Antenna Information

Type:	Patch
Manufacturer:	MARS Antennas & RF Systems Ltd.
Part No:	MA-SI915-1S E4
Maximum Gain:	3.29 dBi (see attached data)
Antenna Connector:	The antenna is embedded on a PCB inside of the RFID reader module and is therefore integral to the unit. It cannot be altered or replaced in the field. The antenna meets FCC 15.203 requirements.

NORTHWEST EMC

ABSOLUTE GAIN DATA SHEET

EUT:	RFID antenna for Handheld Scanner			Work Order:	PSCI0155
Serial Number:				Date:	04/12/05
Customer:	PSC Inc.			Temperature:	23
Attendees:	Jim Wagner, Kurt Steinke, Ron Burke			Humidity:	32%
Cust. Ref. No.:				Barometric Pressure	29.84
Tested by:	Rod Peloquin	Power:	N/A	Job Site:	EV01

SAMPLE CALCULATIONS

COMMENTS

F5500B antenna. Horizontal orientation

EUT OPERATING MODES

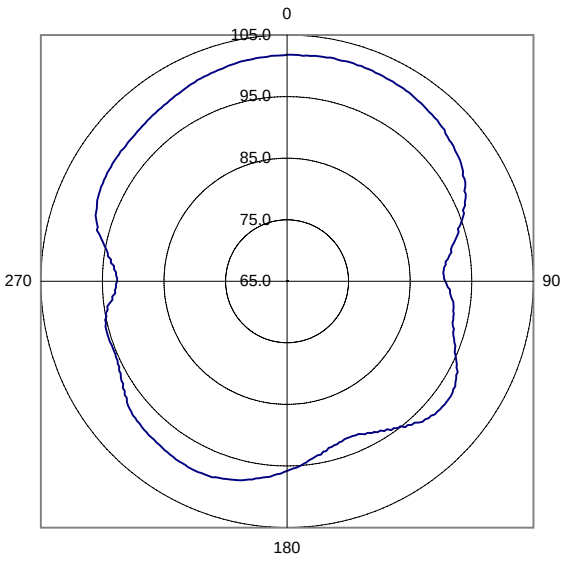
10dBM output from signal source

Test Distance (m)	Run #
0	13

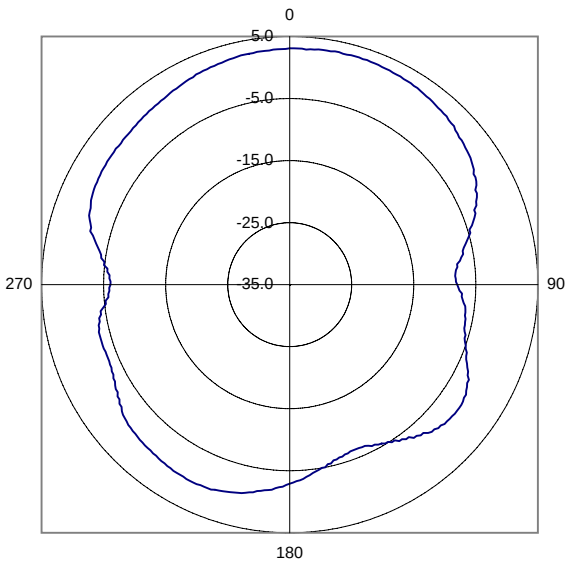
Other

Tested By:

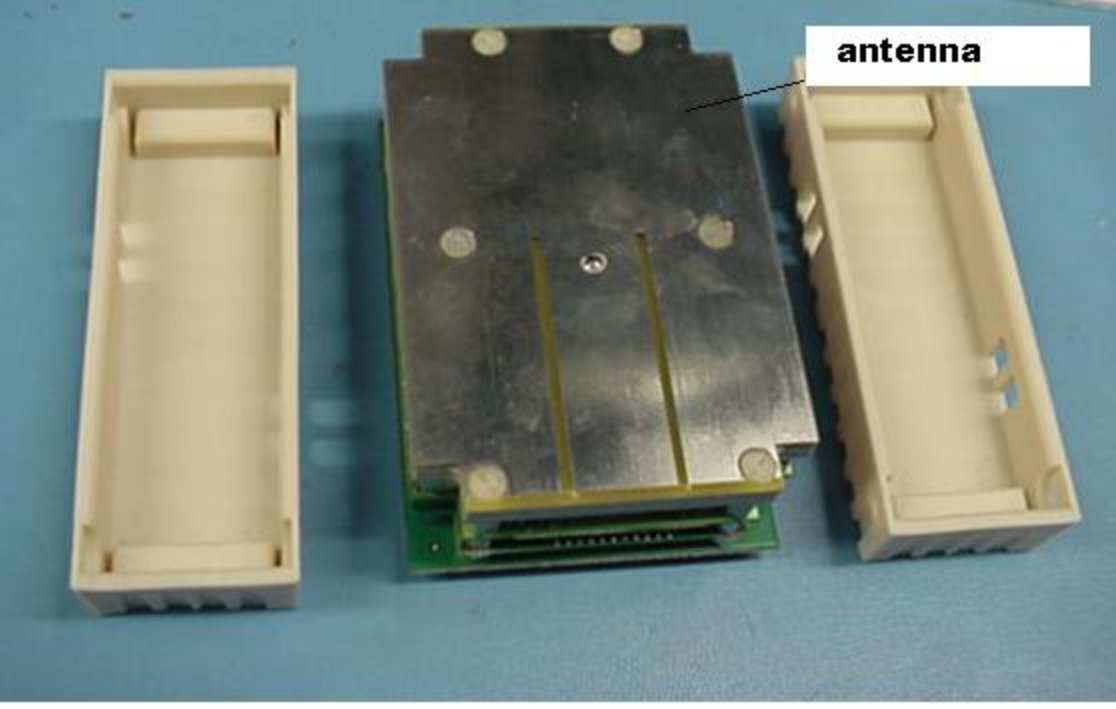
Relative Gain of AUT



Absolute Gain of AUT



Frequency	902.00
Absolute Gain of Reference Antenna (dBi)	1.59
Reference Antenna Relative Gain Max (dBuV/m)	100.30
AUT Relative Gain Max (dBuV/m)	102.00
Difference (Reference Antenna - AUT) (dB)	-1.70
AUT Setup Loss (dB)	0.00
Maximum Absolute Gain of AUT (dBi)	**3.29**
Correction Factor (Convert From Relative to Absolute Gain) (dB)	98.71
Measurement Antenna Polarity	Horizontal
Antenna Under Test (AUT) Polarity	Horizontal


antenna