

RF Exposure TEST REPORT



Report No.: **SL13070201-EQU-001-RF Exposure**

Supersede Report No.: **NONE**

Applicant	:	Equinox Payments LLC
Product Name	:	Electronic POS Terminal
Model No.	:	CFD, AIO
Test Standard	:	FCC 47 CFR §1.1307(b) FCC 47 CFR §1.1310
Test Method	:	FCC 47 CFR §1.1310 FCC OST/OET Bulletin Number 65
FCC ID	:	NVA00008
IC ID	:	N/A
Dates of test	:	August 6th - August 10th , 2013
Issue Date	:	9/5/2013
Test Result	:	☒ Pass ☐ Fail
Equipment complied with the specification [X]		
Equipment did not comply with the specification []		

This Test Report is Issued Under the Authority of:

	
Nima Molaei	David Zhang
Test Engineer	Engineer Reviewer

Issued By:

SIEMIC Laboratories
775 Montague Expressway, Milpitas, 95035 CA



TESTING CERT # 2742-01

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Test result presented in this test report is applicable to the representative sample only.

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Laboratory Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

Country/Region	Accreditation Body	Scope
USA	FCC, A2LA	EMC , RF/Wireless , Telecom
Canada	IC, A2LA, NIST	EMC, RF/Wireless , Telecom
Taiwan	BSMI , NCC , NIST	EMC, RF, Telecom , Safety
Hong Kong	OFTA , NIST	RF/Wireless , Telecom
Australia	NATA, NIST	EMC, RF, Telecom , Safety
Korea	KCC/RRA, NIST	EMI, EMS, RF , Telecom, Safety
Japan	VCCI, JATE, TELEC, RFT	EMI, RF/Wireless, Telecom
Mexico	NOM, COFETEL, Caniety	Safety, EMC , RF/Wireless, Telecom
Europe	A2LA, NIST	EMC, RF, Telecom , Safety

Accreditations for Product Certifications

Country	Accreditation Body	Scope
USA	FCC TCB, NIST	EMC , RF , Telecom
Canada	IC FCB , NIST	EMC , RF , Telecom
Singapore	iDA, NIST	EMC , RF , Telecom
EU	NB	EMC & R&TTE Directive
Japan	MIC (RCB 208)	RF , Telecom
HongKong	OFTA (US002)	RF , Telecom

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1 Report Revision History

Report No.	Report Version	Description	Issue Date
SL13070201-EQU-001-RF Exposure	Original	-	09/05/2013

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2 Executive Summary

The purpose of this test programme was to demonstrate compliance of the FCC, IC certified radio module, Electronic POS Terminal (FCC ID: NVA00008, IC ID: N/A), from Equinox Payments LLC, and Model: CFD, AIO, to be installed inside portable host unit of Abbott POC DragonFly Hand-held Blood Analyzer, against the current Stipulated Standards.

3 Customer information

Applicant Name	:	Equinox Payments LLC
Applicant Address	:	8901 E Raintree Dr., Suit 400, Scottsdale, AZ 85260
Manufacturer Name	:	Equinox Payments LLC
Manufacturer Address	:	8901 E Raintree Dr., Suit 400, Scottsdale, AZ 85260

4 Test site information

Lab performing tests	:	SIEMIC Laboratories
Lab Address	:	775 Montague Expressway, Milpitas, CA 95035
FCC Test Site No.	:	881796
IC Test Site No.	:	4842D-2
VCCI Test Site No.	:	A0133

5 Modification

Index	Item	Description	Note
-	-	-	-

6 EUT Information

6.1 EUT Description

Product Name	:	Electronic POS Terminal
Model No.	:	CFD, AIO
Trade Name	:	Equinox
Serial No.	:	B0232700061, B02133100003
Input Power	:	9VDC
Power Adapter Manu/Model	:	Equinox/MC28-09V 3.0A
Power Adapter SN	:	870082-001E
Hardware version	:	-
Software version	:	-
Date of EUT received	:	August 4th, 2013
Equipment Class/ Category	:	DXX, DSS
Clock Frequencies	:	26 MHz
Port/Connectors	:	-
Difference Between two models	:	- Slightly different dimensions for AIO to accommodate integral printer - AIO has printing capability and CFD does not have printing capability

6.2 Radio Description

Spec for Radio -

Radio Type	Normal Mode	EDR Mode
Operating Frequency	2402-2480 MHz	2402-2480 MHz
Modulation	GFSK	8-DPSK
Channel Spacing	1MHz	1MHz
Number of Channels	79 Ch.	79 Ch.
Antenna Type	Embedded antenna- Ethertronics	
Antenna Gain	Embedded antenna: 1.39 dBi (2.4GHz)	
Antenna Connector Type	Surface Mount	

7 MPE Calculation

RF Exposure Requirements:	47 CFR §1.1307(b)
RF Radiation Exposure Limits:	47 CFR §1.1310
RF Radiation Exposure Guidelines:	FCC OST/OET Bulletin Number 65
EUT Frequency Band:	2402-2483.5 MHz
Limits for General Population/Uncontrolled Exposure in the band of:	1500-100000 MHz
Power Density Limit:	1 mW / cm ²

Equation: $S = PG / 4\pi R^2$ or $R = \sqrt{PG / 4\pi S}$

Where, S = Power Density
P = Power Input to Antenna
G = Antenna Gain
R = distance to the center of radiated antenna

Prediction distance 20cm

Power = 4.48 dBm, Antenna gain = 1.39 dBi, Power density = 0.00124 mW/cm²

Maximum MPE is 0.00124 mW/cm², which is less than 1 mW / cm²;

The Above Result had shown that Device complied with MPE requirement.

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