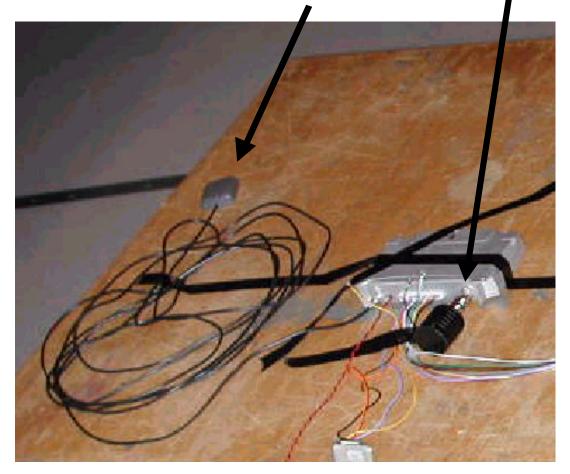
LoCate EMC Testing Antennas For FCC Approval

R. Braathen Oct 2, 2001

Per the photograph of the EMC testing, the radiated emissions testing was done with:

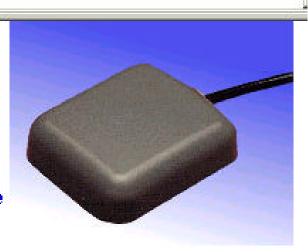
- 1. Cellular TNC antenna port terminated with a 5 watt 50 ohm RF terminator.
- 2. GPS SMA antenna port connected to a NaiS GPS antenna: DC3V, CCAF20KG02 Serial Number 001393.



The NaiS antenna specifications are available from the website at http://www.aromat.com/emdwn.htm. Attached is a copy of the specification for the GPS receive antenna used in the testing.

VIC-1 HS Automotive Antenna

- Low Noise Figure 1.0
- Filter/LNA Design
- Low Profile
- Low Power (3V) Available



Performance Characteristics:	
Operating Frequency	L1 1575.42 ± 1.023 MHz (typ)
Input Impedance	50 Ohm
VSWR	1.5 (typ.)
Polarization	Right hand circular
Azimuth Coverage	360 degrees
Elevation Coverage	0 degrees to 90 degrees
Gain Characteristics of Antenna Element	Gain: 3.0 dBi (typ.) -10 dBi min. at 0 degrees elevation Axial ratio: 3 dB (typ.)
Filtering	-40dB(1670MHz)(typ.) -40dB(1480MHz)(typ.)

	Axial ratio: 3 dB (typ.)
Filtering	-40dB(1670MHz)(typ.) -40dB(1480MHz)(typ.)
Total Gain	24 dBi (typ.) w/бm. cable
Noise Figure	1.0 dB (typ.), 1.5 dB (max.)
Electrical Characteristics	
Power Requirements	5 ± 0.5 VDC (Available for 3 VDC)
Power Consumption	20 mA (typ.)
Physical Characteristics:	
Dimensions	46L x 39W x 12.5H mm
Weight	35 g. w/o Cable
Cable Length	6000 ± 70 mm
Mounting Method	Magnet
Connectors	SMA, SMB, BNC, TNC, OSX, GT:
Color	Charcoal gray
Environmental Characteristics	81
Temperature	Operational: -40°C to +100°C Storage:-40°C to +100°C
Humidity	40 to 95% RH (Below Dew Point)