

# **TIMCO** ENGINEERING INC.

849 NW State Road 45

Newberry, Florida 32669

<http://www.timcoengr.com>

888.472.2424 F 352.472.2030 email: [sid@timcoengr.com](mailto:sid@timcoengr.com)



## Test Report

Product Name: CB TRANSCEIVER

FCC ID: BB019DXIV

Applicant:

**COBRA ELECTRONICS CORPORATION  
6500 WEST CORTLAND STREET  
CHICAGO, IL 60707**

**Date Tested: MARCH 1, 2005**

**APPLICANT:** COBRA ELECTRONICS CORPORATION

**FCC ID:** BB019DXIV

**REPORT #:** C:\COBRA\342AUT5\342AUT5TestReport.doc

**COVER SHEET**



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                  ANTENNA TERMINALS  
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### **EXHIBITS CONTAINING:**

CLASS II PERMISSIVE CHANGE REQUEST LETTER  
INTERNAL PHOTOGRAPHS  
LIST OF MODIFICATIONS TO DEVICE

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## 2.1051(a)

### Spurious emissions at antenna terminals (conducted):

Data below shows the level of conducted spurious responses. The carrier was modulated 100% using a 2500 Hz tone. The spectrum was scanned from 0.4 to at least the 10th harmonic of the fundamental. The measurements were made in accordance with standard TIA/EIA-603.

**FCC Limit:** At least 60 dB on any frequency twice or greater than twice the fundamental.

#### TEST DATA:

| TF   | EF    | dB below<br>carrier |
|------|-------|---------------------|
| 27.2 | 27.2  | 0                   |
|      | 54.4  | 75.8                |
|      | 81.6  | 67.9                |
|      | 108.8 | 69.8                |
|      | 136   | 75.4                |
|      | 163.2 | 72.8                |
|      | 190.4 | 65.6                |
|      | 217.6 | 78.5                |
|      | 244.8 | 79.8                |
|      | 272   | 93                  |

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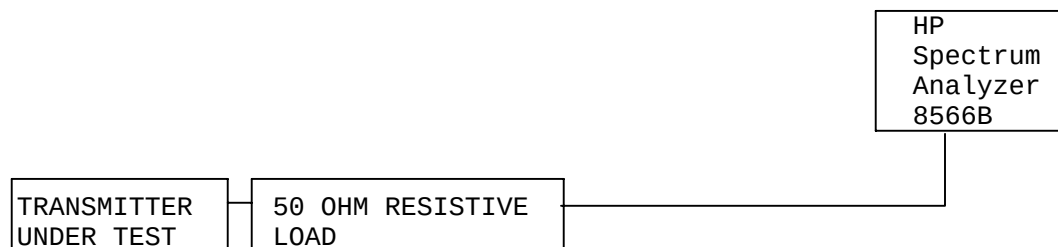
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## Method of Measuring Conducted Spurious Emissions



**METHOD OF MEASUREMENT:** The procedure used was TIA/EIA-603 STANDARD without any exceptions. The measurements were made at TIMCO ENGINEERING INC. 849 N.W. State Road 45, Newberry, Florida 32669.

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**2.1053**

**Field strength of spurious emissions:**

**NAME OF TEST:**

**RADIATED SPURIOUS EMISSIONS**

**REQUIREMENTS:**

The FCC Limits for radiated emissions are the same as previously stated for the conducted emissions.

**TEST DATA:**

| <b>Emission<br/>Frequency<br/>MHz</b> | <b>Ant.<br/>Polarity</b> | <b>dB<br/>Below<br/>Carrier<br/>(dBc)</b> |
|---------------------------------------|--------------------------|-------------------------------------------|
| <b>27.20</b>                          |                          | <b>0</b>                                  |
| <b>54.40</b>                          | <b>H</b>                 | <b>84.43</b>                              |
| <b>81.60</b>                          | <b>V</b>                 | <b>76.15</b>                              |
| <b>108.80</b>                         | <b>H</b>                 | <b>69.01</b>                              |
| <b>136.00</b>                         | <b>H</b>                 | <b>64.35</b>                              |
| <b>163.20</b>                         | <b>H</b>                 | <b>60.69</b>                              |
| <b>190.40</b>                         | <b>V</b>                 | <b>61.94</b>                              |
| <b>217.60</b>                         | <b>H</b>                 | <b>72.45</b>                              |
| <b>244.80</b>                         | <b>H</b>                 | <b>68.35</b>                              |
| <b>272.00</b>                         | <b>H</b>                 | <b>67.75</b>                              |

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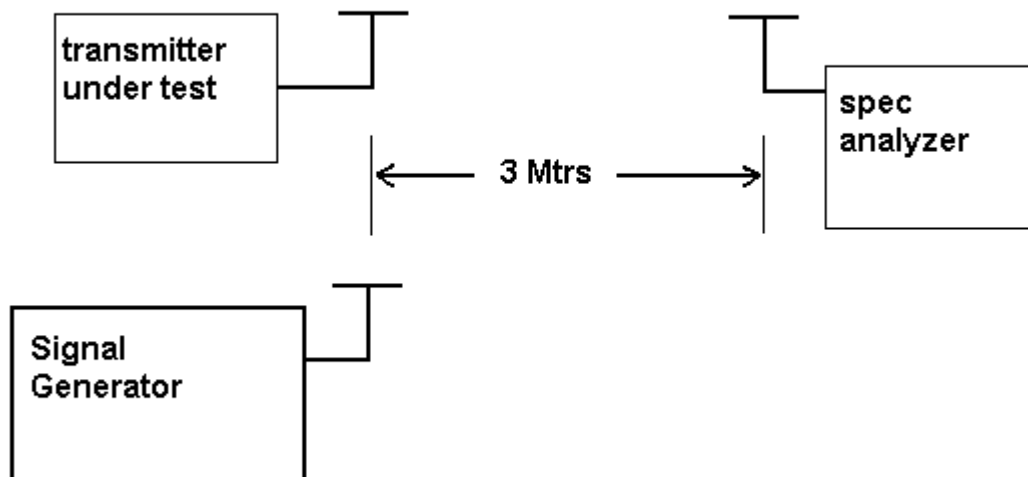
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## Method of Measuring Radiated Spurious Emissions



**METHOD OF MEASUREMENT:** The spectrum was scanned from 30 MHz to at least the tenth harmonic of the fundamental. This test was conducted per EIA/TIA-382-A Standard using the substitution method. Measurements were made at the open field test site of TIMCO ENGINEERING INC. located 849 NW State Road 45, Newberry, FL 32669.

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## EMC Equipment List

| Device                          | Manufacturer    | Model         | Serial Number         | Cal/Char Date   | Due Date or Status |
|---------------------------------|-----------------|---------------|-----------------------|-----------------|--------------------|
| 3-Meter OATS                    | TEI             | N/A           | N/A                   | Listed 1/13/03  | 1/12/06            |
| 3/10-Meter OATS                 | TEI             | N/A           | N/A                   | Listed 3/27/04  | 3/26/07            |
| Tan Tower Spectrum Analyzer     | HP              | 8566B Opt 462 | 3138A07786 3144A20661 | CAL 9/23/03     | 9/23/05            |
| Tan Tower RF Preselector        | HP              | 85685A        | 3221A01400            | CAL 9/23/03     | 9/23/05            |
| Tan Tower Quasi-Peak Adapter    | HP              | 85650A        | 3303A01690            | CAL 9/23/03     | 9/23/05            |
| Tan Tower Preamplifier          | HP              | 8449B-H02     | 3008A00372            | CAL 9/23/03     | 9/23/05            |
| Blue Tower Spectrum Analyzer    | HP              | 8568B         | 2928A04729 2848A18049 | CAL 4/15/03     | 4/15/05            |
| Blue Tower RF Preselector       | HP              | 85685A        | 2620A00294            | CAL 4/27/04     | 4/27/06            |
| Blue Tower Quasi-Peak Adapter   | HP              | 85650A        | 2811A01279            | CAL 4/15/03     | 4/15/05            |
| Silver Tower Spectrum Analyzer  | HP              | 8566B Opt 462 | 3552A22064 3638A08608 | CAL 3/22/04     | 3/22/06            |
| Silver Tower RF Preselector     | HP              | 85685A        | 2926A00983            | CAL 3/22/04     | 3/22/06            |
| Silver Tower Quasi-Peak Adapter | HP              | 85650A        | 3303A01844            | CAL 3/22/04     | 3/22/06            |
| Silver Tower Preamplifier       | HP              | 8449B         | 3008A01075            | CAL 3/22/04     | 3/22/06            |
| Biconnical Antenna              | Electro-Metrics | BIA-25        | 1171                  | CAL 4/26/01     | 4/26/03            |
| Biconnical Antenna              | Eaton           | 94455-1       | 1096                  | CAL 8/17/04     | 8/17/06            |
| Biconnical Antenna              | Eaton           | 94455-1       | 1057                  | CAL 3/18/03     | 3/18/05            |
| BiconiLog Antenna               | EMCO            | 3143          | 9409-1043             | No Cal Required |                    |
| Log-Periodic Antenna            | Electro-Metrics | LPA-25        | 1122                  | CAL 8/26/04     | 8/26/06            |
| Log-Periodic                    | Electro-        | LPA-30        | 409                   | CAL             | 3/4/05             |

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| Device                           | Manufacturer                | Model      | Serial Number | Cal/Char Date | Due Date or Status |
|----------------------------------|-----------------------------|------------|---------------|---------------|--------------------|
| Antenna                          | Metrics                     |            |               | 3/4/03        |                    |
| Log-Periodic Antenna             | Eaton                       | 96005      | 1243          | CAL 5/8/03    | 5/8/05             |
| Dipole Antenna Kit               | Electro-Metrics             | TDA-30/1-4 | 152           | CAL 3/21/01   | 3/21/04            |
| Dipole Antenna Kit               | Electro-Metrics             | TDA-30/1-4 | 153           | CAL 9/26/02   | 9/26/05            |
| Double-Ridged Horn Antenna       | Electro-Metrics             | RGA-180    | 2319          | CAL 2/17/03   | 2/17/05            |
| Horn Antenna *(at 3 meters)      | Electro-Metrics             | EM-6961    | 6246          | CAL 3/31/03   | 3/31/05            |
| Horn Antenna *(at 10 meters)     | Electro-Metrics             | EM-6961    | 6246          | CAL 6/4/03    | 6/4/05             |
| Passive Loop Antenna             | EMC Test Systems            | EMCO 6512  | 9706-1211     | CHAR 7/10/01  | 7/10/03            |
| Harmonic Mixer with Horn Antenna | Oleson Microwave Labs       | M08HW/A    | F30425-1      | CHAR 4/25/03  | 4/25/05            |
| Harmonic Mixer with Horn Antenna | Oleson Microwave Labs       | M12HW/A    | E30425-1      | CHAR 4/25/03  | 4/25/05            |
| LISN                             | Electro-Metrics             | ANS-25/2   | 2604          | CAL 8/27/04   | 8/27/06            |
| LISN                             | Electro-Metrics             | EM-7820    | 2682          | CAL 3/12/03   | 3/12/05            |
| Termaline Wattmeter              | Bird Electronic Corporation | 611        | 16405         | CAL 7/16/04   | 7/16/06            |
| Termaline Wattmeter              | Bird Electronic Corporation | 6104       | 1926          | CAL 7/16/04   | 7/16/06            |
| Oscilloscope                     | Tektronix                   | 2230       | 300572        | CAL 7/3/03    | 7/3/05             |
| System One                       | Audio Precision             | System One | SYS1-45868    | CHAR 4/25/02  | 4/25/04            |
| Temperature Chamber              | Tenney Engineering          | TTRC       | 11717-7       | CHAR 1/22/02  | 1/22/04            |
| AC Voltmeter                     | HP                          | 400FL      | 2213A14499    | CAL 7/19/04   | 7/19/06            |
| AC Voltmeter                     | HP                          | 400FL      | 2213A14261    | CHAR 10/15/01 | 10/15/03           |
| AC Voltmeter                     | HP                          | 400FL      | 2213A14728    | CHAR 10/15/01 | 10/15/03           |
| Digital Multimeter               | Fluke                       | 77         | 35053830      | CHAR 1/8/02   | 1/8/04             |

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| Device                 | Manufacturer         | Model           | Serial Number | Cal/Char Date | Due Date or Status |
|------------------------|----------------------|-----------------|---------------|---------------|--------------------|
| Digital Multimeter     | Fluke                | 77              | 43850817      | CHAR 1/8/02   | 1/8/04             |
| Digital Multimeter     | HP                   | E2377A          | 2927J05849    | CHAR 1/8/02   | 1/8/04             |
| Multimeter             | Fluke                | FLUKE-77-3      | 79510405      | CHAR 9/26/01  | 9/26/03            |
| Peak Power Meter       | HP                   | 8900C           | 2131A00545    | CAL 7/2/03    | 7/2/05             |
| Power Sensor           | Agilent Technologies | 84811A          | 2551A02705    | CAL 7/2/03    | 7/2/05             |
| Power Meter            | HP                   | 432A            | 1141A07655    | CAL 4/15/03   | 4/15/05            |
| Power Sensor           | HP                   | 478A            | 72129         | CAL 4/15/03   | 4/15/05            |
| Power Meter And Sensor | Bird                 | 4421-107 & 4022 | 0166 & 0218   | CAL 4/16/03   | 4/16/05            |
| Digital Thermometer    | Fluke                | 2166A           | 42032         | CAL 7/19/04   | 7/19/06            |
| Thermometer            | Traulsen             | SK-128          |               | CHAR 1/22/02  | 1/22/04            |
| Thermometer            | Extech               | 4028            | 14871-2       | CAL 3/7/03    | 3/7/05             |
| Hygro-Thermometer      | Extech               | 445703          | 0602          | CAL 10/4/02   | 10/4/04            |
| Frequency Counter      | HP                   | 5352B           | 2632A00165    | CAL 8/3/04    | 8/3/06             |
| Frequency Counter      | HP                   | 5385A           | 2730A03025    | CAL 3/7/03    | 3/7/05             |
| Service Monitor        | IFR                  | FM/AM 500A      | 5182          | CAL 11/22/00  | Out of Service     |
| Comm. Serv. Monitor    | IFR                  | FM/AM 1200S     | 6593          | CAL 5/12/02   | 5/12/04            |
| Signal Generator       | HP                   | 8640B           | 2308A21464    | CAL 8/26/04   | 8/26/06            |
| Sweep Generator        | Wiltron              | 6648            | 101009        | CAL 4/15/03   | 4/15/05            |
| Sweep Generator        | Wiltron              | 6669M           | 007005        | CAL 3/3/03    | 3/3/05             |
| Modulation Analyzer    | HP                   | 8901A           | 3435A06868    | CAL 9/5/01    | 9/5/03             |
| Modulation Meter       | Boonton              | 8220            | 10901AB       | CAL 4/15/03   | 4/15/05            |
| Near Field Probe       | HP                   | HP11940A        | 2650A02748    | CHAR          | Out of             |

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| Device                         | Manufacturer                  | Model            | Serial Number | Cal/Char Date   | Due Date or Status |
|--------------------------------|-------------------------------|------------------|---------------|-----------------|--------------------|
|                                |                               |                  |               | 2/1/01          | Service            |
| BandReject Filter              | Lorch Microwave               | 5BR4-2400/60-N   | Z1            | CHAR 4/17/03    | 4/17/05            |
| BandReject Filter              | Lorch Microwave               | 6BR6-2442/300-N  | Z1            | CHAR 4/17/03    | 4/17/05            |
| BandReject Filter              | Lorch Microwave               | 5BR4-10525/900-S | Z1            | CHAR 4/12/03    | 4/12/05            |
| Notch Filter                   | Lorch Microwave               | 5BRX-850/X100-N  | AD-1          | CHAR 4/17/03    | 4/17/05            |
| High Pass Filter               | Unk                           | 3768(5)-400      | 041           | CHAR 12/17/02   | 12/17/04           |
| High Pass Filter               | Microlab                      | HA-10N           |               | CHAR 11/17/02   | 11/17/04           |
| High Pass Filter               | Microlab                      | HA-20N           |               | CHAR 12/17/02   | 12/17/04           |
| Audio Oscillator               | HP                            | 653A             | 832-00260     | CHAR 12/1/02    | 12/1/04            |
| Audio Generator                | B&K Precision                 | 3010             | 8739686       | CHAR 12/1/02    | 12/1/04            |
| Frequency Counter              | HP                            | 5382A            | 1620A03535    | CHAR 3/2/01     | Out of Service     |
| Frequency Counter              | HP                            | 5385A            | 3242A07460    | CAL 3/7/03      | 3/7/05             |
| Amplifier                      | HP                            | 11975A           | 2738A01969    | No Cal Required |                    |
| Egg Timer                      | Unk                           |                  |               | CHAR 2/1/02     | 2/1/04             |
| Measuring Tape-20M             | Kraftixx                      | 0631-20          |               | CHAR 2/1/02     | 2/1/04             |
| Measuring Tape-7.5M            | Kraftixx                      | 7.5M PROFI       |               | CHAR 2/1/02     | 2/1/04             |
| Coaxial Cable #51              | Insulated Wire Inc.           | NPS 2251-2880    | Timco #51     | CHAR 1/23/02    | 1/23/04            |
| Coaxial Cable #64              | Semflex Inc.                  | 60637            | Timco #64     | CHAR 1/24/02    | 1/24/04            |
| Coaxial Cable #65              | General Cable Co.             | E9917 RG233/U    | Timco #65     | CHAR 1/23/02    | 1/23/04            |
| Coaxial Cable #106             | Unknown                       | Unknown          | Timco #106    | CHAR 1/23/02    | 1/23/04            |
| Injection Probe                | Fischer Custom Communications | F-120-9A         | 270           | CAL 6/1/01      | 6/1/03             |
| Power Line Coupling/Decoupling | Fischer Custom Communications | FCC-801-M2-16A   | 01048         | CAL 8/29/01     | 8/29/03            |

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| Device                                   | Manufacturer                  | Model                | Serial Number  | Cal/Char Date   | Due Date or Status |
|------------------------------------------|-------------------------------|----------------------|----------------|-----------------|--------------------|
| Network                                  |                               |                      |                |                 |                    |
| Power Line Coupling/Decoupling Network   | Fischer Custom Communications | FCC-801-M3-16A       | 01060          | CAL 8/29/01     | 8/29/03            |
| VHF/UHF Current Probe                    | Fischer Custom Communications | F-52                 | 130            | CAL 8/30/01     | 8/30/03            |
| Passive Impedance Adapter                | Fischer Custom Communications | FCC-801-150-50-CDN   | 01117 & 01118  | CAL 8/29/01     | 8/29/03            |
| Radiating Field Coil                     | Fischer Custom Communications | F-1000-4-8/9/10-L-1M | 9859           | CAL 10/15/98    | 10/15/00           |
| EMC Immunity Test System                 | Keytek                        | CEMASTER             | 9810210        | CAL 2/1/02      | 2/1/04             |
| Compliance Test System - AC Power Source | California Instruments        | 1251RP               | L05865         | CAL 2/25/04     | 2/25/06            |
| Compliance Test System - PACS-1 Module   | California Instruments        | PACS-1               | X71484         | CAL 2/25/04     | 2/25/06            |
| Isotropic Field Probe                    | Amplifier Research            | FP5000               | 22839          |                 |                    |
| Isotropic Field Probe                    | Amplifier Research            | FP5000               | 300103         |                 |                    |
| Capacitor Clamp                          | Keytek                        | CM-CCL               | 9811359        | No Cal Required |                    |
| Amplifier                                | Amplifier Research            | 10W1000B             | 23117          | No Cal Required |                    |
| Field Monitor                            | Amplifier Research            | FM5004               | 22288          | No Cal Required |                    |
| ELF Meter                                | F. W. Bell                    | 4060                 | Not Serialized |                 | Out of Service     |
| Standard Gain Horn 1.0-2.4 GHz           | Polarad                       | CA-L                 | 235            | No Cal Required |                    |
| Standard Gain Horn 2.14-4.34 GHz         | Polarad                       | CA-S                 | 203            | No Cal Required |                    |
| Standard Gain Horn 3.95-5.85 GHz         | Scientific-Atlanta Inc.       | 11A-3.9              | 8448CG         | No Cal Required |                    |
| Standard Gain Horn 8.2-12.5 GHz          | Systron Donner                | DBG-520-20           | Not Serialized | No Cal Required |                    |
| Standard Gain Horn 18.0-26.3 GHz         | Systron Donner                | DBE-520-20           | Not Serialized | No Cal Required |                    |
| Standard Gain Horn 26.5-40.2 GHz         | Systron Donner                | DBD-520-20           | Not Serialized | No Cal Required |                    |
| Standard Gain Horn                       | ATM                           | 19-443-6R            | Not Serialized | No Cal          |                    |

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| Device                              | Manufacturer          | Model        | Serial Number         | Cal/Char Date   | Due Date or Status |
|-------------------------------------|-----------------------|--------------|-----------------------|-----------------|--------------------|
| 40.0-60.0 GHz                       |                       |              |                       | Required        |                    |
| Double-Ridged Horn Antenna          | EMCO                  | 3116         | 9011-2145             |                 | Out of Service     |
| Standard Gain Horn 12.4-18.0 GHz    | ATM                   | 62-442-6     | D262108-01            | No Cal Required |                    |
| Standard Gain Horn 5.85-8.2 GHz     | ATM                   | 137-442-2    | D261908-01            | No Cal Required |                    |
| AC Voltmeter                        | HP                    | 400F         | 0950A05433            | CAL 8/13/03     | 8/13/05            |
| RF Power Amplifier                  | Ophir RF              | 5150F        | 1041 'X1'             | No Cal Required |                    |
| Electric Field Sensor               | Amplifier Research    | FP6001       | 302504                |                 |                    |
| Electric Field Sensor               | Amplifier Research    | FP6001       | 302510                | CAL 6/1/04      | 6/1/06             |
| Surge Generator                     | Com-Power Corporation | SG-168       | 25802                 | CAL 2/27/04     | 2/27/06            |
| RF Power Amplifier                  | Ophir RF, Inc.        | 5150F        | 1041                  | CHAR 10/31/03   | 10/31/05           |
| 3-Meter Anechoic Chamber            | Panashield            | N/A          | N/A                   | Listed 5/12/04  | 5/11/07            |
| Digital Multimeter                  | Fluke                 | 77III        | 79510408              | CAL 7/19/04     | 7/19/06            |
| Open-Frame Tower Spectrum Analyzer  | HP                    | 8566B/85662A | 2627A03154/2648A14276 | CAL 7/9/04      | 7/9/06             |
| Open-Frame Tower RF Preselector     | HP                    | 85685A       | 3107A01282            | CAL 7/9/04      | 7/9/06             |
| Open-Frame Tower Quasi-Peak Adapter | HP                    | 85650A       | 2046A00305            | CAL 7/9/04      | 7/9/06             |
| Signal Generator                    | HP                    | 8648C        | 3847A04696            | CAL 9/27/04     | 9/27/06            |

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