

Report No.: SZEM141100609004

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Nanshan

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FCC RF TEST REPORT

Application No: SZEM1502000801HR

Applicant: Aspenta International FZ-LLC

Product Name: GPS Tracker Mode No.(EUT): CIT-002

Trade Mark:

aspenta

Redefining Connectivity

FCC ID: 2ADTO-CIT-001

Standards: 47 CFR Part 2 (2014)

47 CFR Part 22 subpart H (2014)

47 CFR Part 24 subpart E (2014) (only for Effective Isotropic Radiated Power

Output Data and Field strength of spurious radiation)

Test Method: FCC KDB 971168 D01 Power Meas License Digital Systems v02r02

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

Authorized Signature:



Jack Zhang EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.



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2 Version

| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 00 | | 2015-07-07 | | Original |
| | | | | |
| | | | | |

| Authorized for issue by: | | |
|--------------------------|---------------------------------|------------|
| Tested By | Chros Thong | 2015-01-08 |
| | (Chris Zhong) /Project Engineer | Date |
| Prepared By | Jorde Chen | 2015-07-07 |
| | (Jade Chen) /Clerk | Date |
| Checked By | Emen-Li | 2015-07-07 |
| | (Emen Li) /Reviewer | Date |



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3 Notice

3.1 Test Facility

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

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

VCCI

The 10m Semi-anechoic chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

• Industry Canada (IC)

Two 3m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1 & 4620C-2.

3.2 Deviation from Standards

None.

3.3 Abnormalities from Standard Conditions

None.

3.4 Other Information Requested by the Customer

None.



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3.5 Test Location

| Applicant: | SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab |
|------------|--|
| Address: | No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057. |
| | Tel: +86 755 2601 2053 Fax: +86 755 2671 0594 |

NOTE: No tests were sub-contracted.

3.6 Test Environment Condition

| Ambient Temperature: | 19.5 to 25 ℃ |
|----------------------------|--------------|
| Ambient Relative Humidity: | 40 to 55 % |
| Atmospheric Pressure: | 1005 |

3.7 Test Date

| Date of Receipt | 2015-02-12 |
|--------------------|------------|
| Date of Start Test | 2015-03-12 |
| Date of End Test | 2015-06-26 |
| Date of Issue: | 2015-07-07 |



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5 Test Summary

5.1 Cellular Band (824-849 MHz Paired With 869-894 MHz)

| Test Item | FCC Rule No. | Requirements | Test Result | Verdict |
|---|----------------------------|------------------------|-------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046(a), § 22.913(a) | FCC: ERP ≤ 7 W. | Appendix A | PASS |
| Field strength of spurious radiation | §2.1053, §22.917(a)(b) | FCC: ≤ -13dBm/100 kHz, | Appendix B | PASS |

5.2 PCS Band (1850-1910 MHz Paired With 1930-1990 MHz)

| Test Item | FCC Rule No. | Requirements | Test Result | Verdict |
|--|-------------------------|----------------|-------------|---------|
| Effective Isotropic Radiated Power Output Data | §2.1046(a), § 24.232 | EIRP≤2W. | Appendix A | PASS |
| Field strength of spurious radiation | §2.1053, §24.238 | ≤ -13dBm/1MHz, | Appendix B | PASS |

Remark:

Model No.: CIT-001, CIT-002

This test report (Ref. No.: SZEM141100609004) is only valid with the original test report (Ref. No.:

SZEM141100609002).

Review this report and original report, this report just changed the model formation.

According to the declaration from the applicant, the model in this report and model in original report was identical, only difference with being the model no., and only GSM and GPS antenna and enclosure is different. CIT-001(2ADTO-CIT-001) has internal antenna, and CIT-002(2ADTO-CIT-002) has external antenna.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report Effective Isotropic Radiated Power Output Data and Field strength of spurious radiation were fully retested on Model CIT-002 and shown the data in this report, other tests please refer to original report SZEM141100609002.

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6 Description of the Equipment under Test (EUT)

6.1 Client Information

| Applicant: | Aspenta International FZ-LLC |
|-----------------------|------------------------------|
| Address of Applicant: | Premises:155 |
| | Floor:01 |
| | building:17 |
| | Dubai, United Arab Emirates |

6.2 Boared

| Product Name: | GPS Tracker |
|---------------|---------------------------------|
| Model No.: | CIT-001 |
| Trade Mark: | aspenta Redelining Connectority |
| Antenna Gain: | GSM850:2.5dBi |
| | GSM1900:2.5dBi |
| IMEI: | N/A |

6.3 Sub-Assembly

| Sub-Assembly | | |
|-------------------|-------------|--|
| Sub-Assembly Name | Description | |
| N/A | N/A | |

| Sub-Assembly | | |
|-------------------|---------------------------------|--|
| Sub-Assembly Name | Description | |
| Battery | Li recharge battery 3.7V 300mAh | |





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6.4 Test Location

All tests were performed at:

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

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

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

6.5 Technical Specification

| Characteristics | Description | | |
|---|--------------------------------|-------------------------------------|--|
| Dadio Cyatam Tyna | ⊠ GSM | | |
| Radio System Type | ☐ UMTS | | |
| | GSM850 | Transmission (TX): 824 to 849 MHz | |
| Supported Fraguency Pango | GSIVIOSO | Receiving (RX): 869 to 894 MHz | |
| Supported Frequency Range | GSM1900 | Transmission (TX): 1850 to 1910 MHz | |
| | GSW1900 | Receiving (RX): 1930 to 1990 MHz | |
| Target TX Output Power | GSM850: 33dBm GSM1900 31dBm | | |
| Supported Channel Bandwidth | GSM system: | ⊠200 kHz | |
| Supported Channel Bandwidth | UMTS system: | □5 MHz | |
| Designation of Emissions | GSM850: | 247KGXW, 252KG7W | |
| (Note: the necessary bandwidth of | GSM1900: | 249KGXW, 247KG7W | |
| which is the worst value from the | UMTS850: | 4M16F9W | |
| measured occupied bandwidths for each type of channel bandwidth | UMTS1900: | 4M15F9W | |
| configuration.) | | | |

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7 General Test Conditions / Configurations

7.1 Test Mode

| Test Mode | Test Modes Description |
|-----------|---------------------------------------|
| GSM/TM1 | GSM system, GSM/GPRS, GMSK modulation |

NOTE: The test mode(s) are selected according to relevant radio technology specifications.

7.2 Test Environment

| Environment Parameter | Selected Values During Tests | | |
|-----------------------|------------------------------|---------|--|
| Relative Humidity | Ambient | | |
| Humidity: | 52 % RH | | |
| Temperature | TN | Ambient | |
| | VL | 3.6V | |
| Voltage : | VN | 3.7V | |
| | VH | 4.2V | |

NOTE: VL= lower extreme test voltage

VN= nominal voltage

VH= upper extreme test voltage

TN= normal temperature



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7.3 Test Frequency

| Test Mode | TX / RX | | RF Channel | | |
|-----------|---------|-------------|-------------|-------------|--|
| | | Low (L) | Middle (M) | High (H) | |
| | TX | Channel 128 | Channel 192 | Channel 251 | |
| GSM850 | | 824.2MHz | 836.6MHz | 848.8MHz | |
| GSM650 | RX | Channel 128 | Channel 192 | Channel 251 | |
| | | 869.2MHz | 881.6MHz | 893.8MHz | |
| Test Mode | TX / RX | RF Channel | | | |
| rest Mode | IA/ nA | Low (L) | Middle (M) | High (H) | |
| GSM1900 | тх | Channel 512 | Channel 661 | Channel 810 | |
| | | 1850.2MHz | 1880.0MHz | 1909.8MHz | |
| | RX | Channel 512 | Channel 661 | Channel 810 | |
| | | 1930.2 MHz | 1960.0 MHz | 1989.8 MHz | |



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7.4 Description of Tests

7.4.1 Effective (Isotropic) Radiated Power of Transmitter

Measurement Procedure:

Below 1GHz test procedure as below:

- 1). The EUT was powered ON and placed on a 0.8m high table in the chamber. The antenna of the transmitter was extended to its maximum length.
- 2). The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
- 3). Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
- 4). The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter.
- 5). A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 2) is obtained for this set of conditions.
- 6). The output power into the substitution antenna was then measured.
- 7). Steps 5) and 6) were repeated with both antennas polarized.
- 8). Calculate power in dBm by the following formula:

ERP (dBm) = Pg(dBm) - cable loss (dB) + antenna gain (dBd)

Where:

Pg is the generator output power into the substitution antenna.

Above 1GHz test procedure as below:

- 1). Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber
- 2). Calculate power in dBm by the following formula:

 $EIRP(dBm) = Pg(dBm) - cable \ loss \ (dB) + antenna \ gain \ (dBi)$

EIRP=ERP+2.15dB

Where:

Pg is the generator output power into the substitution antenna.

3). Test the EUT in the lowest channel, the middle channel the Highest channel



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4). The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.

5). Repeat above procedures until all frequencies measured was complete.

Note: Reference test setup 1

7.4.2 Field Strength of Spurious Radiation

Measurement Procedure:

Below 1GHz test procedure as below:

- 1). The EUT was powered ON and placed on a 80cm high table in the chamber. The antenna of the transmitter was extended to its maximum length.
- 2). The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
- 3). Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
- 4). The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter.
- 5). A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 2) is obtained for this set of conditions.
- 6). The output power into the substitution antenna was then measured.
- 7). Steps 5) and 6) were repeated with both antennas polarized.
- 8) Calculate power in dBm by the following formula:

ERP(dBm) = Pg(dBm) - cable loss (dB) + antenna gain (dBd)

Where:

Pd is the dipole equivalent power, Pg is the generator output into the substitution antenna, and the antenna gain is the gain of the substitute antenna used relative to either a half-wave dipole (dBd) or an isotropic source (dBi). The substitute level is equal to Pg [dBm] – cable loss [dB]. The calculated Pd levels are then compared to the absolute spurious emission limit of -13dBm which is equivalent to the required minimum attenuation of 43 + 10log10(Power [Watts]).

Above 1GHz test procedure as below:

1) Different between above is the test site, change from Semi- Anechoic

Chamber to fully Anechoic Chamber



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2) Calculate power in dBm by the following formula:

EIRP(dBm) = Pg(dBm) - cable loss (dB) + antenna gain (dBi)

EIRP=ERP+2.15dB

Where:

Pg is the generator output power into the substitution antenna.

- 3. Test the EUT in the lowest channel, the middle channel the Highest channel
- 4. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.
- 5. Repeat above procedures until all frequencies measured was complete

Note: Reference test setup 2



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7.5 Test Setups

7.5.1 Test Setup 1

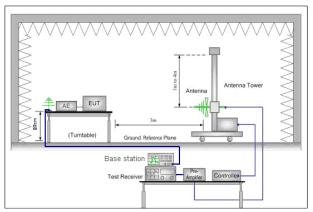


Figure 1. 30MHz to 1GHz

Antenna Tower

Ground Reference Plane

Signal Generator

Test Receiver

Amptier

Controller

Figure 2. above 1GHz

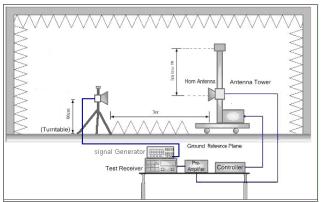


Figure 1. 30MHz to 1GHz

Figure 2. above 1GHz

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7.5.2 Test Setup 2

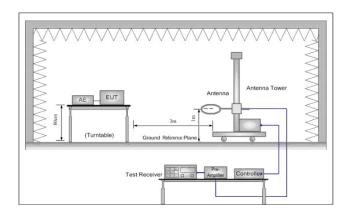
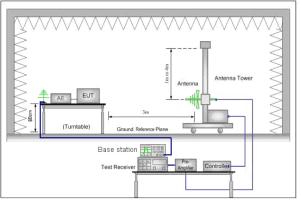


Figure 1. Below 30MHz



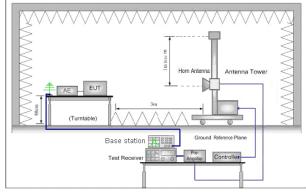


Figure 2. 30MHz to 1GHz

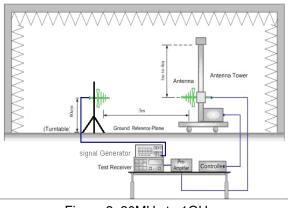


Figure 3. above 1GHz

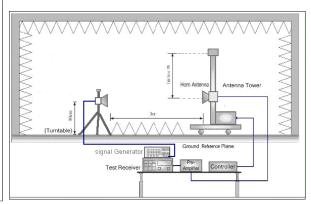


Figure 2. 30MHz to 1GHz

Figure 3. above 1GHz

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7.6 Test Conditions

| Test Case | | Test Conditions | | |
|--------------------------------|------------------|------------------|--|--|
| Transmit | Average Power, | Test Environment | Ambient Climate & Rated Voltage | |
| Output | Total | Test Setup | Test Setup 1 | |
| Power Data | | RF Channels (TX) | L, M, H | |
| | | | (L= low channel, M= middle channel, H= high channel) | |
| | | Test Mode | GSM/TM1 | |
| | Average Power, | Test Environment | Ambient Climate & Rated Voltage | |
| Spectral Density (if required) | Spectral Density | Test Setup | Test Setup 1 | |
| | RF Channels (TX) | L, M, H | | |
| | | | (L= low channel, M= middle channel, H= high channel) | |
| | | Test Mode | GSM/TM1 | |
| Field Strength of Spurious | | Test Environment | Ambient Climate & Rated Voltage | |
| Radiation | | Test Setup | Test Setup 2 | |
| | | Test Mode | GSM/TM1 | |
| | | | NOTE: If applicable, the EUT conf. that has maximum power density (based on the equivalent power level) is selected. | |
| | | RF Channels (TX) | L, M, H | |
| | | | (L= low channel, M= middle channel, H= high channel) | |



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8 Main Test Instruments

| RE in Chamber | | | | | |
|---------------|--|------------------------------------|-----------|------------------|--------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Due date |
| 1 | 3m Semi-Anechoic Chamber | ETS-LINDGREN | N/A | SEL0017 | 2016-05-13 |
| 2 | EMI Test Receiver | Agilent Technologies | N9038A | SEL0312 | 2015-09-16 |
| 3 | EMI Test software | AUDIX | E3 | SEL0050 | N/A |
| 4 | BiConiLog Antenna (26-3000MHz) | ETS-LINDGREN | 3142C | SEL0015 | 2015-10-24 |
| 5 | Double-ridged horn (1-18GHz) | ETS-LINDGREN | 3117 | SEL0006 | 2015-10-24 |
| 6 | Horn Antenna (18-26GHz) | ETS-LINDGREN | 3160 | SEL0076 | 2015-10-24 |
| 7 | Pre-amplifier (0.1-1300MHz) | Agilent Technologies | 8447D | SEL0053 | 2016-05-13 |
| 8 | Pre-Amplifier (0.1-26.5GHz) | Compliance Directions Systems Inc. | PAP-0126 | SEL0168 | 2015-10-24 |
| 9 | Coaxial cable | SGS | N/A | SEL0027 | 2016-05-13 |
| 10 | Coaxial cable | SGS | N/A | SEL0189 | 2016-05-13 |
| 11 | Coaxial cable | SGS | N/A | SEL0121 | 2016-05-13 |
| 12 | Coaxial cable | SGS | N/A | SEL0178 | 2016-05-13 |
| 13 | Band filter | Amindeon | 82346 | SEL0094 | 2016-05-13 |
| 14 | Barometer | Chang Chun | DYM3 | SEL0088 | 2016-05-13 |
| 15 | Universal radio communication tester | Rohde & Schwarz | CMU200 | SEL0091 | 2015-10-24 |
| 16 | Universal radio communication tester | Rohde & Schwarz | CMU200 | SEL0194 | 2015-10-24 |
| 17 | Signal Generator (10M-27GHz) | Rohde & Schwarz | SMR27 | SEL0067 | 2016-05-13 |
| 18 | Signal Generator | Rohde & Schwarz | SMY01 | SEL0155 | 2015-10-24 |
| 19 | Humidity/ Temperature Indicator | Shanhai Qixiang | ZJ1-2B | SEL0103 | 2015-10-24 |
| 20 | DC Power Supply | Zhao Xin | RXN-305D | SEL0117 | 2015-10-24 |

Note: The calibration interval is one year, all the instruments are valid.



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9 Measurement Uncertainty

For a 95% confidence level (k = 2), the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 as following:

| Test Item | Extended Uncertainty | Data |
|----------------------------|----------------------|-----------------------------|
| Transmit Output Power Data | Power [dBm] | U = 0.37 dB |
| Field Strength of Spurious | ERP [dBm] | For 3 m Chamber: |
| Radiation | | U = 4.5 dB (30 MHz to 1GHz) |
| | | U = 3.3 dB (above 1 GHz) |
| | | For 10 m Chamber: |
| | | U = 4.5 dB (30 MHz to 1GHz) |
| | | U = 3.2 dB (above 1 GHz) |



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10 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1502000801HR.

The End

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