



Nemko Test Report: 43653RUS1Rev2

Applicant: D.T. Systems
2872 Walnut Hill Lane
Dallas, TX 75229
USA

Equipment Under Test: Micro iDT Plus
(E.U.T.)

In Accordance With: **CFR 47, Paragraph 15.227**
Operation in the Band 26.96 to 27.28 MHz

TESTED BY:

David Light, Senior Wireless Engineer

DATE: 31 March 2010

APPROVED BY:

Tom Tidwell, Telecom Direct

DATE: 09 June 2010

Total Number of Pages: 14

Table of Contents

SECTION 1.	SUMMARY OF TEST RESULTS	3
SECTION 2.	EQUIPMENT UNDER TEST (E.U.T.)	5
SECTION 3.	RADIATED EMISSIONS	7
SECTION 4.	BLOCK DIAGRAMS	11
SECTION 5.	TEST EQUIPMENT LIST	12
ANNEX A		13

Section 1. Summary of Test Results

Manufacturer: D.T. Systems

Model No.: Micro iDT Plus

Serial No.: 801286

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 FCC CFR 47, Paragraph 15.227. All tests were conducted using measurement procedure ANSI C63.4-2003. Radiated emissions are made on an open area test site. A description of the test facility is on file with the FCC.



New Submission



Production Unit



Modification Filing



Pre-Production Unit

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".



NVLAP Lab Code 100426-0

Nemko USA, Inc. authorizes the above named company to reproduce this report provided it is reproduced in its entirety and for use by the company's employees only.

Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. Nemko USA, Inc. accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

This report applies only to the items tested.

Summary Of Test Data

Name of Test	Paragraph Number	Results
Radiated Emissions	15.209 / 15.227	Complies
Powerline Conducted Emissions	RSS-General, 7.2.2	N/A

Notes:

- 1) The EUT is battery powered

Section 2. Equipment Under Test (E.U.T.)

General Equipment Information

Frequency Range: 26.96 to 27.28 MHz

Operating Frequency(ies) of Sample: 27.095 MHz (fixed)

Type of Emission: F1D

Emission Designator: 9K50F1D

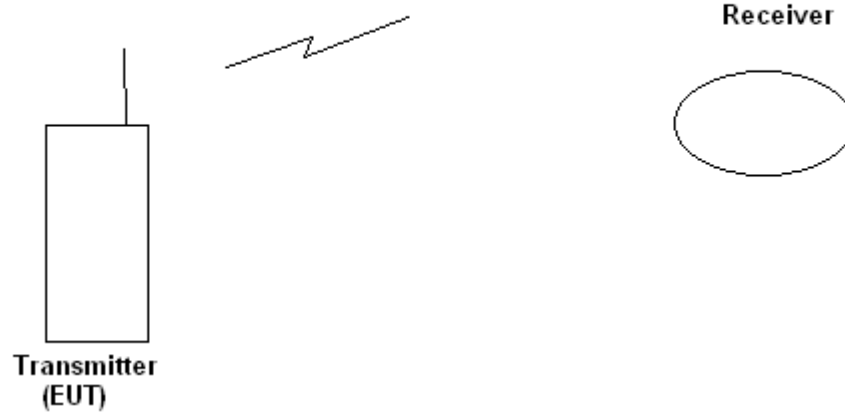
Input Power: 9 Vdc (battery)

Antenna: Integral

Description of E.U.T.

The Micro iDT Plus is a handheld wireless transmitter for training dogs.

System Diagram



Section 3. Radiated Emissions

NAME OF TEST: Radiated Emissions	PARA. NO.: 15.209 / 15.227
TESTED BY: David Light	DATE: 19 March 2010

Test Results: Complies. The maximum field strength of the fundamental emission is 72.2 dB μ V/m @ 3 meters. This is 7.8 dB below the specification limit of 80 dB μ V/m @ 3m.

Test Data: See next page.

Test Equipment Used: 1554-1733-1763-1767-1783

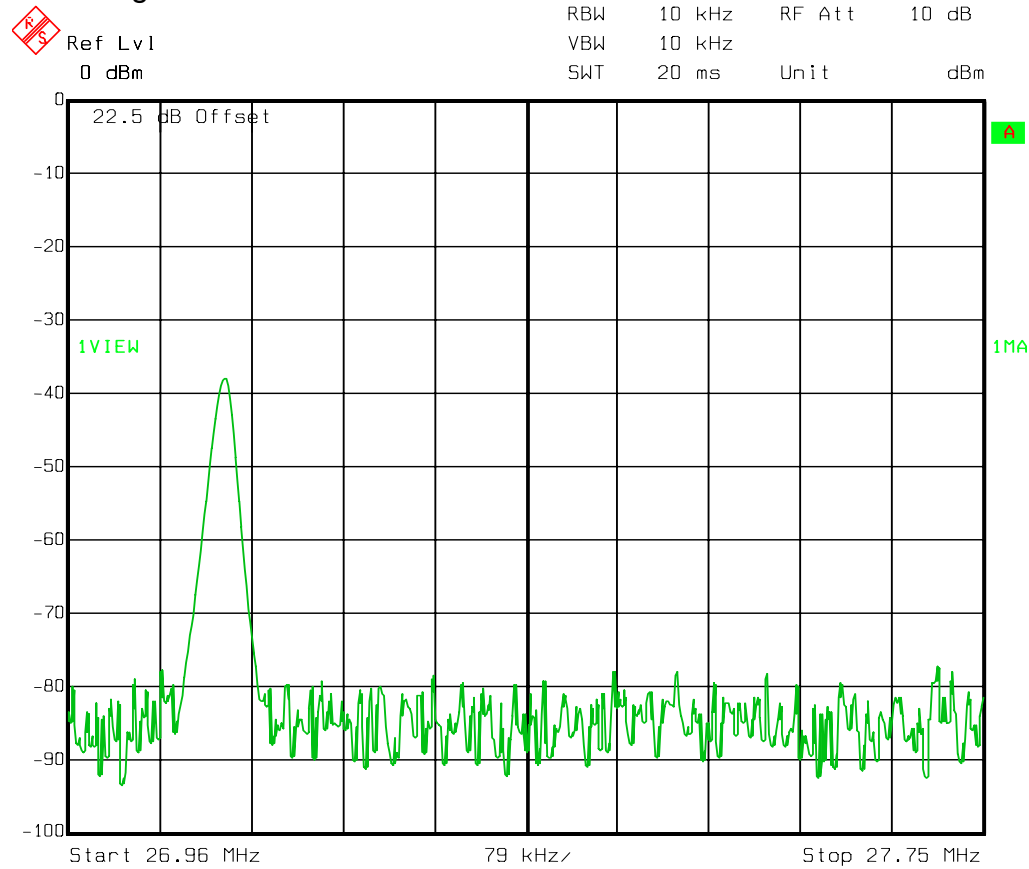
Measurements 9 kHz to 30 MHz RBW=VBW=10 kHz
Measurements 30 to 1000 MHz: RBW=VBW=100 kHz
Detector: Peak

The spectrum was searched from 9 kHz to 1000 MHz. All emissions within 20 dB of the specification limit are reported.

The device was tested on three orthogonal axes.

Fresh batteries were used in testing this device.

Band edge

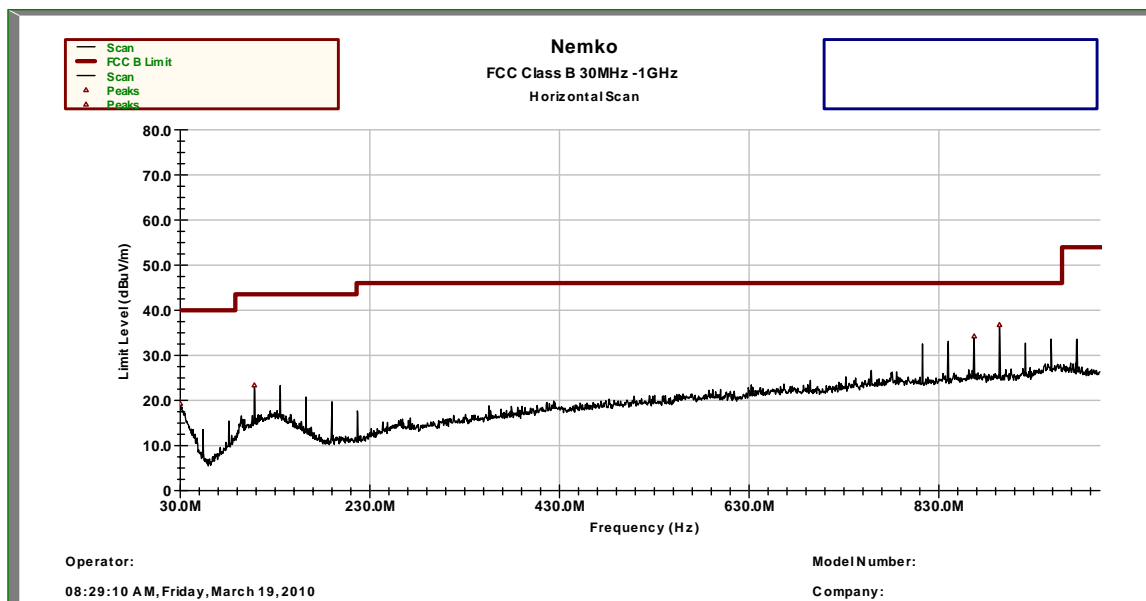


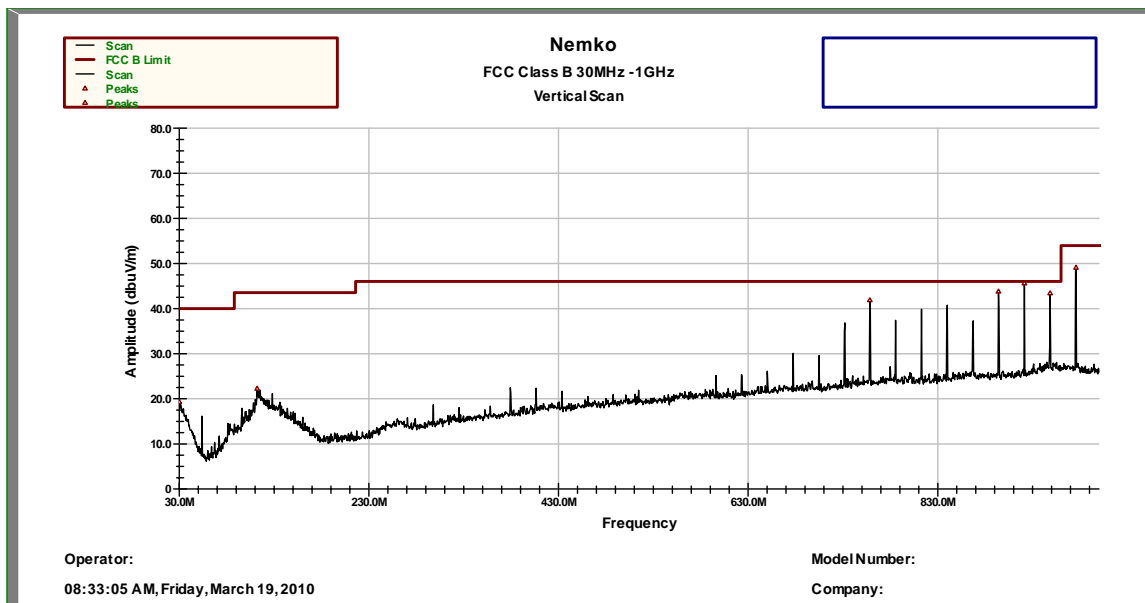
Date: 20.MAY 2010 12:49:17

Test Data – Radiated Emissions

Meas. Freq. (MHz)	Ant. Pol. (H/V)	Atten. (dB)	Meter Reading (dBuV)	Antenna Factor (dB)	Path Loss (dB)	RF Gain (dB)	Corrected Reading (dBuV/m)	Spec. limit (dBuV/m)	CR/SL Diff. (dB)	Pass Fail Unc.	Comment
27	Loop	0	56	15.2	1.0	0.0	72.2	80.0	-7.8	Pass	Carrier

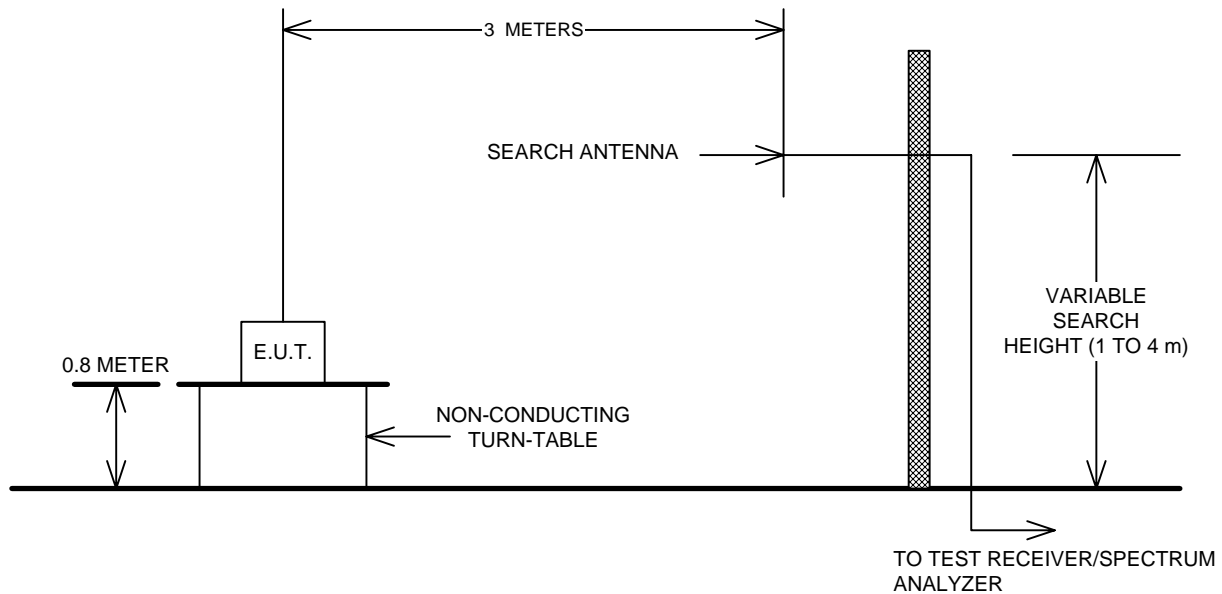
Nemko Radiated Emissions 30 MHz - 1 GHz			
Operator: D. Light Model: Micro iDT Plus			
Frequency (MHz)	Field Strength B Limits	Field Strength dB(uV/m @3m)	Margin (dB)
30.0	40.0	19.3	-20.7
112.2	43.5	22.3	-21.2
758.3	46.0	41.9	-4.1
894.0	46.0	43.8	-2.2
921.3	46.0	44.6	-1.4
948.6	46.0	43.4	-2.6
975.8	54.0	49.1	-4.9





Section 4. Block Diagrams

Test Site For Radiated Emissions



Section 5. Test Equipment List

Asset Tag	Description	Mfgr.	Model	Serial #	Last Cal	Next Cal
1554	PreAmp	CTL			29-Sep-2009	29-Sep-2010
1733	Antenna, Active Loop	EMCO	6507	45939	11-Jun-2009	11-Jun-2010
1763	Antenna, Bilog	Schaffner	CBL 6111D	22926	28-Jan-2010	28-Jan-2011
1767	Receiver,	R&S	ESIB26	837491/0002	04-Nov-2009	04-Nov-2010
1783	Cable				29-Sep-2009	29-Sep-2010

ANNEX A

RESTRICTED BANDS

Section A Restricted Bands of Operation

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42-16.423	399.9-410	4.5-5.15
0.49 - 0.51	16.69475-16.69525	608-614	5.35-5.46
2.1735 - 2.1905	16.80425-16.80475	960-1240	7.25-7.75
3.020 - 3.026	25.5-25.67	1300-1427	8.025-8.5
4.125 - 4.128	37.5-38.25	1435-1626.6	9.0-9.2
4.17725 - 4.17775	73-74.6	1645.5-1646.5	9.3-9.5
4.20725 - 4.20775	74.8-75.2	1660-1710	10.6-12.7
6.215 - 6.218	108-121.94	1718.8-1722.2	13.25-13.4
6.31175 - 6.31225	123-138	2220-2300	14.47-14.5
8.291 - 8.294	149.9-150.05	2310-2390	15.35-16.2
8.362 - 8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625 - 8.38675	156.7-156.9	2655-2900	22.01-23.12
8.41425 - 8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29 - 12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975 - 12.52025	240-285	3345.8-3358	36.43-36.5
12.57675 - 12.57725	322-335.4	3600-4400	Above 38.6
13.36 - 13.41			