



element

Agility Robotics, Inc.

Digit V4 EVT

FCC 2.1091:2025

900 MHz (Digi)

900 MHz (Doodle Labs)

Wi-Fi

Report: AGRO0019.4, Issue Date: August 19, 2025



This report must not be used to claim product certification, approval, or endorsement by A2LA, NIST, or any agency of the U.S. Government. This Report shall not be reproduced, except in full without written approval of the laboratory.

TABLE OF CONTENTS

Section	Page Number
Certificate of Evaluation	3
Revision History	4
Facilities	5
Product Description	6
Exposure Condition	7
Maximum Permissible Exposure	8
End of Report	11

CERTIFICATE OF EVALUATION

Last Date of Evaluation: August 19, 2025
Agility Robotics, Inc.
EUT: Digit V4 EVT

RF Exposure Evaluation

Standards

Specification	Method
FCC 2.1091:2025	FCC 447498 D01 General RF Exposure Guidance v06

Results

Method Clause	Description	Applied	Results	Comments
7.2	Maximum Permissible Exposure	yes	Compliant	None

Compliance distance: 20 cm

Deviations From Evaluation Standards

None

Approved By:



Donald Facteau, Process Architect

Product compliance is the responsibility of the client; therefore, the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test. This report reflects only those tests from the referenced standards shown in the certificate of test. It does not include inspection or verification of labels, identification, marking or user information. As indicated in the Statement of Work sent with the quotation, Element's standard process is to always use the latest published version of the test methods even when earlier versions are cited in the test specification. Issuance of a purchase order was de facto acceptance of this approach. Otherwise, the client would have advised Element in writing of the specific version of the test methods they wanted applied to the subject testing

REVISION HISTORY



Revision Number	Description	Date (yyyy-mm-dd)	Page Number
00	None		

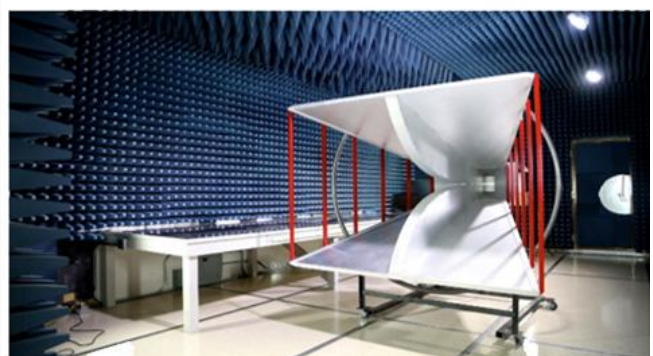
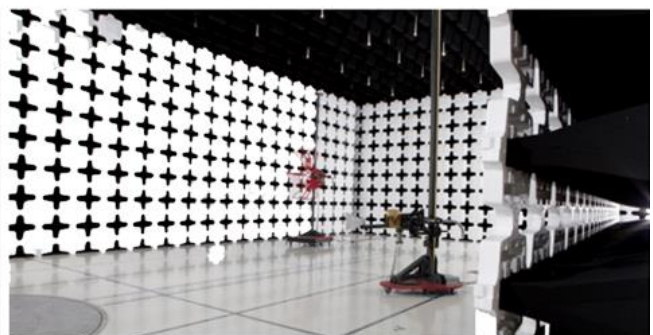
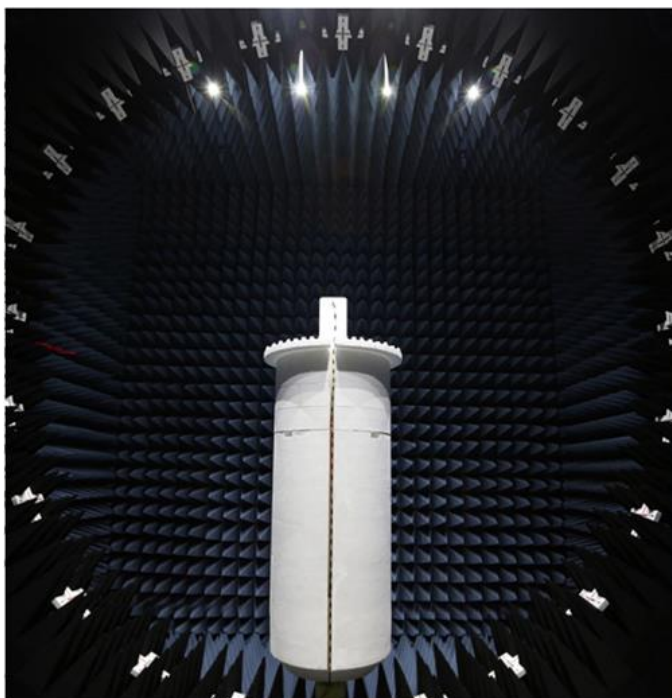
FACILITIES

Testing was performed at the following location(s)

	Location	Labs ⁽¹⁾	Address	A2LA ⁽²⁾	ISED ⁽³⁾	BSMI ⁽⁴⁾	VCCI ⁽⁵⁾	CAB	FDA ⁽⁶⁾
<input type="checkbox"/>	California	OC01-17	41 Tesla Irvine, CA 92618 (949) 861-8918	3310.04	2834B	SL2-IN-E-1154R	A-0029	US0158	TL-55
<input type="checkbox"/>	Minnesota	MN01-11	9349 W Broadway Ave. Brooklyn Park, MN 55445 (612) 638-5136	3310.05	2834E	SL2-IN-E-1152R	A-0109	US0175	TL-57
<input checked="" type="checkbox"/>	Oregon	EV01-12	6775 NE Evergreen Pkwy #400 Hillsboro, OR 97124 (503) 844-4066	3310.02	2834D	SL2-IN-E-1017	A-0108	US0017	TL-56
<input type="checkbox"/>	Washington	NC01-05	19201 120th Ave NE Bothell, WA 98011 (425) 984-6600	3310.06	2834F	SL2-IN-E-1153R	A-0110	US0157	TL-67
<input type="checkbox"/>	Offsite	N/A	See Product Description	N/A	N/A	N/A	N/A	N/A	N/A

See data sheets for specific labs

- (1) The lab designations denote individual rooms within each location. (OC01, OC02, OC03, etc.)
- (2) A2LA Certificate No.
- (3) ISED Company No.
- (4) BSMI No.
- (5) VCCI Site Filing No.
- (6) FDA ASCA No.



PRODUCT DESCRIPTION



Client and Equipment Under Evaluation Information

Company Name:	Agility Robotics, Inc.
Address:	32114 Mallard Ave, Bldg 52
City, State, Zip:	Tangent, OR 97389
Evaluation Requested By:	Anish Mathew
EUT:	Digit V4 EVT
Date of Evaluation:	8/19/2025

Information Provided by the Party Requesting the Evaluation

Functional Description of the Equipment:
Robot with FCC ID: PD9AX210D2 (2.4 and 6 GHz Wi-Fi), FCC ID: 2AG87RM1700-1N (SubGHz), FCC ID: MCQ-XB900HP (SubGHz SRD FHSS)

Objective:
To demonstrate compliance with FCC requirements for RF exposure for 2.1091 mobile/fixed devices

RF EXPOSURE CONDITION

The following RF Exposure conditions were used for the assessment documented in this report:	
Intended Use	Mobile
Location on Body (if applicable)	n/a
How is the Device Used	The Digit V4 EVT is used at a distance greater than 20 cm from the user
Radios Contained in the Same Host Device	900 MHz (Digi) 900 MHz (Doodle Labs) Wi-Fi
Simultaneous Transmitting Radios	900 MHz (Digi), 900 MHz (Doodle Labs), Wi-Fi
Body Worn Accessories	n/a
Environment	General Population/Uncontrolled Exposure

MAXIMUM PERMISSIBLE EXPOSURE (MPE)

OVERVIEW

Human exposure to RF emissions from mobile devices (47 CFR §2.1091) may be evaluated based on the MPE limits adopted by the FCC for electric and magnetic field strength and/or power density, as appropriate, since exposures are assumed to occur at distances of 20 cm or more from persons. IEEE C95.1:2019 specifies a minimum separation distance of 20 cm for performing reliable field measurements to determine adherence to MPE limits. If the minimum separation distance between a transmitter and nearby persons is more than 20 cm under normal operating conditions, compliance with MPE limits may be determined at such distance from the transmitter. The field strength and power density limits adopted by the FCC are based on whole-body averaged exposure and the assumption of RF field levels relate most accurately to estimating whole-body averaged SAR. This means some local values of exposures exceeding the stated field strength and power density limits may not necessarily imply non-compliance if the spatial average of spatially averaged RF fields over the exposed portions of a person's body does not exceed the limits.

COMPLIANCE WITH FCC REQUIREMENTS IN 47 CFR §2.1091

47 CFR §2.1091

"A mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the RF source's radiating structure(s) and the body of the user or nearby persons. In this context, the term "fixed location" means that the device is physically secured at one location and is not able to be easily moved to another location while transmitting. Transmitting devices designed to be used by consumers or workers that can be easily re-located, such as wireless devices associated with a personal desktop computer, are considered to be mobile devices if they meet the 20-centimeter separation requirement."

The device will only be used with a separation distance between the antenna and the body of the user or nearby persons as shown in the table below and can therefore be considered a mobile transmitter per 47 CFR 2.1091(b).

COMPLIANCE WITH FCC KDB 447498 D01 General RF Exposure Guidance v06

"KDB 447498 D01 General RF Exposure Guidance v06" provides the procedures, requirements, and authorization policies for mobile and portable devices.

Devices operating in standalone mobile device exposure conditions may contain a single transmitter or multiple transmitters that do not transmit simultaneously are covered in section 7.1. Devices containing multiple transmitters capable of simultaneous transmissions are covered in section 7.2.

By meeting the requirements in sections 7.1 and 7.2, as applicable, mobile equipment meets the requirements of 47 CFR §1.1310.

LIMITS

Limits for General Population /Uncontrolled Exposure: 47 CFR §1.1310

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
0.3 - 1.34	614	1.63	*(100)	30
1.34 - 30	824/f	2.19/f	*(180/f ²)	30
30 - 300	27.5	0.073	0.2	30
300 - 1500			f/1500	30
1500 - 100000			1	30

f = frequency in MHz

* = Plane-wave equivalent power density

MAXIMUM PERMISSIBLE EXPOSURE (MPE)



POWER DENSITY

The exposure level for the radio is evaluated at a 20 cm distance from the radio's transmitting antenna using the general equation:

$$S = \frac{P * G}{4 * \pi * R^2}$$

Where: S = power density (mW/cm²)

P = power input to the antenna (mW)

G = numeric power gain relative to an isotropic radiator

R = distance to the center of the radiation of the antenna (20 cm = limit for MPE estimates)

P*G = EIRP

Solving for S, the maximum power density 20 cm from the transmitting antenna is determined. This level is then compared to the applicable limit for the transmit frequency. If limits were not met at the 20 cm boundary the evaluation distance is increased until the limit is met as shown in the table below.

For co-located radios, the ratio of the calculated level to the limit is determined. The ratios for each co-located radio are summed. If the sum is less than or equal to one, then the device is excluded from testing and is deemed compliant.

MAXIMUM PERMISSIBLE EXPOSURE (MPE)



ASSESSMENT

The standalone MPE and summed MPE ratios are summarized in the following tables:

Radio	Frequency Range (MHz)	Conducted Output Power	Power Tolerance (dB)	Duty Cycle	Antenna Assembly Gain (dBi)	Minimum Separation Distance (cm)	Calculated Power Density (mW/cm ²)	Limit (mW/cm ²)	Ratio
900 MHz (Doodle Labs)	907-923	20.55 dBm	1.0	100.0%	2.6	20	0.1	0.6	0.09
Max Ratio									0.09

The information in the table above was obtained from:

A measured value was used in these calculations. From Element Report AGRO0019.1 Rev 1 and customer supplied information

Radio	Frequency Range (MHz)	Conducted Output Power	Power Tolerance (dB)	Duty Cycle	Antenna Assembly Gain (dBi)	Minimum Separation Distance (cm)	Calculated Power Density (mW/cm ²)	Limit (mW/cm ²)	Ratio
900 MHz (Digi)	902-928	2.1 dBm	0.0	100.0%	2.1	20	0.0	0.6	0.00
Max Ratio									0.00

The information in the table above was obtained from:

The rated value was used in these calculations. From customer supplied information and DIGI XBEE-PRO 900HP Specification sheet.

Radio	Frequency Range (MHz)	Conducted Output Power	Power Tolerance (dB)	Duty Cycle	Antenna Assembly Gain (dBi)	Minimum Separation Distance (cm)	Calculated Power Density (mW/cm ²)	Limit (mW/cm ²)	Ratio
Wi-Fi: 6 GHz	5925-7125	13.5 dBm	0.0	100.0%	5.34	20	0.0	1.0	0.02
Wi-Fi: 2.4 GHz	2412-2462	21 dBm	0.0	100.0%	3.24	20	0.1	1.0	0.05
Max Ratio									0.05

The information in the table above was obtained from:

The rated value was used in these calculations. The output power and antenna gain come from reports filed for FCC ID PD9AX210D2

Sum of Max Ratio	Limit	Compliant
0.14	1.00	Yes

Evaluator: Nolan De Ramos

End of Test Report