

RF Exposure Evaluation Report

Product : Forte Data Glove
Trade mark : BeBop Sensors, Inc
Model/Type reference : DG1
Serial Number : N/A
Report Number : EED32L00283202
FCC ID : 2AUSB-BBSFDG1
Date of Issue : Nov. 14, 2019
Test Standards : 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06
Test result : PASS

Prepared for:

BeBop Sensors, Inc.
970 Miller ave.
Berkeley CA, 94708

Prepared by:

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2 Version

Version No.	Date	Description
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4 General Information

4.1 Client Information

Applicant:	BeBop Sensors, Inc.
Address of Applicant:	970 Miller ave. Berkeley CA, 94708
Manufacturer:	BeBop Sensors, Inc.
Address of Manufacturer:	970 Miller ave. Berkeley CA, 94708
Factory:	RSP Inc
Address of Factory:	12745 W. Townsend St. Brookfield, WI 53005

4.2 General Description of EUT

Product Name:	Forte Data Glove
Model No.(EUT):	DG1
Trade Mark:	BeBop Sensors, Inc
EUT Supports Radios application:	4.0 BLE Single mode

4.3 Product Specification subjective to this standard

Frequency Range:	2400MHz to 2483.5MHz	
Modulation Type:	GFSK	
Test Power Grade:	Default	
Test Software of EUT:	nRFgo Studio-Direct Test Mode UART interface	
Antenna Type:	PCB antenna	
Antenna Gain:	0.24dBi	
Power Supply:	Battery	3.7V,700mAh
Max Conducted Peak Output Power:	-1.416dBm	The Max Conducted Peak Output Power data refer to the report EED32L00283201
Sample Received Date:	Oct. 08, 2019	
Sample tested Date:	Oct. 08, 2019 to Nov. 13, 2019	
The tested sample(s) and the sample information are provided by the client.		

4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06
Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

5.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where $f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

5.1.3 EUT RF Exposure

The tune-up power is -1.5 dBm +/- 1dB, therefore the highest tune-up power is

-1.416 (0.72 mW) @ 2440 MHz

When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

So,

$$\left(\frac{0.72}{5\text{mm}} \right) * \left(2.402\text{GHz} \right)^{0.5} = 0.2$$

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right] * \left[\sqrt{f(\text{GHz})} \right] = 0.2 < 3.0$$

Therefore, standalone SAR measurements are not required for both head and body

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32L00283201 for EUT external and internal photos.

*** End of Report ***

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