Q-par Angus Ltd

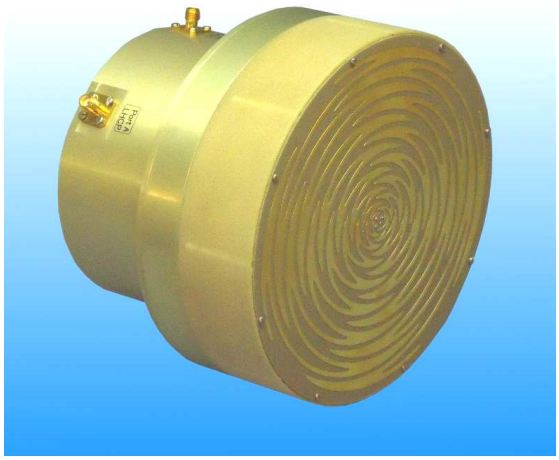
IDEAS ENGINEERED

Dual Circularly Polarised Sinuous Antenna

0.7 to 4 GHz

Test Report

Customer	**S31 LLC**
P/N:	**QSPDCP0.7-4S**
S/N:	**10687**
Q-par ref:	**13671**
Date:	**19-Oct-12**
Contents:	**Summary**
	Typical Antenna Gain / Axial Ratio / Beamwidth / Patterns
	Return Loss
	Isolation
	Pattern Cut Definition



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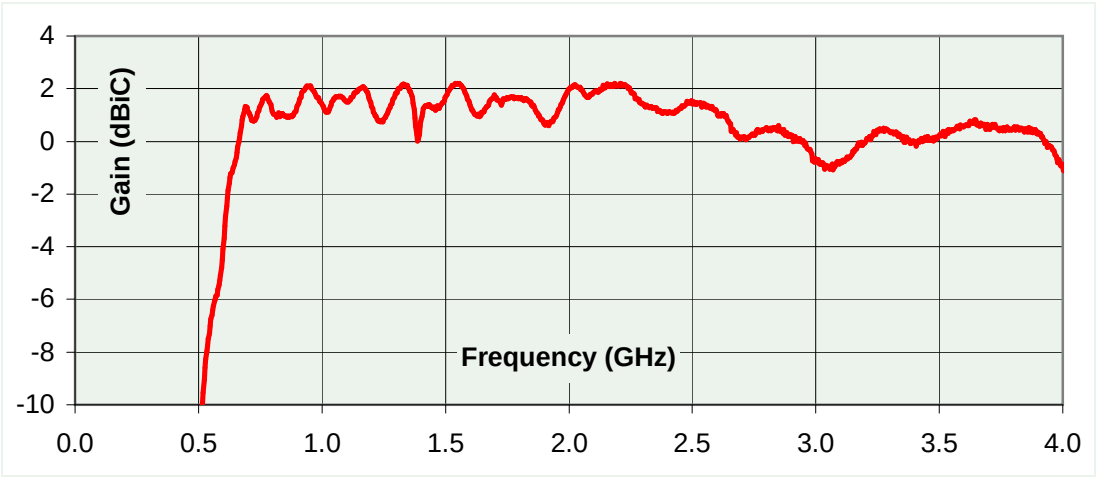
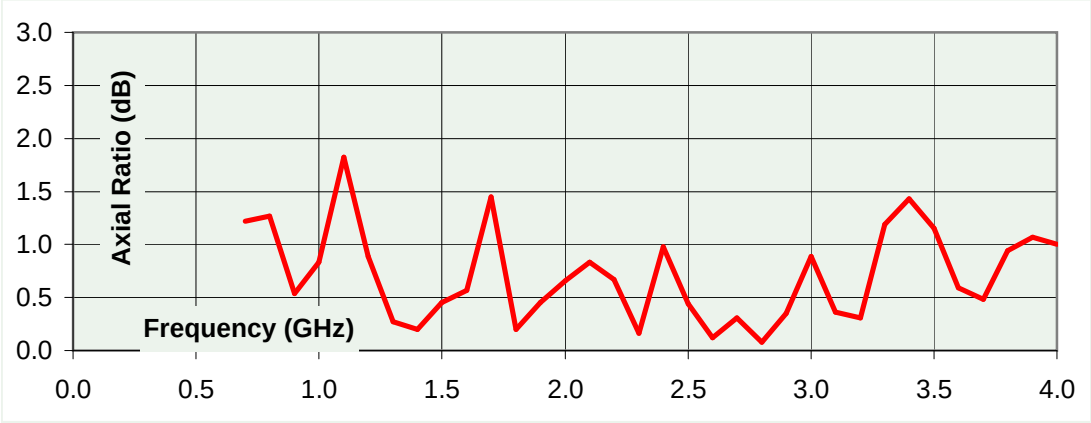
Typical Specification

Frequency	0.7 to 4 GHz
Connector type	2 x SMA type jack
Power Handling	2 Watt c.w.
VSWR	Typically < 1.4 : 1
Isolation	see attached graphs
Gain	-1 to 2.2 dBiC
3dB Beamwidth	102 to 56 degrees
Axial ratio	< 2 dB
Weight	1.3 kg
Size- max.	152 mm diameter aperture x 109 mm long
Mounting	6 holes, tapped M5 x 7 mm deep, 137 mm p.c.d.
Construction	Aluminium and Engineering Plastics
Port A	Left Hand Circular Polarisation (LHCP)
Port B	Right Hand Circular Polarisation (RHCP)

Typical Maximum Gain & Axial Ratio

Gain 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.





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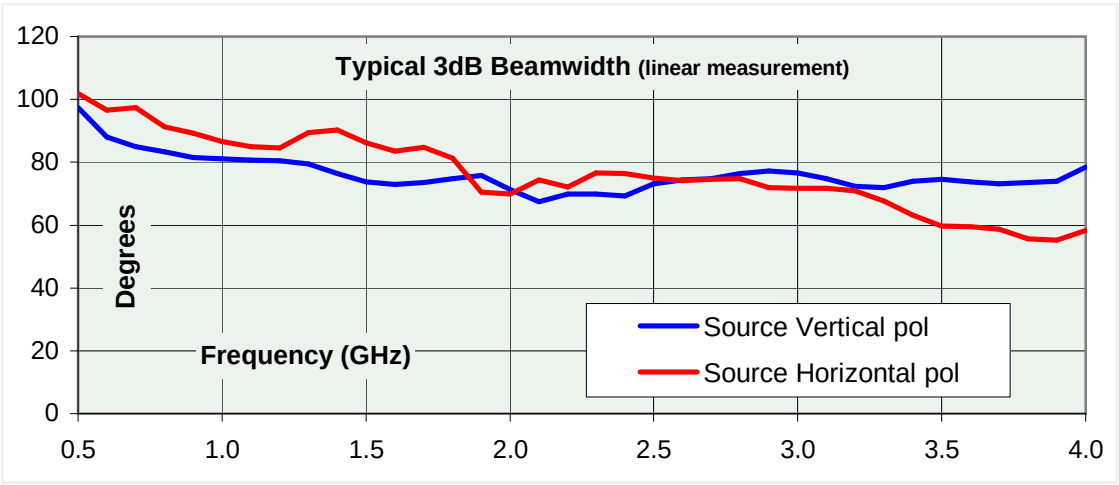
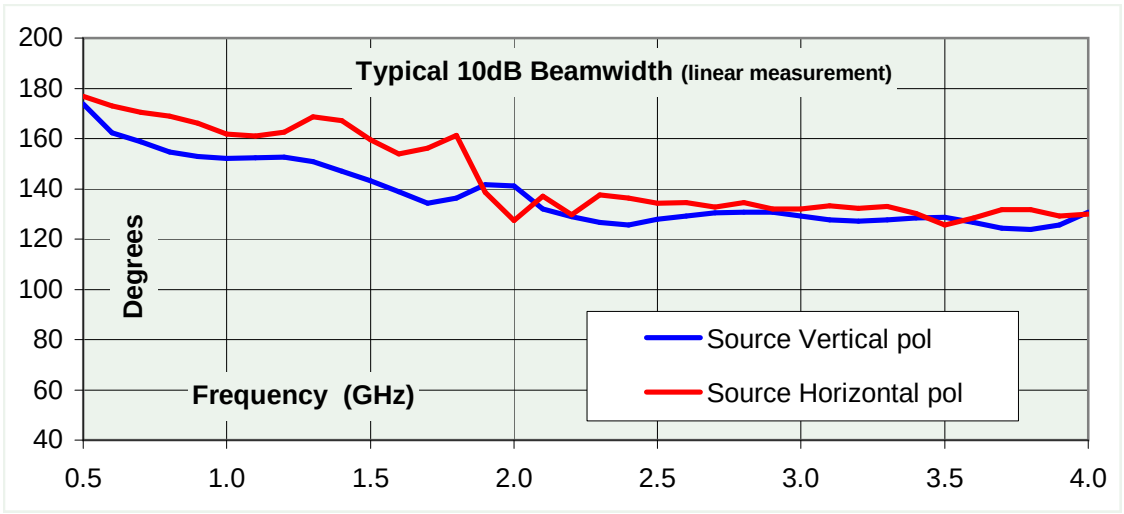
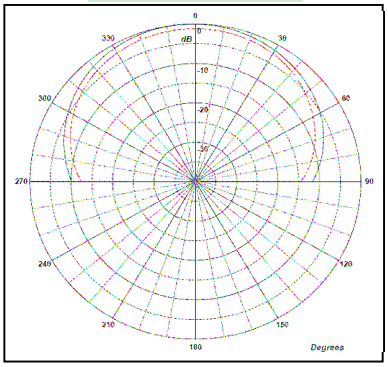
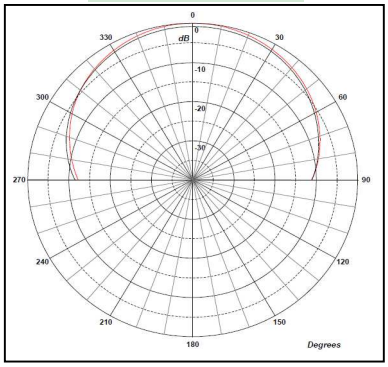




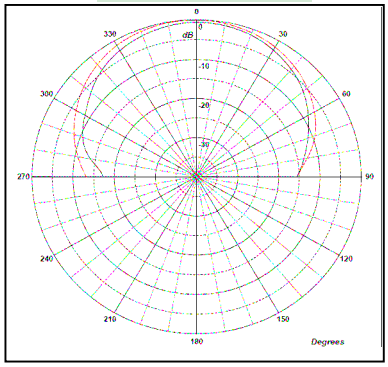
0.7 GHz



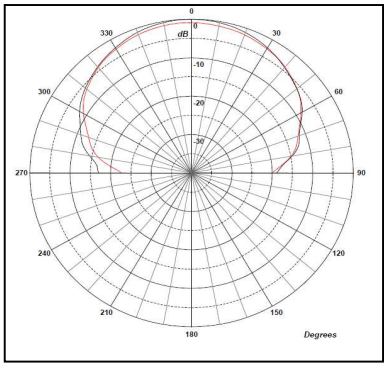
1 GHz



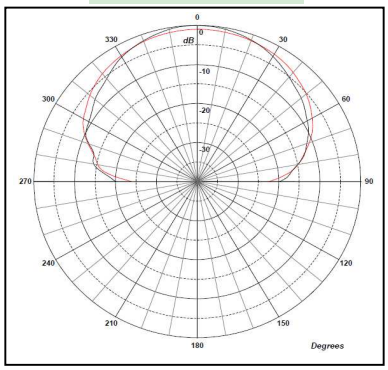
2 GHz



3 GHz



4 GHz



* Patterns measured using a linear source antenna , Polarisation refers to the polarisation of the source horn. On patterns the **Red trace = Horizontal Pol source**, **Black trace = Vertical pol source**

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