

RF Exposure Evaluation Report

Product : 8" CM with Internal Antenna - XR,
8" CM with External Antenna - XR

Trade mark : N/A

Model/Type reference : 7X-CC-C11K-IA, 7X-CC-K10K-XA

Serial Number : N/A

Report Number : EED32P80329502

FCC ID : 2AVZO-MT

Date of Issue : Nov. 05, 2023

Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
447498 D04 Interim General RF
Exposure Guidance v01

Test result : PASS

Prepared for:

75F, Inc.

**1650 W 82nd St, Suite 200 Bloomington,
Minnesota 55431, United States**

Prepared by:

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2 Version

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4 General Information

4.1 Client Information

Applicant:	75F, Inc.
Address of Applicant:	1650 W 82nd St, Suite 200 Bloomington, Minnesota 55431, United States
Manufacturer:	Estone Technology LTD
Address of Manufacturer:	2F, Building No.1, Jia'an Industrial Park, No.2 Long Chang Road, Bao'an, Shenzhen 518101, China
Factory:	Estone Technology LTD
Address of Factory:	2F, Building No.1, Jia'an Industrial Park, No.2 Long Chang Road, Bao'an, Shenzhen 518101, China

4.2 General Description of EUT

Product Name:	8" CM with Internal Antenna - XR, 8" CM with External Antenna - XR
Model No.(EUT):	7X-CC-C11K-IA, 7X-CC-K10K-XA
Trade Mark:	N/A

4.3 Product Specification subjective to this standard

Frequency Range:	906MHz~924MHz
Modulation Type:	PSK
Test Power Grade:	Default
Test Software of EUT:	teraterm-4.106.exe
Antenna Type:	Internal Antenna, External Antenna
Antenna Gain:	Internal antenna: 0.31dBi External Antenna: 1.20dBi
Power Supply:	DC 24.0V or AC 24.0V
Sample Received Date:	Mar. 14, 2023
Sample tested Date:	Mar. 14, 2023 to Nov. 05, 2023
Remark:	Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified. Model No.: 7X-CC-C11K-IA, 7X-CC-K10K-XA Both of the models are tested. Their electrical circuit design, layout, components used and internal wiring are identical. Only the antennas are different.

4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Limits

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

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

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).

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

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.

5.1.2 Test Procedure

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

5.1.3 EUT RF Exposure Evaluation

For Stand alone:

Frequency (MHz)	Electric Field strength (dBuV/m)	EIRP (dBm)	ERP (dBm)	ERP (mW)	Limit (mW)	Result
906	106.65	11.35	9.20	8.32	≤ 1848.24	Pass
914	106.72	11.42	9.27	8.45	≤ 1864.56	Pass
924	106.78	11.48	9.33	8.57	≤ 1884.96	Pass

Note:

① $EIRP(dBm) = Electric\ Field\ strength(dBuV/m) - 95.3$;

② $ERP(dBm) = EIRP(dBm) - 2.15$;

③ The separation distance is 20cm;

④ The test data refer to the report of EED32P80329501, and only the worst case data was recorded in the report.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

*** End of Report ***