FCC 47 CFR PART 15 SUBPART C 15.247

TEST REPORT

FOR

ROBOT VACUUM CLEANER

Model :S3

Issued to

Shenzhen Lynkbey Intelligent Technology Co.,LTD
710 Fangda Building, No.011, No.12 South Road, Yuehai Street, Nanshan District, Shenzhen City
Issued by
WH Technology Corp.

Open Site		**No.120, Ln. 5, Hudong St., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)**
EMC Test Site	**Xizhi Office and Lab**	**7F., No.262, Sec. 3, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)**
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1. GENERAL INFORMATION

Applicant/ Manufacturer	:	**Shenzhen Lynkbey Intelligent Technology Co.,LTD**
Address	:	**710 Fangda Building, No.011, No.12 South Road, Yuehai Street, Nanshan District, Shenzhen City**
Factory	:	**Zhuhai Kaihao Electronics Co.,Ltd**
Address	:	**2nd Floor, Building C, No.3 Pinggongyi Road, Zhuhai, Guangdong, China.**
EUT	:	**Robot Vacuum Cleaner**
Model Name	:	**S3**
Trade Name	:	**N/A**
Model Differences	:	

Is here with confirmed to comply with the requirements set out in the FCC Rules and Regulations Part 15 Subpart C and the measurement procedures were according to ANSI C63.10-2013. The said equipment in the configuration described in this report shows the maximum emission levels emanating

FCC part 15 Subpart C

Receipt Date : 04/28/2020 Final Test Date :22/05/2020

Tested By: **Reviewed by:**

May 05, 2020
(Date)

Bing Chang/ Engineer

July 1, 2020
(Date)

Bell Wei / Manager
Designation Number: TW2954

EUT Specification

EUT:	**Robot Vacuum Cleaner**
M/N:	S3
Frequency band: (Operating)	☒WLAN:2.142G~2.462GHz ☐WLAN:5.18G~5.32GHz/5.50GHz~5.70GHz ☐WLAN:5.745G~5.825GHz ☐Others(Bluetooth:2.402GHz~2.480GHz)
Device category:	☐Portable (<20cm separation) ☒Mobile (>20cm separation) ☐Others ___
Antenna diversity:	☒Single antenna ☐Multiple antennas ☐Tx diversity ☐Rx diversity ☐Tx/Rx diversity
Max. Output Power:	19.87dBm
Antenna Type:	PCB Antenna
Antenna gain:	0dBi
Evaluation applied:	☒MPE Evaluation ☐SAR Evaluation

Limits for Maximum Permissible Exposure (MPE)

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density(mW/cm2)	Average Time
(A) Limits for Occupational/Control Exposures				
300-1500	--	--	F/300	6
1500-1	--	--	5	6
(B) Limits for General Population/Uncontrol Exposures				
300-1500	--	--	F/1500	6
1500-100000	--	--	1	30

Friis transmission formula: Pd=(Pout*G)\(4*pi*R^2)

Where
Pd= Power density in mW/cm_2
Pout=output power to antenna in mW
G= gain of antenna in linear scale
Pi=3.1416
R= distance between observation point and center of the radiator in cm
Pd the limit of MPE, 1mW/cm2. If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is Reached.

Measurement Result

Channel	Channel Frequency (MHz)	Max Output power (dBm)	Antenna gain	Max Tune-UP power (mW)	Power density at 20cm (mW/cm^2)	Power density Limits (mW/cm2)
Test Mode: 802.11g						
Middle	2437	19.87	0dBi	97.05	0.0193	1

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