



Page: 1 of 6

RF Exposure Report

Report Number: 208745-8 Revision Level: 1

Client: Trackonomy Systems, Inc.

214 Devcon Dr. San Jose, CA 95112

Equipment Under Test: Multifunctional IoT Platform Sensor Device

Model Number: GBP-3001

FCC ID: 2AXA8-GBP-3001

Applicable Standards: 47 CFR § 2.1091

FCC KDB 447498 D01 General RF Exposure Guidance v06

Report issued on: June 25, 2024

Result: Compliant



FOR THE SCOPE OF ACCREDITATION UNDER CERTIFICATE NUMBER: 1935.01

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.

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Reviewed by:

Alex Chang, Sr. Regulatory Laboratory Manager –

TABLE OF CONTENTS

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Page: 2 of 6

1	GENERAL INFORMATION
1.1	
1.2	
1.3	
1.4	
2	RF EXPOSURE
2.1	
2.2	
2.3	B LIMITS
2.4	SINGLE TRANSMISSION RF EXPOSURE LEVELS (MW/cm²)
2.5	
3	REVISION HISTORY



Page: 3 of 6

1 General Information

1.1 Client Information

Name: Trackonomy Systems, Inc.

Address: 214 Devcon Dr.

City, State, Zip, Country: San Jose, CA 95132

1.2 Test Laboratory

1.3

Name: SGS North America, Inc.

Address: 12310 World Trade Drive, Suite 106/107

City, State, Zip, Country: San Diego, CA 92128, USA

Accrediting Body: A2LA

Type of lab: Testing Laboratory

Certificate Number: 1935.01 Designation ID US1346 CAB ID: US0236

General Information of EUT

Type of Product: Multifunctional IoT Platform Sensor Device

Model Number: GBP-3001 Serial Number: N/A

Frequency Ranges: 2402 – 2480 MHz Antenna Model 2J6C86BCFc

Antenna Type Radome - Screw Mount
Antenna Gain*: 4.2 dBi (Peak max.)

Max Conducted Output Power: 6.26 dBm (Peak)

1.4 Operating Modes and Conditions

Maximum power levels were utilized for all calculations. Single transmission only.

SGS North America Inc.

Connectivity & Products

12310 World Trade Drive, Suite 106-107, San Diego, CA 92128

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



Page: 4 of 6

2 RF Exposure

2.1 Test Results

Test Description	Product Specific Standard	Test Result
RF Exposure	FCC Part 2.1091 FCC KDB 447498 D01	Compliant

2.2 Test Method

The formula below calculates power density.

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

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) (numerical value)

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

EIRP = Equivalent (or effective) isotropically radiated power

2.3 Limits

The table below shows the limits applicable for equipment subject to FCC §2.1091 and FCC KDB 447498 D01.

Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power Density (mW/cm²)	Averaging Time (Minutes)
0.3 – 1.34	614	20.4	*(100)	30
1.34 - 30	824/f	26.97	*(180/f²)	30
30 - 300	27.5	33.62	0.2	30
300 - 1500	/	/	f/1500	30
1500 – 100,000	/	1	1.0	30

f = frequency in MHz

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^{* =} Plane-wave equivalent power density



Page: 5 of 6

2.4 Single transmission RF Exposure Levels (mW/cm²)

2.4 GHz band, BLE per FCC KDB 447498 D01

Freq.	Antenna Gain		Tune up conducted power		Evaluation Distance	Power Density	MPE Limit
(MHz)	(dBi)	numerical	(dBm)	(mW)	(cm)	(mW/cm²)	(mvv/cm-)
2480	4.2	2.63	7	5.01	25	0.002	1

2.5 Simultaneous Conditions

N/A

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Page: 6 of 6

3 Revision History

Revision Level	Description of changes	Revision Date
1	Initial release	June 25, 2024