



ADDENDUM TO TEST REPORT FC00-086

FOR THE

CONTAINMENT TRANSMITTER, M022900

**FCC PART 15 SUBPART C
SECTIONS 15.207 & 15.209**

COMPLIANCE

DATE OF ISSUE: SEPTEMBER 29, 2000

PREPARED FOR:

Innotek Pet Products
One Innoway
Garrett, IN 46738

W.O. No: 75021

Report No: FC00-086A

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Date of test: August 26, 2000

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TABLE OF CONTENTS

| | |
|---|---|
| Administrative Information | 3 |
| Summary Of Results..... | 4 |
| Equipment Under Test (EUT) Description..... | 4 |
| Measurement Uncertainty..... | 4 |
| Peripheral Devices | 4 |
| Report Of Measurements..... | 5 |
| Table 1: Fundamental Emission Level | 5 |
| Table 2: Six Highest Radiated Emission Levels - 9 kHz - 30 MHz..... | 6 |
| Test Data Sheets | 7 |

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ADMINISTRATIVE INFORMATION

DATE OF TEST: August 26, 2000

PURPOSE OF TEST: To demonstrate the compliance of the Containment Transmitter, M022900, with the requirements for FCC Part 15 Subpart C Sections 15.207 & 15.209 devices. This addendum is to correct the spec limit on the FCC 15.209 data sheets and to add the peak readings to Table 1.

MANUFACTURER: Innotek Pet Products
One Innoway
Garrett, IN 46738

REPRESENTATIVE: Pete Johnson

TEST LOCATION: CKC Laboratories, Inc.
22105 Wilson River Hwy
Tillamook, OR 97141

TEST PERSONNEL: Mike Wilkinson

TEST METHOD: ANSI C63.4 1992

FREQUENCY RANGE TESTED: 9 kHz - 1000 MHz

EQUIPMENT UNDER TEST:

Pet Containment Transmitter

Manuf: Innotek Pet Products
Model: M022900
Serial: 022901 I 041633
FCC ID: KBS050229 (Pending)

Power Supply

Manuf: Innotek Pet Products
Model: HD01220
Serial: none
FCC ID: N/A

SUMMARY OF RESULTS

The Innotek Pet Products Containment Transmitter, M022900, was tested in accordance with ANSI C63.4 1992 for compliance with FCC Part 15 Subpart C Sections 15.207 & 15.209.

As received, the above equipment was found to be fully compliant with the limits of FCC Part 15 Subpart C Sections 15.207 & 15.209. The results in this report apply only to the items tested, as identified herein.

EQUIPMENT UNDER TEST (EUT) DESCRIPTION

The units transmit a coded signal used by a receiving unit (normally worn by a dog) to determine position relative to the transmitting antenna.

MEASUREMENT UNCERTAINTY

Associated with data in this report is a ± 4 dB measurement uncertainty.

PERIPHERAL DEVICES

The EUT was not tested with peripheral devices.

REPORT OF MEASUREMENTS

The following tables report the six highest worst case levels recorded during the tests performed on the Containment Transmitter, M022900. All readings taken are peak readings unless otherwise noted by a “Q” or “A”.

| Table 1: Fundamental Emission Level | | | | | | | | | |
|--|------------------|--------------------|-----|-------|-------|----------------------|---------------|--------|-------|
| FREQUENCY | METER READING | CORRECTION FACTORS | | | | CORRECTED READING | SPEC LIMIT | MARGIN | NOTES |
| | | Mag L | Amp | Cable | Dist | | | | |
| MHz | dB μ V | dB | dB | dB | dB | dB μ V/m | dB μ V/m | dB | |
| 0.014 | 82.2 | 16.1 | | 0.5 | -11.0 | 87.8 | 105.0 | -17.2 | NA |
| 0.014 | 82.2 | 16.1 | | 0.5 | | 98.8 | 105.0 | -6.2 | QA |

Test Method: ANSI C63.4 1992
 Spec Limit: FCC Part 15.209
 Test Distance: 10 Meters

N = No Polarization, Magnetic Loop Antenna Used
 A = Average Reading
 Q = Quasi Peak Reading

COMMENTS: EUT is turned on and transmitting continuously with the Field Width adjustment at maximum. A 200 foot 14 gage solid copper wire antenna was connected to the EUT. The antenna was arranged in a circle. The EUT and antenna measurement site was a flat field with short grass approximately 200 x 150 feet with no structures, underground cable or pipes. The temperature was 73°F and the humidity was 50%. AC input to Direct Plug In Transformer was 120V, 60 Hz. Frequency range investigated was 9 kHz to 30 MHz -11 dB correction factor used on the Transmitter Fundamental reading was derived from the measured 26% duty cycle over 100 msec. pulsed operation (20Log 0.26= 11dB).

Table 2: Six Highest Radiated Emission Levels - 9 kHz - 30 MHz

| FREQUENCY MHz | METER READING dBμV | CORRECTION FACTORS | | | | CORRECTED READING dBμV/m | SPEC LIMIT dBμV/m | MARGIN dB | NOTES |
|------------------|--------------------------|--------------------|-----------|-------------|------------|--------------------------------|-------------------------|--------------|-------|
| | | Mag L dB | Amp dB | Cable dB | Dist dB | | | | |
| 0.025 | 78.0 | 12.7 | | 0.5 | | 91.2 | 99.8 | -8.6 | N |
| 0.041 | 78.8 | 11.3 | | 0.5 | | 90.6 | 95.4 | -4.8 | N |
| 0.068 | 75.0 | 10.5 | | 0.5 | | 86.0 | 91.0 | -5.0 | N |
| 0.095 | 71.7 | 10.2 | | 0.5 | | 82.4 | 88.1 | -5.7 | N |
| 0.109 | 70.4 | 10.1 | | 0.5 | | 81.0 | 86.9 | -5.9 | N |
| 0.163 | 66.2 | 10.0 | | 0.5 | | 76.7 | 83.4 | -6.7 | N |

Test Method: ANSI C63.4 1992
 Spec Limit: FCC 15.209
 Test Distance: 10 Meters

N = No Polarization, Magnetic Loop Antenna Used

COMMENTS: EUT is turned on and transmitting continuously with the Field Width adjustment at maximum. A 200 foot 14 gage solid copper wire antenna was connected to the EUT. The antenna was arranged in a circle. The EUT and antenna measurement site was a flat field with short grass approximately 200 x 150 feet with no structures, underground cable or pipes. The temperature was 73°F and the humidity was 50%. AC input to Direct Plug In Transformer was 120V, 60 Hz. Frequency range investigated was 9 kHz to 30 MHz -11 dB correction factor used on the Transmitter Fundamental reading was derived from the measured 26% duty cycle over 100 msec. pulsed operation ($20\text{Log } 0.26 = 11\text{dB}$).

Test Data Sheets

Test Location: CKC Laboratories, Inc. • 22105 Wilson River Hwy • Tillamook, OR 97141 • 800 500-4EMC

Customer: **Innotek Pet Products**
 Specification: **FCC15.209**
 Work Order #: **75021** Date: 08/24/2000
 Test Type: **Maximized Emissions** Time: 15:00:24
 Equipment: **Pet Containment Transmitter** Sequence#: 5
 Manufacturer: Innotek Pet Products Tested By: Mike Wilkinson
 Model: M022900
 S/N: 022901 I 041633

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model # | S/N |
|------------------------------|----------------------|---------|-----------------|
| Pet Containment Transmitter* | Innotek Pet Products | M022900 | 022901 I 041633 |
| Power Supply | Innotek Pet Products | HD01220 | none |

Support Devices:

| Function | Manufacturer | Model # | S/N |
|----------|--------------|---------|-----|
|----------|--------------|---------|-----|

Test Conditions / Notes:

EUT is turned on and transmitting continuously with the Field Width adjustment at maximum. A 200 foot 14 gage solid copper wire antenna was connected to the EUT. The antenna was arranged in a circle. The EUT and antenna measurement site was a flat field with short grass approximately 200 x 150 feet with no structures, underground cable or pipes. The temperature was 73°F. and the humidity was 50 % AC input to Direct Plug In Transformer was 120V, 60 Hz. Frequency range investigated was 9 kHz to 30 MHz -11 dB correction factor used on the Transmitter Fundamental reading was derived from the measured 26% duty cycle over 100 msec. pulsed operation (20Log 0.26= 11dB).

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

| # | Freq MHz | Rdng dB μ V | Reading listed by margin. | | | Dist Table | Corr dB μ V/m | Spec dB μ V/m | Margin dB | Polar Ant |
|----|-------------|--------------------|---------------------------|-------------|-------------|---------------|----------------------|----------------------|--------------|--------------|
| | | | Cbl-2 dB | Mag L dB | Ave F dB | | | | | |
| 1 | 40.900k | 78.8 | +0.5 | +11.3 | +0.0 | +0.0 | 90.6 | 95.4 | -4.8 | None |
| 2 | 67.830k | 75.0 | +0.5 | +10.5 | +0.0 | +0.0 | 86.0 | 91.0 | -5.0 | None |
| 3 | 94.870k | 71.7 | +0.5 | +10.2 | +0.0 | +0.0 | 82.4 | 88.1 | -5.7 | None |
| 4 | 108.550k | 70.4 | +0.5 | +10.1 | +0.0 | +0.0 | 81.0 | 86.9 | -5.9 | None |
| 5 | 162.960k | 66.2 | +0.5 | +10.0 | +0.0 | +0.0 | 76.7 | 83.4 | -6.7 | None |
| 6 | 24.550k | 78.0 | +0.5 | +12.7 | +0.0 | +0.0 | 91.2 | 99.8 | -8.6 | None |
| 7 | 190.220k | 62.2 | +0.5 | +10.0 | +0.0 | +0.0 | 72.7 | 82.0 | -9.3 | None |
| 8 | 54.300k | 72.3 | +0.5 | +10.6 | +0.0 | +0.0 | 83.4 | 92.9 | -9.5 | None |
| 9 | 488.000k | 51.7 | +0.5 | +10.1 | +0.0 | +0.0 | 62.3 | 73.8 | -11.5 | None |
| 10 | 4.140M | 26.0 | +0.5 | +10.6 | +0.0 | +0.0 | 37.1 | 49.5 | -12.4 | None |

| | | | | | | | | | | |
|----|----------------|------|------|-------|-------|------|------|-------------------------------------|-------|------|
| 11 | 27.030k | 73.7 | +0.5 | +12.4 | +0.0 | +0.0 | 86.6 | 99.0 | -12.4 | None |
| 12 | 32.440k | 70.3 | +0.5 | +11.9 | +0.0 | +0.0 | 82.7 | 97.4 | -14.7 | None |
| 13 | 6.585M | 22.6 | +0.5 | +10.7 | +0.0 | +0.0 | 33.8 | 49.5 | -15.7 | None |
| 14 | 13.518k Ave | 82.2 | +0.5 | +16.1 | -11.0 | +0.0 | 87.8 | 105.0 Transmitter Fundamental | -17.2 | None |
| ^ | 13.518k | 82.2 | +0.5 | +16.1 | +0.0 | +0.0 | 98.8 | 105.0 Transmitter Fundamental | -6.2 | None |
| 16 | 19.180k | 59.0 | +0.5 | +13.6 | +0.0 | +0.0 | 73.1 | 101.9 | -28.8 | None |
| 17 | 26.140M | 8.3 | +0.5 | +9.5 | +0.0 | +0.0 | 18.3 | 49.5 | -31.2 | None |