

Aegex Technologies, LLC/100M

Page: 1 of 6

RF Exposure Report

Project Number: 5106021 Quotation Number: SUW-202301003949

Report Number: 5106021EMC02 Revision Level: 0

Client: Aegex Technologies, LLC

Equipment Under Test: Tablet

Model Name: Aegex100M

Model Number: 100M

FCC ID: Contains 2AGVY-100MWBXX01

Applicable Standards: 47 CFR §§ 2.1091 (Mobile)

FCC KDB 447498 D01 General RF Exposure Guidance v06

FCC OET Bulletin 65

Report issued on: 27 August 2024

Result: Compliant





FOR THE SCOPE OF ACCREDITATION UNDER CERTIFICATE NUMBER: 3212.01

Report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, or any agency of the Federal Government.

Prepared by:

Stephen C. Whalen, EMC/RF Lab Manager

Reviewed by:

Taniel Closery

Daniel Alvarez, RF/EMC Sr. Staff Engineer

Remarks: This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com//en/Terms-and-Conditions.aspx. And for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/terms-e-document.aspx.

Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for a maximum of 30 days only.



Aegex Technologies, LLC/100M

Page: 2 of 6

TABLE OF CONTENTS

1	GE	ENERAL INFORMATION	3
	1.1	CLIENT INFORMATION	
	1.1	TEST LABORATORY	
	1.3	GENERAL INFORMATION OF EUT	3
	1.4	OPERATING MODES AND CONDITIONS	3
2	RF	EXPOSURE	4
	2.1	TEST RESULTS	4
	2.2	TEST METHOD	
	2.3	SINGLE TRANSMISSION RF EXPOSURE LEVELS (MW/CM ²)	
	2.4	SIMULTANEOUS CONDITIONS	5
3	RF	TVISION HISTORY	•



Aegex Technologies, LLC/100M

Page: 3 of 6

1 General Information

1.1 Client Information

Name: Aegex Technologies, LLC

Address: 84 Peachtree Street NW

City, State, Zip, Country: Atlanta, Georgia, 30303, USA

1.2 Test Laboratory

Name: SGS North America, Inc.

Address: 620 Old Peachtree Road NW, Suite 100

City, State, Zip, Country: Suwanee, GA 30024, USA

Accrediting Body: A2LA

Type of lab: Testing Laboratory

Certificate Number: 3212.01

1.3 General Information of EUT

Type of Product: Tablet Model Number: 100M

Frequency Ranges: WLAN 2.4GHz: 2412 – 2484 MHz

WLAN 5GHz: 5160 – 5850 MHz Bluetooth: 2402 – 2480 MHz

WLAN Main Antenna Model: X1005 (W3006, Pulse), Ceramic chip 2.4/5GHz dual band

*Antenna Gain: 2.42GHz:2.0dBi, 5.15GHz: 3.2dBi, 5.51GHz 4.0dBi,

5.85GHz 5.0dBi

WLAN Aux/BT Antenna Model: X1000 (W3095 Pulse), Ceramic chip 2.4/5GHz dual band

*Antenna Gain: 2.4GHz:1.5dBi, 5.0GHz: 2.9dBi, 5.5GHz 3.9dBi, 6.0GHz 4.3dBi

Max Conducted Output Power: Bluetooth: 10.86 dBm

WLAN 2.4GHz: 16.0 dBm WLAN 5GHz: 10dBm

1.4 Operating Modes and Conditions

Maximum power levels were utilized for all calculations. Refer to table in section 2.4 for simultaneous combinations.

SGS North America Inc.

Connectivity & Products

620 Old Peachtree Road NW, Suite 100, Suwanee, GA 30024

t (770) 570-1800

^{*}Data was not measured by SGS laboratory and therefore not responsible for accuracy. Data obtained via customer, specification sheet, previous regulatory filing or other.



2 RF Exposure

2.1 Test Results

Test Description	Product Specific Standard	Test Result		
RF Exposure	FCC Part 1.1310	Compliant		

2.2 Test Method

The formula below calculates power density.

$$S = \frac{PG}{4\pi R^2}$$
 $S = \frac{EIRP}{4\pi R^2}$

Where;

S = Power density (mW/cm^2)

P = Maximum sourced based average power delivered to antenna port (mW)

G = Maximum power gain of the antenna in the direction of interest relative to an isotropic radiator (dBi)

R = Distance between by-stander and antenna (cm)

EIRP = Equivalent (or effective) isotropically radiated power

2.3 Single transmission RF Exposure Levels (mW/cm²)

FCC - Main Antenna

Band of Operation		Conducted Power w/tolerance	Antenna Gain	Cable Loss	Averag	e EIRP	Distance (R)	Power Density EIRP _{Avg} /(4πR²)	FCC	% of Limit	Verdict
Туре	MHz	dBm			dBm	mW	cm	mW/cm ²	mW/cm ²		
WLAN 2.4	2400-2483.5	16.0	2.0	0.0	18.0	63	20	0.013	1.00	1%	Pass
WLAN 5 GHz (UNII-1)	5150-5250	10.0	3.2	0.0	13.2	21	20	0.004	1.00	0%	Pass
WLAN 5 GHz (UNII-2)	5250-5700	10.0	4.0	0.0	14.0	25	20	0.005	1.00	0%	Pass
WLAN 5.8 GHz (UNII-3)	5725-5850	10.0	5.0	0.0	15.0	32	20	0.006	1.00	1%	Pass

FCC - Aux Antenna

Band of Operation		Conducted Power w/tolerance	Antenna Gain	Cable Loss	Averag	je EIRP	Distance (R)	Power Density EIRP _{Avg} /(4πR ²)	FCC	% of Limit	Verdict
Type	MHz	dBm			dBm	mW	cm	mW/cm ²	mW/cm ²		
WLAN 2.4	2400-2483.5	16.0	1.5	0.0	17.5	56	20	0.011	1.00	1%	Pass
Bluetooth	2400-2483.5	10.9	1.5	0.0	12.4	17	20	0.003	1.00	0%	Pass
WLAN 5 GHz (UNII-1)	5150-5250	10.0	2.9	0.0	12.9	19	20	0.004	1.00	0%	Pass
WLAN 5 GHz (UNII-2)	5250-5700	10.0	3.9	0.0	13.9	25	20	0.005	1.00	0%	Pass
WLAN 5.8 GHz (UNII-3)	5725-5850	10.0	4.3	0.0	14.3	27	20	0.005	1.00	1%	Pass

SGS North America Inc.



2.4 Simultaneous Conditions

Simultaneous transmissions are evaluated using the equation and highest results from each technology.

$$\frac{S_1}{S_1 \; Limit} + \frac{S_2}{S_2 \; Limit} ... + \frac{S_n}{S_n \; Limit} \leq 1.0$$

Simulaneous TX Antenna Combination							
Main	Aux						
WLAN 5GHz	WLAN 5GHz						
WLAN 5GHz	WLAN 5GHz + BT						
WLAN 5GHz	ВТ						
WLAN 2.4GHz	WLAN 2.4GHz						
WLAN 2.4GHz	ВТ						

WLAN 5GHz + WLAN 5GHz + BT < 1.0 1% + 1% + 0% < 100%



Aegex Technologies, LLC/100M

Page: 6 of 6

3 Revision History

Revision Level	Description of changes	Revision Date
0	Initial Release	27 August 2024

SGS North America Inc.