

Report No.: GZCR211002121704

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RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2110021217MD

Applicant: CEFALY Technology SPRL

Address of Applicant: Rue Louis Plescia 34, 4102 Seraing, Belgium

Manufacturer: CEFALY Technology SPRL

Address of Manufacturer: Rue Louis Plescia 34, 4102 Seraing, Belgium

Factory: JDI Electronics Factory

Address of Factory: Sima Village, Chang Ping Town, Dongguan, Guangdong

Equipment Under Test (EUT):

EUT Name: Medical device for the treatment of migraine

Model No.: CEFALY DUAL Connected

Standard(s): 47 CFR Part 2.1093

47 CFR Part 1.1310

 Date of Receipt:
 2021-10-14

 Date of Evaluation:
 2021-12-06

 Date of Issue:
 2021-12-07

Evaluation Result: Pass*

Kobe Jian EMC Laboratory Manager

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^{*} In the configuration evaluated, the EUT complied with the standards specified above.



EMC-TRF-03 Rev 1.0

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

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	Revision Record					
Version	Chapter	Date	Modifier	Remark		
01		2021-12-07		Original		

Authorized for issue by		
	lify knong	
	Lily Kuang/Project Engineer	-
	Ridgy Liv	
	Ricky Liu/Reviewer	-



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Evaluation Summary 2

Radio Spectrum Technical Requirement					
Item	Standard	Method	Requirement	Result	
DE Evacouro	47 CFR Part 2.1093	47 CFR Part 2.1093	47 CFR Part 2.1093	Pass	
RF Exposure	47 OFF Fall 2.1093	47 GFN Fall 2.1093	47 CFR Part 1.1310	rass	

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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4 General Information

4.1 Details of E.U.T.

Power supply: DC 5 V powered by AC/DC adapter as below for charging:

model: ILM-0500100M

Input: 100~240V ~50/60Hz 0.2A

Output: 5V===1A

DC 3.7 V powered by built-in battery as below for normal working:

Model: LP521540

Rated: DC 3.7 V, 280mAh DC mains (unshielded, 0.8m)

Function: Medical device for the treatment of migraine with BLE function and RFID

For BLE

Cable(s):

Operation Frequency: 2402MHz to 2480MHz

Modulation Type: GFSK Number of Channels: 40 Channel Spacing: 2MHz

Antenna Type: Integral Antenna

Antenna Gain: 0 dBi declared by manufacture

Firmware Version: SV 01
Hardware Version: D
Testing Software: None

Sample NO.: GZ SP 20211057970

Power Setting: Default

For RFID

Operation Frequency: 13.56MHz Modulation Type: ASK

Antenna Type: Loop Antenna

4.2 Evaluating Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



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4.3 Facility

The facility is recognized, certified, or accredited by the following organizations:

NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

• FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

• ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.4 Deviation from Standards

None

4.5 Abnormalities from Standard Conditions

None



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Technical Requirements Specification 5

5.1 RF Exposure Evaluation

5.1.1 Limit & Test Method

CFR 47 Part 1.1310

Limit:

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in Part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)	
(A) Limits for Occupational/Controlled Exposure					
0.3-3.0	614	1.63	*100	6	
3.0-30	1842/f	4.89/f	*900/f ²	6	
30-300	61.4	0.163	1.0	6	
300-1,500			f/300	6	
1,500-100,000			5	6	
(B) Limits for General Population/Uncontrolled 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	
300-1,500			f/1500	30	
1,500-100,000			1.0	30	

f = frequency in MHz

According to KDB447498 D01 General RF Exposure Guidance DR04-44307, the limit for Radiofrequency radiation exposure evaluation: portable devices.

$$P_{\rm th} \ ({\rm mW}) = ERP_{\rm 20 \ cm} \ ({\rm mW}) = \begin{cases} 2040 f & 0.3 \ {\rm GHz} \le f < 1.5 \ {\rm GHz} \\ \\ 3060 & 1.5 \ {\rm GHz} \le f \le 6 \ {\rm GHz} \end{cases} \eqno(B.1)$$

$$P_{\rm th} \ ({\rm mW}) = \begin{cases} ERP_{\rm 20 \ cm} (d/20 \ {\rm cm})^x & d \le 20 \ {\rm cm} \\ \\ ERP_{\rm 20 \ cm} & 20 \ {\rm cm} < d \le 40 \ {\rm cm} \end{cases} \eqno(B.2)$$

$$x = -\log_{10}\left(\frac{60}{ERP_{20}\operatorname{cm}\sqrt{f}}\right)$$



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⁼ Plane-wave equivalent power density



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$$\sum_{i=1}^{a} \frac{P_i}{P_{\text{th},i}} + \sum_{i=1}^{b} \frac{ERP_j}{ERP_{\text{th},j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\ Limit_k} \le 1$$
 (C. 1)

Where:

f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

a = number of fixed, mobile, or portable RF sources claiming exemption using <u>paragraph (b)(3)(i)(B)</u> of this section for P_{th} , including existing exempt transmitters and those being added.

b = number of fixed, mobile, or portable RF sources claiming exemption using <u>paragraph (b)(3)(i)(C)</u> of this section for Threshold ERP, including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

 P_i = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

 $P_{th,i}$ = the exemption threshold power (P_{th}) according to <u>paragraph (b)(3)(i)(B)</u> of this section for fixed, mobile, or portable RF source *i*.

 ERP_j = the ERP of fixed, mobile, or portable RF source j.

 $ERP_{th,j}$ = exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least $\lambda/2\pi$ according to the applicable formula of <u>paragraph (b)(3)(i)(C)</u> of this section.

 $Evaluated_k$ = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure.

Exposure Limit_k = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from § 1.1310 of this chapter.

Evaluatedk = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure.

Exposure Limitk = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from

§ 1.1310 of this chapter.



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5.1.2 Conclusion

Normal use condition for Distance between antenna and body:	<5 mm declared by applicant
Antenna Gain(max):	0 dBi declared by applicant for 2.4G BLE antenna.

Test Mode	Frequency (MHz)	P/ E-field strength	Pi/ E _k -field strength	Pth*/ Power density _{th}
	2402	3.42dBm	2.20mW	2.77mW
2.4G BT	2440	3.15dBm	2.07mW	2.77mW
	2480	3.09dBm	2.04mW	2.67mW
RFID	13.56	26.79 dBuV/m@3m	7.87V/m @0.005m **	60.77 V/m***

^{*:} Pth=3060mW*(0.5/20)^(-log₁₀(60/3060*f^0.5))

According to the formula C.1, we can calculate MPE.

$$\sum_{i=1}^{a} \frac{P_{i}}{P_{\text{th},i}} + \sum_{j=1}^{b} \frac{ERP_{j}}{ERP_{\text{th},j}} + \sum_{k=1}^{c} \frac{Evaluated_{k}}{Exposure\ Limit_{k}} \le 1 \tag{C.1}$$

RFID and 2.4G BLE module can transmit simultaneously, so the maximum rate of MPE is Max (2.20 mW/2.77 mW, 2.07 mW/2.77 mW, 2.04 mW/2.67 mW) + 7.87 V/m /60.77 V/m = 0.79 + 0.13 = 0.92<1.0.

The EUT meet the Exemption Limits for Routine Evaluation - SAR Evaluation, so no SAR evaluation is required for the EUT.

Note:

Refer to report No. GZCR211002121702 for EUT test Max Conducted Peak Output Power value. Refer to report No. GZCR211002121703 for EUT test E-field strength.



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^{**:} E-field (dBuV/m @0.005m) = E-field (dBuV/m @3m) + 40log(3/0.005)=137.92 dBuV/m @0.005m E-field (V/m)= 10^{[E-field (dBuV/m)/20] ×10 -6=7.87V/m@0.005m}

^{***:} Ek-field strengthth=824/f=824/13.56=60.77 (V/m)



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EUT Constructional Details (EUT Photos) 6

Refer to External and Internal Photos for GZCR2110021217MD

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