



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

EMC-TRF-03 Rev 1.1

Report No.: GZEM190901605928

Page: 1 of 12

FCC ID: 2AVEEGHA01

RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2406000758LM
Applicant: Gardyn Inc
Address of Applicant: 8120 Woodmont Avenue, Suite #640, Bethesda, Maryland, USA
Manufacturer: Gardyn inc
Address of Manufacturer: 8120 Woodmont Avenue, Suite #640, Bethesda, MD 20814, U.S.A.
Factory: Dongguan Heandong Plastic Limited (Onf)
Address of Factory: Building E, Xingfeng Rd, Fendhuangwei, Tangli village, Fenggang Town, Dongguan, Guangdong, China
Product Name: Gardyn Home, Gardyn Studio
Model No.: Gardyn Home: GH-A01, GH A01,
Gardyn Studio: GS A01 ♣
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: Gardyn
Standard(s) : 47 CFR Part 1.1310
KDB447498D01 General RF Exposure Guidance v06
Date of Receipt: 2024-04-25
Date of Test: 2024-05-08
Date of Issue: 2024-08-27

Test Result:

Pass*

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

Ricky Liu

Ricky Liu
Manager



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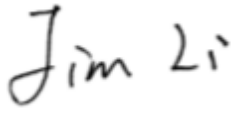
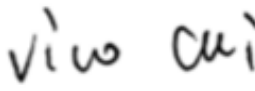
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EMC-TRF-03 Rev 1.1

Report No.: GZEM190901605928

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Revision Record			
Version	Report No.	Date	Remark
01	GZEM190901605904	2019-12-13	Original
02	GZEM190901605908	2020-11-26	Copy report: Supplemented the Molex connector (part Number: 43501W9-NP-B3) and photo of it
03	GZEM190901605912	2021-03-31	Copy report: Changed manufacturer information, factory information, EUT Name, Added trade mark, Alternative pumps.
04	GZEM190901605916	2021-09-06	Copy report: Add alternative components IC+ MOSFET+ power switch+ Temperature and humidity sensor and update Address of Applicant & label
05	GZEM190901605919	2022-10-31	Copy report: Changed product name, added one new model, updated spelling of factory and components
06	GZEM190901605925	2024-05-24	Amendment report: Changed manufacturer's information; added new components.
07	GZEM190901605928	2024-08-27	Amendment report: Changed manufacture's information; Added product name and new model.

Authorized for issue by:			
			
		Jim Li/Project Engineer	
			
		Vico Cui/Reviewer	



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
RF Exposure	47 CFR Part 1.1307, Part 1.1310	CFR 47 Part 1.1310	CFR 47 Part 1.1310	Pass

Remark for the report GZEM190901605908:

This report **GZEM190901605908** was an additional report copied from the **GZEM190901605904** original report, in which the Molex connector (part Number: 43501W9-NP-B3) and photo of it were supplemented which did not affect the RF characterise.

Therefore original data was kept in this report GZEM190901605908.

Remark for the report GZEM190901605912:

This report GZEM190901605912 was a supplement report based on original report GZEM190901605908, only Changed manufacturer information, factory information, EUT Name, Added trade mark, Alternative pumps.

1. Changed manufacturer information, factory information, EUT Name, Added trade mark
2. Alternative pumps.

Considering the changes, And evaluation base on the technical information of the same RF module and interior circuit. So, no further testing in this report.

According to FCC Part 2 section 2.1043(b)(1), it is ok to update test report by adding new pumps without filing with the Commission.

FCC Part 2 section 2.1043(b)(1):

A Class I permissive change includes those modifications in the equipment which do not degrade the characteristics reported by the manufacturer and accepted by the Commission when certification is granted. No filing with the Commission is required for a Class I permissive change.

Therefore original data was kept in this report GZEM190901605912.



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Remark for this report GZEM190901605916:

This report GZEM190901605916 was a supplement report based on original report GZEM190901605912, only added alternative components IC(U3)+ 3 types MOSFET+ power switch+ Temperature as below and humidity sensor and update Address of Applicant & label.

Sample	U3	MOSFET	Temperature & humidity sensor	power switch
M5	LM60430DRPKR (1Mhz)	TSM038N03PQ33	DHT20	HS9
M3	LM60430DRPKR (1Mhz)	RQ3E150GNTB	DHT20	HS9
M4	LM60430ARPKR (400Khz)	RQ3E180BNTB	DHT20	HS9

Evaluation base on the technical information of the same RF module and interior circuit, there is no need further testing in this report.

Therefore original data was kept in this report GZEM190901605916.

Remark for this report GZEM190901605919:

This report GZEM190901605919 was based on original report GZEM190901605916, only changed product name, added one new model GH A01, updated spelling of Factory and components as below:

1. New part for PoGo connector & cable (light assembly / lid assembly connection);
2. USB hub for FE8.1;
3. Hoses material: Silicone;
4. WOOD-BOARD / Wood cap of material: Rubberwood.
5. AC/DC adapter.

According to the declaration from the applicant, the new model **GH A01** added in this report and model **GH-A01** in original report are identical in the electrical circuit design, layout, components used and internal wiring, only their Model No. and outer decoration are different.

Evaluation base on the technical information of the same RF module and interior circuit, there is no need further testing in this report.

Therefore original data was kept in this report GZEM190901605919.



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Remark for the report GZEM190901605925:

This report GZEM190901605925 based on the GZEM190901605919 previous report, just with the following changes:

1. Changed manufacturer's information
2. Added new components as below:
 - 1) New LED Bar: 32 LEDs-LED chip RA80;
 - 2) Alternative cable (more flexible): 24 V Power female connector control PCB input wire (AP05374)
 - 3) Input connectors: 24 V, 7.5 A new supplier;
 - 4) Power supply refer to section 4.1 for details;
 - 5) Added module seal: seals between modules (silicone);
 - 6) Added module lid seal: Seals between lid & modules (PU);
 - 7) Change the pump connector to a bulkhead waterproof pump connector;
 - 8) New metal plate holder – windows flipped;
 - 9) Changed to 2 types of the ferrites in the pump cables.

Evaluation base on the technical information of the same RF module and interior circuit, there is no need further evaluation in this report.

Therefore original data in report GZEM190901605919 was kept in this report **GZEM190901605925**.



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Remark for the report GZEM190901605928:

This report GZEM190901605928 is based on original report GZEM190901605925, with the following changes:

1. Changed manufacture's information.
2. Added product name and new model GS A01 with 2 options of pumps as below:

Component name	Manufacturer/ trademark	Type/model	Technical data
Pump	Zhongshan Jiayu Electrical Appliance Co., Ltd	B0001-01-03	12Vdc, 780 mA.
Alternate	Shenzhen NTC co. Ltd	TD40A-1248A	12Vdc, 950mA Hmax: 430cm, Qmax: 600L/h

According to the declaration from the applicant, model GS A01 added in this report GZEM190901605928 and models in original report GZEM190901605925 were different only using the same RF module.

Considering to the same RF module (including antenna) above, there is no need to further evaluation for the model GS A01 and all the evaluation data was kept in this report GZEM190901605928.



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 24 V powered by AC/DC adapter as below: Model: FY1802404000 Input: AC 100-240 V, 50/60 Hz, 1.5 A, 130VA Output: DC 24 V, 4.0A, 96.0 W
Cable(s):	DC input ports for main unit For AC/DC adapter: AC mains (unshielded, 0.8 m) DC output cables (unshielded, 1.5m)
Test Voltage:	AC 120 V, 60 Hz
For BT	
Antenna Gain	0 dBi according to antenna specification
Antenna Type	PCB Antenna
Channel Spacing	2MHz
Modulation Type	GFSK
Number of Channels	40
Operation Frequency	2402MHz to 2480MHz
For Wi-Fi	
Antenna Gain	0 dBi according to antenna specification
Antenna Type	PCB Antenna
Channel Spacing	5MHz
Modulation Type	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels	802.11b/g/n(HT20):11
Operation Frequency	802.11b/g/n(HT20): 2412MHz to 2462MHz

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4.2 Evaluating Location

All tests were performed at:

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Tel: +86 20 82155555

4.3 Test Facility

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

● ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

● 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.

● 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, Jul 13, 2017.

● Industry Canada (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-10449 and T-11179)

The 10m Semi-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-10449 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 17025:2005, 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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5 Radio Spectrum Technical Requirement

5.1 RF Exposure

5.1.1 Test Requirement:

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/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

According to IEEE C95.3:2002 section 5.5.1.1, The power density S at a point on the axis at a distance d from a transmitting antenna is given by the Friis free-space transmission formula

$$S = \frac{PG}{4\pi d^2}$$

S = power density (mW/cm²)
P = the net power delivered to the antenna (mW)
G = gain of the antenna in linear scale
d = distance between observation point and center of the radiator (cm)



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5.1.2 Conclusion

Normal use condition
for Distance between > 20cm declared by applicant
antenna and body:

Antenna Gain: 0 dBi

For Bluetooth

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2402	1.000	6.518	4.485	0.00089	1	Complies
2442	1.000	7.783	6.002	0.00119	1	Complies
2480	1.000	7.77	5.984	0.00119	1	Complies

For 2.4 GHz Wi-Fi

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
11B						
2412	1.000	23.64	231.206	0.04600	1	Complies
2442	1.000	24.02	252.348	0.05020	1	Complies
2462	1.000	24.18	261.818	0.05209	1	Complies
11G						
2412	1.000	24.15	260.016	0.05173	1	Complies
2442	1.000	24.29	268.534	0.05342	1	Complies
2462	1.000	24.48	280.543	0.05581	1	Complies
11N						
2412	1.000	22.85	192.752	0.03835	1	Complies
2442	1.000	23.31	214.289	0.04263	1	Complies
2462	1.000	23.3	213.796	0.04253	1	Complies

The Bluetooth and Wi-Fi can be transmitted together, the result is

$$0.00119/1 + 0.05581/1 = 0.057 < 1.0$$

So SAR report is not required.

Note: Refer to report No. GZEM190901605903 & 04 for EUT test Max Conducted Peak Output Power value.



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6 Photographs

6.1 EUT Constructional Details

Refer to Appendix - External and Internal Photos for GZCR2406000758LM

--End of Report--



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