



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

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600183103

Page: 1 of 7

RF EXPOSURE EVALUATION REPORT

Application No.: SZCR2306001831ME
Applicant: Shenzhen Cellbri Bio-Innovation Technology Co., Ltd
Address of Applicant: 3A-201,3A-301,3A-401,3A-501 and 3A-601, Building 3, Hengtaiyu Building, Tangwei Community, Fenghuang Street, Guangming District, Shenzhen, Guangdong, P.R. China
Manufacturer: Shenzhen Cellbri Bio-Innovation Technology Co., Ltd
Address of Manufacturer: 3A-201,3A-301,3A-401,3A-501 and 3A-601, Building 3, Hengtaiyu Building, Tangwei Community, Fenghuang Street, Guangming District, Shenzhen, Guangdong, P.R. China
Factory: Shenzhen Cellbri Bio-Innovation Technology Co., Ltd
Address of Factory: 3A-201,3A-301,3A-401,3A-501 and 3A-601, Building 3, Hengtaiyu Building, Tangwei Community, Fenghuang Street, Guangming District, Shenzhen, Guangdong, P.R. China
Equipment Under Test (EUT):
EUT Name: Gentle Flex Pro High Throughput Cell Processing System
Model No.: Gentle Flex Pro, Gentle Flex Cell Processing System ♣
♣ Please refer to section 3.1 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: 
FCC ID: 2BC4L-PRO
Standard(s) : 47 CFR Part 1.1307,
47 CFR Part 1.1310,
47 CFR Part 2.1091
Date of Receipt: 2023-06-13
Date of Test: 2023-06-20 to 2023-08-08
Date of Issue: 2023-08-18

Evaluation Result:

Pass*

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

Keny Xu

Keny Xu
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch EMC Laboratory

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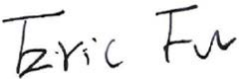
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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-08-18		Original

Authorized for issue by:				
				
		Edison Li/Project Engineer		
				
		Eric Fu/Reviewer		



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3 General Information

3.1 General Description of E.U.T.

Power supply:	AC 100-240V, 50/60Hz
Cable(s):	AC cable:140cm unshielded
Operation Frequency:	13.56MHz
Modulation Type:	ASK
Number of Channels:	1
Antenna Type:	Loop Antenna

Remark:

Model No.: Gentle Flex Pro, Gentle Flex Cell Processing System

Only the model Gentle Flex Pro was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only difference on model No. and Exterior Dimensions.

3.2 Test Location

All tests were performed at:

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

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

All tests were performed at:

3.3 Test Facility

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

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

3.4 Deviation from Standards

None

3.5 Abnormalities from Standard Conditions

None

4 RF Exposure Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

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/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
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
300–1500			f/300	6
1500–100,000			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
300–1500			f/1500	30
1500–100,000			1.0	30

F= Frequency in MHz

Friis Formula

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

P_d is the limit of MPE=824/f V/m . If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

4.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

4.2 EUT RF Exposure Evaluation

Mode	E-field strength(dBuV/m)	E-field strength(V/m)	E-field strength Limit(V/m)	Verdict
NFC	75.08	0.00568	60.77	Pass

Note: For maximum electric field strength, please refer to report No. SZCR230600183102.

The distancer (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement;

$$V/m = 10^{\frac{((dBuV/m) - 120)}{20}}$$

--End of the Report--



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