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RF Exposure Evaluation Report

Product : Blood Pressure Monitor

Trade mark : N/A

Model/Type reference : BP1S,BP1SA

Serial Number : N/A

Report Number : EED32N81308502

FCC ID : 2ADXK-8612

Date of Issue : Dec. 20, 2021

Test Standards : 47 CFR Part 1.1307

47 CFR Part 2.1093

KDB447498D01 General RF Exposure Guidance v06

Test result : PASS

Prepared for:

Shenzhen Viatom Technology Co., Ltd. 4E, 3#, Tingwei Industrial Park, Honglang North 2nd Road, Baoan District, Shenzhen, China

Prepared by:

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Check No.: 5039061221









1 Version

Version No.	Date	(6	Description			
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General Information

3.1 Client Information

Applicant:	Shenzhen Viatom Technology Co.,Ltd.				
Address of Applicant:	4E, 3#, Tingwei Industrial Park, Honglang North 2nd Road, Baoan District, Shenzhen, China				
Manufacturer:	Shenzhen Viatom Technology Co.,Ltd.				
Address of Manufacturer:	4E, 3#, Tingwei Industrial Park, Honglang North 2nd Road, Baoan District, Shenzhen, China				
Factory:	Shenzhen Viatom Technology Co., Ltd.				
Address of Factory:	4E, 3#, Tingwei Industrial Park, Honglang North 2nd Road, Baoan District, Shenzhen, China				

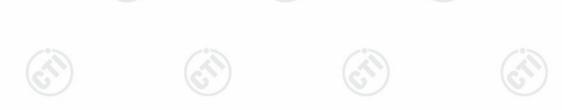
3.2 General Description of EUT

Product Name:	Blood Pressure Monitor
Model No.:	BP1S,BP1SA
Trade Mark:	N/A
Bluetooth Version:	V4.2
Operation Frequency:	2402MHz~2480MHz
Modulation Type:	GFSK
Transfer Rate:	⊠1Mbps □2Mbps
Number of Channel:	40
Product Type:	☐ Mobile ☐ Portable ☐ Fix Location
Antenna Type:	Monopole Antenna
Antenna Gain:	3.19dBi
Power Supply:	Lithium battery: DC 3.7V,130mAh,0.481Wh
Test Voltage:	DC 3.7V
Sample Received Date:	Dec. 07, 2021
Sample tested Date:	Dec. 07, 2021 to Dec. 16, 2021

Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

Model No.:BP1S,BP1SA

Only the model BP1S was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, the only difference is the enclosure color, BP1S is light silver, while BP1SA is dark silver.







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3.3 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

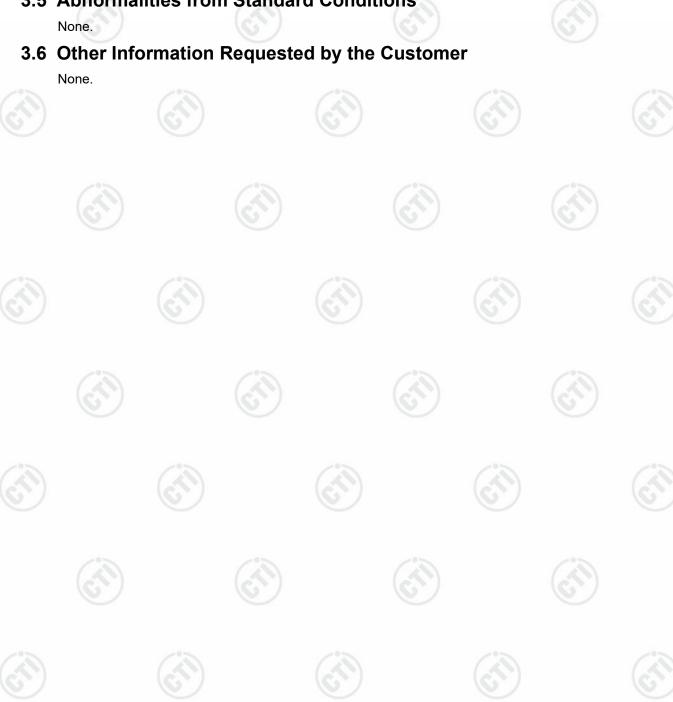
Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164

3.4 Deviation from Standards

None.

3.5 Abnormalities from Standard Conditions







4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 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.

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:

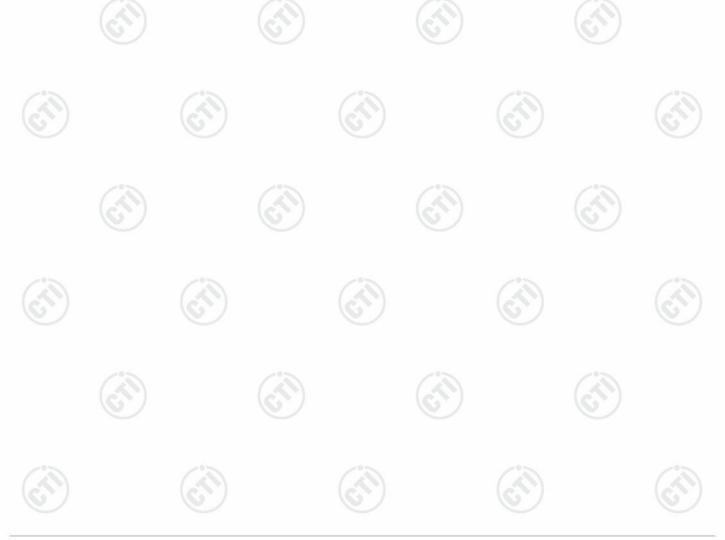
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\sqrt{f(GHz)} \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

f(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 \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion





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4.1.2 EUT RF Exposure

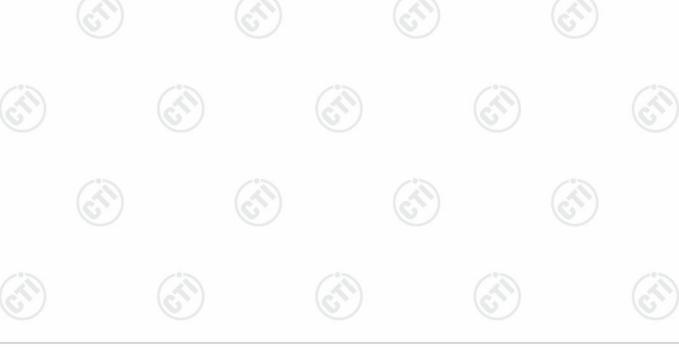
1) For BLE

Measurement Data

GFSK mode(1Mbps)						
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power			
	(dBm)	(dBm)	(dBm)	(mW)		
Lowest(2402MHz)	-5.09	-6.00±1	-5.00	0.316		
Middle(2440MHz)	-4.47	-5.00±1	-4.00	0.398		
Highest(2480MHz)	-4.23	-5.00±1	-4.00	0.398		

Channel	Maximum Peak Conducted	Tune up tolerance (dBm)	Maximum tune- up Power		Calculated	Exclusion
	Output Power (dBm)		(dBm)	(mW)	value	threshold
Lowest (2402MHz)	-5.09	-6.00±1	-5.00	0.316	0.098	
Middle (2440MHz)	-4.47	-5.00±1	-4.00	0.398	0.124	3.0
Highest (2480MHz)	-4.23	-5.00±1	-4.00	0.398	0.125	a

Remark: The Max Conducted Peak Output Power data refer to report Report No.: EED32N81308501.











PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No.EED32N81308501 for EUT external and internal photos.

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