

TEST REPORT

Applicant: SVEA(HK)LIMITED
Address: FLAT/RM520, 5/F, CORE BUILDING 1, PH 1, 1
SCIENCE PARK EAST AVE, SHA TIN, NT, HK
Equipment Type: Robotic Manure Pusher
Model Name: Glide Flo
Brand Name: Sveaverken
FCC ID: 2BPE2-GLIDEFLO
Test Standard: 47 CFR Part 2.1091
KDB 447498 D04 v01
Sample Arrival Date: Feb. 09, 2026
Test Date: Apr. 23, 2026
Date of Issue: Aug. 13, 2026

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Xiong Lining**Checked by:** Xu Rui**Approved by:** Liao Jianming
(Technical Director)

Revision History

<u>Version</u>	<u>Issue Date</u>	<u>Revisions Content</u>
<u>Rev. 01</u>	<u>Aug. 13, 2026</u>	<u>Initial Issue</u>

TABLE OF CONTENTS

1	GENERAL INFORMATION.....	3
1.1	Test Laboratory	3
1.2	Test Location	3
2	PRODUCT INFORMATION	4
2.1	Applicant Information	4
2.2	Manufacturer Information.....	4
2.3	General Description for Equipment under Test (EUT).....	4
2.4	Technical Information	5
3	SUMMARY OF TEST RESULT	6
3.1	Test Standards	6
3.2	Limit Standards.....	6
4	DEVICE CATEGORY AND LEVELS LIMITS	7
5	ASSESSMENT RESULT	9
5.1	Output Power	9
5.2	Tune-up power	10
5.3	RF Exposure Evaluation Result	11
5.4	Collocated Power Calculation	12
5.5	Conclusion.....	12

1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	601, Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☐ Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen, Guangdong
	☒ 1/F., Building B, Ganghongji High-Tech Intelligent Industrial Park, No.1008, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	SVEA(HK)LIMITED
Address	FLAT/RM520, 5/F, CORE BUILDING 1, PH 1, 1 SCIENCE PARK EAST AVE, SHA TIN, NT, HK

2.2 Manufacturer Information

Manufacturer	SVEA(HK)LIMITED
Address	FLAT/RM520, 5/F, CORE BUILDING 1, PH 1, 1 SCIENCE PARK EAST AVE, SHA TIN, NT, HK

2.3 General Description for Equipment under Test (EUT)

EUT Name	Robotic Manure Pusher
Model Name Under Test	Glide Flo
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	V1.0
Software Version	V1.0
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n, 802.11ac and 802.11ax
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The requirement for the following technical information of the EUT was tested in this report:

Module 6111E

Operating Mode	WIFI	
Frequency Range	802.11b/g	2412 ~ 2462 MHz
	802.11n(HT20/HT40)	2412 ~ 2462 MHz
Antenna Type	WIFI	Glue Stick Antenna
Exposure Category	General Population/Uncontrolled Exposure	
Product Type	Mobile Device	

Module AP6275S

Operating Mode	WIFI, Bluetooth	
Frequency Range	802.11b/g	2412 ~ 2462 MHz
	802.11n(HT20)	2412 ~ 2462 MHz
	802.11ax(HE20)	2412 ~ 2462 MHz
	802.11a	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
	802.11n(HT20/HT40)	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
	802.11ac (VHT20/VHT40/VHT80)	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
	802.11ax (HE20/HE40/HE80)	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
	Bluetooth	2402 ~ 2480 MHz
Antenna Type	WIFI	Glue Stick Antenna
	Bluetooth	Glue Stick Antenna
Exposure Category	General Population/Uncontrolled Exposure	
Product Type	Mobile Device	

3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	KDB 447498 D04 v01	447498 D04 Interim General RF Exposure Guidance v01

3.2 Limit Standards

No.	Identity	Document Title
1	47 CFR Part 2.1091	Radiofrequency radiation exposure evaluation: mobile devices

Note: The device is available with two push plate configurations, long and short. The only difference between them is appearance, and testing was conducted on the short push plate.

4 DEVICE CATEGORY AND LEVELS LIMITS

Mobile Devices:

CFR Title 47 §2.1091(b)

For purposes of this section, a mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons.

FCC KDB 447498 D04 General RF Exposure Guidance v01 Limit

Evaluation of compliance with the exposure limits in § 1.1310 is necessary if the ERP of the device is greater than ERP_{20cm} in Formula (B.1) [repeated from § 2.1091(c)(1) and § 1.1307(b)(1)(i)(B)].

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i. e., without consideration of ERP only if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole.

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula (B.2).

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B. 2})$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).
The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)										
		5	10	15	20	25	30	35	40	45	50
300		39	65	88	110	129	148	166	184	201	217
450		22	44	67	89	112	135	158	180	203	226
835		9	25	44	66	90	116	145	175	207	240
1900		3	12	26	44	66	92	122	157	195	236
2450		3	10	22	38	59	83	111	143	179	219
3600		2	8	18	32	49	71	96	125	158	195
5800		1	6	14	25	40	58	80	106	136	169

5 ASSESSMENT RESULT

5.1 Output Power

Module 6111E

Mode	2.4G WIFI
Conducted Power (dBm)	17.05
Antenna Gain (dBi)	2.75
EIRP (dBm)	19.80
Note: This report listed the worst case conducted power value, please refer to Ti-EE26030043-601 report for more details.	

Module AP6275S

Mode	Bluetooth	2.4G WIFI- Main Antenna	2.4G WIFI- Aux. Antenna	2.4G WIFI- MIMO	/	/
Conducted Power (dBm)	6.04	14.18	14.09	17.12	/	/
Antenna Gain (dBi)	2.75	2.75	2.75	5.76	/	/
EIRP (dBm)	8.79	16.93	16.84	22.88	/	/
Mode	5.2G WIFI- Main Antenna	5.2G WIFI- Aux. Antenna	5.2G WIFI- MIMO	5.3G WIFI- Main Antenna	5.3G WIFI- Aux. Antenna	5.3G WIFI- MIMO
Conducted Power (dBm)	15.52	15.61	18.58	15.44	15.15	18.31
Antenna Gain (dBi)	2.64	2.64	5.65	3.05	3.05	6.06
EIRP (dBm)	18.16	18.25	24.23	18.49	18.20	24.37
Mode	5.6G WIFI- Main Antenna	5.6G WIFI- Aux. Antenna	5.6G WIFI- MIMO	5.8G WIFI- Main Antenna	5.8G WIFI- Aux. Antenna	5.8G WIFI- MIMO
Conducted Power (dBm)	15.34	15.31	18.31	15.46	14.91	18.10
Antenna Gain (dBi)	3.44	3.44	6.45	3.20	3.20	6.21
EIRP (dBm)	18.78	18.75	24.76	18.66	18.11	24.31
Note: This report listed the worst case conducted power value, please refer to Ti-EE26030043-602, Ti-EE26030043-603, Ti-EE26030043-604, Ti-EE26030043-605 report for more details.						

5.2 Tune-up power

Module 6111E

Mode	Conducted Power Range (dBm)	EIRP Range (dBm)	ERP Range (dBm)
2.4G WIFI	[15.50, 17.50]	[18.25, 20.25]	[16.10, 18.10]

Note1: ERP= EIRP -2.15dB.
 Note2: According KDB 447498 D04, used the greater of maximum conducted power and ERP to compare with the threshold value Pth.

Module AP6275S

Mode	Conducted Power Range (dBm)	EIRP Range (dBm)	ERP Range (dBm)
Bluetooth	[4.50, 6.50]	[7.25, 9.25]	[5.10, 7.10]
2.4G WIFI-Main Antenna	[12.50, 14.50]	[15.25, 17.25]	[13.10, 15.10]
2.4G WIFI-Aux. Antenna	[12.50, 14.50]	[15.25, 17.25]	[13.10, 15.10]
2.4G WIFI-MIMO	[15.50, 17.50]	[21.26, 23.26]	[19.11, 21.11]
5.2G WIFI-Main Antenna	[14.00, 16.00]	[16.64, 18.64]	[14.49, 16.49]
5.2G WIFI-Aux. Antenna	[14.00, 16.00]	[16.64, 18.64]	[14.49, 16.49]
5.2G WIFI-MIMO	[17.00, 19.00]	[22.65, 24.65]	[20.50, 22.50]
5.3G WIFI-Main Antenna	[13.50, 15.50]	[16.55, 18.55]	[14.40, 16.40]
5.3G WIFI-Aux. Antenna	[13.50, 15.50]	[16.55, 18.55]	[14.40, 16.40]
5.3G WIFI-MIMO	[16.50, 18.50]	[22.56, 24.56]	[20.41, 22.41]
5.6G WIFI-Main Antenna	[13.50, 15.50]	[16.94, 18.94]	[14.79, 16.79]
5.6G WIFI-Aux. Antenna	[13.50, 15.50]	[16.94, 18.94]	[14.79, 16.79]
5.6G WIFI-MIMO	[16.50, 18.50]	[22.95, 24.95]	[20.80, 22.80]
5.8G WIFI-Main Antenna	[13.50, 15.50]	[16.70, 18.70]	[14.55, 16.55]
5.8G WIFI-Aux. Antenna	[13.00, 15.00]	[16.20, 18.20]	[14.05, 16.05]
5.8G WIFI-MIMO	[16.50, 18.50]	[22.71, 24.71]	[20.56, 22.56]

Note1: ERP= EIRP -2.15dB.
 Note2: According KDB 447498 D04, used the greater of maximum conducted power and ERP to compare with the threshold value Pth.

5.3 RF Exposure Evaluation Result

Module 6111E

Evolution Mode	Maximum Power (dBm)	Maximum Power (mw)	Distance (mm)	Threshold Power (mW)	Power / Limit	Verdict
2.4G WIFI	18.10	64.57	200	3060.00	0.021	Pass

Module AP6275S

Evolution Mode	Maximum Power (dBm)	Maximum Power (mw)	Distance (mm)	Threshold Power (mW)	Power / Limit	Verdict
Bluetooth	7.10	5.13	200	3060.00	0.002	Pass
2.4G WIFI-Main Antenna	15.10	32.36	200	3060.00	0.011	Pass
2.4G WIFI-Aux. Antenna	15.10	32.36	200	3060.00	0.011	Pass
2.4G WIFI-MIMO	21.11	129.12	200	3060.00	0.042	Pass
5.2G WIFI-Main Antenna	16.49	44.57	200	3060.00	0.015	Pass
5.2G WIFI-Aux. Antenna	16.49	44.57	200	3060.00	0.015	Pass
5.2G WIFI-MIMO	22.50	177.83	200	3060.00	0.058	Pass
5.3G WIFI-Main Antenna	16.40	43.65	200	3060.00	0.014	Pass
5.3G WIFI-Aux. Antenna	16.40	43.65	200	3060.00	0.014	Pass
5.3G WIFI-MIMO	22.41	174.18	200	3060.00	0.057	Pass
5.6G WIFI-Main Antenna	16.79	47.75	200	3060.00	0.016	Pass
5.6G WIFI-Aux. Antenna	16.79	47.75	200	3060.00	0.016	Pass
5.6G WIFI-MIMO	22.80	190.55	200	3060.00	0.062	Pass
5.8G WIFI-Main Antenna	16.55	45.19	200	3060.00	0.015	Pass
5.8G WIFI-Aux. Antenna	16.05	40.27	200	3060.00	0.013	Pass
5.8G WIFI-MIMO	22.56	180.30	200	3060.00	0.059	Pass

5.4 Collocated Power Calculation

Evolution Mode	Power / Limit	$\Sigma(\text{Power} / \text{Limit})$ of 2.4G WIFI_6111E + 2.4G WIFI_AP6275S + 5G WIFI_AP6275S	Verdict
2.4G WIFI_6111E	0.021	0.125	Pass
2.4G WIFI_AP6275S	0.042		
5G WIFI_AP6275S	0.062		

Note:

1. $\Sigma(\text{Power} / \text{Limit})$: This is a summation of [(power for each transmitter/ antenna included in the simultaneous transmission)/ (corresponding Power limit)], for 2.4G WIFI_6111E + 2.4G WIFI_AP6275S + 5G WIFI_AP6275S.
2. Both of the 2.4GHz/5GHz can transmit simultaneously, the formula of calculated the Power is $CP1 / LP1 + CP2 / LP2 + \dots \text{etc.} < 1$
 CP = Calculation power
 LP = Limit of power
3. Both of the Bluetooth and 2.4G WIFI can't transmit simultaneously at same time.
4. The worst-case situation is 0.125, which is less than "1". This confirmed that the device comply with FCC KDB 447498 D04 Power limit.
5. The DUT work frequency range used is 2412 MHz ~ 2462 MHz and 5470 MHz ~ 5725 MHz the result close to the limit by the above formula, so we select worst case power to calculate the exclusion power threshold.

5.5 Conclusion

This EUT is deemed to comply with the reference level limits, therefore the basic restrictions are compliant with human exposure limits.

Statement

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--END OF REPORT--