

Antenna Characterization Report – Midmark Corporation

Tested by: Ezurio

Test Method:

Midmark has integrated a trace antenna into two wireless controller products and has a need for antenna data sheets to be created. The two products – a wireless hand controller and wireless foot controller – have identical PCBA structures and antennas, but different external housings and output powers. The antenna is a PCBA trace antenna connected to an NXP MC13202FC 2.4GHz radio.

Separate scans will be performed for each product, each at three frequencies. The outputs of the scans will be compiled into antenna data sheets.

- Antenna Radiated Performance Report will provide the following:
 - TRP and EIRP Patterns
 - Calculated Efficiency and Gain

Test Equipment and Calibration Information:

- Howland Antenna Chamber
 - At minimum, it's calibrated once a year.
 - Passive – Yearly
 - Active – Yearly
- Chamber Equipment
 - Active Measurements

Description	Cal Date	Cal Due Date	Model	Serial #	Mfg.
Power Meter	04/22/23	04/22/24	NRX	5000-309122823	Rohde & Schwarz
3-Path Diode Power Sensor	04/22/23	04/22/24	NRP8S	5000-309122827	Rohde & Schwarz
3-Path Diode Power Sensor	04/22/23	04/22/24	NRP8S	5000-309122826	Rohde & Schwarz

- Passive Measurements

Description	Cal Date	Cal Due Date	Model	Serial #	Mfg.
Power Meter	04/22/23	04/22/24	NRX	5000-309122823	Rohde & Schwarz

Test Date: March 25th, 2024