

Test report No: 6238587.52

ASSESSMENT REPORT

RF Exposure Evaluation

Identification of item tested	SPEED AND CADENCE SENSORS
Trademark	DECATHLON
Model and /or type reference	KIT202
Model Code	4494949
Features	Battery: 3 Vdc
FCC ID	2A8UO- KIT202
Applicant's name / address	DECATHLON AMERICA LLC 275 Battery Street, Suite 480, San Francisco, California 94111, United States
Test method requested, standard	FCC CFR Title 47 Part 2 Subpart J Section 2.1093 IEEE Std C95.3:2002
Verdict Summary	IN COMPLIANCE
Prepared by (name / position & signature)	Adrian Shi Technical Supervisor 
Approved by (name / position & signature)	Lei Chen Senior Project Manager 
Date of issue	2026-03-25
Report template No	TRF_MPE_RF02 V1.0

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COMPETENCES AND GUARANTEES

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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GENERAL CONDITIONS

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
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5. The information provided by the customer in this report may affect the validity of the results, the test lab is not responsible for it.
6. This report will not be used for social proof function in China market.

ENVIRONMENTAL CONDITIONS

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:

Ambient temperature	15 °C – 35 °C
Relative Humidity air	30% - 60%
Atmospheric pressure	86 kPa – 106 kPa

If explicitly required in the basic standard or applied product / product family standard the climatic values are recorded and documented separately in this test report.

POSSIBLE TEST CASE VERDICTS

Test case does not apply to test object	N/A
Test object does meet requirement	P (Pass) / PASS
Test object does not meet requirement	F (Fail) / FAIL
Not measured	N/M

DEFINITION OF SYMBOLS USED IN THIS TEST REPORT

☒ Indicates that the listed condition, standard or equipment is applicable for this report/test/EUT.			
☐ Indicates that the listed condition, standard or equipment is not applicable for this report/test/EUT.			
Decimal separator used in this report	☒	Comma (,)	☐ Point (.)

ABBREVIATIONS

For the purposes of the present document, the following abbreviations apply:

EUT	: Equipment Under Test
QP	: Quasi-Peak
CAV	: CISPR Average
AV	: Average
CDN	: Coupling Decoupling Network
SAC	: Semi-Anechoic Chamber
OATS	: Open Area Test Site
BW	: Bandwidth
AM	: Amplitude Modulation
PM	: Pulse Modulation
HCP	: Horizontal Coupling Plane
VCP	: Vertical Coupling Plane
U_N	: Nominal voltage
Tx	: Transmitter
Rx	: Receiver
N/A	: Not Applicable
N/M	: Not Measured

DOCUMENT HISTORY

Report nr.	Date	Description
6238587.52	2026-03-25	First release.

REMARKS AND COMMENTS

The equipment under test (EUT) does meet the essential requirements of the stated standard(s)/test(s).

The test results relate only to the samples tested.

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1 GENERAL INFORMATION

1.1 General Description of the Item(s)

Description of the item	SPEED AND CADENCE SENSORS
Model / Type number	KIT202
Model Code.....	4494949
S/N	367025170002
Trademark.....	DECATHLON
FCC ID	2A8UO-KIT202
Test Sample Number	6238587-1
Hardware Version	V1.0
Software Version	0.104
Manufacturer.....	DECATHLON SE 4 boulevard de Mons 59650 Villeneuve D'Ascq FRANCE

Mode of Operation	Bluetooth BLE					
Operating frequency range(s).....	2402~2480 MHz					
Type of Modulation	GFSK					
PHYs	☒	LE 1M	☒	LE 2M	☐	LE Coded S=2/8
Data Rate	☒	1 Mbps	☒	2 Mbps	☐	500/125 Kbps
Antenna type.....	PCB Antenna					
Antenna gain.....	0 dBi					
Number of channel	40					
Operating Temperature Range.....	-10 ~ 40℃					

Note: Antenna information was provided from applicant.

Mode of Operation	SRD					
Operating frequency range(s).....	2457 MHz					
Type of Modulation	FSK					
Number of Channel.....	1					
Antenna Type	PCB Antenna					
Antenna Gain	0 dBi					
Operating Temperature Range.....	-10 ~ 40℃					

Note: Antenna information was provided from applicant.

Rated power supply	Voltage and Frequency		Reference poles				
			L1	L2	L3	N	PE
	☐	AC:	☐	☐	☐	☐	☐
	☐	DC:					
	☒	Battery: 3 Vdc					
Mounting position.....:	☐	Table top equipment					
	☐	Wall/Ceiling mounted equipment					
	☒	Floor standing equipment					
	☐	Hand-held equipment					
	☐	Other:					

Intended use of the Equipment Under Test (EUT)
The product is SPEED AND CADENCE SENSORS which supports bluetooth and 2.4G ANT+ function.

1.2 Test Facility

FCC Designation Number	:	CN1358
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2 Single RF sources

2.1 FCC Limit

According to FCC KDB 447498 D04V01-SAR-Based Exemption

The available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

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

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

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

d = the separation distance (cm);

The example values shown in below table are for illustration only.

Table 1 - Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)									
	5	10	15	20	25	30	35	40	45	50
300	39	65	88	110	129	148	166	184	201	217
450	22	44	67	89	112	135	158	180	203	226
835	9	25	44	66	90	116	145	175	207	240
1900	3	12	26	44	66	92	122	157	195	236
2450	3	10	22	38	59	83	111	143	179	219
3600	2	8	18	32	49	71	96	125	158	195
5800	1	6	14	25	40	58	80	106	136	169

FCC:

Mode	Frequency Range (MHz)	Conducted Peak Output Power (dBm)	Conducted Peak Output Power (mW)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	ERP (mW)	Distance (mm)	FCC Exclusion threshold (mW)	Exemption
BLE	2402 ~ 2480	3.08	2.032	0	3.08	0.93	1.238	5	3	Complies
ANT	2402 ~ 2480	2.46	1.761	0	2.46	0.31	1.073	5	3	Complies

Note: The product does not support the simultaneous transmission function

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