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RF Exposure Evaluation Report

Report No. : CQASZ20200700644E-02
Applicant: Protects Me Ltd
Address of Applicant: 18 Devon Way, Chessington KT9 2RJ
Equipment Under Test (EUT):
EUT Name: Protect Me
Model No.: Protect Me
Brand Name: Protect Me
FCC ID: 2AW3LPROTECTME
Standards: 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06
Date of Receipt: 2020-07-06
Date of Test: 2020-07-06 to 2020-07-13
Date of Issue: 2020-07-13
Test Result : **PASS***

*In the configuration tested, the EUT complied with the standards specified above

Tested By:

Tom Chen

(Tom Chen)

Reviewed By:

Sheek Luo

(Sheek Luo)

Approved By:

Jack Ai

(Jack Ai)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20200700644E-02	Rev.01	Initial report	2020-07-13

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3 General Information

3.1 Client Information

Applicant:	Protects Me Ltd
Address of Applicant:	18 Devon Way, Chessington KT9 2RJ
Manufacturer:	MorphoMFG Limited
Address of Manufacturer:	Suite C, Level 7, World Trust Tower, 50 Stanley Street, Central, Hong Kong
Factory:	MorphoMFG Limited
Address of Factory:	Suite C, Level 7, World Trust Tower, 50 Stanley Street, Central, Hong Kong

3.2 General Description of EUT

Product Name:	Protect Me
Model No.:	Protect Me
Trade Mark:	Protect Me
Hardware Version:	V00
Software Version:	V9_Main_5170_04
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V4.0
Modulation Type:	GFSK
Transfer Rate:	1Mbps
Number of Channel:	40
Product Type:	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Test Software of EUT:	nRFgo Studio (manufacturer declare)
Antenna Type:	Integral antenna
Antenna Gain:	0dBi
EUT Power Supply:	lithium battery:DC3.7V, Charge by DC5.0V

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. 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.

4.1.2 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:

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

$f(\text{GHz})$ 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

4.1.3 EUT RF Exposure

Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-1.77	-1.5±1	-0.5	0.891
Middle(2441MHz)	2.96	2.5±1	3.5	2.239
Highest(2480MHz)	-0.07	-0.5±1	0.5	1.122

Worst case: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	-1.77	-1.5±1	-0.5	0.891	0.276	3.0
Middle (2441MHz)	2.96	2.5±1	3.5	2.239	0.700	
Highest (2480MHz)	-0.07	-0.5±1	0.5	1.122	0.353	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20200700644E-01