

RF EXPOSURE TEST REPORT

Applicant	Datalogic S.r.l.
Address	Via San Vitalino, 13 - 40012 Lippo di Calderara di Reno (BO) – Italy

Manufacturer or Supplier	NuVolta Technologies (Hefei) Co., Ltd.
Address	Room 605/606, No.2800, Building F-1, Innovation Industrial Park Phase 2, Innovation Avenue, High-tech Zone, Hefei, Anhui, PRC.
Product	Wireless Charging Module
Brand Name	Datalogic
Model	MODNVWLC
Additional Model & Model Difference	N/A
Date of tests	Oct. 20, 2025~ Nov. 13, 2025

The submitted sample of the above equipment has been tested according to the requirements of the following standard:

- ☒ 47 CFR PART 1, Subpart I, Section 1.1310
- ☒ KDB 680106 D01 V04

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Eric Fang Project Engineer / EMC Department	Approved by Glyn He Assistant Manager/ EMC Department
	
	Date: Nov. 20, 2025

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Test Report No.: FM2510WDG0075

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2510WDG0075	Original release	Nov. 20, 2025

1. GENERAL INFORMATION

1.1. GENERAL DESCRIPTION OF EUT

FCC ID	U4G-MODNVWLC
PRODUCT	Wireless Charging Module
MODEL NO.	MODNVWLC
ADDITIONAL MODEL	N/A
POWER SUPPLY	Input DC 5V/9V/12V 2.5A
MODULATION TECHNOLOGY	ASK/FSK
OPERATING FREQUENCY RANGE	15W Max Charging Coil (BPP/EPP): 111-147kHz
ANTENNA TYPE	Coil Antenna*1
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A

NOTES:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. For the test results, the EUT had been tested with all conditions, but only the worst case was shown in test report.
3. Please refer to the EUT photo document (Reference No.: 2510WDG0075) for detailed product photo.

2. RF EXPOSURE MEASUREMENT

2.1 LIMITS

§ 1.1310 The criteria listed in table 1 shall be used to evaluate the environmental impact of human exposure to radiofrequency(RF) radiation as specified in § 1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of § 2.1093 of this chapter.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500–100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
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
1500–100,000			1.0	30

f = frequency in MHz

* = Plane-wave equivalent power density

NOTE 1 TO TABLE 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

NOTE 2 TO TABLE 1: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

2.2 DESCRIPTION OF SUPPORT UNITS

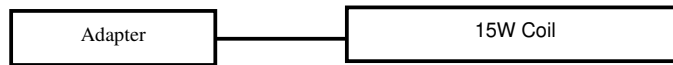
The EUT has been tested with associated equipment below:

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	15W RX Load (12V/9.6Ω)	Nuvolta	RX_NU1619_V3.0	N/A	N/A	By Client
B	10W RX Load (12V/14.4Ω)	Nuvolta	RX_NU1619_V3.0	N/A	N/A	By Client
C	Adapter	Belkin	WCA008	N/A	N/A	BV Lab.
D	Power Z	N/A	N/A	N/A	N/A	
E	7mm glass pane	N/A	N/A	N/A	N/A	
F	iPhone 16 Pro(1#)	Apple	A3083 (MYM93LL/A)	HY9H79YM6Y	BCG-E8666A	
G	Adapter	CE-Link	PD36U-1TNA	N/A	N/A	

Description	Length (m)	Shielding (Y/N)	Remark
DC Line(Optional)	0.2	N	N/A

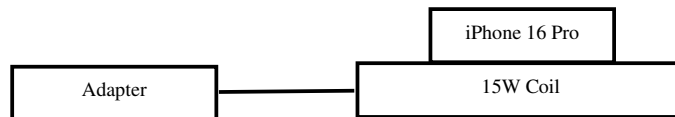
2.3 CONFIGURATION OF SYSTEM UNDER TEST

Mode A:



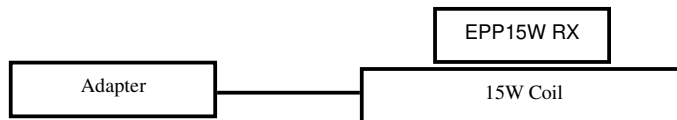
Remark: DC 9V from Adapter.

Mode B:



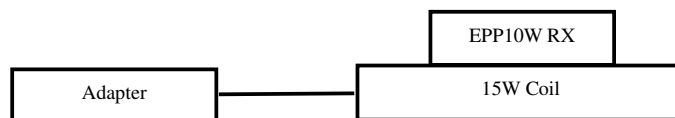
Remark: DC 9V from Adapter.

Mode C:



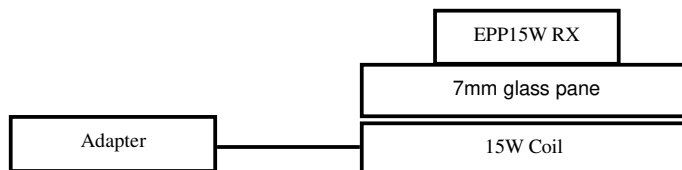
Remark: DC 9V from Adapter.

Mode D:



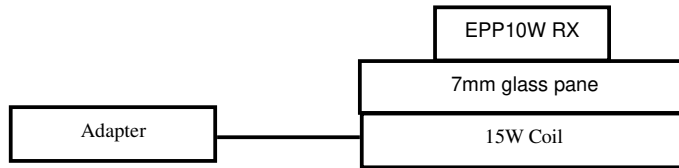
Remark: DC 9V from Adapter.

Mode E:



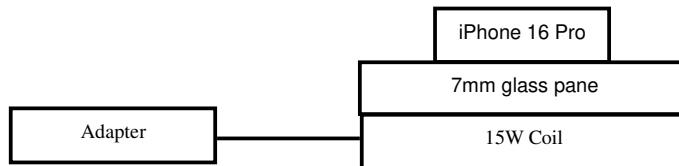
Remark: DC 12V from Adapter.

Mode F:



Remark: DC 12V from Adapter.

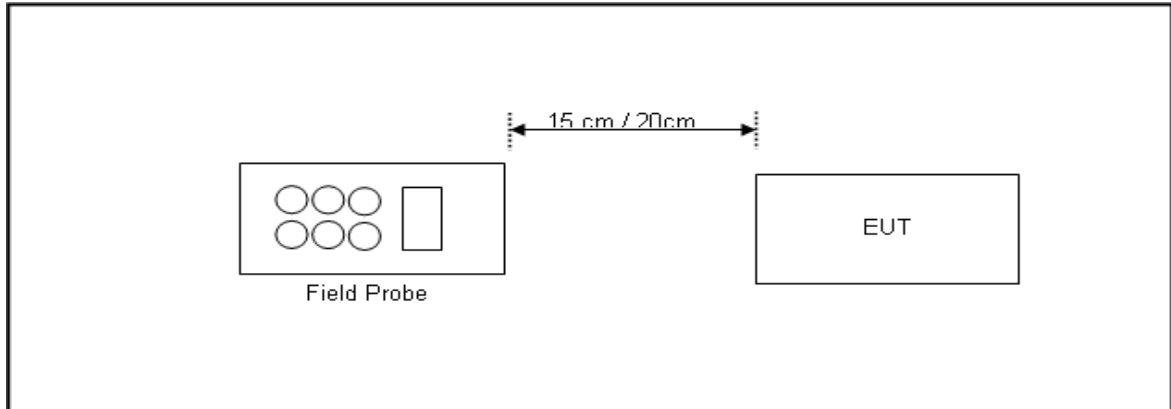
Mode G:



Remark: DC 12V from Adapter.

Note: The customer claimed that the usage distance range was 0mm to 7mm.

2.4 TEST SETUP FOR WPC



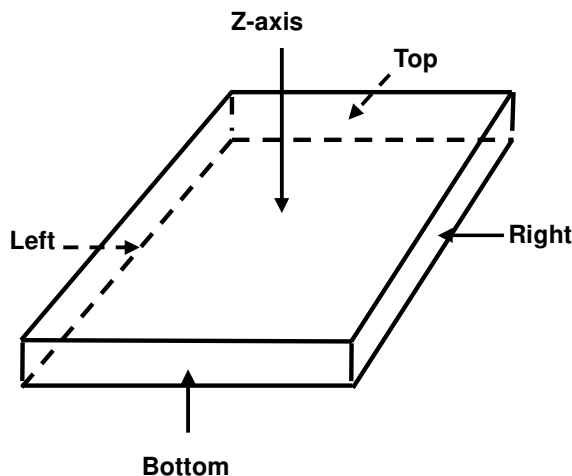
Note: Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device.

2.5 EQUIPMENTS USED DURING TEST

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
Probe	Schmid& Partner Engineering AG	MAGPy-8H3D+E3DV2	3122	Aug. 05, 26
Battery	Schmid& Partner Engineering AG	MAGPy-DASV2	3120	N/A
FPGA Board	Microsoft	Surface pro 7	WP000274	N/A
3mFully Anechoic Chamber	Chance Most	8m*4m*4m	D3040011DG	May 27, 26
Test Software	Schmid& Partner Engineering AG	MAGpy 2.8	V2.8.2	N/A

NOTE: 1. The test was performed in RS chamber.
2. Equipment are calibrated by calibration laboratory accredited to ISO/IEC 17025 by a mutually recognized Accreditation and all tests are conducted within a valid calibration cycle.

2.6 TEST POINT DESCRIPTION



2.7 TEST RESULTS

Mode1: Standby+0mm

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	0.5800	0.7100	0.7300	0.6600	0.7400
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-613.42	-613.29	-613.27	-613.34	-613.26

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (A/m)	0.3300	0.4800	1.4900	0.4700	0.9900
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.300	-1.150	-0.140	-1.160	-0.640

Mode2: EUT+ iPhone 16 Pro 10% Battery+0mm Charging

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	6.5700	6.6800	4.9100	2.6600	4.5100
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-607.43	-607.32	-609.09	-611.34	-609.49

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (A/m)	0.1100	0.9800	0.0900	0.0700	0.5500
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.520	-0.650	-1.540	-1.560	-1.080

Mode3:EUT+ EPP 15W+0mm

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	6.6600	15.1200	8.9300	8.6900	1.1000
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-607.34	-598.88	-605.07	-605.31	-612.9

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (A/m)	0.4100	0.4400	0.4300	0.2900	0.3300
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.220	-1.190	-1.200	-1.340	-1.300

Mode4: EUT+EPP 10W+0mm

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	5.5500	7.2100	6.2200	4.8300	7.8800
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-608.45	-606.79	-607.78	-609.17	-606.12

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (A/m)	0.3100	0.3300	0.3400	0.3000	0.3500
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.320	-1.300	-1.290	-1.330	-1.280

Mode5: EUT+EPP 15W+7mm

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	6.5900	14.9000	8.8100	8.6300	1.0400
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-607.41	-599.1	-605.19	-605.37	-612.96

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (A/m)	0.3900	0.4100	0.3200	0.2100	0.2400
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.240	-1.220	-1.310	-1.420	-1.390

Mode6: EUT+EPP 10W+7mm

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	5.4300	7.1100	6.1100	4.8500	7.7400
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-608.57	-606.89	-607.89	-609.15	-606.26

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (A/m)	0.2300	0.2600	0.2500	0.2700	0.2900
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.400	-1.370	-1.380	-1.360	-1.340

Mode7: EUT+iPhone16 Pro 10% Battery +7mm Charging

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	6.5400	6.6400	4.8200	2.6700	4.4600
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-607.46	-607.36	-609.18	-611.33	-609.54

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (A/m)	0.0900	0.9600	0.0600	0.0600	0.4900
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.540	-0.670	-1.570	-1.570	-1.140



Test Report No.: FM2510WDG0075

3. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

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