1. RF Exposure Test Report

1.1 General Information

Client Information

Applicant:	Eggtroni Engineering Srl
Address of applicant:	Via Giorgio Campagna 8 41126, Modena, Italy
Manufacturer:	Cyzon PCB Solutions
Address of manufacturer:	Xinhu Road, Xinan Street, BaoAn District, Shenzhen, China

Description of EUT

Product Name:	EGGTX010
Trade Name:	Eggtronic
Model No.:	S02G01B03
FCC ID:	2ANP7EGGTX010
Rated Voltage:	Input: DC 5V 2A
Frequency Range:	112-205kHz
Modulation Type:	ASK
Antenna Type:	Coil Antenna
Rated Voltage:	DC 5V (Wireless output)
Rated Current:	≤ 1A (Wireless output)
Rated Power:	≤ 5W (Wireless output)

1.2 Standard Applicable

According to § 1.1310 system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

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 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 * = Plane-wave equivalent power density

1.3 Test Conditions

Test Mode	Description	Remark
TM1	Full Charge	With receiving module
Measurement Distance:	10 cm	
Test Standard:	KDB 680106 D01 V02	

1.4 Test Result

The following test data shall to demonstrate RF exposure compliance.

Test Mode: TM1 (with receiving module)

Electric Field Emissions			
Test Position	**Measure Value (V/m)**	**Limit(V/m)**	**30% Limit (V/m)**
Top	2.73	614	184.2
Bottom	2.22	614	184.2
Side 1	1.96	614	184.2
Side 2	1.89	614	184.2
Side 3	1.88	614	184.2
Side 4	1.93	614	184.2
Magnetic Field Emissions			
Test Position	**Measure Value (A/m)**	**Limit(A/m)**	**30% Limit (A/m)**
Top	0.0085	1.63	0.489
Bottom	0.0077	1.63	0.489
Side 1	0.0069	1.63	0.489
Side 2	0.0066	1.63	0.489
Side 3	0.0069	1.63	0.489
Side 4	0.0058	1.63	0.489

1.5 Test Photos