Near-field Antenna Range Configuration Worksheet

Customer: _		
Location:		
Customer co	ntact:	
Telephone: _		e-mail:
Telephone: _		e-mail:
Agilent Syst	ems Engineer:	e-mail: Office:
reiepnone: _		e-maii:
Date:		
This workship Engineers, as needs. This was known to desire the requirements of the property o	nd a potential customer a worksheet asks the questi ign a customized antenna s. at this form as completely	ide for discussions between local Agilent Field bout their near-field antenna measurement system ons an Agilent Systems Engineer would need to measurement system to meet a customer's unique of as possible, and also describe any unique features and system, or additional requirements not covered
		sed or existing location and layout is always very
will configure specified in the strumentate the RF sub-sub-sub-sub-sub-sub-sub-sub-sub-sub-	re an antenna measureme this worksheet. A quotati ion block diagram, a list ystem, and price. Occasi	worksheet, an Agilent Antenna Systems Engineer on the system to meet the needs and requirements as on can be prepared which will include an of all the instrumentation components included in onally, additional discussions will be necessary as Engineer and the customer to clarify the nents and configuration.
What is the □ □	objective for this system Developing a new near Upgrading an existing	
	Other:	

	s important to the customer? oful (but not necessary) to rank the top three in order of importance
	A "turn-key" or complete measurement solution Measurement automation software Measurement productivity / throughput Multiple-channel, multiple-frequency measurements Accurate measurements Upgrading old instrumentation to newer more reliable system Economical price due to budget constraints System uptime and reliability On-site installation, training and support
	Ease of use Other:
What t	ype of near-field measurement system?
	Planner Cylindrical Combination planner/cylindrical Spherical

Spherical

Uncertain; need application assistance

What is the	required frequency of operation? (in GHz)
	0.1 - 3
	2-18
	18-26.5
	26.5-50
Milli	meter:
	26.5-40
	33-50
	40-60
	50-75
	75-110
	Other:
How many	frequencies are to be measured?
Types of an	tennas to be tested
	Space based communications satallite antennas
	High gain reflector antennas
	Omni directional antennas
	DBS antennas (flat planner array)
	Horn antennas
	Patch antennas
Weig	ght Dimensions
Description	of the antenna(s):

Approxima	ate gain (dBi):
What is the	e polarization of the test antennas?
	Linear polarized antennas Circularly polarized antennas Both linear and circularly polarized antennas Unknown
	he maximum number of test channels required? etermined by the number of test ports on the antenr
	<u>=</u>
	etermined by the number of test ports on the antenn
	One
	One Two

What types of antenna patterns are required? Holographic projections Co-polarized principle plane patterns Gain measurements Cross-polarized principle plane patterns Three dimensional plots Contour patterns Pulsed antenna measurements (usually active element arrays) Other: Are there any specific requirements for accuracy? Gain accuracy: Sidelobe accuracy: _____ dB at _____ dB below peak Crosspolarized response accuracy: dB at dB below peak Pointing accuracy: Other: The accuracy requirements are unknown

What level of system integration is desired? Developing a new near-field antenna range Desire a complete "turn-key" system Desire only components of a near-field system Select the components desired: Near-field scanners Near-field probes Aquisition and analysis software Microwave receiver Microwave source System engineering services System integration services Upgrading an existing near-field system with new equipment Select the components desired: Near-field scanners Near-field probes Acuisition and analysis software Microwave receiver Microwave source System engineering services

System integration services

Uncertain; desire application assistance with this area

ere any	existing Agilent or HP equipment to be used in this facility?
	None
	Yes (please specify):
y any o	other manufacturers equipment to be used in this facility?
	None
	Yes (please specify):
special	types of measurement requirements?
Usua mod	d operation of the antenna ally for active array antennas where the antenna can only operate in pulsed e