Test Report:	2004-080553-FCC-E
Applicant:	Trapeze Networks
Equipment Under Test: (EUT)	802.11b/g/a Combo Access Point
FCC ID:	QZE100
In Accordance With:	**FCC Part 15.401, Subpart E Class II Permissive Change**
Tested By:	Nemko San Diego Inc.
Authorized By:	Chip Fleury
Date:	8/25/2004
Total Number of Pages:	15

Table of Contents

Section 1. Summary of Test Results

General

All measurements are traceable to national standards.

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15, Subpart E. Radiated tests were conducted is accordance with ANSI C63.4-1992. Radiated emissions are made on an open area test site. A description of the test facility is on file with the FCC.

THIS TEST REPORT RELATES ONLY TO THE ITEM(S) TESTED.

THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE TEST SPECIFICATIONS HAVE BEEN MADE.
See " Summary of Test Data".

TESTED BY: ____Alan Laudani _____ DATE: __8-4-04—9-3-04_____

Summary Of Test Data

Name Of Test	Para. No.	Result
Powerline Conducted Emissions	15.207(a)	N/A
Emission Bandwidth	15.403(c)	N/A
Peak Conducted Transmit Power	15.407(a)(3)	N/A
Peak Power Spectral Density	15.407(a)(3)	N/A
Peak Excursion Measurement	15.407(a)(6)	N/A
Undesirable Emissions	15.407(b)(3)(5)	Complies

Note:

(1) This application is for a class II permissive change to this device approved under FCC ID# QZE100.

(2) The scope of changes are as follows:
   (a) Addition of an integral Centurion puck 3dBi antenna.
   (b) Re-layout of the PCB.

(3) The radio circuitry and RF characteristics are unchanged from the original certification, and as such only the relevant radiated data has been provided.

(4) The RF exposure requirements comply as per the original certification.

Test Conditions:

Outdoor Temperature: 25°C
Humidity: 30%

Section 2. General Equipment Specification

Manufacturer:	Trapeze Networks
Model No.:	MP-100
Serial No.:	
Date Received In Laboratory:	12 Aug. 2004
Nemko Identification No.:	
Operating Frequency(s):	5180-5240MHz 5260-5320MHz
Rated Power (maximum):	5150-5250MHz = 11dBm 5250-5350MHz = 13.8dBm
Modulation/Access Method:	802.11a, OFDM
Antenna Data:	3dBi Centurion Puck (integral)

Section 3. Undesirable Emissions

Para. No.: 15.407(b)(2)

Test Performed By: Glen Westwell	**Date of Test: 12 Aug 2004**

Test Results: Complies

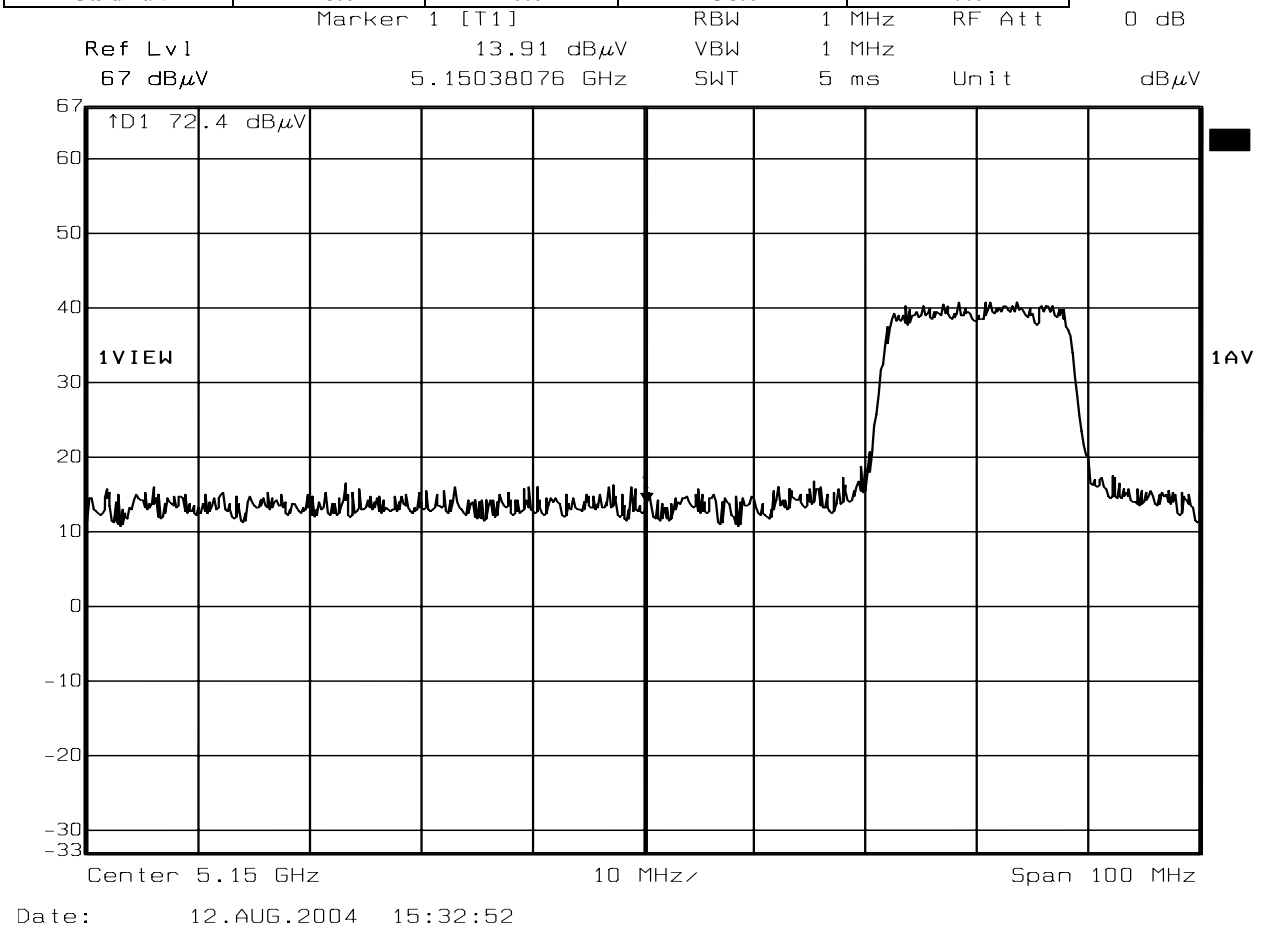
Measurement Data: See attached plots and table.

●Emissions were searched for all possible configurations. Worst case data has been presented.
●The DUT was searched from 30MHz to the 10th harmonic. Only those emissions within 20dB of the limit were reported.
● Bandedge emissions were measured at the lowest and highest operating frequencies.
●The power supply source was varied +/-15% to verify worst case emissions.

5150-5250MHz

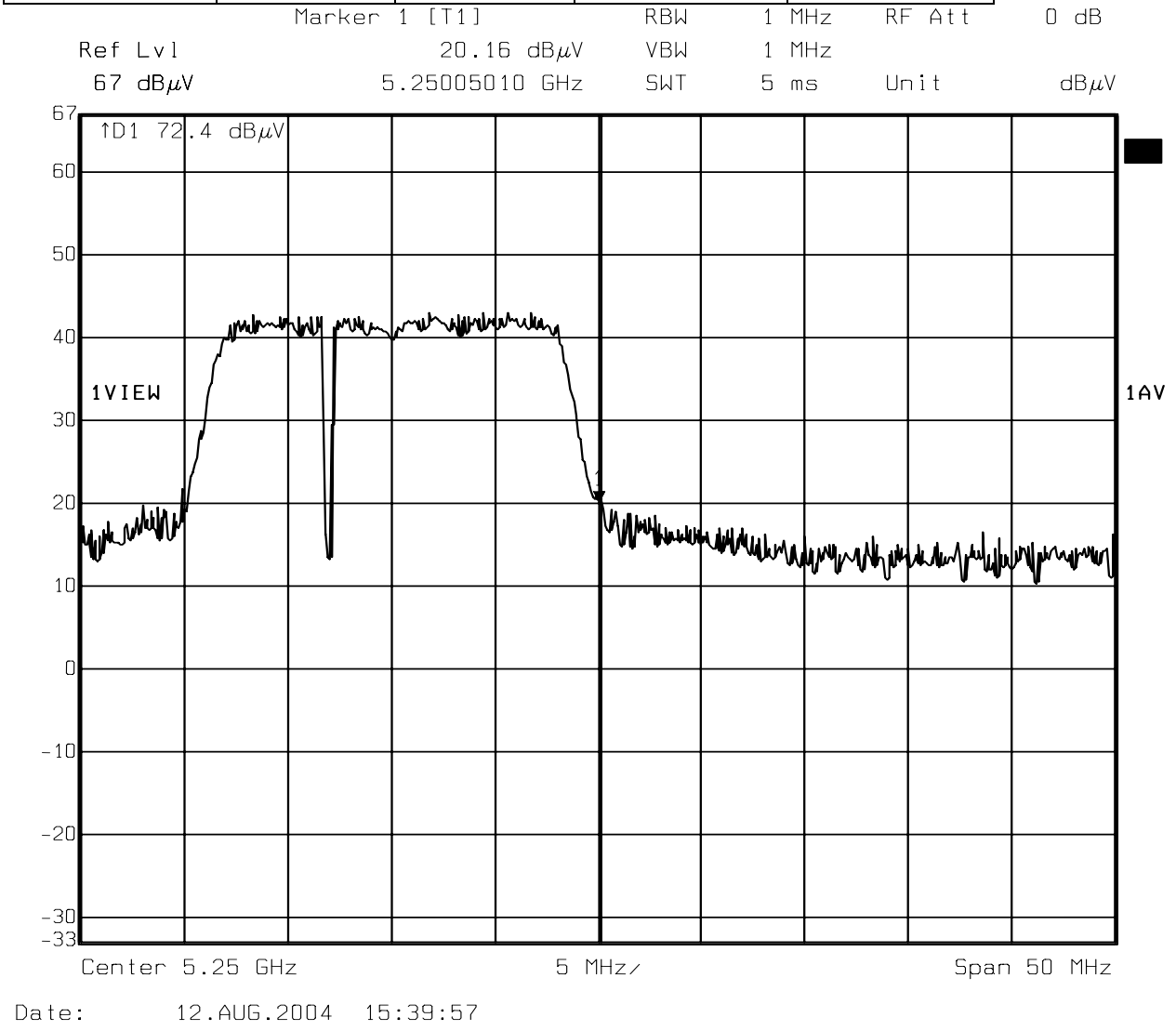
Lower Band Edge, 802.11a, Integral 3dBi puck antenna, Ch. 36

Band Edge Level (dBuV)	Signal Substitution Level (dBm)	Antenna Gain (dBi)	Emission Power Level (dBm)	Limit (dBm)
13.9dBuV	-48.0	10.0	-38.0	-27.0



5150-5250MHz
Upper Band Edge, 802.11a, Integral 3dBi puck antenna, Ch. 48

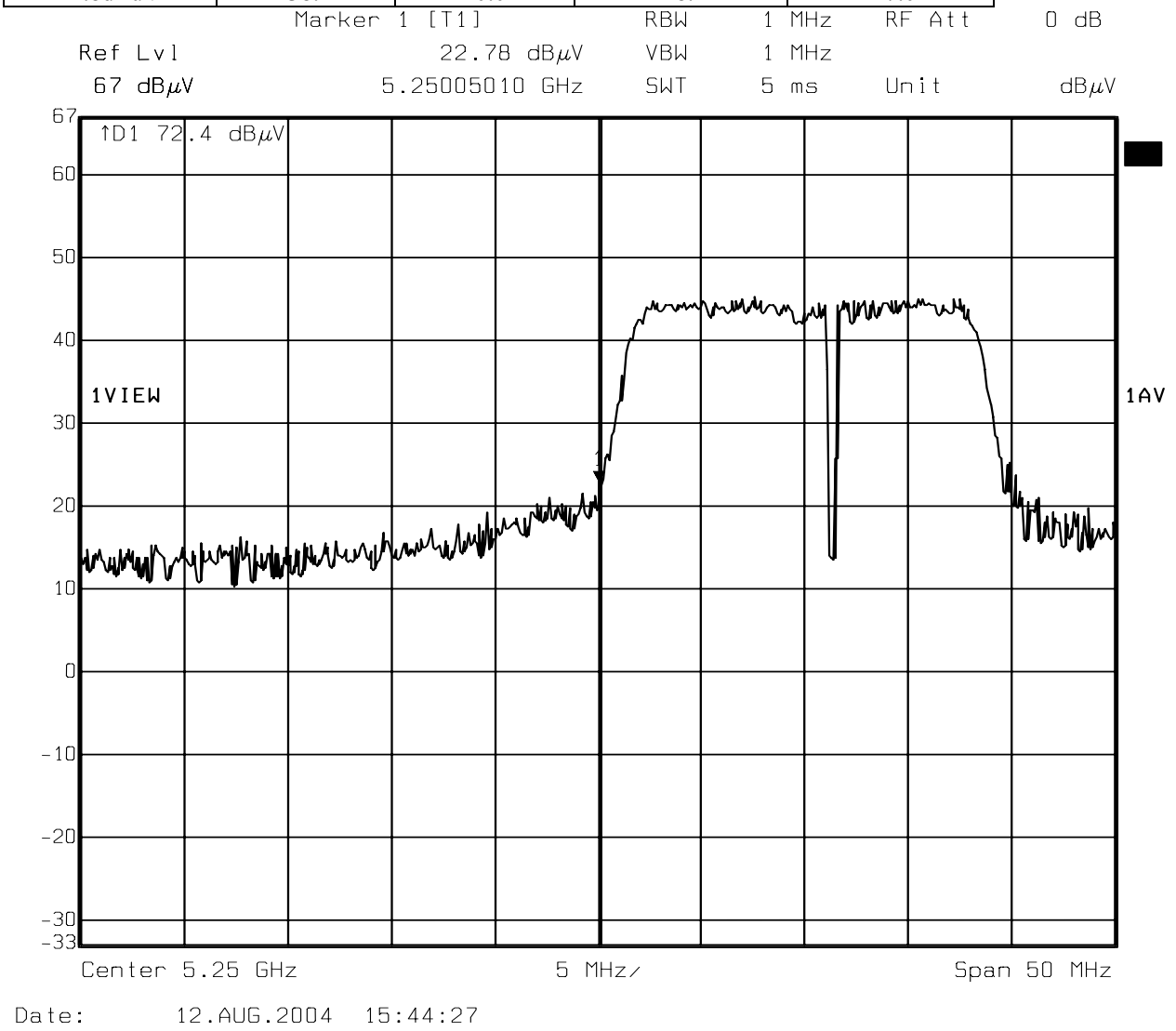
Band Edge Level (dBuV)	Signal Substitution Level (dBm)	Antenna Gain (dBi)	Emission Power Level (dBm)	Limit (dBm)
20.2dBuV	-40.9	10.0	-30.9	-27.0



5250-5350MHz

Upper Band Edge, 802.11a, Integral 3dBi puck antenna, Ch. 52

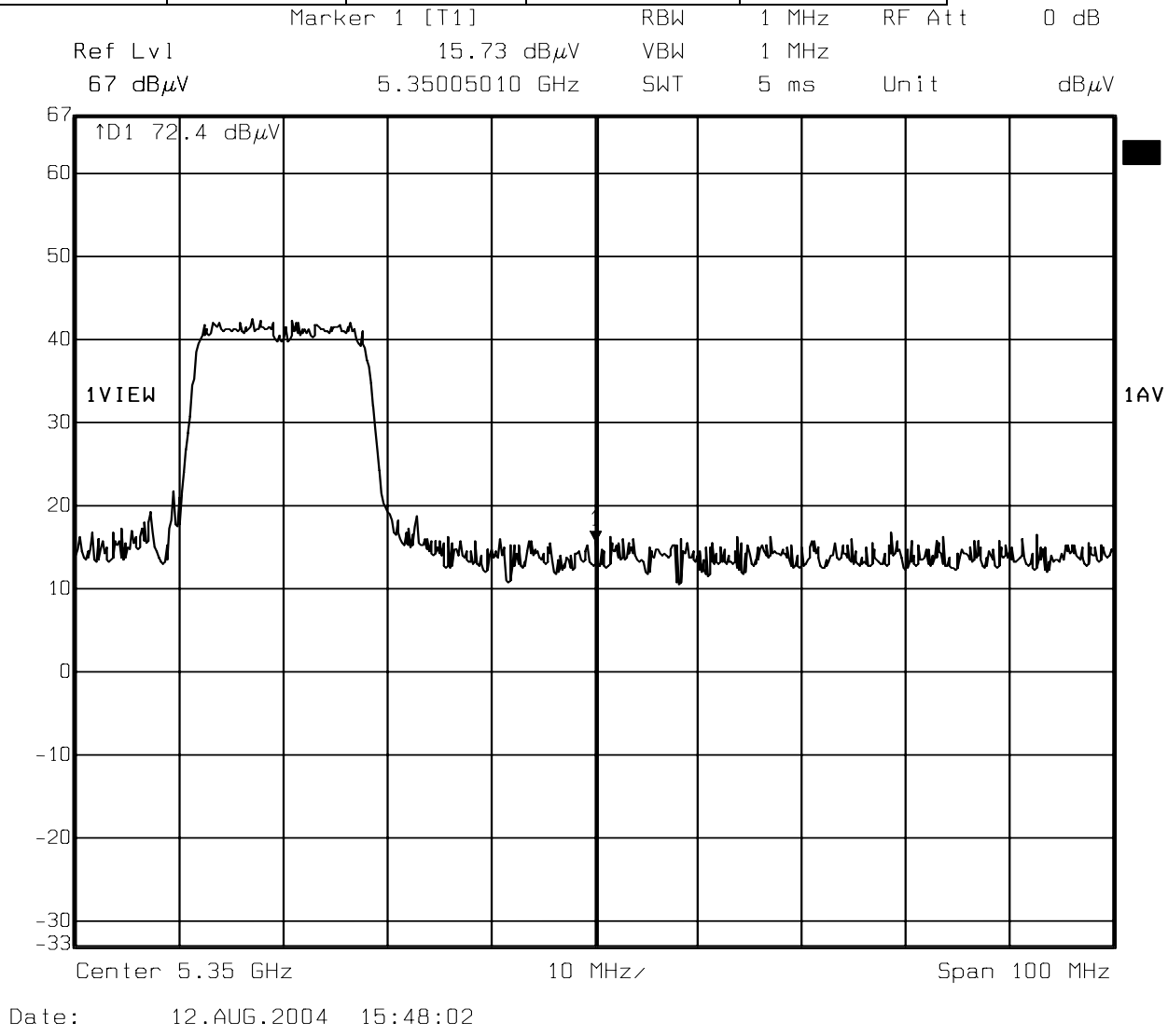
Band Edge Level (dBuV)	Signal Substitution Level (dBm)	Antenna Gain (dBi)	Emission Power Level (dBm)	Limit (dBm)
22.8dBuV	-38.2	10.0	-28.2	-27.0



5250-5350MHz

Upper Band Edge, 802.11a, Integral 3dBi puck antenna, Ch. 64

Band Edge Level (dBuV)	Signal Substitution Level (dBm)	Antenna Gain (dBi)	Emission Power Level (dBm)	Limit (dBm)
15.8dBuV	-45.0	10.0	-35.0	-27.0



1. Radiated Disturbance Test Data:

NEMKO USA, Inc.

San Diego Headquarters:
11696 Sorrento Valley Rd.
San Diego, CA 92121
Tel: (858) 755-5525
Fax: (858) 452-1810

Radiated Emissions Data

Complete	Yes			Job # :	24-446-TRA
Preliminary				Test # :	5
				Page	1 of 1
Client Name :	Trapeze Networks				
EUT Name :	Mobility Point				
EUT Model # :	100				
EUT Part # :					
EUT Serial # :					
EUT Config. :	Emissions found from ch. 64, power level 14, channels 36, 48, 64 searched.				
EUT Mode :	Mode A				
Note:	EUT was scanned for emissions from the Fundamental up to the 10th Harmonic.				
Specification :	FCC part 15.209, 15.407			Reference :	
Rod. Ant. #:	NA	Temp. (deg. C) :	24	Date :	8/24/2004
Bicon Ant.#:	NA	Humidity (%) :	56	Time :	
Log Ant.#:	NA	EUT Voltage :	NA	Staff :	A. Laudani
DRG Ant. #	529	EUT Frequency :	NA	Photo ID:	
Dipole Ant.#:	NA	Phase:	NA	Peak Bandwidth:	RBW-1MHz, VBW-1MHz
Cable#:	20ft	Location:	SOATS	AV Bandwidth	RBW-1MHz, VBW-10Hz
Preamp#:	40db	Distance:	3m		
Spec An.#:	NA				
QP #:	NA				
PreSelect#:	NA				

Meas. Freq. (MHz)	Vertical (dBuV) pk	Vertical (dBuV) av	Horizontal (dBuV) pk	Horizontal (dBuV) av	CF (db)	Max Level (dBuV/m) pk	Max Level (dBuV/m) av	Spec. Limit (dBuV/m) pk	Spec. Limit (dBuV/m) av	Margin dB pk	Margin dB av	EUT Rotation	Ant. Height	Pass Fail Unc.	Comment
10640	66.7	40	63.66	38.5	5.3	72	45.3	74.0	54.0	-2.0	-8.7	0.0	1.0	Pass	ch. 64, power level 14
		No other emissions within 20 dB of the limit were found in the restricted bands													

San Diego Headquarters:
11696 Sorrento Valley Rd.
San Diego, CA 92121
Tel: (858) 755-5525
Fax: (858) 452-1810

NEMKO USA, Inc.

Substitution Method For Radiated Emissions

Complete	Yes		Job # :	24-446-TRA	Test # : 7
Preliminary			Page	1	of 1

Client Name :	Trapeze Networks				
EUT Name :	Mobility Point				
EUT Model # :	100				
EUT Part # :					
EUT Serial # :					
EUT Config. :	Centurian internal Antenna -- Power level 15				
	Mode A				
Specification :	FCC part 15.209			Reference :	
Rod. Ant. #:	NA	Temp. (deg. C) :	24	Date :	8/24/2004
Bicon Ant.#:	NA	Humidity (%) :	56	Time :	
Log Ant.#:	NA	EUT Voltage :	NA	Staff :	A. Laudani
DRG Ant. #	529	EUT Frequency :	NA	Photo ID:	
Dipole Ant.#:	NA	Phase:	NA	Peak Bandwidth:	RBW-1MHz, VBW-1MHz
Cable#:	20ft	Location:	SOATS	AV Bandwidth	RBW-1MHz, VBW-10Hz
Preamp#:	40db	Distance:	3m		
Spec An.#:	NA				
QP #:	NA				
PreSelect#:	NA				

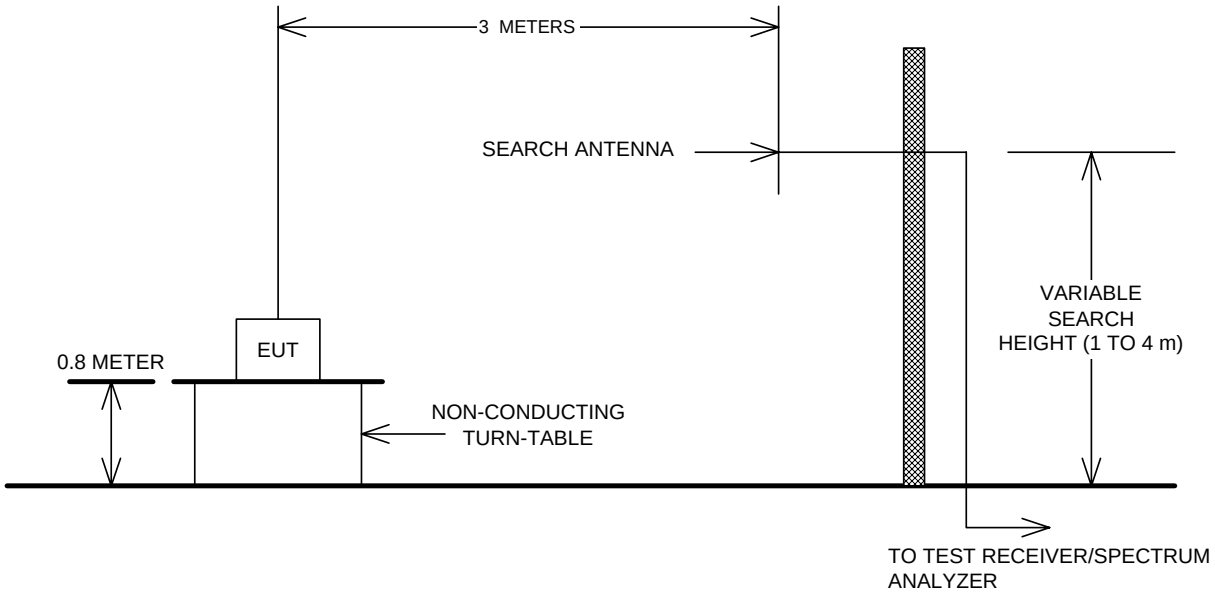
target		Horn	cable	Signal	Total	Spec	Margin
Frequency	level	Gain	loss	Generator	(EIRP)		
mHz	dBuV/m	dBi	dB	dBm	dBm	dBm	dBm
10640	66.7	12.1	11.6	-31.2	-30.7	-27.0	-3.7

Radiated Emissions

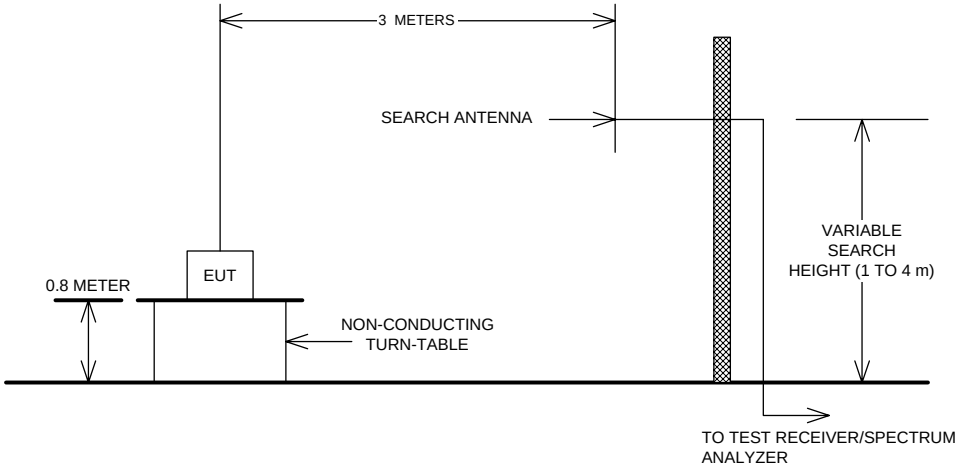
1. Integral 3dBi Puck Antenna

Section 4. Block Diagrams

Test Site For Radiated Emissions



TIA/EIA 603, Signal Substitution Method



Section 5. Test Equipment List

Radiated Emissions Test Equipment					
Client	**Error! Cannot open file.**	EUT Name	**Error! Cannot open file.**		
PAN #	**Error! Reference source not found.**	EUT Model	**Error! Cannot open file.**		
Device Type	*Model #*	*MFG*	*Asset #*	*SN*	*Cal Due*
OATS #1 (North)					
Spectrum Analyzer	1088.3494.30	R & S	835	830320/002	12/11/04
Antenna, Ridged Guide	3115	EMCO	529	2505	3/30/04
Antenna, Ridged Guide	3116	EMCO	625	9611-2325	1/12/05
Preamplifier	40 dB	Miteq	171	NA	NCR
4 GHz High Pass Filter	9SH10-4000	K&L	NA	55	NCR
Antenna, Ridged Guide	3115	EMCO	752	9609-4943	12/19/04
Signal Generator	E8254A	Agilent	836	US41140229	11/6/04

NA: Not Applicable
NCR: No Cal Required
COU: CAL On Use