

1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant:	The NOCO Company
FCC ID:	2BH4L-XDS3V2

1.2 EUT INFORMATION

Product Name:	3-In-1 Wireless Charging Stand
Model No.:	XDS3 (Gen 2)
Brand Name:	
DUT Stage:	Production Unit
Operating Frequency Range:	Smartphone Charge Pad: 127kHz to 360kHz Earpod Charge Pad: 110kHz to 147kHz Smartwatch Charge Pad: 326.5kHz
Antenna Type:	Coil Antenna
Power Supply	120VAC
Sample Received Date:	September 25, 2025
Sample Tested Date:	September 25, 2025 to October 09, 2025

1.3 OTHER INFORMATION

Support Equipment

Description	Remark
An AC adaptor (Input: 100-240VAC 50-60Hz 1.0A; Output: 5.0V=3.0A, 9.0V=3.0A, 12.0V=3.0A, 15.0V=3.0A, 20.0V=2.25A, PPS:5.0-11.0V=4.05A)	Provided by Applicant
2.03m USB Type-C Power Supply Cable	Provided by Applicant
25W Loading	Provided by Intertek
iPhone	Provided by Intertek
5W Loading	Provided by Intertek
Airpod	Provided by Intertek
Apple Watch	Provided by Intertek

1.4 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product, according to the specifications of the manufacturers. It must comply with the requirements of the following standards:

According to KDB680106 D01 RF Exposure Wireless Charging Apps v04 (October 24, 2023), the requirement of RF exposure for the Wireless Charging device shall be met.

2. EQUIPMENT LIST

Test Equipment List						
Equipment No.	Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm dd, yyyy)	Cal. Due date (mm dd, yyyy)
EW-3687	The Magnetic Amplitude and Gradient Probe System	SPEAG	MAGPy-8H3D+E3D	3114 / 3100	Aug 07, 2024	Nov 07, 2025

3. MPE EVALUATION

3.1 REFERENCE DOCUMENTS FOR EVALUATION

According to KDB680106 D01 RF Exposure Wireless Charging Apps v04 (October 24, 2023), the requirement of RF exposure for the Wireless Charging device shall be met.

3.2 MPE COMPLIANCE REQUIREMENT

3.2.1 Limits

3.2.1.1

According to §1.1310(e)(1), system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

Limits for Occupational / Controlled Exposure

Frequency range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Times E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	F/300	6
1500-100000	/	/	5	6

Limits for General Population/Uncontrolled Exposure

Frequency range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Times E ² , H ² or S (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
300-1,500	/	/	f/1500	30
1,500-100,000	/	/	1.0	30

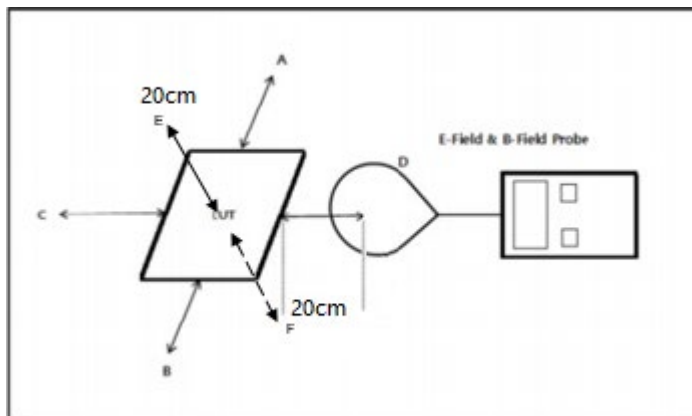
Note: f = frequency in MHz: * = Plane-wave equivalent power density.

3.2.2 Test Procedure

Enabled the EUT to transmit and receive data continue

- The field strength of both E-field and H-field was measured at 20 cm surrounding the device and 20 cm above the top surface using the equipment list above for determining compliance with the MPE requirements of FCC Part 1.1310.
- For 15W wireless charging, specific loading is required for providing Max. output power for testing.
- Maximum E-field and H-field measurements were made 20cm from each side of the EUT. Along the side of the EUT and still 20cm away from the edge of the EUT, the field probes were positioned at the location where there is maximum field strength. The maximum E-field and H-field is reported below.
- This device uses a wireless charging circuit for power transfer operating at the frequency range of 127kHz to 360kHz for the smartphone charge pad; 110kHz to 147kHz for the earpod charge pad; 326.5kHz for the smartwatch charge pad. Thus, the 300 kHz limits were used: E-field Limit = 614 (V/m); H-field limit = 1.63 (A/m).
- Place one client on coil closest to end of the device. Repeat measurements. Remove client.
- Place one client on coil on the other end of the device. Repeat measurements. Remove client.
- Place one client on coil closest to the middle of the device. Repeat measurements. If even number of coils choose one of the coils closest to middle (but not both) to do measurements on.

3.2.3 Test setup



Since this application applied short-term confidentiality, thus the outlook photos of the Coil Plates are saved with filename: setup photo.pdf

Note

- The RF exposure test is performed in the shield room
- The test distance is between the edge of the charger and the geometric center of probe
- The aggregate at 20 cm surrounding the device and 20 cm above the top surface from transmitting coil is demonstrated.
- Test Position: Rear, Right, Front, Left, Top, Bottom

3.3 TEST DATA

Charging with Full Load – Max. output power

E-Field Strength

Test Mode	Probe Position (V/m) C-Rear	Probe Position (V/m) B-Right	Probe Position (V/m) D-Front	Probe Position (V/m) A-Left	Probe Position (V/m) E-Top	Probe Position (V/m) F-Bottom	Limits (V/m)	Result
Charging with Full Load	0.38	0.60	0.38	0.80	3.12	0.99	614	Complied

H-Field Strength

Test Mode	Probe Position (A/m) C-Rear	Probe Position (A/m) B-Right	Probe Position (A/m) D-Front	Probe Position (A/m) A-Left	Probe Position (A/m) E-Top	Probe Position (A/m) F-Bottom	Limits (A/m)	Result
Charging with Full Load	0.35	0.35	0.35	0.21	0.56	0.24	1.63	Complied

Standby Mode

E-Field Strength

Test Mode	Probe Position (V/m) C-Rear	Probe Position (V/m) B-Right	Probe Position (V/m) D-Front	Probe Position (V/m) A-Left	Probe Position (V/m) E-Top	Probe Position (V/m) F-Bottom	Limits (V/m)	Result
Standby	0.14	0.08	0.15	0.11	0.16	0.11	614	Complied

H-Field Strength

Test Mode	Probe Position (A/m) C-Rear	Probe Position (A/m) B-Right	Probe Position (A/m) D-Front	Probe Position (A/m) A-Left	Probe Position (A/m) E-Top	Probe Position (A/m) F-Bottom	Limits (A/m)	Result
Standby	0.03	0.03	0.03	0.03	0.03	0.03	1.63	Complied

Test Setup Photo:

Since this application applied short-term confidentiality, thus the setup photos of RF exposure test are saved with filename: setup photo.pdf

*** End of Report ***
