

## Standard Gain Horn Antenna

**40 to 60 GHz**

**WG24 R500 WR19**

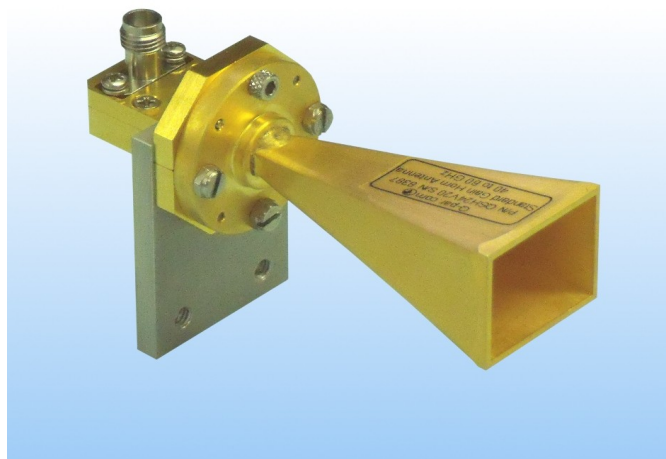
P/N: **QSH24V20**

S/N: **8387 & 8388**

Q-par ref: **D1915**

Date: **16-Nov-10**

Contents: **Summary**  
**Antenna Gain**  
**Beamwidth**  
**VSWR**



Test Report

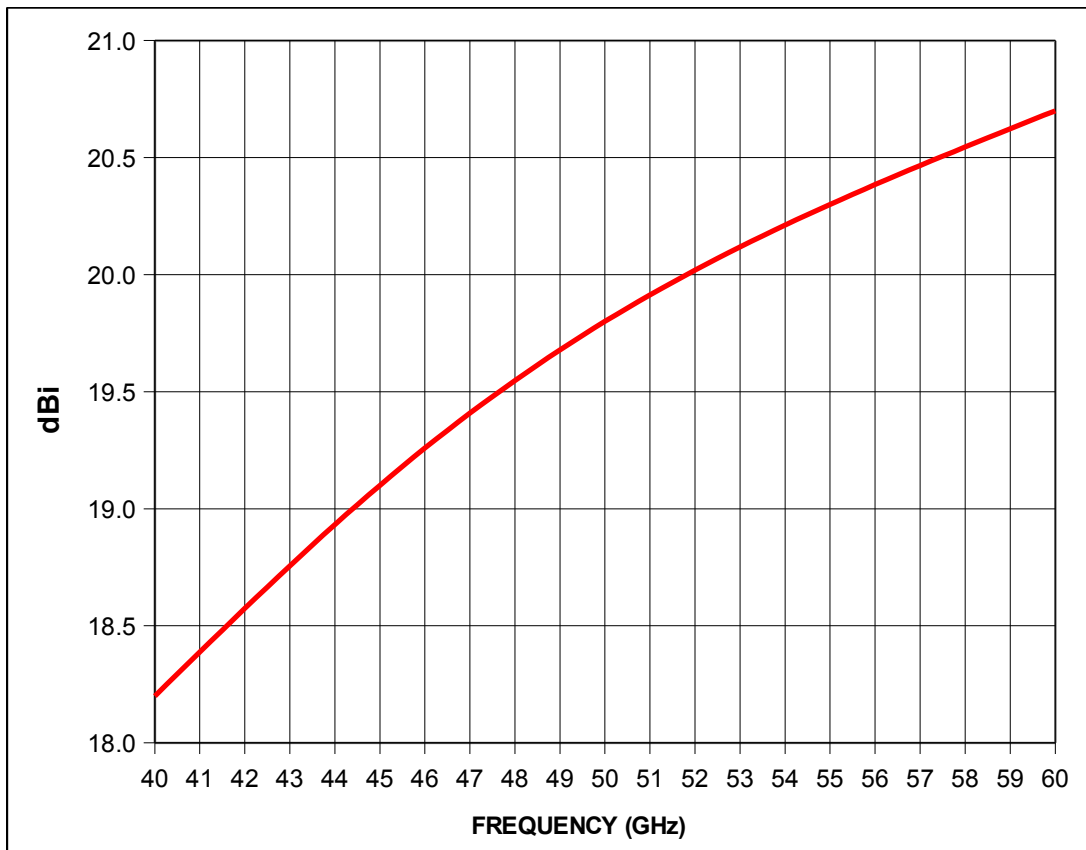
This report covers full electrical testing and has been produced for  
**Q-Par Angus**

## Summary

Frequency	40 to 60 GHz
Connector type	WG24 ( WR19 )
VSWR	< 1.6:1
Gain	18.2 to 20.7 dBi
Power handling	10 Watt c.w.
Weight	92 g inc. bracket
Size- max.	26 mm x 21 mm ext. aperture x 83 mm long
Mounting	Mounting plate - 2 holes, tapped M4, 18 mm centres

## Typical Antenna Gain

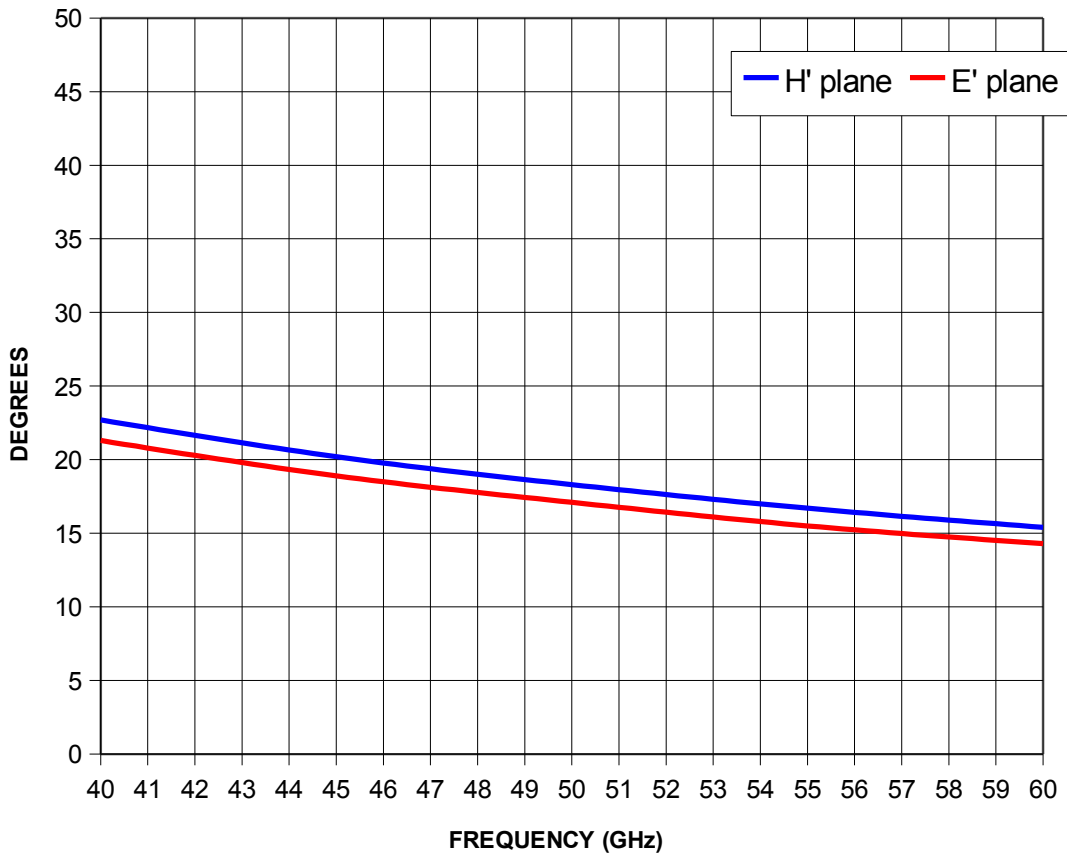
Gain calculated from a path-loss measurement between two identical antennas, cross checked with reference to the antenna beamwidth, with an estimated error of +/- 0.8dB.



The recommended far field range for this antenna is > 0.3 Metres

Frequency GHz	Gain dBi	Antenna Factor dB/m
40.0	18.2	44.1
45.0	19.1	44.2
50.0	19.8	44.4
55.0	20.3	44.7
60.0	20.7	45.1

### 3dB Beamwidth



### 10dB Beamwidth

