

Report No.: GZEM190401211611 1 of 11 Page: FCC ID: 2AS7YCCP105

# TEST REPORT

Application No.:	GZEM1912017794CR			
Applicant:	Leisure-Tec International Limited			
Address of Applicant:	Unit A, 8/F, Eton Building, 288 Des Voeux Road Centrol, Hong Kong			
Manufacturer:	Foshan Sanshui Colku Electrical Appliance Limited			
Address of Manufacturer:	No.84 Area B, Sanshui Central Technology Industry Park, Leping, Sanshui Dist., Foshan City, Guangdong, China			
Factory:	Foshan Sanshui Colku Electrical Appliance Limited			
Address of Factory:	No.84 Area B, Sanshui Central Technology Industry Park, Leping, Sanshui Dist., Foshan City, Guangdong, China			
Equipment Under Test (EUT	):			
FCC ID: 2AS7YCCP105				
EUT Name:	Refrigerator			
Model No.:	CCP30, CCP36, CCP44, CCP60, CCP73, CCP105, CCP96DZ, CCP69DZ, CCP85DZ, 10802010, 10802020, 10802030, 10802040, 10802050, 10802060, 10802070, 10802080. ¤			
¤	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.			
Trade Mark:	Mycoolman			
Standard(s) :	47 CFR Part 1.1307, Part 2.1093, KDB 447498			
Date of Receipt:	2019-04-18			
Date of Test:	2019-06-25 to 2019-08-28			
Date of Issue:	2019-09-16 (for original report GZEM190401211603)			
	2020-01-08 (for copy report GZEM190401211609)			
	2020-10-30 (for copy report GZEM190401211611)			
Test Result:	Pass*			

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

oke. Jun

Kobe Jian EMC Laboratory Manager



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Revision Record						
Version Chapter Date Modifier Remark						
01		2019-09-16		Original		
02		2020-01-08		Copy report: added new models.		
03		2020-10-30	Copy report: added an alternative compressor and added a new model.			

Authorized for issue by:		
Tested By	Kevin zhang	2019-09-03 to 2019-09 04
	Kevin_Zhang /Project Engineer	Date
Checked By	Ridey Lin	2020-10-30
	Ricky_Liu /Reviewer	Date



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## 2 Test Summary

#### Radio Spectrum Technical Requirement

Item	Standard	Method	Requirement	Result
RF Exposure	47 CFR Part 1.1307, Part 2.1093, KDB 447498	CFR 47 Part 2.1093	CFR 47 Part 2.1093	Pass

#### **¤** Declaration of EUT Family Grouping:

#### Remark for original report GZEM190401211603

**Model No.:** CCP30, CCP36, CCP44, CCP60, CCP73, CCP105, CCP96DZ, CCP69DZ, CCP85DZ According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on the cubage and model No.. Therefore only one model **CCP96DZ** was tested in original report.

#### Remark for updated report GZEM190401211609 This report GZEM190401211609 was a supplement report based on original report GZEM190401211603, only added new models.

According to the declaration of the applicant, the models 10802010, 10802020, 10802030, 10802040, 10802050, 10802060, 10802070 added in this report and models in the original report were identical, with only difference being the model name.

Therefore original data was kept in this report GZEM190401211609.

#### **¤** Remark for the report GZEM190401211611:

# This report GZEM190401211610 was a supplement report based on original report GZEM190401211608, for the changes as below.

# 1. Add an alternative compressor as below only for certified models CCP30, CCP36(10802010), CCP44(10802020).

Compressor Name	MD20H	Power Supply(V DC)	12/24
Operating Current(A)	Max=3.5	Input Power(W)	Max=42

#### 2. Add a new model.

According to the declaration of the applicant, the new model 10802080, which is revised from original model CCP85DZ, added in this report, with only difference being the model name.

Considered the alternative compressor and new model did not affect the RF characterize, therefore no need further testing for this change and the original test data kept in this report.



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### 4 General Information

#### 4.1 Details of E.U.T.

Power Supply:	AC 100V-240V 50/60Hz
Cable:	DC 12/24V AC input cable (unshielded, 1.5m) DC input cable (unshielded, 1.8m) USB output port (5V, 3A) AC input inlet DC input inlet 1
	DC input inlet 2
Antenna Gain	0dBi declared by applicant
Antenna Type	Integrated Antenna
Channel Spacing	2MHz
Modulation Type	GFSK
Number of Channels	40
Operation Frequency	2402MHz to 2480MHz
Hardware:	SM01A V2.0
Software:	SV01
S/N:	A1
Test Software	BLE-CC254x-1.4.0.exe
Power Setting	3 dBm can not be changed by user
Function:	Refrigerator use in vehicle with BLE function

#### 4.2 Description of Support Units

The EUT has been tested as an independent unit.



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No.	Item	Measurement Uncertainty
1	Radio Frequency	±5.5 x 10 <sup>-8</sup>
2	Duty cycle	±0.57%
3	Occupied Bandwidth	±3%
4	RF Conducted power	±0.68dB
5	RF Power Density	±1.50dB
6	Conducted Spurious Emissions	±1.04dB
7	RF Radiated Power	±4.5dB (below 1GHz)
1	hr haulaleu fowel	±4.8dB (above 1GHz)
8	Radiated Spurious Emission Test	±4.5dB (30MHz-1GHz)
0	Radiated Spurious Emission Test	±4.8dB (1GHz-18GHz)
9	Temperature	±0.4 <i>°</i> C
10	Humidity	±1.3%
11	Supply Voltages	±1.5%
12	Time	±3%

#### 4.3 Measurement Uncertainty

#### 4.4 Test 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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#### 4.5 Test Facility

The test 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 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.

#### • 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 2.948 Listed Test Firm(Registration No.: 282399)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

#### 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.



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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions None



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### 5 Equipment List

Conducted Peak Output Power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	0.8M	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	0.8M	EMC2137	2017-11-02	2019-11-01



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### 6 Radio Spectrum Technical Requirement

#### 6.1 RF Exposure

- 6.1.1 Test Requirement:
  - CFR 47 Part 2.1093 Limit:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq$  50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)]  $\cdot$  [ $\sqrt{f}(GHz)$ ]  $\leq$  3.0 for 1-g SAR and  $\leq$  7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq$  50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

#### 6.1.2 Caclulation

The Max conducted output power is 2.723 dBm in Highest channel (2.480 GHz); 2.723 dBm logarithmic terms convert to numeric result is nearly 1.87 mW According to the formula. calculate the test result:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot$  [ $\sqrt{f}(GHz)$ ]

General RF Exposure = (1.87 mW / 5 mm ) x  $\sqrt{2.480}$  GHz = 0.59 (1)

SAR requirement:

So the SAR report is not required.

S= 3.0 ① < ②. ②;

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## 7 Photographs

#### 7.1 EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for GZEM2010015712CR.

--End of Report--



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