

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240400156406

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RF EXPOSURE EVALUATION REPORT

Application No.: SZCR2404001564AT

Applicant: Hon Lin Technology Co., Ltd.

11F, No.32, Jihu Rd., Neihu Dist., Taipei City, 114 Taiwan **Address of Applicant:**

Manufacturer: Foxconn Industrial Internet Co., Ltd

Address of Manufacturer: Building C1, Foxconn Technology Park, Donghuan 2nd Road 2nd Floor,

Longhua Street, Longhua District, Shenzhen, 518109, Guangdong, China

Factory: Fuyu Precision Component Company Limited

Address of Factory: Lot M1, Lot F and Lot T1, Quang Chau Industrial Park, Van Trung

Commune, Viet Yen District, Bac Giang Province, Viet Nam

Equipment Under Test (EUT):

EUT Name: LTE GPS Tracker

Model No.: QTS110GW

Trade Mark: Qualcomm Aware FCC ID: 2AQ68-QTS110GW 47 CFR Part 1.1307 Standard(s):

47 CFR Part 1.1310

FCC Rules 47 CFR §2.1091

KDB 447498 D04 interim General RF Exposure Guidance v01

2024-04-28 **Date of Receipt:**

Date of Evaluation: 2024-05-08 to 2024-06-13

Date of Issue: 2024-06-20

Pass* **Evaluation Result:**

Keny Xu **EMC Laboratory Manager**

Ceny. Ku



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^{*} In the configuration evaluated, the EUT complied with the standards specified above.



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| Revision Record | | | | | | |
|-----------------|---------|------------|----------|----------|--|--|
| Version | Chapter | Date | Modifier | Remark | | |
| 01 | | 2024-06-20 | | Original | | |
| | | | | | | |
| | | | | | | |

| Authorized for issue by: | | | |
|--------------------------|------------------------------|---|--|
| | Calvin Weng | | |
| | Calvin Weng/Project Engineer | - | |
| | Exic Fu | | |
| | Eric Fu/Reviewer | - | |



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General Information

| | ☐ Portable device |
|---------------|-------------------|
| Product Type: | ⊠ Mobile device |
| | ☐ Fixed device |

3.2 Details of E.U.T.

| L Details of L.U.T. | |
|-------------------------------------|------------------------------------------------------------------------------|
| Power supply: | DC3.7V by li-ion battery |
| | Recharged input: DC5V/1.5A |
| For BLE: | |
| Cable Loss (for RF conducted test): | 0.7dB |
| Operation Frequency: | 2402MHz to 2480MHz |
| Bluetooth Version: | V5.4 LE |
| Data Rate: | 1Mbps/2Mbps |
| Modulation Type: | GFSK |
| Number of Channels: | 40 |
| Channel Spacing: | 2MHz |
| Antenna Type: | PIFA Antenna |
| Antenna Gain: | 2.81dBi |
| For 2.4G Wi-Fi: | |
| Operation Frequency: | 802.11b/g/n(HT20): 2412MHz to 2462MHz;802.11n(HT40): 2422MHz to 2452MHz |
| Cable Loss (for RF conducted test): | 0.7dB |
| Modulation Type: | 802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK) |
| Number of Channels: | 802.11b/g/n(HT20):11;802.11n(HT40):7 |
| Channel Spacing: | 5MHz |
| Antenna Type: | PIFA Antenna |
| Antenna Gain: | 2.81dBi |
| | |



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| For GSM: | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Support Network: | GPRS, EGPRS |
| Operation Frequency Band: | GSM850/PCS1900 |
| Cable Loss (for RF conducted test): | 0.7dB |
| Modulation Type: | GMSK for GPRS/EGPRS 8PSK for EGPRS |
| GPRS Class: | 12 |
| EGPRS Class: | 12 |
| Antenna Type: | PIFA antenna |
| Antenna Gain: | GSM850:3.53dBi, 1900: 2.65dBi |
| For LTE: | |
| LTE Operation Frequency Band: | LTE Cat M1 B2,4,5,12,13,14,19,25,26,66,85 LTE Cat NB B2,4,5,12,13,19,25,26,66,85 |
| Cable Loss (for RF conducted test): | 0.7dB |
| Modulation Type: | QPSK, 16QAM For Cat M1 BPSK, QPSK for Cat NB |
| LTE Power Class: | Class 5(Rated Power: 20dBm) |
| Antenna Type: | PIFA Antenna |
| Antenna Gain: | B2: 2.65dBi B4: 3.05dBi B5: 3.53dBi B12: 1.95dBi B13: 1.22dBi B14: 2.54dBi B19: 3.48dBi B25: 2.65dBi B26: 3.53dBi B66: 3.05dBi B85: 1.95dBi |

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3.3 Test Location

All tests were performed at:

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

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.

3.4 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.

3.5 Deviation from Standards

None

3.6 Abnormalities from Standard Conditions

None



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Radio Spectrum Technical Requirement 4

RF Exposure Compliance Requirement 4.1

4.1.1

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

| Frequency range (MHz) | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm²) | Averaging time (minutes) |
|---------------------------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------|----------------------------|
| (A) Lim | its for Occupationa | /Controlled Exposu | res | |
| 0.3–3.0 3.0–30 30–300 300–1500 1500–100,000 | 614 1842/f 61.4 | 1.63 4.89/f 0.163 | *(100) *(900/f²) 1.0 f/300 5 | 6 6 6 6 |
| (B) Limits | for General Populati | on/Uncontrolled Exp | posure | |
| 0.3–1.34 | 614 824/i 27.5 | 1.63 2.19/f 0.073 | *(100) *(180/f²) 0.2 f/1500 1.0 | 30 30 30 30 30 |

F= Frequency in MHz

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4* Pi * R 2)

Where

Pd = power density in mW/cm2

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 id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

Test Procedure 4.1.2

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.



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EUT RF Exposure Evaluation 4.1.3

For BLE:

Antenna Gain: 2.81dBi, which is 1.91 in linear scale

Output Power Into Antenna & RF Exposure Evaluation Distance:

| Frequency (MHz) | Max Conducted AV Output Power (dBm) | Output Power to Antenna (mW) | Power Density at R = 30 cm (mW/cm²) | Limit (mW/cm²) | MPE ratio | Result |
|--------------------|-------------------------------------|------------------------------------|-------------------------------------------|-------------------|--------------|--------|
| 2440 | 7 | 5.01 | 0.0008 | 1.0000 | 0.0008 | PASS |

For 2.4G WIFI:

Antenna Gain: 2.81dBi, which is 1.91 in linear scale

Output Power Into Antenna & RF Exposure Evaluation Distance:

| Frequency (MHz) | Max Conducted | Output Power to Antenna | Power Density at R = 30 cm | Limit (mW/cm²) | MPE ratio | Result |
|--------------------|------------------|-------------------------|-------------------------------|-------------------|--------------|--------|
| (IVITIZ) | AV Output | (mW) | (mW/cm ²) | (IIIVV/CIII-) | ratio | |
| | Power (dBm) | | | | | |
| 2437 | 22 | 158.49 | 0.0268 | 1.0000 | 0.0268 | PASS |

For GSM:

Antenna Gain: 3.53dBi for GSM850, 2.65dBi for PCS1900

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.25 for GSM850, 1.84 for

PCS1900 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

| Band | Burst Tune up Power(dBm) | DivisionFactors (dB) | Time-Averaged Tune upPower (dBm) |
|---------------------|-----------------------------|----------------------|----------------------------------|
| GSM 850(1TX slots) | 35 | -9.03 | 25.97 |
| GSM 850(2TX slots) | 32 | -6.02 | 25.98 |
| GSM 850(3TX slots) | 30 | -4.26 | 25.74 |
| GSM 850(4TX slots) | 28 | -3.01 | 24.99 |
| GSM 1900(1TX slots) | 32 | -9.03 | 22.97 |



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| GSM 1900(2TX slots) | 30 | -6.02 | 23.98 |
|---------------------|----|-------|-------|
| GSM 1900(3TX slots) | 28 | -4.26 | 23.74 |
| GSM 1900(4TX slots) | 26 | -3.01 | 22.99 |

Note: Division Factors

To average the power, the division factor is as follows:

1Txslot = 1 transmit time slot out of 8 time slots

=> conducted power divided by (8/1)=> -9.03 dB

2Txslots = 2 transmit time slots out of 8 time slots

=> conducted power divided by (8/2)=> -6.02 dB

3Txslots = 3 transmit time slots out of 8 time slots

=> conducted power divided by (8/3)=> -4.26 dB

4Txslots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01 dB

| Frequency | Operation | Max | Output | Power | Limit | MPE | Result |
|-----------|-----------|-----------|------------|----------|-----------------------|--------|--------|
| (MHz) | Band | Conducted | Power | Density | (mW/cm ²) | ratio | |
| | | AV Output | to Antenna | at R = | | | |
| | | Power | (mW) | 30 cm | | | |
| | | (dBm) | | (mW/cm²) | | | |
| 824.2 | 5 | 25.98 | 396.2780 | 0.0790 | 0.5495 | 0.1438 | PASS |
| 1850.2 | 2 | 23.98 | 250.0345 | 0.0407 | 1.0000 | 0.0407 | PASS |



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For LTE:

Antenna Gain: B2: 2.65dBi, B4: 3.05dBi, B5: 3.53dBi, B12: 1.95dBi, B13: 1.22dBi, B14: 2.54dBi

B19: 3.48dBi, B25: 2.65dBi, B26: 3.53dBi, B66: 3.05dBi, B85: 1.95dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is B2: 1.84, B4: 2.02, B5: 2.25, B12: 1.57, B13: 1.32, B14: 1.79, B19: 2.23, B25: 1.84, B26: 2.25, B66: 2.02, B85: 1.57dBi in linear scale.

| Frequency | Operation | Max | Output Power | Power Density | Limit | MPE | Result |
|-----------|-----------|-------------|--------------|---------------|----------|--------|--------|
| (MHz) | Band | Conducted | to Antenna | at R = 30 cm | (mW/cm²) | ratio | |
| | | Output | (mW) | (mW/cm²) | | | |
| | | Power (dBm) | | | | | |
| 1850.7 | 2 | 23 | 199.5262 | 0.0325 | 1.0000 | 0.0325 | PASS |
| 1710.7 | 4 | 23 | 199.5262 | 0.0356 | 1.0000 | 0.0356 | PASS |
| 824.7 | 5 | 23 | 199.5262 | 0.0398 | 0.5498 | 0.0724 | PASS |
| 699.7 | 12 | 23 | 199.5262 | 0.0276 | 0.4665 | 0.0592 | PASS |
| 779.5 | 13 | 23 | 199.5262 | 0.0234 | 0.5197 | 0.0450 | PASS |
| 790.5 | 14 | 23 | 199.5262 | 0.0317 | 0.5270 | 0.0602 | PASS |
| 832.5 | 19 | 23 | 199.5262 | 0.0393 | 0.5550 | 0.0708 | PASS |
| 1850.7 | 25 | 23 | 199.5262 | 0.0325 | 1.0000 | 0.1007 | PASS |
| 814.7 | 26 | 23 | 199.5262 | 0.0398 | 0.5431 | 0.2816 | PASS |
| 1710.7 | 66 | 23 | 199.5262 | 0.0356 | 1.0000 | 0.0387 | PASS |
| 700.5 | 85 | 23 | 199.5262 | 0.0276 | 0.4670 | 0.1452 | PASS |

Remark: Max output power including tune up.

For Maximum Simultaneous Transmission:

| Operation | MPE | Limit | Result |
|------------------|--------|--------|--------|
| mode | ratio | | |
| 2.4G Wi-Fi + GSM | 0.1706 | 1.0000 | PASS |
| 2.4G Wi-Fi + LTE | 0.3084 | 1.0000 | PASS |

Remark: all the power listed above included tune up tolerance.



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EUT Constructional Details (EUT Photos) 5

Refer to Appendix - External and Internal Photos for SZCR2404001564AT.

-End of the Report-



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