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**FCC PART 95 SUBPART D CLASS II
PERMISSIVE CHANGE
TEST REPORT
FOR CB TRANSCEIVERS**

| | |
|-----------------------------|------------------------------------------------------------------------|
| APPLICANT | COBRA ELECTRONICS CORPORATION |
| | 6500 WEST CORTLAND STREET CHICAGO IL 60707 USA |
| FCC ID | BBO3K229LTDW |
| MODEL NUMBER | 29 LX LE |
| PRODUCT DESCRIPTION | CB TRANSCEIVER |
| DATE SAMPLE RECEIVED | 7/9/2010 |
| DATE TESTED | 7/14/2010 |
| TESTED BY | Joe Scoglio |
| APPROVED BY | Mario R. de Aranzerta |
| TIMCO REPORT NO. | 1670BT10TestReport.doc |
| TEST RESULTS | <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL |

**THE ATTACHED REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL
WITHOUT THE WRITTEN APPROVAL OF TIMCO ENGINEERING, INC.**



Testing Certificate # 0955-01



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GENERAL REMARKS

The attached report shall not be reproduced except in full without the written permission of Timco Engineering Inc.

The test results relate only to the items tested.

Summary

The device under test does:

- fulfill the general approval requirements as identified in this test report
- not fulfill the general approval requirements as identified in this test report

Attestations

This equipment has been tested in accordance with the standards identified in this test report. To the best of my knowledge and belief, these tests were performed using the measurement procedures described in this report.

All instrumentation and accessories used to test products for compliance to the indicated standards are calibrated regularly in accordance with ISO 17025 requirements.



Testing Certificate # 0955-01

I attest that the necessary measurements were made, under my supervision, at:

Timco Engineering Inc.
849 NW State Road 45
Newberry, Fl 32669



Authorized Signatory Name:

Mario de Aranzeta C.E.T.
Compliance Engineer/ Lab. Supervisor

Date: 7/14/2010

GENERAL INFORMATION

DUT Specification

| | |
|----------------------------|-------------------------------------------------------|
| DUT Description | CB TRANSCEIVER |
| FCC ID | BBO3K229LTDW |
| Model Number | 29 LX LE |
| Serial Number | N/A |
| Operating Frequency | 26.965-27.405 MHz |
| No. of Channels | 40 |
| Type of Emission | 6K00A3E Bn = 2M M = 3000 Bn = 6000 |
| Modulation | AM |
| DUT Power Source | <input type="checkbox"/> 110-120Vac/50- 60Hz |
| | <input checked="" type="checkbox"/> DC Power |
| | <input type="checkbox"/> Battery Operated Exclusively |
| Test Item | <input type="checkbox"/> Prototype |
| | <input checked="" type="checkbox"/> Pre-Production |
| | <input type="checkbox"/> Production |
| Type of Equipment | <input type="checkbox"/> Fixed |
| | <input checked="" type="checkbox"/> Mobile |
| | <input type="checkbox"/> Portable |



TEST ENVIRONMENT

| | |
|----------------------------------|----------------------------------------------------------------------|
| Test Facility | Timco Engineering, Inc. 849 NW State Road 45 Newberry, FL 32669 USA. |
| Test Condition in the laboratory | Temperature: 26°C Relative humidity: 50% |

TEST SETUP SUMMARY

| | |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Test Setup Diagram/Description | The DUT was placed on the turntable per setup per ANSI C63.4: 2003. A test set up photo is provided for clarification. |
| Deviation from the standard/procedure | No deviation |
| Modification of DUT | No modification |
| Applicable Standards | EIA/TIA-382-A, FCC CFR 47 PART 95 |



EQUIPMENT LIST

| Device | Manufacturer | Model | Serial Number | Cal/Char Date | Due Date |
|---------------------------------------|--------------------|------------------|--------------------------|-------------------|----------|
| 3-Meter Semi-Anechoic Chamber | Panashield | N/A | N/A | Listed 3/10/10 | 3/10/12 |
| AC Voltmeter | HP | 400FL | 2213A14499 | CAL 3/23/09 | 3/23/11 |
| Antenna: Dipole Kit | Electro-Metrics | TDA-30/1-4 | 153 | CHAR 6/10/09 | 6/10/11 |
| Frequency Counter | HP | 5385A | 3242A07460 | CAL 5/26/09 | 5/26/11 |
| Hygro-Thermometer | Extech | 445703 | 0602 | CAL 1/30/09 | 1/30/11 |
| Modulation Analyzer | HP | 8901A | 3435A06868 | CAL 5/26/09 | 5/26/11 |
| Digital Multimeter | Fluke | FLUKE-77-3 | 79510405 | CAL 5/18/09 | 5/18/11 |
| Analyzer Tan Tower Preamplifier | HP | 8449B-H02 | 3008A00372 | CAL 11/21/09 | 11/21/11 |
| Analyzer Tan Tower Quasi-Peak Adapter | HP | 85650A | 3303A01690 | CAL 11/22/09 | 11/22/11 |
| Analyzer Tan Tower RF Preselector | HP | 85685A | 3221A01400 | CAL 11/21/09 | 11/21/11 |
| Analyzer Tan Tower Spectrum Analyzer | HP | 8566B Opt 462 | 3138A07786 3144A20661 | CAL 11/24/09 | 11/24/11 |
| Temperature Chamber | Tenney Engineering | TTRC | 11717-7 | CHAR 4/25/10 | 4/25/12 |



TEST PROCEDURE

Power Line Conducted Interference: The procedure used was EIA/TIA-382-A using a 50uH LISN. Both lines were observed with the UUT transmitting. The bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed.

Bandwidth 20 dB: The measurements were made with the spectrum analyzer's resolution bandwidth (RBW) = 1 MHz and the video bandwidth (VBW) = 3 MHz and the span set as shown on plot.

Power Output: The RF power output was measured at the antenna feed point using a peak power meter.

Antenna Conducted Emissions: The RBW = 100 kHz, VBW = 300 kHz and the span set to 10.0 MHz and the spectrum was scanned from 30 MHz to the 10th Harmonic of the fundamental. Above 1 GHz the resolution bandwidth was 1 MHz and the VBW = 3 MHz and the span to 50 MHz.

Radiation Interference: The test procedure used was EIA/TIA-382-A using an Agilent spectrum receiver with pre-selector. The bandwidth (RBW) of the spectrum EIA/TIA-382-A receiver was 100 kHz up to 1 GHz and 1 MHz above 1 GHz with an appropriate sweep speed. The VBW above 1 GHz was 3 MHz. The analyzer was calibrated in dB above a microvolt at the output of the antenna.

RF POWER OUTPUT

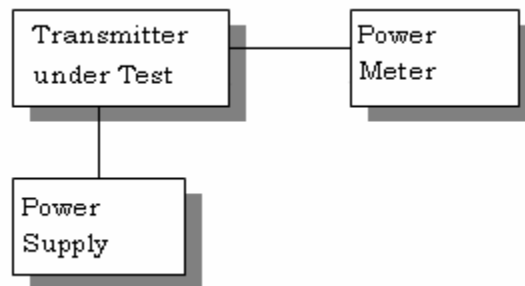
Rule Part No.: Part 2.1033(c), Part 95

Test Requirements:

Method of Measurement: RF power is measured by connecting a 50-ohm, resistive wattmeter to the RF output connector. With a nominal battery voltage, and the transmitter properly adjusted the RF output measures:

Test Data: OUTPUT POWER: HIGH – 3.9 Watts

Test Setup Diagram:



Part 2.1033 (C)(8) DC Input into the final amplifier

INPUT POWER: $(13.6V)(0.9A) = 12.2$ Watts



FIELD STRENGTH OF SPURIOUS EMISSIONS

Rule Parts. No.: Part 2.1053, 95.635(b)(8)(9)

Requirements: Emissions must be attenuated by at least the following below the output of the transmitter.

53 + 10log(4.00) = 59.0 dB or
FCC Limit for: 8kHz Authorized BW

At least 53+10Log(T) dB on any frequency removed from the center of the authorized bandwidth by more than 250%. At least 60dB on any frequency twice or greater than twice the fundamental.

Test Data:

| Emission Frequency MHz | Ant. Polarity | dB Below Carrier (dBc) |
|------------------------|---------------|------------------------|
| 27.20 | V | 0 |
| 54.40 | V | 94.7 |
| 81.60 | H | 84.5 |
| 108.80 | H | 82.9 |
| 136.00 | H | 67.9 |
| 163.30 | H | 80.4 |
| 190.50 | H | 70.5 |
| 217.60 | H | 67.3 |
| 244.90 | H | 77.6 |
| 272.10 | H | 79.6 |

METHOD OF MEASUREMENT: The tabulated data shows the results of the radiated field strength emissions test. 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 using the substitution method. Measurements were made at the test site of TIMCO ENGINEERING, INC. located at 849 NW State Road 45, Newberry, FL 32669.

Test Setup Diagram:

