




## TEST REPORT

Ref. n.	<b>TSupPhotos_FCC183525-0</b>	Issue Date:	<b>26/10/2023</b>	Pages:	<b>10</b>
Test object	<i>Type test according to Standards</i> <b>47 CFR FCC part 15.247</b>				
Applicant	<b>DATALOGIC S.r.l.</b> Via S. Vitalino 13 - 40012 Lippo Di Calderara Di Reno - Bologna - Italy Phone. +39 051 3147196 Fax +39 051 3147561				
Trade mark					
Manufacturer	DATALOGIC S.r.l.				
Product	Bluetooth radio module				
Tested model	<b>BT-MRY-A1</b>				
FCC Identification number	<b>U4FBT-MRY-A1</b>				
Date of test samples receipt	02/10/2023				
No. of tested samples	1 – Sampled by the manufacturer				
Test date	From 02/10/2023 to 10/10/2023				
Testing site	PRSLAB S.r.l. Unipersonale - Via Campagna 92 - 22020 Faloppio - Como - Italy				
FCC designation number	IT0012				
Test results	<b>CONFORME / COMPLIANT</b>				
Verifications carried out by	<b>Daniele AOSANI</b> Laboratory Engineer				
Approved by	<b>Riccardo PFEIFFER</b> Laboratory Manager				

The test results reported in this test report shall refer only to the samples tested.  
The sample has been provided by the customer and the results apply to the sample as received.  
This report may not be partially reproduced, except with the prior written permission of the issuing Laboratory.  
PRSLAB refuses any responsibility about information provided by the customer contained in this test report.

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### 0. RELEASE CONTROL RECORD

TEST REPORT NUMBER	REASON OF CHANGE	DATE OF ISSUE
TSupPhotos_FCC183525-0	Original release	26/10/2023


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

<b>DESCRIPTION</b>	Bluetooth radio module
<b>MODEL NAME</b>	BT-MRY-A1
<b>FCC ID</b>	U4FBT-MRY-A1
<b>SERIAL NO.</b>	B23PAAGRU
<b>PRS LAB INTERNAL REFERENCE</b>	BC 264/2023 3/4
<b>TRADEMARK</b>	
<b>MANUFACTURER</b>	DATALOGIC S.r.l.
<b>COUNTRY OF MANUFACTURER</b>	Italy
<b>SINGLE UNIT OR SYSTEM</b>	Single
<b>POWER SOURCE</b>	DC power from board
<b>SUPPLY VOLTAGE</b>	1.8Vdc  3.3Vdc 
<b>MAX POWER OR MAX ABSORBED CURRENT</b>	70mA
<b>OPERATING TEMPERATURE</b>	-30°C ~ +85°C
<b>HARDWARE VERSION</b> (Information provided by Customer)	A
<b>FIRMWARE VERSION</b> (Information provided by Customer)	A
<b>DIMENSIONS</b>	See photographic documentation
<b>EUT STANDING</b>	<input checked="" type="checkbox"/> WALL; <input type="checkbox"/> CEILING; <input checked="" type="checkbox"/> TABLE; <input type="checkbox"/> FLOOR; <input type="checkbox"/> RACK MOUNTED; <input type="checkbox"/> BODY WORN; <input type="checkbox"/> HANDELD; <input checked="" type="checkbox"/> PORTABLE; <input type="checkbox"/> MOBILE
<b>HIGHEST INTERNAL FREQUENCY</b> (Information provided by Customer)	<input type="checkbox"/> <108MHz; <input type="checkbox"/> 108MHz<F<500MHz; <input type="checkbox"/> 500MHz<F<1GHz; <input checked="" type="checkbox"/> F>1GHz; F = 2480MHz


## 1.2 Bluetooth Low Energy module technical data

<b>MODULE MANUFACTURER</b>	
<b>CHIP MANUFACTURER</b>	CYPRESS
<b>CHIP TYPE</b>	CYW20706
<b>ETS CATEGORY</b>	Bluetooth Low Energy
<b>TYPE OF RADIO DEVICE</b>	Transceiver
<b>FREQUENCY BAND</b>	2400 – 2483.5MHz
<b>NUMBER OF CHANNELS</b>	40
<b>CHANNEL BANDWIDTH</b>	2MHz
<b>CHANNEL SPACING</b>	2MHz
<b>TYPE OF MODULATION</b>	GFSK
<b>SENSITIVITY</b>	-96.5dBm
<b>TRANSFER RATES (Mbit/s)</b>	Up to 1
<b>ANTENNA TYPE</b> (Information provided by Customer)	PCB Antenna
<b>ANTENNA GAIN</b> (Information provided by Customer)	+0.5dBi

### 1.2.1 Channel List Bluetooth Low Energy

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

### 1.3 Classic Bluetooth module technical data

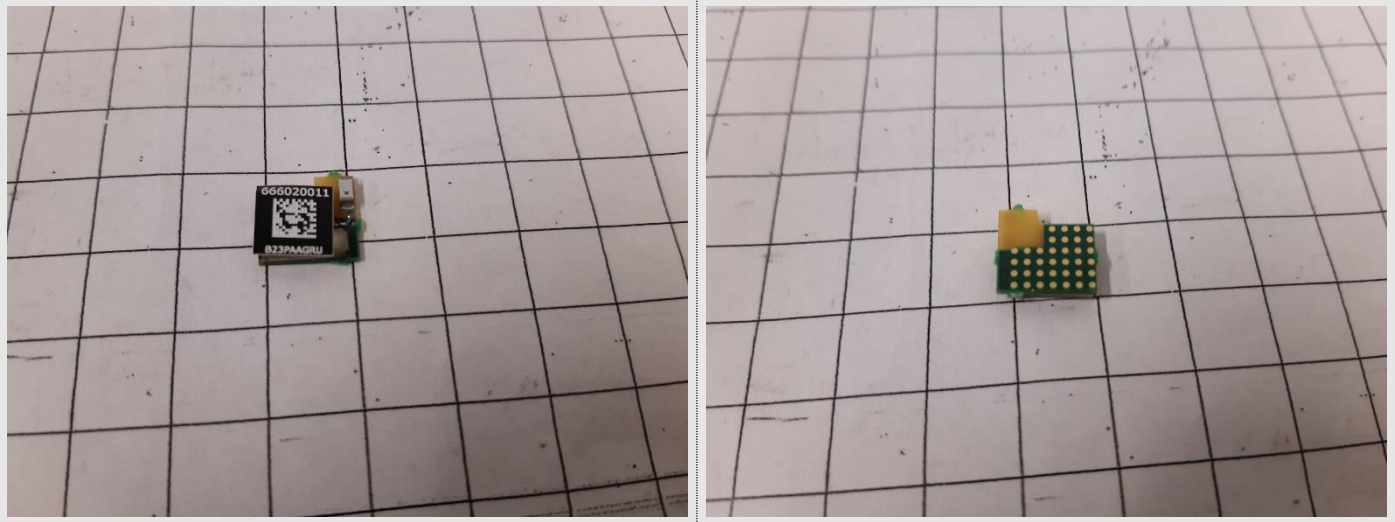
<b>MODULE MANUFACTURER</b>			
<b>CHIP MANUFACTURER</b>	CYPRESS		
<b>CHIP TYPE</b>	CYW20706		
<b>ETS CATEGORY</b>	Classic Bluetooth - Basic Rate & Enhanced Data Rate		
<b>TYPE OF RADIO DEVICE</b>	Transceiver		
<b>FREQUENCY BAND</b>	2400 – 2483.5MHz		
<b>NUMBER OF CHANNELS</b>	79		
<b>CHANNEL BANDWIDTH</b>	1MHz		
<b>CHANNEL SPACING</b>	1MHz		
<b>MODE</b>	Basic Rate mode (BR)		Enhanced Data Rate (EDR)
<b>TYPE OF MODULATION</b>	GFSK	$\pi/4$ -DQPSK	8DQPSK
<b>PACKET TYPE</b>	DH5	2DH5	3DH5
<b>SENSITIVITY</b>	-89.5dBm		
<b>TRANSFER RATES (Mbit/s)</b>	Up to 3		
<b>ANTENNA TYPE</b> (Information provided by Customer)	PCB Antenna		
<b>ANTENNA GAIN</b> (Information provided by Customer)	+0.5dBi		

### 1.3.1 Classic Bluetooth Channels list

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY	CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		

## 2. PHOTOGRAPHIC DOCUMENTATION

**PHOTO N° 1 - EUT IDENTIFICATION**

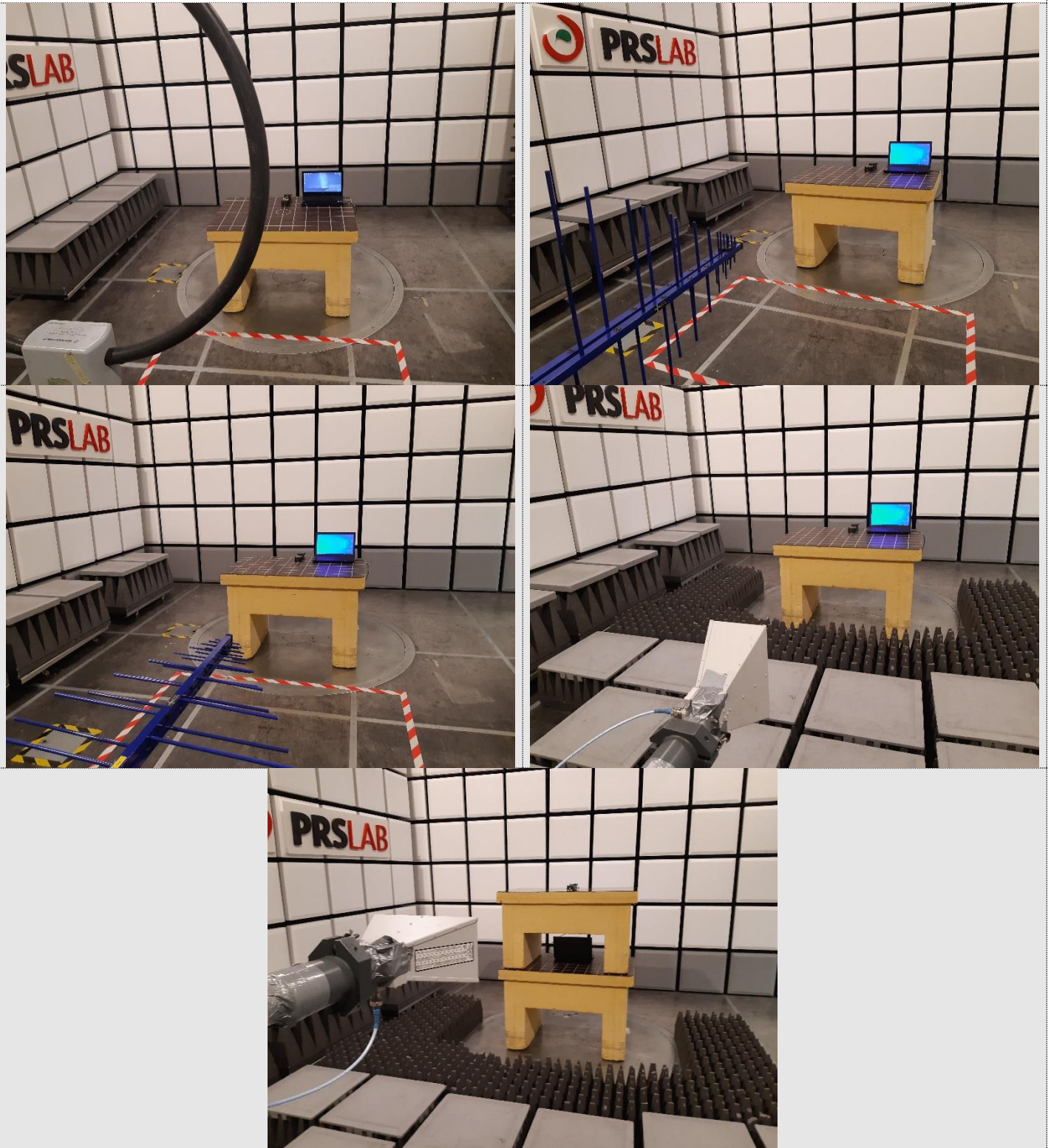


**PHOTO N° 2 – AUXILIARY BOARD IDENTIFICATION**





PHOTO N° 3 - RADIATED EMISSION TEST SETUP



**END OF TEST REPORT**