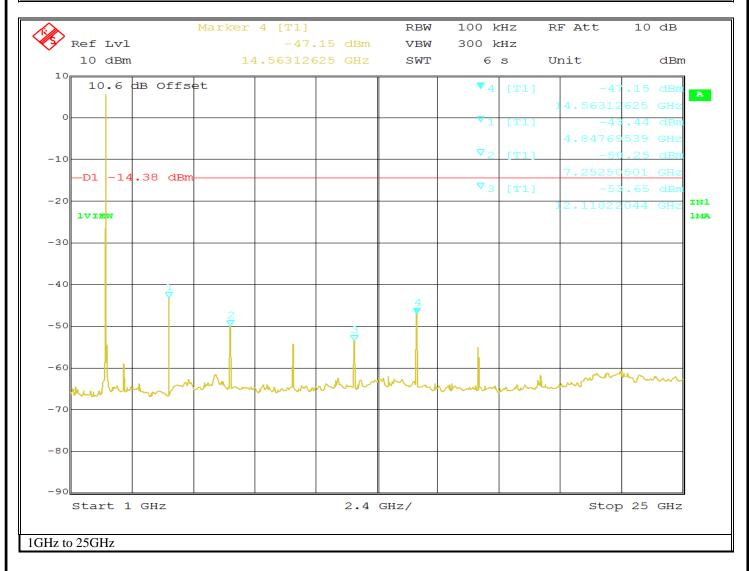


| EMISSIONS TEST DATA SHEET | | | | | | |
|-------------------------------|---|--|--|--|--|--|
| Method: Conducted Out of Band | | | | | | |
| Test Specification: | FCC Part 15, Subpart C Paragraph: 15.247 (d) | | | | | |
| Job Number: | R-6285N-1 | | | | | |
| Customer: | Vypin LLC | | | | | |
| Test Sample: | reSeal / safeTstrap Bluetooth Low Energy Radio Device | | | | | |
| Model Number: | VP820 | | | | | |
| Serial Number: | 0280e1506408 | | | | | |
| Operating Mode: | Transmitting modulated signal at 2.426 GHz | | | | | |
| Technician: | M.Seamans | | | | | |
| Date(s): | December 12th, 2017 | | | | | |
| Temp/ Relative Humidity: | 19.6 °C / 29.4 % | | | | | |
| Notes: | Limit: -14.38 dBm | | | | | |



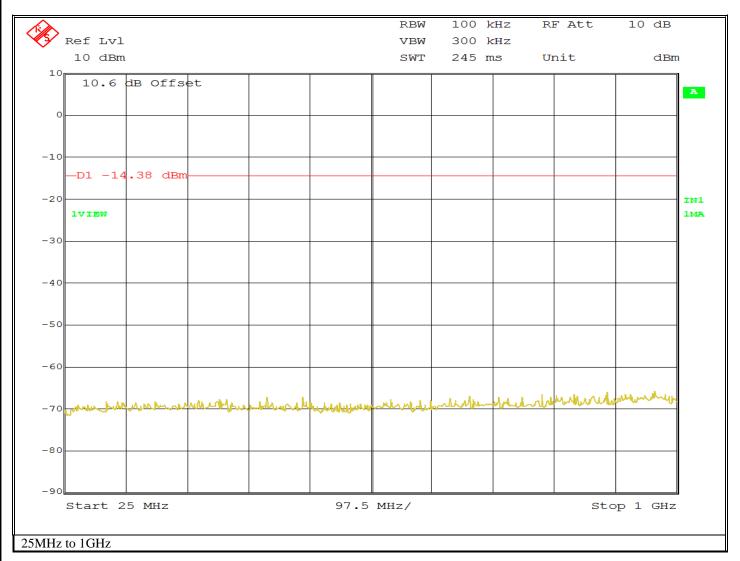


| EMISSIONS TEST DATA SHEET | | | | | | |
|-------------------------------|---|--|--|--|--|--|
| Method: Conducted Out of Band | | | | | | |
| Test Specification: | FCC Part 15, Subpart C Paragraph: 15.247 (d) | | | | | |
| Job Number: | R-6285N-1 | | | | | |
| Customer: | Customer: Vypin LLC | | | | | |
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| Model Number: | VP820 | | | | | |
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| Technician: | M.Seamans | | | | | |
| Date(s): | December 12 th , 2017 | | | | | |
| Temp/ Relative Humidity: | 19.6 °C / 29.4 % | | | | | |
| Notes: Limit: -14.38 dBm | | | | | | |



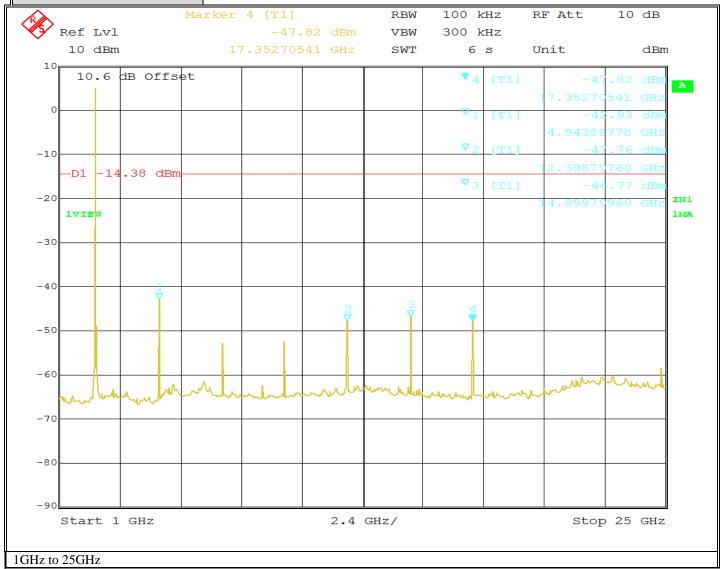


| EMISSIONS TEST DATA SHEET | | | | | | |
|-------------------------------|---|--|--|--|--|--|
| Method: Conducted Out of Band | | | | | | |
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| Model Number: | VP820 | | | | | |
| Serial Number: | 0280e1506408 | | | | | |
| Operating Mode: | Transmitting modulated signal at 2.480 GHz | | | | | |
| Technician: | M.Seamans | | | | | |
| Date(s): | December 12th, 2017 | | | | | |
| Temp/ Relative Humidity: | 19.6 °C / 29.4 % | | | | | |
| Notes: | Limit: -14.38 dBm | | | | | |

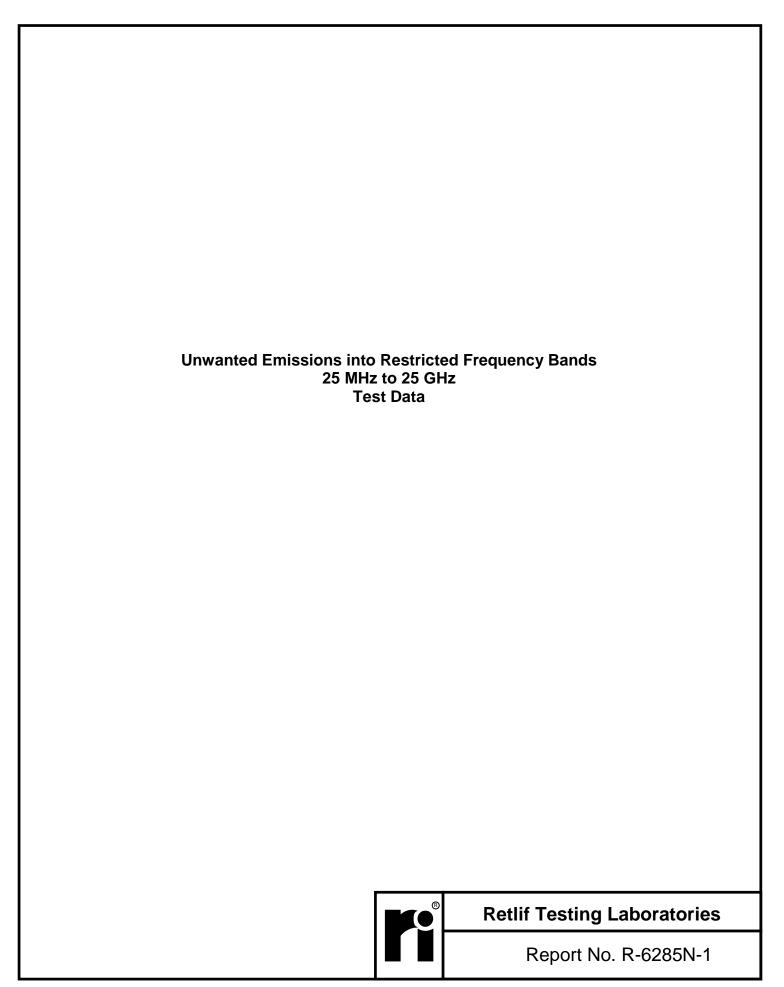




| EMISSIONS TEST DATA SHEET | | | | | | |
|-------------------------------|---|--|--|--|--|--|
| Method: Conducted Out of Band | | | | | | |
| Test Specification: | FCC Part 15, Subpart C Paragraph: 15.247 (d) | | | | | |
| Job Number: | R-6285N-1 | | | | | |
| Customer: | Vypin LLC | | | | | |
| Test Sample: | reSeal / safeTstrap Bluetooth Low Energy Radio Device | | | | | |
| Model Number: | VP820 | | | | | |
| Serial Number: | 0280e1506408 | | | | | |
| Operating Mode: | Transmitting modulated signal at 2.480 GHz | | | | | |
| Technician: | M.Seamans | | | | | |
| Date(s): | December 12 th , 2017 | | | | | |
| Temp/ Relative Humidity: | 19.6 °C / 29.4 % | | | | | |
| Notes: | : Limit: -14.38 dBm | | | | | |







| ====================================== | | | | | | |
|--|---|----------------------|--|--|--|--|
| | EMISSIONS TEST DATA SHEET | | | | | |
| Test Method | Unwanted Emissions into Restricted Frequency Bands | | | | | |
| Customer | Vypin LLC | | | | | |
| Job Number | R-6285N-1 | | | | | |
| Test Sample | reSeal / safeTstrap Bluetooth Low Energy Radio Device | | | | | |
| Model Number | VP800 | | | | | |
| Serial Number | 0280e1506408 | | | | | |
| Test Specification | FCC Part 15 Subpart C | Paragraph: 15.247(d) | | | | |
| Operating Mode | Transmitting modulated signal at 2402 MHz, 2426 MHz and 2480 MHz consec | utively. | | | | |
| Technician | M. Seamans | | | | | |
| Date | December 12 th , 2017 | | | | | |
| | | | | | | |

Notes: Detector: Quasi-Peak <1GHz, Average >1GHz X=0.56112

| TEST PARAMETERS | | | | | | | | | |
|--------------------|-----------------------|------------------|-----------------|------------------------------|----------------------------|----------------------|--------------------------------|----------------------|--------|
| Restricted Band | Measured Frequency | Meter Reading | Antenna Gain | Duty Cycle Factor 10log(1/x) | Duty Cycle Factor 20log(x) | Corrected Reading | Converted Field Strength | Converted Reading | Limit |
| MHz | MHz | dBm | dB | dB | dBm | dBm | dBuV/m | uV/m | uV/m |
| 37.50 | - | - | - | - | - | - | - | - | 100.00 |
| | 38.00* | -90.45 | - | - | - | -90.45 | 4.807 | 1.739 | I |
| 38.25 | - | - | - | - | - | - | - | - | 100.00 |
| 73.00 | - | - | - | - | - | - | - | - | 100.00 |
| | 74.00* | -89.31 | - | - | - | -89.31 | 5.947 | 1.983 | I |
| 74.60 | - | - | - | - | - | - | - | - | 100.00 |
| 74.80 | - | - | - | - | - | - | - | - | 100.00 |
| | 75.00* | -89.44 | - | - | - | -89.44 | 5.817 | 1.953 | |
| 75.20 | - | - | - | - | - | - | - | - | 100.00 |
| 108.00 | - | - | - | - | - | - | - | - | 100.00 |
| | 115.00* | -89.04 | - | - | - | -89.04 | 6.217 | 2.045 | |
| 121.94 | - | - | - | - | - | - | - | - | 100.00 |
| 123.00 | - | - | - | - | - | - | - | - | 100.00 |
| | 130.00* | -88.92 | - | - | - | -88.92 | 6.337 | 2.074 | |
| 138.00 | - | - | - | - | - | - | - | - | 100.00 |
| | | | | | | | | | |

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).



Retlif Testing Laboratories

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|---------------------------|--|----------------------|
| | RETLIF TESTING LABORATORIES | |
| | EMISSIONS TEST DATA SHEET | |
| Test Method | Unwanted Emissions into Restricted Frequency Bands | |
| Customer | Vypin LLC | |
| Job Number | R-6285N-1 | |
| Test Sample | reSeal / safeTstrap Bluetooth Low Energy Radio Device | |
| Model Number | VP800 | |
| Serial Number | 0280e1506408 | |
| Test Specification | FCC Part 15 Subpart C | Paragraph: 15.247(d) |
| Operating Mode | Transmitting modulated signal at 2402 MHz, 2426 MHz and 2480 MHz consecutive | cutively. |
| Technician | M. Seamans | |
| Date | December 12 th , 2017 | |
| | | |

Notes: Detector: Quasi-Peak <1GHz, Average >1GHz X=0.56112

| TEST PARAMETERS | | | | | | | | | |
|--------------------|-----------------------|------------------|-----------------|------------------------------|----------------------------|----------------------|--------------------------------|----------------------|----------------|
| Restricted Band | Measured Frequency | Meter Reading | Antenna Gain | Duty Cycle Factor 10log(1/x) | Duty Cycle Factor 20log(x) | Corrected Reading | Converted Field Strength | Converted Reading | Limit at 3M |
| MHz | MHz | dBm | dB | dB | dBm | dBm | dBuV/m | uV/m | uV/m |
| 149.90 | - | - | - | - | - | - | - | - | 100.00 |
| | 150.00* | -88.66 | - | - | - | -88.66 | 6.597 | 2.137 | I |
| 150.05 | - | - | - | - | - | - | - | - | 100.00 |
| | | | | | | | | | |
| 156.52 | - | - | - | - | - | - | - | - | 100.00 |
| | 156.52* | -88.54 | - | - | - | -88.54 | 6.717 | 2.167 | I |
| 156.52 | - | - | - | - | - | - | - | - | 100.00 |
| | | | | | | | | | |
| 156.70 | - | - | - | - | - | - | - | - | 100.00 |
| | 156.80* | -88.66 | - | - | - | -88.66 | 6.597 | 2.137 | |
| 156.90 | - | - | - | - | - | - | - | - | 100.00 |
| 162.01 | _ | _ | - | - | _ | - | - | - | 150.00 |
| | 165.00* | -88.66 | - | - | _ | -88.66 | 6.597 | 2.137 | |
| 167.17 | - | - | - | - | - | - | - | - | 150.00 |
| | | | | | | | | | |
| 167.72 | - | - | - | - | - | - | - | - | 150.00 |
| | 170.00* | -88.66 | - | - | - | -88.66 | 6.597 | 2.137 | |
| 173.20 | - | - | - | - | - | - | - | - | 150.00 |
| | | | | | | | | | |

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).



Retlif Testing Laboratories

| RETLIF TESTING LABORATORIES | | | | | | | |
|--|---|--|--|--|--|--|--|
| EMISSIONS TEST DATA SHEET | | | | | | | |
| Test Method | Unwanted Emissions into Restricted Frequency Bands | Unwanted Emissions into Restricted Frequency Bands | | | | | |
| Customer | Vypin LLC | | | | | | |
| Job Number | R-6285N-1 | | | | | | |
| Test Sample | reSeal / safeTstrap Bluetooth Low Energy Radio Device | | | | | | |
| Model Number | VP800 | | | | | | |
| Serial Number | 0280e1506408 | | | | | | |
| Test Specification | FCC Part 15 Subpart C | Paragraph: 15.247(d) | | | | | |
| Operating Mode | Transmitting modulated signal at 2402 MHz, 2426 MHz and 2480 MHz consecutively. | | | | | | |
| Technician | M. Seamans | | | | | | |
| Date | December 12 th , 2017 | | | | | | |
| Notes: Detector: Quasi-Peak <1GHz, Average >1GHz X=0.56112 | | | | | | | |

| TEST PARAMETERS | | | | | | | | | |
|--------------------|-----------------------|------------------|-----------------|------------------------------|-------------------------------------|----------------------|--------------------------------|----------------------|----------------|
| Restricted Band | Measured Frequency | Meter Reading | Antenna Gain | Duty Cycle Factor 10log(1/x) | Duty Cycle Factor 20log(x) | Corrected Reading | Converted Field Strength | Converted Reading | Limit at 3M |
| MHz | MHz | dBm | dB | dB | dBm | dBm | dBuV/m | uV/m | uV/m |
| 240.00 | - | - | - | - | - | - | - | - | 200.00 |
| | 260.00* | -91.08 | - | - | - | -91.08 | 4.177 | 1.617 | |
| 285.00 | - | - | - | - | - | - | - | - | 200.00 |
| | | | | | | | | | |
| 322.80 | - | - | - | - | - | - | - | - | 200.00 |
| | 330.00* | -91.76 | - | - | - | -91.76 | 3.497 | 1.495 | |
| 335.40 | - | - | - | - | - | - | - | - | 200.00 |
| | | | | | | | | | |
| 399.90 | - | - | - | - | - | - | - | - | 200.00 |
| | 405.00* | -91.59 | - | - | - | -91.59 | 3.667 | 1.525 | |
| 410.00 | - | - | - | - | - | - | - | - | 200.00 |
| | | | | | | | | | |
| 608.00 | - | - | - | - | - | - | - | - | 200.00 |
| | 611.00* | -89.44 | - | - | - | -89.44 | 5.817 | 1.953 | |
| 614.00 | - | - | - | - | - | - | - | - | 200.00 |
| | | | | | | | | | |
| 960.00 | - | - | - | - | - | - | - | - | 500.00 |
| | 975.00* | -86.20 | - | - | - | -86.20 | 9.057 | 2.837 | |
| 1240.00 | - | - | - | - | - | - | - | - | 500.00 |
| | | | | | | | | | |
| 1300.00 | - | - | - | - | - | - | - | - | 500.00 |
| | 1350.00* | -72.22 | - | - | - | -72.22 | | | |
| 1427.00 | - | - | - | - | - | - | - | - | 500.00 |

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. *This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).



| | RETLIF TESTING LABORATORIES | | | | | | | |
|--|---|----------------------|--|--|--|--|--|--|
| EMISSIONS TEST DATA SHEET | | | | | | | | |
| Test Method | Unwanted Emissions into Restricted Frequency Bands | | | | | | | |
| Customer | Vypin LLC | | | | | | | |
| Job Number | R-6285N-1 | | | | | | | |
| Test Sample | reSeal / safeTstrap Bluetooth Low Energy Radio Device | | | | | | | |
| Model Number | VP800 | | | | | | | |
| Serial Number | 0280e1506408 | | | | | | | |
| Test Specification | FCC Part 15 Subpart C | Paragraph: 15.247(d) | | | | | | |
| Operating Mode | Transmitting modulated signal at 2402 MHz, 2426 MHz and 2480 MHz co | onsecutively. | | | | | | |
| Technician | M. Seamans | | | | | | | |
| Date | December 12 th , 2017 | | | | | | | |
| Notes: Detector: Quasi-Peak <1GHz, Average >1GHz X=0.56112 | | | | | | | | |

| | TEST PARAMETERS | | | | | | | | |
|--------------------|-----------------------|------------------|-----------------|---------------------------------------|----------------------------------|----------------------|--------------------------------|----------------------|----------------|
| Restricted Band | Measured Frequency | Meter Reading | Antenna Gain | Duty Cycle Factor 10log(1/x) | Duty Cycle Factor 20log(x) | Corrected Reading | Converted Field Strength | Converted Reading | Limit at 3M |
| MHz | MHz | dBm | dB | dB | dBm | dBm | dBuV/m | uV/m | uV/m |
| 1435.00 | - | - | - | - | - | - | - | - | 500.00 |
| | 1500.00* | -71.90 | - | - | - | -71.90 | 23.357 | 14.719 | |
| 1646.50 | - | - | 1 | - | - | - | - | - | 500.00 |
| | | | | | | | | | |
| 1660.00 | - | - | - | - | - | - | - | - | 500.00 |
| | 1680.00* | -72.59 | - | - | - | -72.59 | 22.667 | 13.595 | |
| 1710.00 | - | - | - | - | - | - | - | - | 500.00 |
| | | | | | | | | | |
| 1718.80 | - | - | - | - | - | - | - | - | 500.00 |
| | 1720.00* | -72.91 | - | - | - | -72.91 | 22.347 | 13.103 | |
| 1722.20 | - | - | - | - | - | - | - | - | 500.00 |
| | | | | | | | | | |
| 2200.00 | - | - | - | - | - | - | - | - | 500.00 |
| | 2250.00* | -73.07 | - | - | - | -73.07 | 22.187 | 12.864 | |
| 2300.00 | - | - | - | - | - | - | - | - | 500.00 |
| | | | | | | | | | |
| 2310.00 | - | - | - | - | - | - | - | - | 500.00 |
| | 2389.96 | -65.35 | 3.00 | 2.509 | - | -59.84 | 35.417 | 58.999 | |
| 2390.00 | - | - | - | - | - | - | - | - | 500.00 |
| | | | | | | | | | |
| 2483.50 | - | - | - | - | - | - | - | - | 500.00 |
| | 2483.57 | -54.74 | 3.00 | 2.509 | -5.018 | -54.25 | 41.008 | 112.307 | |
| 2500.00 | - 10 ID | - | - | - | - | - | - | - | 500.00 |



Retlif Testing Laboratories

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| EMISSIONS TEST DATA SHEET | | | | | | | | |
| Test Method | Unwanted Emissions into Restricted Frequency Bands | | | | | | | |
| Customer | Vypin LLC | | | | | | | |
| Job Number | R-6285N-1 | | | | | | | |
| Test Sample | reSeal / safeTstrap Bluetooth Low Energy Radio Device | | | | | | | |
| Model Number | VP800 | | | | | | | |
| Serial Number | 0280e1506408 | | | | | | | |
| Test Specification | FCC Part 15 Subpart C | Paragraph: 15.247(d) | | | | | | |
| Operating Mode | Transmitting modulated signal at 2402 MHz, 2426 MHz and 2480 MHz consec | utively. | | | | | | |
| Technician | M. Seamans | | | | | | | |
| Date | December 12 th , 2017 | | | | | | | |
| Notes: Detector: Quasi-Peak | k <1GHz, Average >1GHz X=0.56112 | | | | | | | |

| | | | | TEST PARA | METERS | | | | |
|--------------------|-----------------------|------------------|-----------------|------------------------------|----------------------------|----------------------|--------------------------------|----------------------|----------------|
| Restricted Band | Measured Frequency | Meter Reading | Antenna Gain | Duty Cycle Factor 10log(1/x) | Duty Cycle Factor 20log(x) | Corrected Reading | Converted Field Strength | Converted Reading | Limit at 3M |
| MHz | MHz | dBm | dB | dB | dBm | dBm | dBuV/m | uV/m | uV/m |
| 2690.00 | - | - | - | - | - | - | - | - | 500.00 |
| | 2750.00* | -71.43 | - | - | - | -71.43 | 23.827 | 15.537 | |
| 2900.00 | - | - | - | - | - | - | - | - | 500.00 |
| | | | | | | | | | |
| 3260.00 | - | - | - | - | - | - | - | - | 500.00 |
| | 3263.00* | -70.82 | - | - | - | -70.82 | 24.437 | 16.667 | |
| 3267.00 | - | - | - | - | - | - | - | - | 500.00 |
| | | | | | | | | | |
| 3332.00 | - | - | - | - | - | - | - | - | 500.00 |
| | 3336.00* | -71.01 | - | - | - | -71.01 | 24.247 | 16.307 | |
| 3339.00 | - | - | - | - | - | - | - | - | 500.00 |
| | | | | | | | | | |
| 3345.00 | - | - | - | - | - | - | - | - | 500.00 |
| | 3350.00* | -70.95 | - | - | - | -70.95 | 24.307 | 16.420 | |
| 3358.00 | - | - | - | - | - | - | - | - | 500.00 |
| | | | | | | | | | |
| 3600.00 | - | - | - | - | - | - | - | - | 500.00 |
| | 3700.00* | -71.02 | - | - | - | -71.02 | 24.237 | 16.288 | |
| 4400.00 | - | - | - | - | - | - | - | - | 500.00 |
| | | | | | | | | | |
| 4500.00 | - | - | - | - | - | - | - | - | 500.00 |
| | 4852.00 | -51.60 | 3.00 | 2.509 | - | -46.09 | 49.167 | 287.310 | |
| 5150.00 | - | - | - | - | - | - | - | - | 500.00 |



Retlif Testing Laboratories

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| | RETLIF TESTING LABORATORIES ==== | | | | | | | |
| EMISSIONS TEST DATA SHEET | | | | | | | | |
| Test Method | Unwanted Emissions into Restricted Frequency Bands | | | | | | | |
| Customer | Vypin LLC | | | | | | | |
| Job Number | R-6285N-1 | | | | | | | |
| Test Sample | reSeal / safeTstrap Bluetooth Low Energy Radio Device | | | | | | | |
| Model Number | VP800 | | | | | | | |
| Serial Number | 0280e1506408 | | | | | | | |
| Test Specification | FCC Part 15 Subpart C | Paragraph: 15.247(d) | | | | | | |
| Operating Mode | Transmitting modulated signal at 2402 MHz, 2426 MHz and 2480 MHz consecu | utively. | | | | | | |
| Technician | M. Seamans | | | | | | | |
| Date | December 12 th , 2017 | | | | | | | |
| Notes: Detector: Quasi-Peak | <1GHz, Average >1GHz X=0.56112 | | | | | | | |

| TEST PARAMETERS | | | | | | | | | |
|--------------------|-----------------------|------------------|-----------------|------------------------------|-------------------------------------|----------------------|--------------------------------|----------------------|----------------|
| Restricted Band | Measured Frequency | Meter Reading | Antenna Gain | Duty Cycle Factor 10log(1/x) | Duty Cycle Factor 20log(x) | Corrected Reading | Converted Field Strength | Converted Reading | Limit at 3M |
| MHz | MHz | dBm | dB | dB | dBm | dBm | dBuV/m | uV/m | uV/m |
| 5350.00 | - | - | - | - | - | - | - | - | 500.00 |
| | 5400.00* | -69.62 | - | - | - | -69.62 | 25.637 | 19.137 | |
| 5460.00 | - | - | - | - | - | - | - | - | 500.00 |
| 7250.00 | - | - | - | - | - | - | - | - | 500.00 |
| | 7278.00 | -57.19 | 3.00 | 2.509 | - | -51.680 | 43.577 | 150.956 | |
| 7750.00 | - | - | - | - | - | - | - | - | 500.00 |
| 8025.00 | _ | _ | - | - | _ | _ | - | - | 500.00 |
| | 8300.00* | -68.72 | _ | - | - | -68.72 | 26.537 | 21.226 | |
| 8500.00 | - | - | - | - | - | - | - | - | 500.00 |
| 9000.00 | - | - | - | - | - | - | - | - | 500.00 |
| | 9100.00* | -68.81 | - | - | - | -68.81 | 26.447 | 21.007 | |
| 9200.00 | - | - | - | - | - | - | - | - | 500.00 |
| 9300.00 | - | - | - | - | - | - | - | - | 500.00 |
| | 9400.00* | -68.41 | - | - | - | -68.41 | 26.847 | 21.997 | |
| 9500.00 | - | - | - | - | - | - | - | - | 500.00 |
| 10600.00 | - | - | - | - | - | - | - | - | 500.00 |
| | 12400.00 | -55.79 | 3.00 | 2.509 | - | -50.280 | 44.977 | 177.358 | |
| 12700.00 | - | - | - | - | - | - | - | - | 500.00 |
| T2700.00 | 1.1.1 10 10 6 | | | 1 1 1 | | 11 | 1 | <u> </u> | 300.0 |



Retlif Testing Laboratories

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| EXAMPLE 2 RETLIF TESTING LABORATORIES | | | | | | | | | |
| | EMISSIONS TEST DATA SHEET | | | | | | | | |
| Test Method | Unwanted Emissions into Restricted Frequency Bands | | | | | | | | |
| Customer | Vypin LLC | | | | | | | | |
| Job Number | R-6285N-1 | | | | | | | | |
| Test Sample | reSeal / safeTstrap Bluetooth Low Energy Radio Device | | | | | | | | |
| Model Number | VP800 | VP800 | | | | | | | |
| Serial Number | 0280e1506408 | | | | | | | | |
| Test Specification | FCC Part 15 Subpart C | Paragraph: 15.247(d) | | | | | | | |
| Operating Mode | Transmitting modulated signal at 2402 MHz, 2426 MHz and 2480 MHz c | consecutively. | | | | | | | |
| Technician | M. Seamans | | | | | | | | |
| Date | December 12 th , 2017 | | | | | | | | |
| Notes: Detector: Quasi-Pe | Notes: Detector: Quasi-Peak <1GHz, Average >1GHz X=0.56112 | | | | | | | | |

| | | | | TEST PARA | METERS | | | | |
|--------------------|-----------------------|------------------|-----------------|------------------------------|-------------------------------------|----------------------|--------------------------------|----------------------|----------------|
| Restricted Band | Measured Frequency | Meter Reading | Antenna Gain | Duty Cycle Factor 10log(1/x) | Duty Cycle Factor 20log(x) | Corrected Reading | Converted Field Strength | Converted Reading | Limit at 3M |
| MHz | MHz | dBm | dB | dB | dBm | dBm | dBuV/m | uV/m | uV/m |
| 13250.00 | - | - | - | - | - | - | - | - | 500.00 |
| | 15800.00* | -67.56 | - | - | - | -67.56 | 27.697 | 24.259 | |
| 16200.00 | - | - | - | - | - | - | - | - | 500.00 |
| | | | | | | | | | |
| 17700.00 | - | - | - | - | - | - | - | - | 500.00 |
| | 19240.00* | -67.68 | - | - | - | -67.68 | 27.577 | 23.926 | |
| 21400.00 | - | - | - | - | - | - | - | - | 500.00 |
| | | | | | | | | | |
| 22010.00 | - | - | - | - | - | - | - | - | 500.00 |
| | 22320.00* | -66.52 | - | - | - | -66.52 | 28.737 | 27.345 | |
| 23120.00 | - | - | - | - | - | - | - | - | 500.00 |
| | | | | | | | | | |
| 23000.00 | - | - | - | - | - | - | - | - | 500.00 |
| | 23800.00* | -65.32 | - | - | - | -65.32 | 29.937 | 31.396 | |
| 24000.00 | - | - | - | - | - | - | - | - | 500.00 |
| | | | | | | | | | |
| | | | | | | | | | |
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| | | | | | | | | | |

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. *This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).



| EXAMPLE 2 RETLIF TESTING LABORATORIES | | | | | | | | |
|--|---|---|--|--|--|--|--|--|
| | EMISSIONS TEST DATA SHEET | | | | | | | |
| Test Method | Unwanted Emissions into Restricted Frequency Bands | | | | | | | |
| Customer | Vypin LLC | | | | | | | |
| Job Number | R-6285N-1 | R-6285N-1 | | | | | | |
| Test Sample | reSeal / safeTstrap Bluetooth Low Energy Radio Device | reSeal / safeTstrap Bluetooth Low Energy Radio Device | | | | | | |
| Model Number | VP800 | VP800 | | | | | | |
| Serial Number | 0280e1506408 | | | | | | | |
| Test Specification | FCC Part 15 Subpart C | Paragraph: 15.247(d) | | | | | | |
| Operating Mode | Transmitting modulated signal at 2402 MHz, 2426 MHz and 2480 MHz co | onsecutively. | | | | | | |
| Technician | M. Seamans | | | | | | | |
| Date | December 12 th , 2017 | | | | | | | |
| Notes: Detector: Peak X | X=0.56112 | | | | | | | |

| Notes: | Detector: | Peak | X=0.56112 |
|--------|-----------|------|-----------|
| | | | |

| TEST PARAMETERS | | | | | | | | |
|-----------------------|---|--|---|--|---|---|--|---|
| Measured Frequency | Meter Reading | Antenna Gain | Duty Cycle Factor 10log(1/x) | Duty Cycle Factor 20log(x) | Corrected Reading | Converted Field Strength | Converted Reading | Limit at 3M |
| MHz | dBm | dB | dB | dBm | dBm | dBuV/m | uV/m | uV/m |
| - | - | - | - | - | - | - | - | 5000.00 |
| 1350.00* | -60.29 | - | - | - | -60.29 | 34.967 | 56.024 | |
| - | - | - | - | - | - | - | - | 5000.00 |
| <u> </u> | | | | | | | | |
| - | - | - | - | - | - | - | - | 5000.00 |
| 1500.00* | -59.80 | - | - | - | -59.80 | 35.457 | 59.276 | |
| - | - | - | - | - | - | - | - | 5000.00 |
| 1 | | | | | | | | |
| - | - | - | - | - | - | - | - | 5000.00 |
| 1680.00* | -60.62 | - | - | - | -60.62 | 34.637 | 53.936 | |
| - | - | - | - | - | - | - | - | 5000.00 |
| | | | | | | | | |
| - | - | - | - | - | - | - | - | 5000.00 |
| 1720.00* | -60.75 | - | - | - | -60.75 | 34.507 | 53.134 | |
| - | - | - | - | - | - | - | - | 5000.00 |
| <u> </u> | | | | | | | | |
| - | - | - | - | | - | - | - | 5000.00 |
| 2250.00* | -60.58 | - | - | - | -60.58 | 34.677 | 54.185 | |
| - | - | - | - | - | - | - | - | 5000.00 |
| 1 | <u> </u> | | | | | | | |
| - | - | - | - | - | - | - | - | 5000.00 |
| 2389.96 | -36.09 | 3.00 | 2.509 | - | -30.580 | 64.677 | 1713.37 | |
| - | - | - | - | - | - | - | - | 5000.00 |
| | Frequency MHz - 1350.00* - 1500.00* - 1500.00* - 1680.00* - 1720.00* - 2250.00* - 2389.96 | Frequency Reading MHz dBm - - 1350.00* -60.29 - - 1500.00* -59.80 - - - - 1680.00* -60.62 - - 1720.00* -60.75 - - 2250.00* -60.58 - - 2389.96 -36.09 - - | Frequency Reading Gain MHz dBm dB - - - 1350.00* -60.29 - - - - 1500.00* -59.80 - - - - 1680.00* -60.62 - - - - 1720.00* -60.75 - - - - 2250.00* -60.58 - - - - 2389.96 -36.09 3.00 | Measured Frequency Meter Reading Antenna Gain Duty Cycle Factor 10log(1/x) MHz dBm dB dB - - - - 1350.00* -60.29 - - - - - - - - - - 1500.00* -59.80 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - | Measured Frequency Meter Reading Antenna Gain Duty Cycle Factor 10log(1/x) Duty Cycle Factor 20log(x) MHz dBm dB dB dBm | Measured Frequency Meter Reading Antenna Gain Duty Cycle Factor 10log(1/x) Duty Cycle Factor 20log(x) Corrected Reading MHz dBm dB dB dBm dBm dBm - - - - - - 1350.00* -60.29 - - - - - - - - - - - - - - - - - - - - - - 1500.00* -59.80 - - - - - - - - - - - - - - - - 1680.00* -60.62 - - - - - - - - - - - - - 1720.00* -60.75 - - - - - - - - | Measured Frequency Meter Reading Antenna Gain Duty Cycle Factor 10log(1/x) Cycle Factor 20log(x) Corrected Reading Strength Converted Field Strength MHz dBm dB dBm dBm dBuV/m | Measured Frequency Meter Reading Antenna Gain Duty Cycle Factor 10log(1/x) Cycle Factor 20log(x) Corrected Reading 20log(x) Converted Strength Converted Reading 20log(x) MHz dBm dB dBm dBm dBu/M uV/m 1350.00* -60.29 - - - -60.29 34.967 56.024 - - - - -60.29 34.967 56.024 - - - - - - - - - - - - - - - - - - 1500.00* -59.80 - |



Retlif Testing Laboratories

| EXAMPLE 2 RETLIF TESTING LABORATORIES | | | | | | | | |
|--|---|---|--|--|--|--|--|--|
| | EMISSIONS TEST DATA SHEET | | | | | | | |
| Test Method | Unwanted Emissions into Restricted Frequency Bands | | | | | | | |
| Customer | Vypin LLC | | | | | | | |
| Job Number | R-6285N-1 | R-6285N-1 | | | | | | |
| Test Sample | reSeal / safeTstrap Bluetooth Low Energy Radio Device | reSeal / safeTstrap Bluetooth Low Energy Radio Device | | | | | | |
| Model Number | VP800 | VP800 | | | | | | |
| Serial Number | 0280e1506408 | | | | | | | |
| Test Specification | FCC Part 15 Subpart C | Paragraph: 15.247(d) | | | | | | |
| Operating Mode | Transmitting modulated signal at 2402 MHz, 2426 MHz and 2480 MHz co | onsecutively. | | | | | | |
| Technician | M. Seamans | | | | | | | |
| Date | December 12 th , 2017 | | | | | | | |
| Notes: Detector: Peak X | X=0.56112 | | | | | | | |

| Notes: | Detector: | Peak | X=0.56112 |
|--------|-----------|------|-----------|
| | | | |

| TEST PARAMETERS | | | | | | | | |
|-----------------------|----------------------|--|---|---|---|--|--|---|
| Measured Frequency | Meter Reading | Antenna Gain | Duty Cycle Factor 10log(1/x) | Duty Cycle Factor 20log(x) | Corrected Reading | Converted Field Strength | Converted Reading | Limit at 3M |
| MHz | dBm | dB | dB | dBm | dBm | dBuV/m | uV/m | uV/m |
| - | - | - | - | - | - | - | - | 5000.00 |
| 2483.57 | -26.18 | 3.00 | 2.509 | -5.018 | -25.689 | 69.568 | 3008.89 | |
| - | - | - | - | - | - | - | - | 5000.00 |
| <u> </u> | | | | | | | | |
| - | - | - | - | - | - | - | - | 5000.00 |
| 2750.00* | -58.85 | - | - | - | -58.85 | 36.407 | 66.127 | |
| - | - | - | - | - | - | - | - | 5000.00 |
| <u> </u> | | | | | | | | |
| - | - | - | - | - | - | - | - | 5000.00 |
| 3263.00* | -58.49 | - | - | - | -58.49 | 36.767 | 68.925 | |
| - | - | - | - | - | - | - | - | 5000.00 |
| | | | | | | | | |
| - | - | - | - | - | - | - | - | 5000.00 |
| 3336.00* | -58.87 | - | - | - | -58.87 | 36.387 | 65.974 | |
| - | - | - | - | - | - | - | - | 5000.00 |
| | | | | | | | | |
| - | - | - | - | - | - | - | - | 5000.00 |
| 3350.00* | -58.42 | - | - | - | -58.42 | 36.837 | 69.974 | |
| - | - | - | - | - | - | - | - | 5000.00 |
| 1 | ' | | | | | | | |
| - | - | - | - | - | - | - | - | 5000.00 |
| 3700.00* | -57.80 | - | - | - | -57.80 | 37.457 | 74.624 | |
| - | - | - | - | - | - | - | - | 5000.00 |
| | ### Frequency MHz | Frequency Reading MHz dBm - - 2483.57 -26.18 - - 2750.00* -58.85 - - 3263.00* -58.49 - - 3336.00* -58.87 - - 3350.00* -58.42 - - 3700.00* -57.80 - - | Frequency Reading Gain MHz dBm dB - - - 2483.57 -26.18 3.00 - - - 2750.00* -58.85 - - - - 3263.00* -58.49 - - - - 3336.00* -58.87 - - - - 3350.00* -58.42 - - - - 3700.00* -57.80 - - - - | Measured Frequency Meter Reading Antenna Gain Duty Cycle Factor 10log(1/x) MHz dBm dB dB - - - - 2483.57 -26.18 3.00 2.509 - - - - - - - - 2750.00* -58.85 - - - - - - - - - - 3263.00* -58.49 - - - - - - 3336.00* -58.87 - - - - - - 3350.00* -58.42 - - - - - - - - - - - - - - - - - - - - - - - - - - < | Measured Frequency Meter Reading Antenna Gain Duty Cycle Factor 10log(1/x) Duty Cycle Factor 20log(x) MHz dBm dB dB dBm - - - - 2483.57 -26.18 3.00 2.509 -5.018 - - - - - - - - 2750.00* -58.85 - - - - - - 23263.00* -58.49 - - - - - - 3336.00* -58.87 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - | Measured Frequency Meter Reading Antenna Gain Duty Cycle Factor 10log(1/x) Duty Cycle Factor 20log(x) Corrected Reading MHz dBm dB dB dBm dBm dBm - - - - - - 2483.57 -26.18 3.00 2.509 -5.018 -25.689 - - - - - - - - - - - - 2750.00* -58.85 - - - - - - 2750.00* -58.85 - | Measured Frequency Meter Reading Antenna Gain Duty Cycle Factor 10log(1/x) Cycle Factor 20log(x) Corrected Reading Strength Converted Field Strength MHZ dBm dB dBm dBm dBuV/m | Measured Frequency Meter Reading Antenna Gain Duty Cycle Factor 10log(1/x) Corrected Reading 20log(x) Converted Reading Strength Converted Reading Strength MHz dBm dB dB dBm dBm dBuy/m uV/m 2483.57 -26.18 3.00 2.509 -5.018 -25.689 69.568 3008.89 - - - - - - - - - - - - - - - - - - - <td< td=""></td<> |



Retlif Testing Laboratories

| ====================================== | | | | | | |
|--|---|----------------------|--|--|--|--|
| | EMISSIONS TEST DATA SHEET | | | | | |
| Test Method | Unwanted Emissions into Restricted Frequency Bands | | | | | |
| Customer | Vypin LLC | | | | | |
| Job Number | R-6285N-1 | | | | | |
| Test Sample | reSeal / safeTstrap Bluetooth Low Energy Radio Device | | | | | |
| Model Number | VP800 | VP800 | | | | |
| Serial Number | 0280e1506408 | | | | | |
| Test Specification | FCC Part 15 Subpart C | Paragraph: 15.247(d) | | | | |
| Operating Mode | Transmitting modulated signal at 2402 MHz, 2426 MHz and 2480 MHz co | onsecutively. | | | | |
| Technician | | | | | | |
| Date | December 12 th , 2017 | | | | | |
| Notes: Detector: Peak X | X=0.56112 | | | | | |

| Notes: | Detector: | Peak | X=0.56112 |
|--------|-----------|------|-----------|
| | | | |

| TEST PARAMETERS | | | | | | | | | |
|--------------------|-----------------------|------------------|-----------------|------------------------------|-------------------------------------|----------------------|--------------------------------|----------------------|----------------|
| Restricted Band | Measured Frequency | Meter Reading | Antenna Gain | Duty Cycle Factor 10log(1/x) | Duty Cycle Factor 20log(x) | Corrected Reading | Converted Field Strength | Converted Reading | Limit at 3M |
| MHz | MHz | dBm | dB | dB | dBm | dBm | dBuV/m | uV/m | uV/m |
| 4500.00 | - | - | - | - | - | - | - | - | 5000.00 |
| | 4960.00 | -40.04 | 3.00 | 2.509 | - | -34.530 | 60.727 | 1087.3 | |
| 5150.00 | - | - | - | - | - | - | - | - | 5000.00 |
| | | ! | | | | | | | |
| 5350.00 | - | - | - | - | - | - | - | - | 5000.00 |
| | 5400.00* | -57.16 | - | - | - | -57.16 | 38.097 | 80.330 | |
| 5460.00 | - | - | - | - | - | - | - | - | 5000.00 |
| | | ! | | | | | | | |
| 7250.00 | - | - | - | - | - | - | - | - | 5000.00 |
| | 7278.00 | -48.35 | 3.00 | 2.509 | - | -42.840 | 52.417 | 417.687 | |
| 7750.00 | - | - | - | - | - | - | - | - | 5000.00 |
| | | ! | | | | | | | |
| 8025.00 | - | - | - | - | - | - | - | - | 5000.00 |
| | 8300.00* | -56.42 | - | - | - | -56.42 | 38.837 | 87.474 | |
| 8500.00 | - | - | - | - | - | - | - | - | 5000.00 |
| | | ! | | | | | | | |
| 9000.00 | - | - | - | - | - | - | - | - | 5000.00 |
| | 9100.00* | -56.76 | - | - | - | -56.76 | 38.497 | 84.116 | |
| 9200.00 | - | - | - | - | - | - | - | - | 5000.00 |
| | | [| | | | | | | |
| 9300.00 | - | - | - | - | - | - | - | - | 5000.00 |
| | 9400.00* | -56.29 | - | - | - | -56.29 | 38.967 | 88.793 | |
| 9500.00 | - | - | - | - | - | - | - | - | 5000.00 |



Retlif Testing Laboratories

| | ■ RETLIF TESTING LABORATORIES === | | | | | |
|--|---|----------------------|--|--|--|--|
| | EMISSIONS TEST DATA SHEET | | | | | |
| Test Method | Unwanted Emissions into Restricted Frequency Bands | | | | | |
| Customer | Vypin LLC | | | | | |
| Job Number | R-6285N-1 | | | | | |
| Test Sample | reSeal / safeTstrap Bluetooth Low Energy Radio Device | | | | | |
| Model Number | VP800 | | | | | |
| Serial Number | 0280e1506408 | | | | | |
| Test Specification | FCC Part 15 Subpart C | Paragraph: 15.247(d) | | | | |
| Operating Mode Transmitting modulated signal at 2402 MHz, 2426 MHz and 2480 MHz consecutively. | | | | | | |
| Technician | M. Seamans | | | | | |
| Date | December 12 th , 2017 | _ | | | | |
| Notes: Detector: Peak | V_0.56112 | | | | | |

Notes: Detector: Peak X=0.56112

| | TEST PARAMETERS | | | | | | | | |
|--------------------|-----------------------|------------------|-----------------|---------------------------------------|-------------------------------------|----------------------|--------------------------------|----------------------|----------------|
| Restricted Band | Measured Frequency | Meter Reading | Antenna Gain | Duty Cycle Factor 10log(1/x) | Duty Cycle Factor 20log(x) | Corrected Reading | Converted Field Strength | Converted Reading | Limit at 3M |
| MHz | MHz | dBm | dB | dB | dBm | dBm | dBuV/m | uV/m | uV/m |
| 10600.00 | - | - | - | - | - | - | - | - | 5000.00 |
| | 12400.00 | -43.93 | 3.00 | 2.509 | - | -38.420 | 56.837 | 694.786 | |
| 12700.00 | - | - | - | - | - | - | - | - | 5000.00 |
| | | | | | | | | | |
| 13250.00 | - | - | - | - | - | - | - | - | 5000.00 |
| | 15800.00* | -56.11 | - | - | - | -56.11 | 39.147 | 90.652 | |
| 16200.00 | - | - | - | - | - | - | - | - | 5000.00 |
| | | | | | | | | | |
| 17700.00 | - | - | - | - | - | - | - | - | 5000.00 |
| | 19240.00* | -56.02 | - | - | - | -56.02 | 39.237 | 91.592 | |
| 21400.00 | - | - | - | - | - | - | - | - | 5000.00 |
| | | | | | | | | | |
| 22010.00 | - | - | - | - | - | - | - | - | 5000.00 |
| | 22320.00* | -55.86 | - | - | - | -55.86 | 39.397 | 93.299 | |
| 23120.00 | - | - | - | - | - | - | - | - | 5000.00 |
| | | | | | | | | | |
| 23000.00 | - | - | - | - | - | - | - | - | 5000.00 |
| | 23800.00* | -52.92 | - | - | - | -52.92 | 42.337 | 130.882 | |
| 24000.00 | - | - | - | - | - | - | - | - | 5000.00 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).



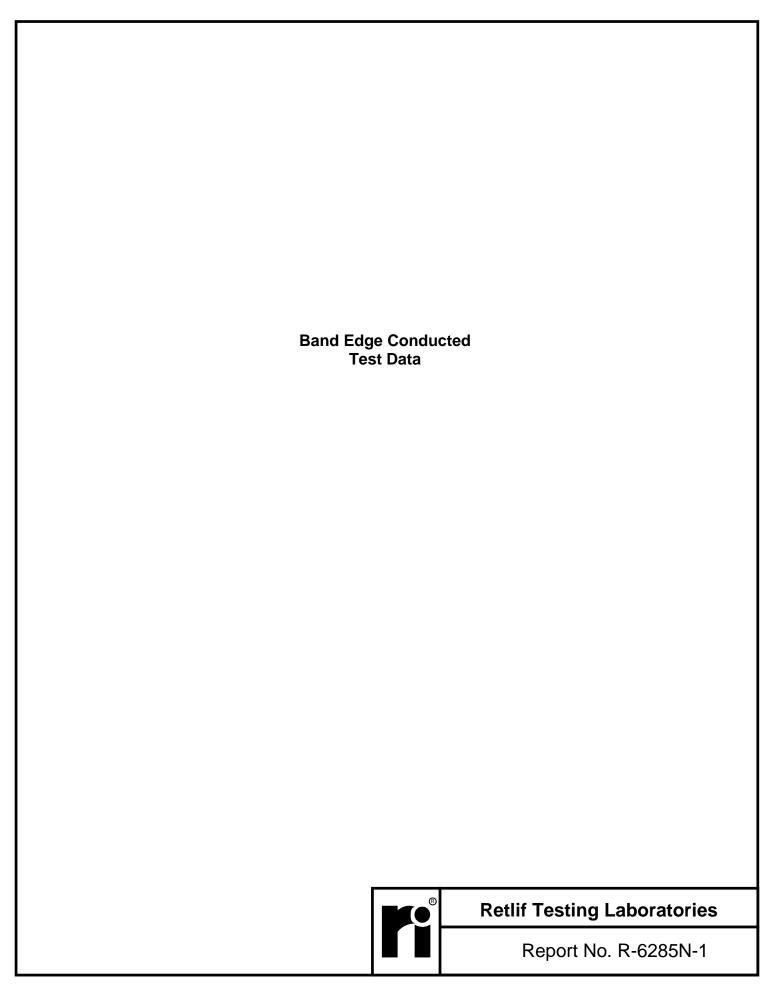
Retlif Testing Laboratories



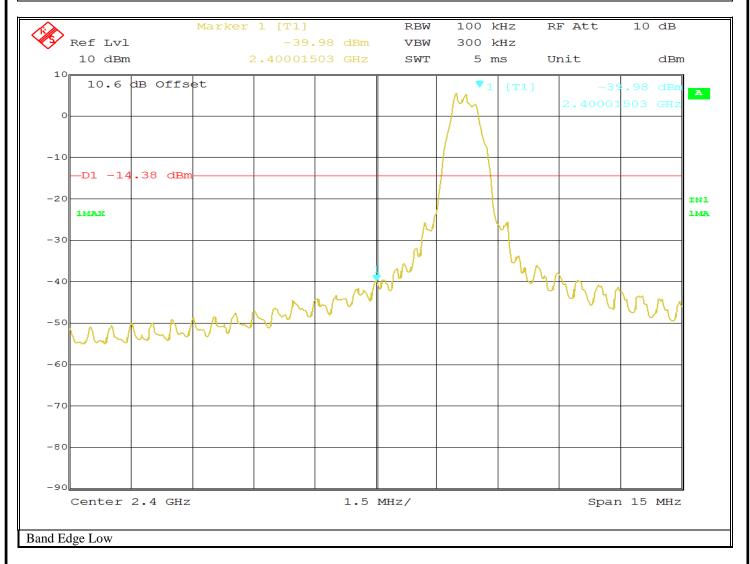
| RETLIF TESTING LABORATORIES | | | | | | |
|--|---|--|--|--|--|--|
| | EMISSIONS TEST DATA SHEET | | | | | |
| Test Method | Duty Cycle Determination | | | | | |
| Customer | Vypin LLC | | | | | |
| Job Number | R-6285N-1 | | | | | |
| Test Sample | reSeal / safeTstrap Bluetooth Low Energy Radio Device | | | | | |
| Model Number | VP800 | | | | | |
| Serial Number | 0280e1506408 | | | | | |
| Test Specification | FCC part 15.35 | | | | | |
| Operating Mode | Transmitting modulated signal | | | | | |
| Technician | M. Seamans | | | | | |
| Date | December 12 th , 2017 | | | | | |
| Notes: 160 pulses at 350.701403uS (56.1122245ms total) within 100ms observation time | | | | | | |

| TEST PARAMETERS | | | | | | | | |
|------------------|------------------------|--|--------------|------------------------------|--|--|--|--|
| Measured on time | Measured time interval | Deter Cook France Colored Core | Result | Duty Cycle Factor Allowed | | | | |
| msec | msec | Duty Cycle Factor Calculation | dB | dB | | | | |
| 56.1122245 | 100 | = 20*Log ₁₀ (56.1122245 ms/ 100 ms) | -5.018850278 | -5.018 | | | | |
| | | | | | | | | |



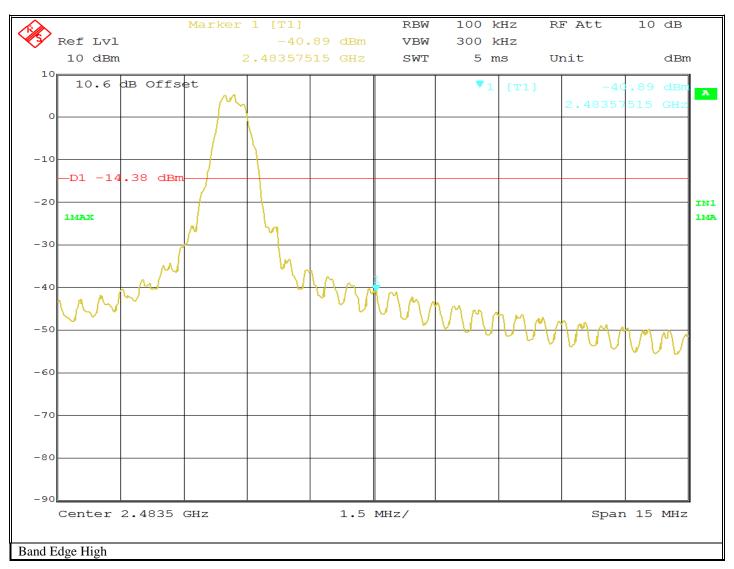


| EMISSIONS TEST DATA SHEET | | | | |
|---------------------------|---|--|--|--|
| Method: | Band Edge | | | |
| Test Specification: | FCC Part 15, Subpart C Paragraph: 15.247 (d) | | | |
| Job Number: | R-6285N-1 | | | |
| Customer: | ypin LLC | | | |
| Test Sample: | reSeal / safeTstrap Bluetooth Low Energy Radio Device | | | |
| Model Number: | VP820 | | | |
| Serial Number: | 0280e1506408 | | | |
| Operating Mode: | Transmitting modulated signal at 2.402 GHz | | | |
| Technician: | M.Seamans | | | |
| Date(s): | December 12 th , 2017 | | | |
| Temp/ Relative Humidity: | 19.6 °C / 29.4 % | | | |
| Notes: | Limit: -14.38 dBm | | | |





| EMISSIONS TEST DATA SHEET | | | | | |
|---------------------------|---|--|--|--|--|
| Method: | Band Edge | | | | |
| Test Specification: | FCC Part 15, Subpart C Paragraph: 15.247 (d) | | | | |
| Job Number: | 2-6285N-1 | | | | |
| Customer: | Vypin LLC | | | | |
| Test Sample: | reSeal / safeTstrap Bluetooth Low Energy Radio Device | | | | |
| Model Number: | VP820 | | | | |
| Serial Number: | 0280e1506408 | | | | |
| Operating Mode: | Transmitting modulated signal at 2.480 GHz | | | | |
| Technician: | Technician: M.Seamans | | | | |
| Date(s): | December 12th, 2017 | | | | |
| Temp/ Relative Humidity: | 19.6 °C / 29.4 % | | | | |
| Notes: | Limit: -14.38 dBm | | | | |







Test Setup



Retlif Testing Laboratories



Horizontal Antenna Polarization, 30 MHz to 200 MHz, Biconical Antenna



Vertical Antenna Polarization, 30 MHz to 200 MHz, Biconical Antenna



Retlif Testing Laboratories



Horizontal Antenna Polarization, 200 MHz to 1 GHz, Log Periodic



Vertical Antenna Polarization, 200 MHz to 1 GHz, Log Periodic



Retlif Testing Laboratories



Horizontal Antenna Polarization, 1 GHz to 18 GHz



Vertical Antenna Polarization, 1 GHz to 18 GHz



Retlif Testing Laboratories



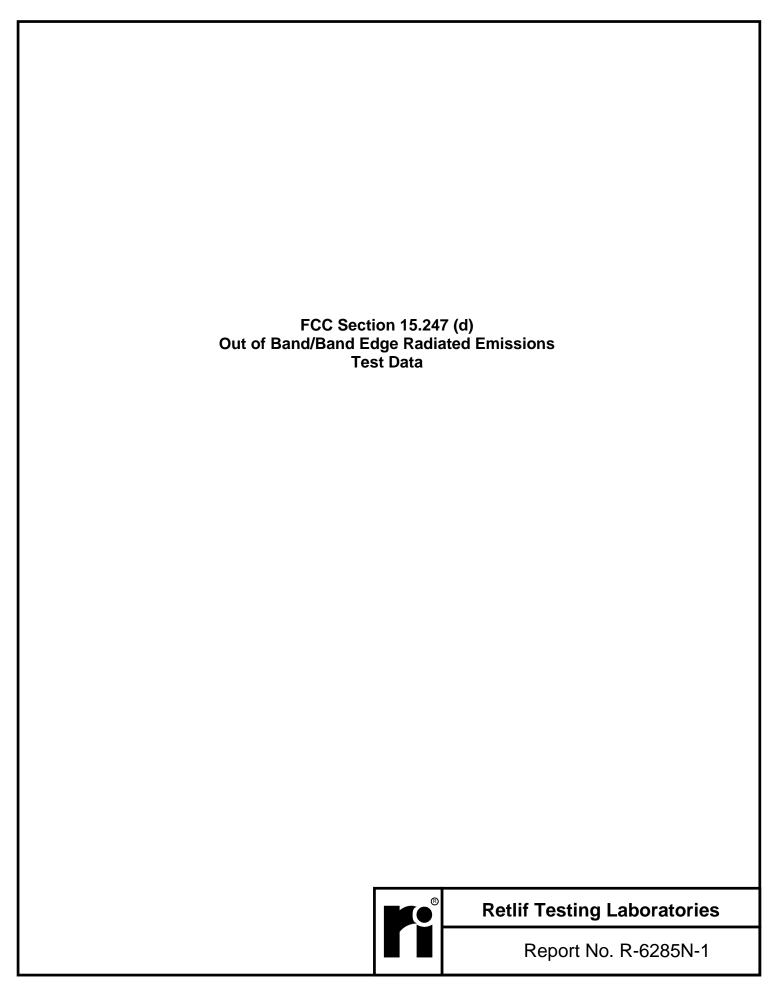
Horizontal Antenna Polarization, 18 GHz to 25 GHz



Vertical Antenna Polarization, 18 GHz to 25 GHz



Retlif Testing Laboratories



RETLIF TESTING LABORATORIES EMISSIONS TEST DATA SHEET Spurious Emissions 30 MHz to 25 GHz **Test Method** Customer Vypin LLC R-6285N-1 Job Number reSeal / safeTstrap Bluetooth Low Energy Radio Device **Test Sample** VP800 **Model Number** Serial Number 0280e1506408 **Test Specification** FCC 15.247(d) **Operating Mode** Transmitting modulated signal Technician M. Seamans Date December 13th, 2017

Notes: EUT Antenna replaced with Dummy Load

Test Antenna Distance: 3 meters Detector: Quasi-Peak < 1GHz; Average > 1GHz

TEST PARAMETERS

| Frequency | Antenna Position | EUT Orientation | Meter Reading | Correction Factor | Corrected Reading | | Limit at 3M |
|-----------|---------------------|--------------------|------------------|----------------------|----------------------|---|-------------|
| MHz | (H/V) / Height | Degrees | dBuV | dB | dBuV/m | | dBuV/m |
| 30.00 | - | - | - | - | - | | 40.0 |
| 1 | - | - | - | - | - | | |
| 38.00 | V-1m | 0.0 | 9.10 | 14.20 | 23.30 | * | |
| 1 | - | - | - | - | - | | |
| 88.00 | - | - | - | - | - | | 40.0 |
| 88.00 | - | - | - | - | - | | 43.5 |
| 1 | - | - | - | - | - | | |
| 115.00 | V-1m | 0.0 | 7.28 | 10.02 | 17.30 | * | |
| 175.00 | V-1m | 0.0 | 5.10 | 12.80 | 17.90 | * | |
| 1 | - | - | - | - | - | | |
| 216.00 | - | - | - | - | - | | 43.5 |
| 216.00 | - | - | - | - | - | | 46.0 |
| 1 | - | - | - | - | - | | |
| 1 | - | - | - | - | - | | |
| 1 | - | - | - | - | - | | |
| 960.00 | - | - | - | - | - | | 46.0 |
| 960.00 | - | - | - | - | - | | 54.0 |
| 1 | - | - | - | - | - | | |
| 5400.00 | V-1m | 0.0 | 31.40 | 0.92 | 32.32 | * | |
| 12200.00 | V-1m | 0.0 | 33.46 | 8.37 | 41.83 | * | |
| 22320.00 | V-1m | 0.0 | 34.50 | -5.30 | 29.20 | * | |
| 1 | - | - | - | - | - | | |
| 25000.00 | - | - | - | - | - | | 54.0 |

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).



Retlif Testing Laboratories

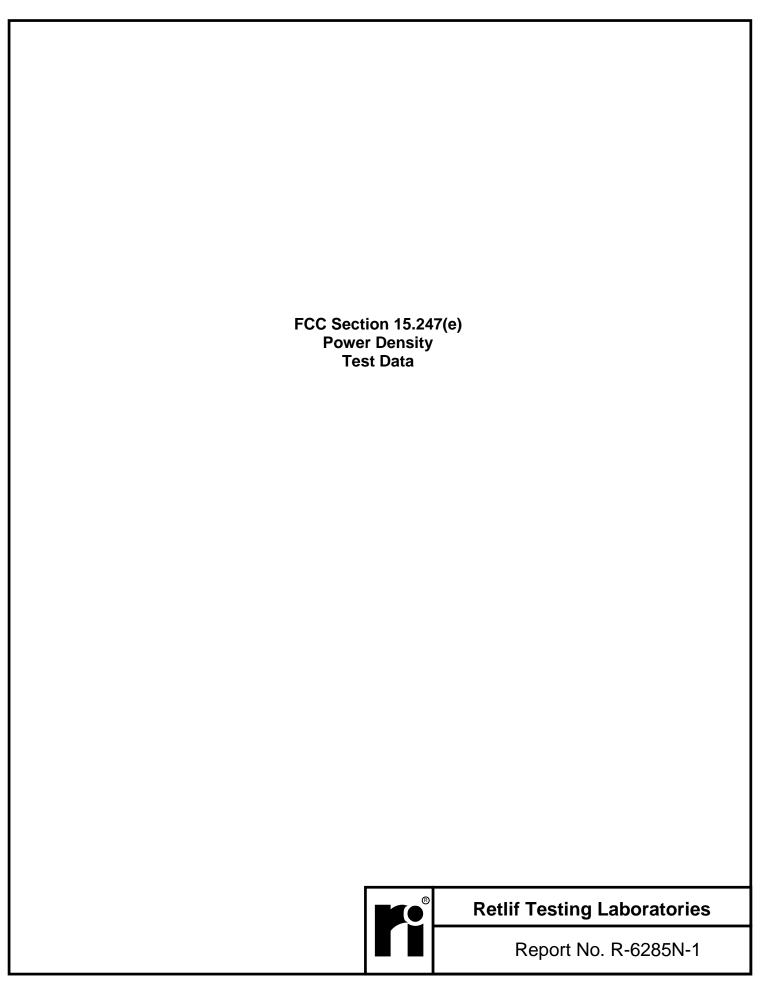
Test Photographs Power Density



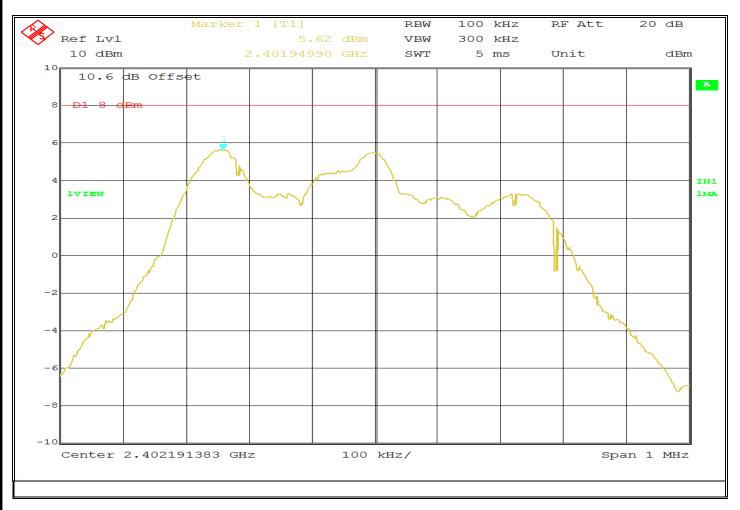
Test Configuration



Retlif Testing Laboratories

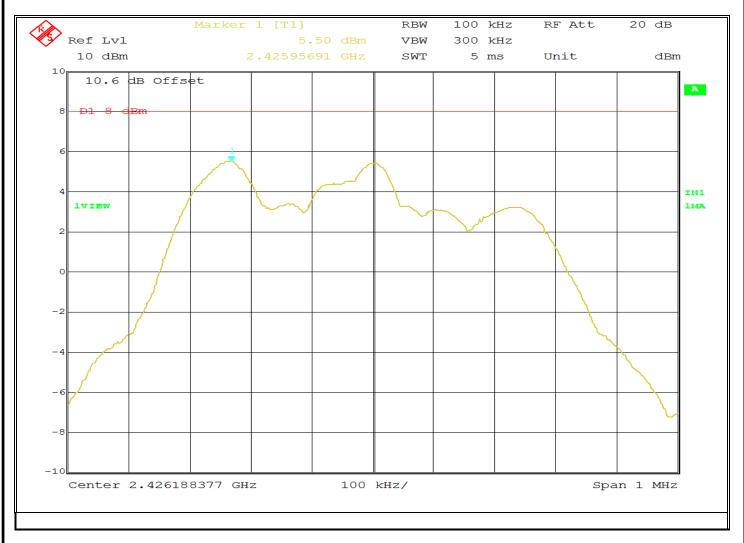


| EMISSIONS TEST DATA SHEET | |
|---------------------------|---|
| Method: | Power Spectral Density |
| Test Specification: | FCC Part 15, Subpart C Paragraph: 15.247 (e) |
| Job Number: | R-6285N-1 |
| Customer: | Vypin LLC |
| Test Sample: | reSeal / safeTstrap Bluetooth Low Energy Radio Device |
| Model Number: | VP800 |
| Serial Number: | 0280e1506408 |
| Operating Mode: | Transmitting modulated signal at 2.402 GHz |
| Technician: | M.Seamans |
| Date(s): | December 12 th , 2017 |
| Temp/ Relative Humidity: | 18.8 °C / 29.9 % |
| Results: | Power Spectral Density: 5.62 dBm |





| EMISSIONS TEST DATA SHEET | |
|---------------------------|---|
| Method: | Power Spectral Density |
| Test Specification: | FCC Part 15, Subpart C Paragraph: 15.247 (e) |
| Job Number: | R-6285N-1 |
| Customer: | Vypin LLC |
| Test Sample: | reSeal / safeTstrap Bluetooth Low Energy Radio Device |
| Model Number: | VP800 |
| Serial Number: | 0280e1506408 |
| Operating Mode: | Transmitting modulated signal at 2.426 GHz |
| Technician: | M.Seamans |
| Date(s): | December 12 th , 2017 |
| Temp/ Relative Humidity: | 18.8 °C / 29.9 % |
| Results: | Power Spectral Density: 5.50 dBm |





| EMISSIONS TEST DATA SHEET | |
|---------------------------|---|
| Method: | Power Spectral Density |
| Test Specification: | FCC Part 15, Subpart C Paragraph: 15.247 (e) |
| Job Number: | R-6285N-1 |
| Customer: | Vypin LLC |
| Test Sample: | reSeal / safeTstrap Bluetooth Low Energy Radio Device |
| Model Number: | VP800 |
| Serial Number: | 0280e1506408 |
| Operating Mode: | Transmitting modulated signal at 2.480 GHz |
| Technician: | M.Seamans |
| Date(s): | December 12 th , 2017 |
| Temp/ Relative Humidity: | 18.8 °C / 29.9 % |
| Results: | Power Spectral Density: 5.20 dBm |

