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Document Title:
[RMP24-Micro \(QE\) Antenna Performance](#)

Summary / Scope:
 This document provides all the details required by Type Approval Authorities in order to process our application.

Reason for Issue / Nature of Change:

Issue	Date	Details – reason for issue / nature of change
01	July 2023	First Issue
02		
03		

Distribution:

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RMP24-Micro Antenna Design

The RMP24-Micro (QE) has an antenna that is integrated into the flexible circuit board. See Figure 1. The drive between the radio transceiver and the antenna consists of microstrip transmission line. The radiating section is a slot antenna. These are inherently broad band and are relatively insensitive to de-tuning.

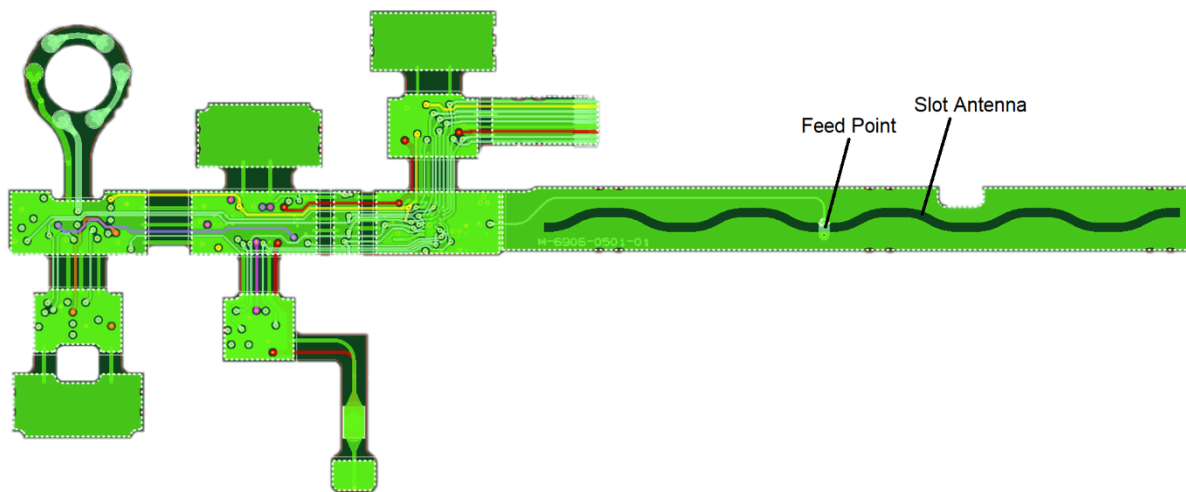
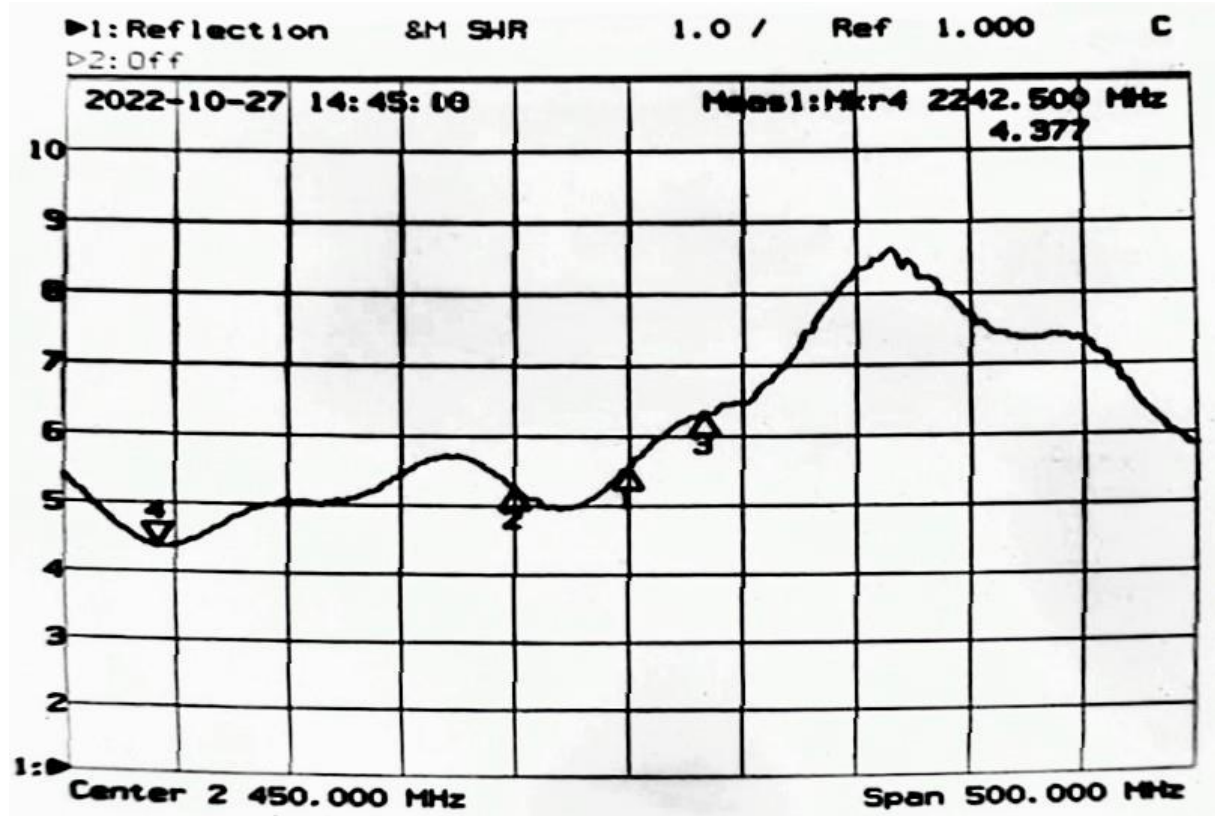


Figure 1. RMP24-Micro (QE) Flexible Circuit.

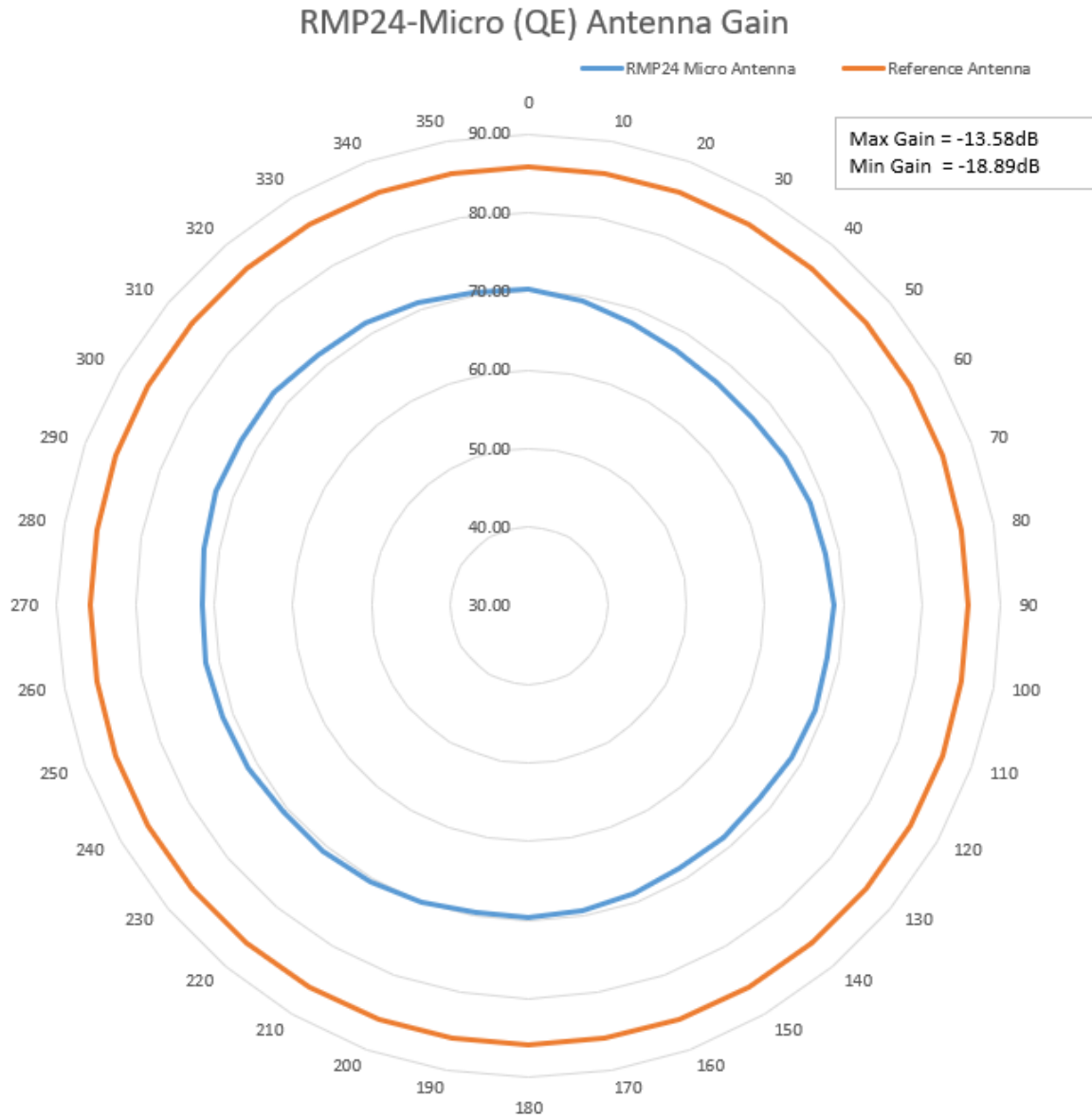
The slot antenna is 66mm in total length.

RMP24-Micro Antenna Electrical Characteristics

VSWR



H-Plane Polar Plot



The antenna has a peak gain of -14.43 dBi.

Test Equipment

R&S ESR 26 EMI Test Receiver - Serial Number: RUK21686

HP8714ET 300kHz to 3.00GHz Vector Network Analyser – Serial Number US40141410

Teseq Bilog antenna : Model CBL 6144 (26MHz-3GHz) - Serial Number 24722

MTP Small Turntable

2.4GHz $\lambda/4$ Reference Antenna

RF Anechoic Chamber