

RAPPORTO DI PROVA

TEST REPORT

Ref. N.	TSupPhotos_FCC181667-0	Data Emissione /Issue Date:	28/10/2022	Pagine / Pages:	6
Scopo delle prove Test object	Prove di tipo in accordo alla Norme <i>Type test according to Standards</i> 47 CFR FCC part 15 - Subpart C - §15.247 ISED – RSS 247				
Richiedente Applicant	Italtractor ITM S.p.a. Via confortino 30, 40056 Valsamoggia (BO) loc. Crespellano				
Marchio commerciale Trade mark					
Fabbricante Manufacturer	Italtractor ITM S.p.a. Via confortino 30, 40056 Valsamoggia (BO) loc. Crespellano				
Prodotto Product	Sensor BLE				
Modello Model	TCKT50050				
Identificativo FCC FCC ID	2A845000TCKTX				
Data ricevimento campioni Date of test samples receipt	30/06/2022				
Campioni verificati No. of tested samples	1 – Sampled by the applicant				
Data verifiche Testing date	From 07/07/2022 to 30/08/2022				
Sito di prova Testing site	PRSLAB S.r.l. Unipersonale - Via Campagna 92 - 22020 Faloppio - Como - Italy				
Identificativo FCC del sito di prova FCC designation number	IT0012				
Esito delle valutazioni Assessment results	CONFORME / COMPLIANT				
Verifiche effettuate da Verifications carried out by	Daniele AOSANI Tecnico Laboratorio Laboratory Engineer				
Approvato Approved by	Riccardo PFEIFFER Responsabile di Laboratorio Laboratory Manager				

I risultati delle prove riportati nel presente rapporto di prova si riferiscono solo ai campioni esaminati.

The test results reported in this test report shall refer only to the samples tested.

Il campione è stato fornito dal cliente ed i risultati si riferiscono al campione così come ricevuto

The sample has been provided by the customer and the results apply to the sample as received

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0. RELEASE CONTROL RECORD

TEST REPORT NUMBER	REASON OF CHANGE	DATE OF ISSUE
TSupPhotos_FCC181667-0	Original release	28/10/2022

This document is valid in last revision that deletes and replaces the previous one

1. TECHNICAL INFORMATION OF EQUIPMENT UNDER TEST (EUT)

1.1 EUT Identification

DESCRIPTION	Sensor BLE
TESTED MODEL	TCKT50050
SERIAL NO.	Prototype
PRS LAB INTERNAL REFERENCE	BC 205/2022 2/3
TRADEMARK	
MANUFACTURER	Italtractor ITM S.p.a
COUNTRY OF MANUFACTURER	Italy
SINGLE UNIT OR SYSTEM	Single
POWER SOURCE	Internal battery (CR2450A, Lithium battery)
POWER SUPPLY NOMINAL VOLTAGE	3Vdc
BATTERY CAPACITY	560mAh
OPERATING TEMPERATURE	-40°C ÷ +85°C
MAX FREQUENCY	>1GHz
FIRMWARE VERSION (Information provided by Customer)	1.3V
DIMENSIONS	See photographic section.
EUT STANDING	Vehicle

1.1 Bluetooth Low Energy module technical data

CHIP MANUFACTURER	 NORDIC SEMICONDUCTOR
CHIP TYPE	nRF52811
ETS CATEGORY	Bluetooth Low Energy
FREQUENCY BAND	Unlicensed 2.4GHz ISM band at 2400-2483.5 MHz
NUMBER OF CHANNELS	40
CHANNEL BANDWIDTH	2MHz
CHANNEL SEPARATION	2MHz
TRANSFER RATE	1Mbps
SENSITIVITY	-97dBm
TYPE OF MODULATION	Frequency-shift Keying (FSK) modulation
ANTENNA	ACAG0301-2450-T
ANTENNA GAIN (Information provided by Customer)	5.19dBi
ANTENNA TYPE	SMD
ANTENNA MANUFACTURER	 ABRACON

1.1.1 Channel List Bluetooth Low Energy

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY	CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

2. PHOTOGRAPHIC DOCUMENTATION

PHOTO N° 1 – EUT IDENTIFICATION

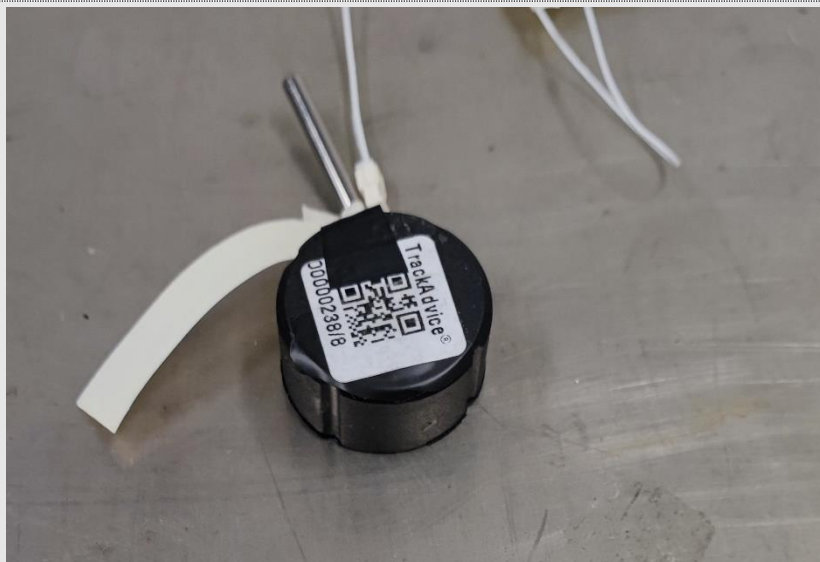


PHOTO N° 2 – RADIATED TEST SETUP



END OF TEST REPORT