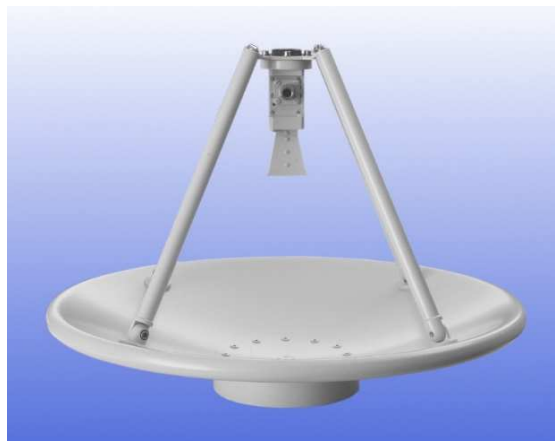


# 0.45 m Aluminium Reflector & 7.5 - 18 GHz Wideband Reflector Feed fitted with an N type Connector and Radome.

Catalogue number **QSR-450-A-200 & QWF-SL-7.5-18-N-R**

Q-par reference **QMS-00808**

Contents **Summary**  
**Typical Gain / Antenna Factor**  
**Typical Beamwidth / Patterns**  
**VSWR**

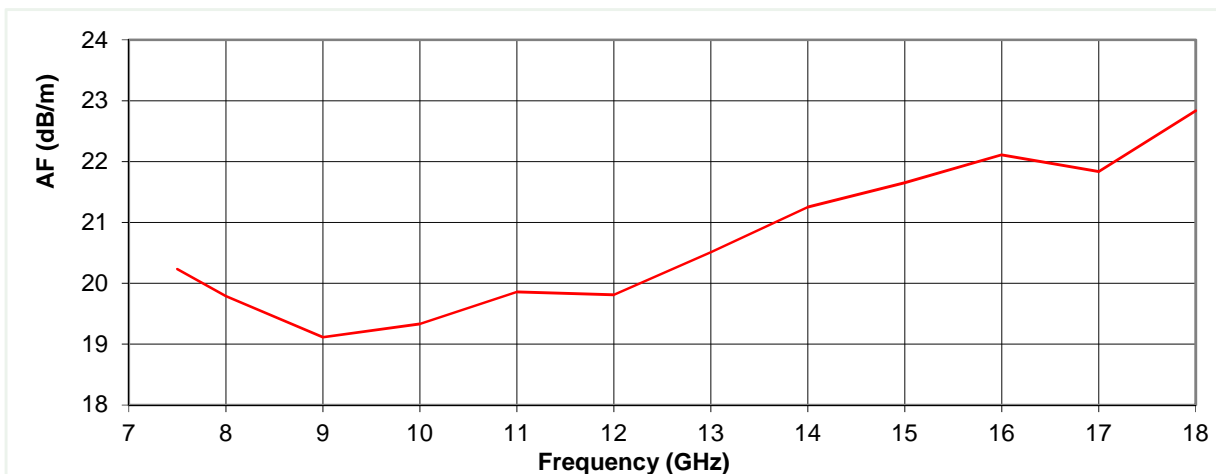
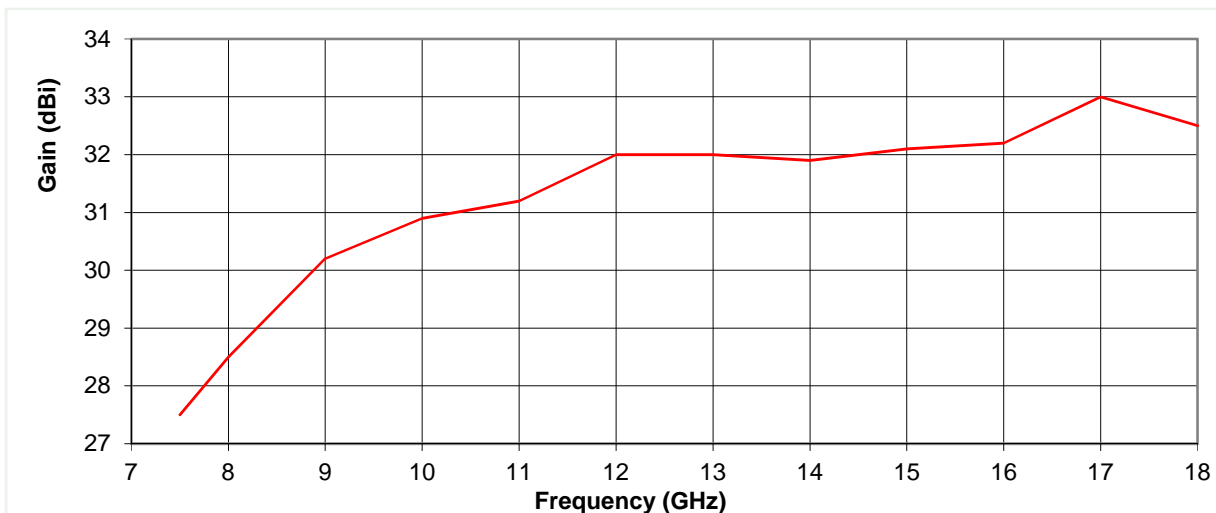


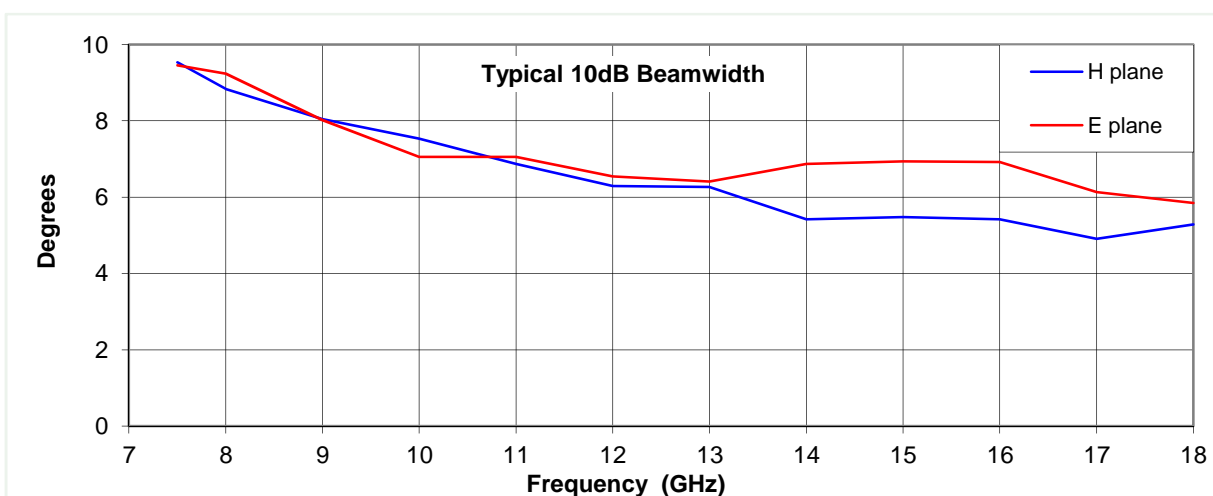
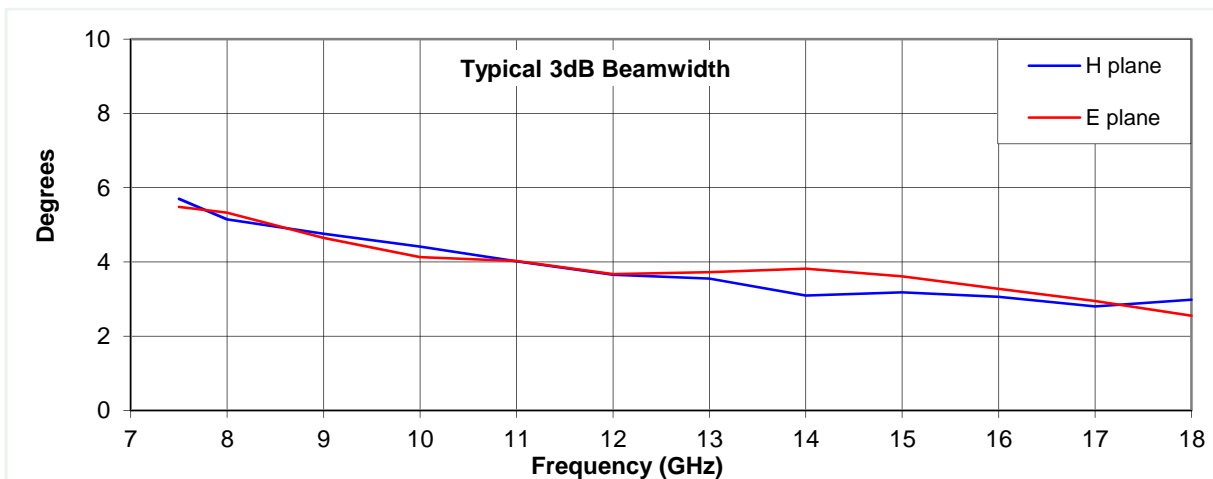
## Typical Specification

<b>Frequency</b>	7.5 to 18 GHz
<b>Connector Type</b>	N type jack
<b>Power Handling</b>	200 Watt c.w.
<b>VSWR</b>	Typically < 2.2:1      3:1 maximum
<b>Gain</b>	27.5 to 33 dBi
<b>Antenna Factor</b>	19.1 to 22.8 dB/m
<b>3dB Beamwidth</b>	3 to 6 degrees
<b>10dB Beamwidth</b>	5 to 10 degrees
<b>Weight</b>	3.6 kg nominal
<b>Maximum Size</b>	Reflector maximum diameter 483 mm
<b>Mounting</b>	Rear boss with 8 holes, tapped M6, on 125 mm pitch circle diameter.
<b>Construction</b>	Aluminium, stainless steel and engineering plastics. Powdercoat finish on reflector, painted feed.

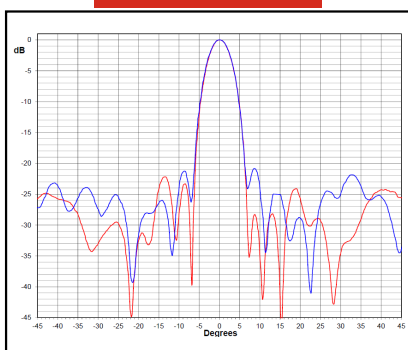
## Typical Antenna Gain / Factor

This is calculated by reference to standard gain horn antennas, and cross checked with reference to the antenna beamwidth, with an estimated error of +/- 0.8dB.

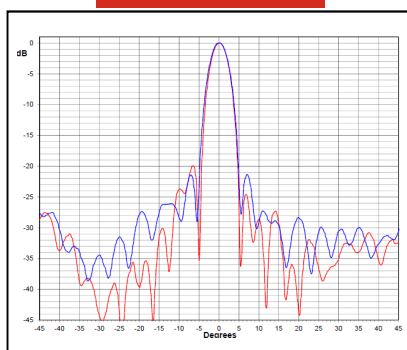




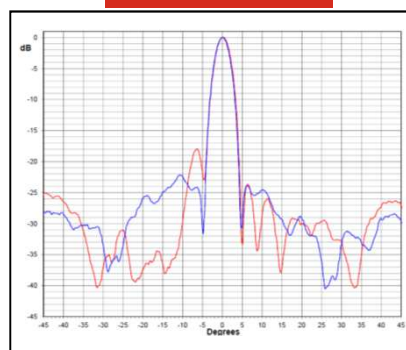
**7.5 GHz**



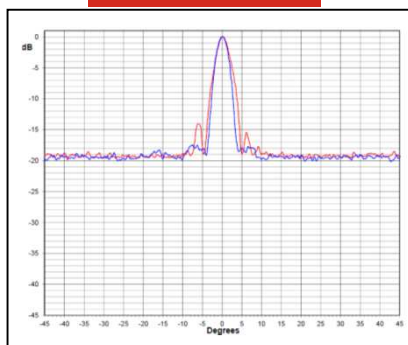
**10 GHz**



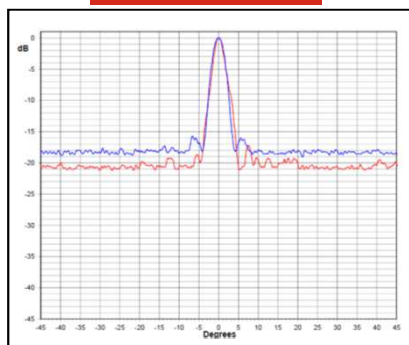
**13 GHz**



**16 GHz**



**18 GHz**



Red trace = E-plane, Blue trace = H-plane cut

