

RF Exposure Report

Application No.:

SZCR2507003174AT

Applicant:

DT Research, Inc.

Address of Applicant:3RD FL NO 36 WUQUAN 7TH RD WUGU DISTRICT, NEW TAIPEI,
Taiwan**Manufacturer:**

DT Research, Inc.

Address of Manufacturer:

2000 Concourse Drive, San Jose, CA 95131, USA

Factory:

DT Research, Inc. Taiwan Branch

Address of Factory:

6F., No.36 Wuquan 7 th Rd., Wugu Dist.New Taipei City 248 Taiwan

Equipment Under Test (EUT):**EUT Name:** Android Scan Machine**Model No.:** DA205TE**Trade Mark:****FCC ID:**

YE3600-DA205TE

Standard(s) :

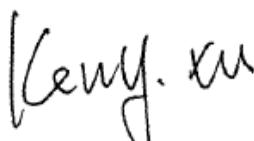
FCC Rules 47 CFR §2.1091

KDB 447498 D04 interim General RF Exposure Guidance v01

Date of Receipt: 2025-07-21**Date of Test:** 2025-07-24 to 2025-08-19**Date of Issue:** 2025-08-20**Test Result:**

Pass*

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



Keny Xu
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Services Laboratory

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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700317403

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| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2025-08-20 | | Original |
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|--------------------------|-----------------------------------|--|--|
| Authorized for issue by: | | | |
| | | | |
| | Edison Li/Project Engineer | | |
| | | | |
| | Eric Fu/Reviewer | | |

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2 General Information

2.1 General Description of E.U.T.

| | |
|---------------|--|
| Product Type: | <input type="checkbox"/> Portable device |
| | <input type="checkbox"/> Mobile device |
| | <input checked="" type="checkbox"/> Fixed device |

2.2 Details of E.U.T.

| | |
|----------------------|---|
| Power supply: | Powered by Lithium-ion Polymer Battery Model: 786166P Capacity: 7.4V, 7600mAh, 56.24Wh Charging by DC 12V from external power supply Switching Adapter Model: FJ-SW20261203000 Input: AC 100-240V, 50/60Hz, 1.5A Max Output: DC 12.0V, 3.0A, 36.0W |
| Cable(s): | DC Cable from adapter 1.8m unshielded with one core AC Cable from adapter 1.5m unshielded |
| Operation frequency: | 13.56MHz |
| Modulation type: | ASK |
| Antenna type: | Loop Antenna |

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2.3 Details of SC200E-NA module

| For Bluetooth Classic | |
|------------------------------|---|
| Operation Frequency: | 2402MHz to 2480MHz |
| Bluetooth Version: | V5.0 |
| Spectrum Spread Technology: | Frequency Hopping Spread Spectrum(FHSS) |
| Modulation Type: | GFSK, π/4DQPSK, 8DPSK |
| Number of Channels: | 79 |
| Channel Spacing: | 1MHz |
| Antenna Type: | PIFA Antenna |
| Antenna Gain: | 4.3dBi |
| For Bluetooth LE | |
| Operation Frequency: | 2402MHz to 2480MHz |
| Bluetooth Version: | V5.0 |
| Channel Spacing: | 2MHz |
| Modulation Type: | GFSK |
| Number of Channels: | 40 |
| Data rate: | 1Mbps |
| Antenna Type: | PIFA Antenna |
| Antenna Gain: | 4.3dBi |
| For 2.4G WiFi: | |
| Operation Frequency: | 802.11b/g/n(20MHz): 2412MHz to 2462MHz 802.11n(40MHz): 2422MHz to 2452MHz |
| Modulation Type: | 802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n: OFDM(QPSK, BPSK, 16QAM, 64QAM) |
| Channel Numbers: | 802.11b/g/n 20MHz: 11 Channels 802.11n/ 40MHz: 7 Channels |
| Channel Spacing: | 5MHz |
| Antenna Type: | PIFA Antenna |
| Antenna Gain: | 4.3dBi |

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For 5G WiFi:

| Operation Frequency: | Band | Mode | Frequency Range(MHz) | Number of channels |
|----------------------|--|-----------|----------------------|--------------------|
| UNII Band I | 802.11a/n/ac(20MHz) | 5180-5240 | 4 | |
| | 802.11n/ac(40MHz) | 5190-5230 | 2 | |
| | 802.11ac(80MHz) | 5210 | 1 | |
| UNII Band II-A | 802.11a/n(20MHz) | 5260-5320 | 4 | |
| | 802.11n(40MHz) | 5270-5310 | 2 | |
| | 802.11ac(80MHz) | 5290 | 1 | |
| UNII Band II-C | 802.11a/n(20MHz) | 5500-5700 | 11 | |
| | 802.11n(40MHz) | 5510-5670 | 5 | |
| | 802.11ac(80MHz) | 5530-5610 | 2 | |
| UNII Band III | 802.11a/n(20MHz) | 5745-5825 | 5 | |
| | 802.11n(40MHz) | 5755-5795 | 2 | |
| | 802.11ac(80MHz) | 5775 | 1 | |
| Modulation Type: | 802.11a: OFDM(QPSK, BPSK, 16QAM, 64QAM) 802.11n: OFDM(QPSK, BPSK, 16QAM, 64QAM) 802.11ac: OFDM(QPSK, BPSK, 16QAM, 64QAM, 256QAM) | | | |
| DFS Function: | Slave without radar detection | | | |
| TPC Function: | Not support | | | |
| Antenna Type: | PIFA Antenna | | | |
| Antenna Gain: | 4.6dBi | | | |

For LTE Band

| | |
|-------------------------------|---|
| LTE Operation Frequency Band: | LTE FDD Band 2, 4, 5, 7, 12, 13, 14, 17, 25, 26, 41, 66, 71 |
| Modulation Type: | QPSK, 16QAM |
| Antenna Type: | PIFA Antenna |
| Antenna Gain: | 3.9dBi@600-900MHz; |

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| | |
|--|----------------------|
| | 4.5dBi@1700-2700MHz; |
|--|----------------------|

*: The SC200E-NA module approval by FCC(FCC ID:YE3600-SC200ENA), Grant at 09/11/2025.

2.4 Separation Distance

| | |
|-----------------------------------|------|
| Minimum test separation distance: | 20cm |
|-----------------------------------|------|

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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2.5 Test Location

All tests were performed at:

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No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

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

No tests were sub-contracted.

2.6 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.

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3 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.

3.1 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.

3.2 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 | — | 1,920 R^2 |
| 1.34 | — | 30 | 35.6 m | — | 3,450 R^2/f^2 |
| 30 | — | 300 | 1.6 m | — | 3.83 R^2 |
| 300 | — | 1,500 | 159 mm | — | 0.0128 R^2f |
| 1,500 | — | 100,000 | 31.8 mm | — | 19.2 R^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

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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_{20cm} 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($\lambda/2\pi$)(m) | Threshold ERP(W) |
| 300~1500MHz | 915 | 0.0522 | 0.032 |
| 1500~100000MHz | 2480 | 0.0193 | 0.007 |

3.3 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. 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.



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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 | 0.915 | 1.474 | 0.5 | 8.133 |
| 1.5~6 | 2.44 | 1.901 | 0.5 | 2.753 |

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4 Measurement and Calculation

4.1 Maximum transmit power

Standalone transmission

| Type | Test Freq. (MHz) | Max Antenna Gain (dBi) | Max Cond. power (dBm) | Max Cond. power (mW) | Max EIRP (dBm) | Max EIRP (mW) | Limit (mw) | Cond. Ratio | EIRP Ratio | Result |
|-------------|------------------|------------------------|-----------------------|----------------------|----------------|---------------|------------|-------------|------------|--------|
| TLE Band 2 | 1850.7 | 4.50 | 25.00 | 316.23 | 29.50 | 891.25 | 3060.00 | 0.1033 | 0.2913 | PASS |
| TLE Band 4 | 1710.7 | 4.50 | 25.00 | 316.23 | 29.50 | 891.25 | 3060.00 | 0.1033 | 0.2913 | PASS |
| TLE Band 5 | 824.7 | 3.90 | 25.00 | 316.23 | 28.90 | 776.25 | 3060.00 | 0.1033 | 0.2537 | PASS |
| TLE Band 7 | 2502.5 | 4.50 | 25.00 | 316.23 | 29.50 | 891.25 | 3060.00 | 0.1033 | 0.2913 | PASS |
| TLE Band 12 | 699.7 | 3.90 | 25.00 | 316.23 | 28.90 | 776.25 | 3060.00 | 0.1033 | 0.2537 | PASS |
| TLE Band 13 | 779.5 | 3.90 | 25.00 | 316.23 | 28.90 | 776.25 | 3060.00 | 0.1033 | 0.2537 | PASS |
| TLE Band 14 | 790.5 | 3.90 | 25.00 | 316.23 | 28.90 | 776.25 | 3060.00 | 0.1033 | 0.2537 | PASS |
| TLE Band 17 | 706.5 | 3.90 | 25.00 | 316.23 | 28.90 | 776.25 | 3060.00 | 0.1033 | 0.2537 | PASS |
| TLE Band 25 | 1850.7 | 4.50 | 25.00 | 316.23 | 29.50 | 891.25 | 3060.00 | 0.1033 | 0.2913 | PASS |
| TLE Band 26 | 814.7 | 3.90 | 25.00 | 316.23 | 28.90 | 776.25 | 3060.00 | 0.1033 | 0.2537 | PASS |
| TLE Band 41 | 2498.5 | 4.50 | 25.00 | 316.23 | 29.50 | 891.25 | 3060.00 | 0.1033 | 0.2913 | PASS |
| TLE Band 66 | 1710.7 | 4.50 | 25.00 | 316.23 | 29.50 | 891.25 | 3060.00 | 0.1033 | 0.2913 | PASS |
| TLE Band 71 | 665.5 | 3.90 | 25.00 | 316.23 | 28.90 | 776.25 | 3060.00 | 0.1033 | 0.2537 | PASS |
| BT | 2402 | 4.30 | 10.00 | 10.00 | 14.30 | 26.92 | 3060.00 | 0.0033 | 0.0088 | PASS |
| 2.4G WiFi | 2412 | 4.30 | 19.50 | 89.13 | 23.80 | 239.88 | 3060.00 | 0.0291 | 0.0784 | PASS |
| 5G WiFi | 5180 | 4.60 | 18.50 | 70.79 | 23.10 | 204.17 | 3060.00 | 0.0231 | 0.0667 | PASS |

Note 1: Use the maximum power between the conducted power and ERP/EIRP to perform RF exposure

exemption evaluation.

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| Test Mode | Frequency (MHz) | Field Strength of the Fundamental Signal [dBuV/m] | ERP (mW) | Limit(mw) | Ratio | Verdict |
|-----------|-----------------|---|----------|-----------|---------|---------|
| NFC | 13.56 | 61.99 | 0.00029 | 1.00 | 0.00029 | Pass |

Note 1: NFC field strength of fundamental signal based on the RF Test Report SZCR250700317402.

Note 2: ERP calculation formula:

$$\text{ERP} = \text{EIRP}/1.64 = (E \times d)^2 / (30 \times 1.64) = (E \times d)^2 / 49.2$$

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 | NFC | BT/2.4G/5G WiFi | LTE | Total Ratio | Limit | Result |
|------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------|-------|--------|
| Ratio | 0.00029 | 0.0784 | 0.2913 | N/A | N/A | N/A |
| Scenario 1 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0.36999 | 1.0 | Pass |

4.2 RF Exposure Calculation

Remark: we used the maximum power between the conducted power and ERP/EIRP to perform RF exposure exemption evaluation.

The Max. EIRP Power is 891.25mW, the best case gain of the Antenna: 4.5dBi.

| | Evaluation method | Exempt Limit(mW) | Verdict |
|-------------------------------------|---------------------------------|------------------|---------|
| <input type="checkbox"/> | Blanket 1 mW Blanket Exemption | 1mW | N/A |
| <input type="checkbox"/> | MPE-based Exemption(ERP) | 7mW(ERP) | N/A |
| <input checked="" type="checkbox"/> | SAR-based Exemption(P_{th}) | 3060 | Yes |

So, the device is to qualify for SAR test exemption, the exemption report is in lieu of the SAR report.

--End of the Report--



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