



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

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR260100040104

Amendment 01

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RF EXPOSURE EVALUATION REPORT

Application No.: SZCR2601000401ME
Applicant: NormaTec Industries LP
Address of Applicant: 480 Pleasant St, Watertown, Massachusetts, 02472 United States
Manufacturer: NormaTec Industries, LP
Address of Manufacturer: 480 Pleasant St. Watertown, MA 02472, USA
Factory:
1. Ryder Electronics (Xinfeng) Ltd.
2. Ryder Industries Vietnam Co. Ltd.
Address of Factory:
1. Shuidong Ave(E), Xinfeng Industrial Park, Xinfeng County, Ganzhou City, Jiangxi Province, China
2. Lot C.II.II-1, Road No. 9, Long Thanh Industrial Zone, An Phuoc Commune, Dong Nai Province, Vietnam
Equipment Under Test (EUT):
EUT Name: Normatec Elite Heat
Model No.: PRO26-SH, PRO26-ST, PRO26-TL, PRO26-PH, PRO26-PS, PRO26-PT ♣
♣ Please refer to section 3.2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark:

FCC ID: 2AY3Y-PRO
Standard(s) : FCC Rules 47 CFR §2.1093
KDB 447498 D04 interim General RF Exposure Guidance v01
Date of Receipt: 2026-01-27
Date of Evaluation: 2026-01-30 to 2026-03-06
Date of Issue: 2026-03-08, Amendment 01:2026-05-15

Evaluation Result:

Pass*

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

This report supersedes our previous report SZCR260100040104, issued on 2026-03-08, which is hereby deemed null and void.

Keny Xu

Keny Xu
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch EMC Laboratory

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-03-08		Original
02		2026-05-15		Updated the Declaration of EUT Family Grouping in section 2

Authorized for issue by:				
		Edison Li		
		Edison Li/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		



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3 General Information

3.1 General Description of E.U.T.

Product Type:	☒ Portable device
	☐ Mobile device
	☐ Fixed device

3.2 Details of E.U.T.

Power supply:	DC 14.4V rechargeable battery which charged by AC adapter AC/DC Adapter1 Model: MX200D-20010000 Input: AC 100-240V, 50/60Hz, 2.5A Output: DC 20.0V, 10.0A, 200.0W Medical AC Adapter2 Model: GPE330C-2001000-D Input: AC 100-240V, 50/60Hz, 5A-2.5A Output: DC 20.0V, 10.0A, 200.0W Max
Cable(s):	AC cable:140cm unshielded
For BLE	
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Data rate:	1Mbps, 2Mbps
Antenna Type:	PCB Antenna
Antenna Gain:	-0.96dBi
For TX 433MHz	
Operation Frequency	433.92MHz
Channel Numbers:	1
Modulation Type:	GFSK
Antenna Gain:	-3.43dBi
Antenna Type:	Helical Antenna

Remark:The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



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Declaration of EUT Family Grouping:

Model No.: PRO26-SH, PRO26-ST, PRO26-TL, PRO26-PH, PRO26-PS, PRO26-PT

Only the model PRO26-ST was tested. According to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on model No., HVIN and Boot sizes.

Below are the specific differences between the models as declared by the customer:

Model Number	HVIN	Boot Dimension (length * width)
PRO26-SH	P1.1	855*345 mm
PRO26-ST	P1.2	1026*394 mm
PRO26-TL	P1.3	1172*443 mm
PRO26-PH	P1.4	830*428 mm
PRO26-PS	P1.5	1026*478 mm
PRO26-PT	P1.6	1160*507 mm

In addition, below is the list of model configuration variations as declared by the customer; the items ticked in the table represent the worst-case configurations for RF test.

Component	Manufacturer	Type	Specification	Selected configuration
Power adapter	Guangdong Mingxin Power Technologies Co., Ltd.	MX200D-20010000	Input: 100-240V AC, 2.5A, 50/60Hz; Output: 20 V DC, 10A, 40°C	√
	GOLDEN PROFIT ELECTRONICS LTD	GPE330C-2001000-D	Input: 100-240V AC, 5A-2.5A, 50/60Hz; Output: 20 V DC, 10A, 40°C	
Internal battery	Shenzhen BetterPower Battery Co., Ltd.	BPI 21700 4S1P	14.4V, 5000mAh	
	Guangdong Yungbang New Energy Co., LTD	INR21700_4S1P_14.4V_4900mAh	14.4V, 4900mAh	√
Solenoid Valve	Shenzhen Wei Shengtai Electronics Co., Ltd.	WQF813202401	DC 24V	√



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	Dongguan Jing Bofang Precision Electronics Co., Ltd.	JQF1320-24A	DC 24V	
Air compressor	Shenzhen Wei Shengtai Electronics Co., Ltd.	WQB30352401Z W	DC 24V, Flow rate: $\geq 6\text{L/min}$, Pressure: $>80\text{kPa}$	√
	Dongguan Jing Bofang Precision Electronics Co., LTD	JFB095-24B	DC 24V, Flow rate: $\geq 6\text{ L/min}$, Pressure: $\geq 80\text{kPa}$	
Heating Film for all models	Guangdong HGT New Materials Co., Ltd.	HGT-FRB-14.4V-80W	Zone 1: $11.8\pm 10\%\Omega$ Zone 2: $40.91\pm 10\%\Omega$ Zone 3: $18.66\pm 10\%\Omega$ Zone 4: $10.35\pm 10\%\Omega$ Zone 5: $7.98\pm 10\%\Omega$	√
	Shenzhen Xiniu Industrial Co., Ltd	XN-Heat FRM-14.4V	Zone 1: $11.8\pm 10\%\Omega$ Zone 2: $40.91\pm 10\%\Omega$ Zone 3: $18.66\pm 10\%\Omega$ Zone 4: $10.35\pm 10\%\Omega$ Zone 5: $7.98\pm 10\%\Omega$	

3.3 Separation Distance

Minimum test separation distance:	5mm
Remark: This minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander.	



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3.4 Test Location

All tests were performed at:

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Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

3.5 Test Facility

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

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

3.6 Deviation from Standards

None

3.7 Abnormalities from Standard Conditions

None



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4 FCC Radiofrequency radiation exposure limits

Test exemptions apply for devices used in general population/uncontrolled exposure environments, according to the SAR-based, or MPE-based exemption thresholds.

4.1 Blanket 1 mW Blanket Exemption

The 1 mW Blanket Exemption of §1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

The 1-mW blanket exemption applies at separation distances less than 0.5 cm, including where there is no separation. This exemption shall not be used in conjunction with other exemption criteria other than those for multiple RF sources in paragraph §1.1307(b)(3)(ii)(A).

The 1-mW exemption is independent of service type and covers the full range of 100 kHz to 100 GHz, but it shall not be used in conjunction with other exemption criteria or in devices with higher-power transmitters operating in the same time-averaging period. Exposure from such higher-power transmitters would invalidate the underlying assumption that exposure from the lower-power transmitter is the only contributor to SAR in the relevant volume of tissue.

4.2 MPE-based Exemption

General frequency and separation-distance dependent MPE-based effective radiated power (ERP) thresholds are in Table B.1 [Table 1 of §1.1307(b)(1)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz.

Table B.1—Thresholds For Single RF Sources Subject to Routine Environmental Evaluation

RF Source Frequency			Minimum Distance			Threshold ERP
f_L MHz		f_H MHz	$\lambda_L / 2\pi$		$\lambda_H / 2\pi$	W
0.3	—	1.34	159 m	—	35.6 m	1,920 R ²
1.34	—	30	35.6 m	—	1.6 m	3,450 R ² /f ²
30	—	300	1.6 m	—	159 mm	3.83 R ²
300	—	1,500	159 mm	—	31.8 mm	0.0128 R ² f
1,500	—	100,000	31.8 mm	—	0.5 mm	19.2R ²

Subscripts L and H are low and high; λ is wavelength.
From §1.1307(b)(3)(i)(C), modified by adding Minimum Distance columns.

The table applies to any RF source (i.e. single fixed, mobile, and portable transmitters) and specifies power and distance criteria for each of the five frequency ranges used for the MPE limits. These criteria apply at separation distances from any part of the radiating structure of at least $\lambda/2\pi$. The thresholds are

based on the general population MPE limits with a single perfect reflection, outside of the reactive near-field, and in the main beam of the radiator.

For mobile devices that are not exempt per Table B.1 [Table 1 of §1.1307(b)(1)(i)(C)] at distances from 20 cm to 40 cm and in 0.3 GHz to 6 GHz, evaluation of compliance with the exposure limits in §1.1310 is necessary if the ERP of the device is greater than $ERP_{20\text{cm}}$ in Formula (B.1) [repeated from §2.1091(c)(1); also in §1.1307(b)(1)(i)(B)].

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

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.

Limit calculation			
Frequency range	Frequency(MHz)	$R(\lambda/2\pi)(\text{m})$	Threshold ERP(W)
300~1500MHz	915	0.0522	0.032
1500~100000MHz	2480	0.0193	0.007

4.3 SAR-based Exemption

SAR-based thresholds are derived based on frequency, power, and separation distance of the RF source. The formula defines the thresholds in general for either available maximum time-averaged power or maximum time-averaged ERP, whichever is greater.

If the ERP of a device is not easily determined, such as for a portable device with a small form factor, the applicant may use the available maximum time-averaged power exclusively if the device antenna or radiating structure does not exceed an electrical length of $\lambda/4$.

As for devices with antennas of length greater than $\lambda/4$ where the gain is not well defined, but always less than that of a half-wave dipole (length $\lambda/2$), the available maximum time-averaged power generated by the device may be used in place of the maximum time-averaged ERP, where that value is not known.



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The separation distance is the smallest distance from any part of the antenna or radiating structure for all persons, during operation at the applicable ERP. In the case of mobile or portable devices, the separation distance is from the outer housing of the device where it is closest to the antenna.

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).

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

Limit calculation				
Frequency range(GHz)	Frequency(GHz)	X	Distance(cm)	Pth (mW)
0.3~1.5	0.43392	0.988	0.5	23.166
1.5~6	2.48	1.905	0.5	2.717



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4.4 RF Exposure Test Exemptions for Simultaneous Transmission

The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(i)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(i)(A).

Either SAR-based or MPE-based exemption may be considered for test exemption for fixed, mobile, or portable device exposure conditions; therefore, the contributions from each exemption in conjunction with the measured SAR (Evaluatedk term) shall be used to determine exemption for simultaneous transmission. In the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

Where:

a = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(B) of this section for Pth, including existing exempt transmitters and those being added.

b = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(C) of this section for Threshold ERP, including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

Pi = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

Pth,i = the exemption threshold power (Pth) according to paragraph (b)(3)(i)(B) of this section for fixed, mobile, or portable RF source i.

ERPj = the ERP of fixed, mobile, or portable RF source j.

ERPth,j = exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least $\lambda/2$ according to the applicable formula of paragraph (b)(3)(i)(C) of this section.

Evaluatedk = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure.

Exposure Limitk = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from § 1.1310 of this chapter.



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5 Measurement and Calculation

5.1 Maximum transmit power

For BLE:

Antenna Gain: -0.96 dBi

Output Power Into Antenna & RF Exposure Evaluation Distance:

Frequency (MHz)	Maximum Conducted Power/EIRP [dBm]	Maximum Conducted Power/EIRP (mW)	Limit(mW)	Ratio
2480	0.74	1.19	2.7	0.4407

Note: Refer to report No. SZCR260100040102 Amendment 01 for EUT test Max Power Value.

For TX 433MHz:

Antenna Gain: -3.43dBi

Test Channel	Maximum Field Strength (dBuV/m)	E.I.R.P (dBm)	E.I.R.P (mW)	Limit(mW)	Ratio
433.920MHz	87.33	-7.87	0.16	23.17	0.0593

(*) Note:

The Maximum Field Strength is based on the RF Test Report SZCR260100040103 Amendment 01.

Note: $EIRP = pt \times gt = (E \times d)^2 / 30$ (According to ANSI C63.10 Annex G.1)

where

pt is the transmitter output power in watts

gt is the numeric gain of the transmitting antenna (dimensionless)

E is the electric field strength in V/m

d is the measurement distance in meters (m)

 $V/m = 10^{(((dBuV/m) - 120) / 20)}$

Simultaneous transmission

Test Mode	BLE	433MHz	Total Ratio	Limit	Result
Ratio	0.4407	0.0069	N/A	N/A	N/A
Scenario 1	☒	☒	0.4476	1.0	Pass

6 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2601000401ME

-End of the Report-



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