

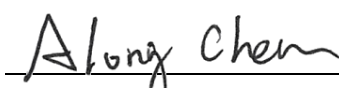
# FCC RF Exposure Exemption Report

**FCC ID** : 2AV24BGM039  
**Equipment** : BGM039 Link Blood Glucose Monitoring System  
**Model No.** : BGM039  
**Brand Name** : ApexBio  
**Applicant** : Apex Biotechnology Corp.  
**Address** : No. 7, Li-Hsin Rd. V, Hsinchu Science Park,  
Hsinchu, Taiwan, R.O.C.  
**Standard** : 47 CFR FCC Part 2.1093  
**Received Date** : Jan. 25, 2022  
**Tested Date** : Feb. 09, 2022

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

Approved by:



Along Chen / Assistant Manager



Gary Chang / Manager

## Table of Contents

<b>1</b>	<b>RF EXPOSURE TEST EXEMPTIONS.....</b>	<b>4</b>
1.1	1-mW TEST EXEMPTION .....	4
1.2	SAR-BASED EXEMPTION .....	4
1.3	MPE-BASED EXEMPTION .....	4
1.4	DEVIATION FROM TEST STANDARD AND MEASUREMENT PROCEDURE .....	5
1.6	EVALUATION RESULTS .....	5
<b>2</b>	<b>TEST LABORATORY INFORMATION .....</b>	<b>6</b>

---

## Release Record

Report No.	Version	Description	Issued Date
FA212402	Rev. 01	Initial issue	Mar. 15, 2022

# 1 RF Exposure Test Exemptions

## 1.1 1-mW TEST EXEMPTION

Available maximum time-averaged power is no more than 1 mW.

## 1.2 SAR-BASED EXEMPTION

This exemption is applicable to the frequency range between 300 MHz and 6 GHz, with test separation distances between 0.5 cm and 40 cm, and for all RF sources in fixed, mobile, and portable device exposure conditions.

The maximum time-averaged power or effective radiated power (ERP), whichever is greater,  $\leq P_{th}$

$$P_{th} \text{ (mW)} = ERP_{20cm}(d/20)^x \quad d \leq 20cm$$

$$P_{th} \text{ (mW)} = ERP_{20cm} \quad 20 \text{ cm} < d \leq 40cm$$

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

$$P_{th} \text{ (mW)} = ERP_{20cm} \text{ (mW)} = 2040f \quad 0.3GHz \leq f < 1.5 \text{ GHz}$$

$$P_{th} \text{ (mW)} = ERP_{20cm} \text{ (mW)} = 3060 \quad 1.5GHz \leq f < 6 \text{ GHz}$$

Power Thresholds (mW)

Frequency (MHz)	Distance (mm)									
	5	10	15	20	25	30	35	40	45	50
300	39	65	88	110	129	148	166	184	201	217
450	22	44	67	89	112	135	158	180	203	226
835	9	25	44	66	90	116	145	175	207	240
1900	3	12	26	44	66	92	122	157	195	236
2450	3	10	22	38	59	83	111	143	179	219
3600	2	8	18	32	49	71	96	125	158	195
5800	1	6	14	25	40	58	80	106	136	169

## 1.3 MPE-BASED EXEMPTION

For a much wider frequency range, from 300 kHz to 100 GHz, applicable for separation distances greater or equal to  $\lambda/2\pi$ , where  $\lambda$  is the free-space operating wavelength in meters.

Radio Source Frequency			Minimum Distance			Threshold ERP
$F_L$ MHz		$F_H$ MHz	$\lambda_L / 2\pi$		$\lambda_H / 2\pi$	W
0.3	-	1.34	159 m	-	35.6 m	1920 $R^2$
1.34	-	30	35.6 m	-	1.6 m	3450 $R^2/f^2$
30	-	300	1.6 m	-	159 mm	3.83 $R^2$
300	-	1500	159 mm	-	31.8 mm	0.0128 $R^2f$
1500	-	100000	31.8 mm	-	0.5 mm	19.2 $R^2$

## 1.4 DEVIATION FROM TEST STANDARD AND MEASUREMENT PROCEDURE

None

## 1.5 MEASUREMENT UNCERTAINTY

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ( $k=2$ )).

Parameters	Uncertainty
Conducted power	$\pm 0.808$ dB

### Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

### Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

## 1.6 EVALUATION RESULTS

Frequency Range (MHz)	Maximum Conducted Power (dBm)	Rated Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	SAR-Based Exemption Thresholds (dBm)	Pass/Fail
2402 ~ 2480	-2.79	-2.5	0	-2.5	-4.65	4.77	Pass

## 2 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

### **Linkou**

Tel: 886-2-2601-1640

No.30-2, Ding Fwu Tsuen, Lin Kou  
District, New Taipei City, Taiwan  
(R.O.C.)

### **Kwei Shan**

Tel: 886-3-271-8666

No.3-1, Lane 6, Wen San 3rd  
St., Kwei Shan Dist., Tao Yuan  
City 33381, Taiwan (R.O.C.)  
No.2-1, Lane 6, Wen San 3rd  
St., Kwei Shan Dist., Tao Yuan  
City 33381, Taiwan (R.O.C.)

### **Kwei Shan Site II**

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd  
St., Kwei Shan Dist., Tao Yuan  
City 333, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666

Fax: 886-3-318-0345

Email: ICC\_Service@icertifi.com.tw

==END==