

Measurement of RF Emissions from a DCI401MCS Data Terminal Adaptor

For Technicolor USA Inc.

101 W 103rd St

Indianapolis, IN 46290

P.O. Number 1010129956

Date Tested July 30 through August 1, 2012

Test Personnel Richard E. King

Test Specification FCC "Code of Federal Regulations" Title 47

Part15, Subpart C

Industry Canada RSS-GEN Industry Canada RSS-210

Test Report By:

RICHARD E. King

Richard E. King EMC Engineer

Requested By:

Rejimon Varghese Technicolor USA Inc.

Approved By:

Raymond J. Klouda Registered Professional Engineer of Illinois - 44894

Raymond J Klouda

Elite Electronic Engineering, Inc. 1516 Centre Circle Downers Grove, IL 60515 Tel: (630) 495-9770 Fax: (630) 495-9785 www.elitetest.com



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REVISION HISTORY

| Revision | Date | Description | |
|----------|----------------|-----------------|--|
| _ | 31 August 2012 | Initial release | |
| | | | |



Measurement of RF Emissions from a Data Terminal Adaptor, Model No. DCI401MCS

1. Introduction

1.1. Scope of Tests

This report presents the results of the RF emissions measurements performed on a Data Terminal Adaptor, Model No. DCI401MCS, Serial No. 60001222661028, (hereinafter referred to as the Equipment Under Test (EUT)). The EUT was designed to transmit between 2425 to 2475MHz using an internal antenna. The EUT was manufactured and submitted for testing by Technicolor USA Inc. located in Indianapolis, Indiana.

1.2. Purpose

The test series was performed to determine if the EUT meets the conducted and radiated RF emission requirements of the FCC "Code of Federal Regulations" Title 47, Part 15, Subpart C, Sections 15.249 for Intentional Radiators. Testing was performed in accordance with ANSI C63.4-2009.

1.3. Deviations, Additions and Exclusions

There were no deviations, additions to, or exclusions from the test specification during this test series.

1.4. EMC Laboratory Identification

This series of tests was performed by Elite Electronic Engineering Incorporated of Downers Grove, Illinois. The laboratory is accredited by The American Association for Laboratory Accreditation (A2LA). A2LA Certificate Number: 1786.01.

1.5. Laboratory Conditions

The temperature at the time of the test was 23°C and the relative humidity was 40%.

2. APPLICABLE DOCUMENTS

The following documents of the exact issue designated form part of this document to the extent specified herein:

- Federal Communications Commission "Code of Federal Regulations", Title 47, Part 15, Subpart C, dated 1 October 2011
- ANSI C63.4-2009, "American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz"
- Industry Canada Radio Standards Specification, RSS-Gen, "General Requirements and Information for the Certification of Radiocommunication Equipment", Issue 3, December 2010
- Industry Canada Radio Standards Specification, RSS-210, "Low-power License-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment", Issue 8, December 2010

3. EUT SETUP AND OPERATION

3.1. General Description

The EUT is a Technicolor USA Inc., Data Terminal Adaptor, Model No. DCI401MCS. A block diagram of the EUT setup is shown as Figure 1.



3.1.1.Power Input

The EUT obtained 12 VDC power through two leads from the secondary of a Dell model PA-4 step-down transformer. The primary of this transformer received 120V 60Hz power through lowpass powerline filters on the wall of the shielded enclosure. The 12 VDC power from the secondary of the transformer was provided to the EUT through a 2 wire, 6 foot long unshielded cord. Each primary lead was connected through a line impedance stabilization network (LISN) which was located on the ground plane. The network complies with the requirements of Paragraph 4.1.2 of ANSI C63.4-2009.

3.1.2.Peripheral Equipment

The following peripheral equipment was submitted with the EUT:

| Item | Description | | |
|----------|-----------------------------|--|--|
| Computer | Dell Model No. OptiPlex 470 | | |
| Keyboard | Logitech Model: K120 | | |
| Monitor | NEC Model: Multisync P221w | | |
| Mouse | Logitech Model: M-B0001 | | |
| TV | MGA Model: CS-2015R | | |

3.1.3. Signal Input/Output Leads

The EUT was connected to the computer through 10 feet of cable and the TV through 20 feet of cable.

3.1.4. Grounding

The EUT was grounded through the return lead of its input power.

3.2. Operational Mode

The EUT was placed on an 80cm high non-conductive stand. The EUT was programmed so that it would transmit or receive continuously. All tests except conducted emissions were performed separately with the EUT transmitting at 2425MHz, 2450MHz and 2475MHz. For the conducted emission measurements, the EUT was programmed to transmit at 2450MHz.

3.3. EUT Modifications

No modifications were required for compliance.

4. TEST FACILITY AND TEST INSTRUMENTATION

4.1. Shielded Enclosure

All tests were performed in a 32ft. x 20ft. x 18ft. hybrid ferrite-tile/anechoic absorber lined test chamber. With the exception of the floor, the reflective surfaces of the shielded chamber are lined with ferrite tiles on the walls and ceiling. Anechoic absorber material is installed over the ferrite tile. The floor of the chamber is used as the ground plane. The chamber complies with ANSI C63.4-2009 for site attenuation.

4.2. Test Instrumentation

The test instrumentation and auxiliary equipment used during the tests are listed in Table 9-1.

4.3. Calibration Traceability

Test equipment is maintained and calibrated on a regular basis. All calibrations are traceable to the National Institute of Standards and Technology (NIST).

4.4. Measurement Uncertainty

All measurements are an estimate of their true value. The measurement uncertainty characterizes, with a specified confidence level, the spread of values which may be possible for a given measurement system.

The measurement uncertainty for these tests is presented below:



| Conducted Emissions Measurements | | | | |
|---------------------------------------|------|-------|--|--|
| Combined Standard Uncertainty | 1.07 | -1.07 | | |
| Expanded Uncertainty (95% confidence) | 2.1 | -2.1 | | |

| Radiated Emissions Measurements | | | | |
|---------------------------------------|------|-------|--|--|
| Combined Standard Uncertainty | 2.26 | -2.18 | | |
| Expanded Uncertainty (95% confidence) | 4.5 | -4.4 | | |

5. TEST PROCEDURES

5.1. Powerline Conducted Emissions

5.1.1.Requirements

All radio frequency voltages on the power lines for any frequency or frequencies of an intentional radiator shall not exceed the limits in the following table:

| Frequency | Conducted Limit (dBuV) | | | |
|------------|---|---|--|--|
| MHz | Quasi-peak | Average | | |
| 0.15 - 0.5 | 66 decreasing with logarithm of frequency to 56 | 56 decreasing with logarithm of frequency to 46 | | |
| 0.5 - 5 | 56 | 46 | | |
| 5 - 30 | 60 | 50 | | |

Note 1: The lower limit shall apply at the transition frequencies.

5.1.2. Procedures

The interference on each power lead of the host Laptop computer was measured by connecting the measuring equipment to the appropriate meter terminal of the Line Impedance Stabilization Network (LISN). The meter terminal of the LISN not under test was terminated with 50 ohms.

- a) The EUT was operated in the transmit mode.
- b) Measurements were first made on the 120VAC 60Hz L1 lead of the power supply to the laptop.
- The frequency range from 150 kHz to 30 MHz was broken up into smaller frequency subbands.
- d) Conducted emissions measurements were taken on the first frequency sub-band using a peak detector.
- e) The data thus obtained was then searched by the computer for the highest levels. Any emissions levels that were within 10dB of the average limit were then measured again using both a quasi-peak detector and an average detector. (If no peak readings were within 10dB of the average limit, quasi-peak and average readings were taken on the highest emissions levels measured during the peak detector scan.)
- f) Steps (d) and (e) were repeated for the remainder of the frequency sub-bands until the entire frequency range from 150kHz to 30MHz was investigated. The peak trace was automatically plotted. The plot also shows quasi-peak and average readings that were taken on discrete frequencies. A table showing the quasi-peak and average readings was also generated. This



tabular data compares the quasi-peak and average conducted emissions to the applicable conducted emissions limits.

g) Steps (c) through (f) were repeated on the 120VAC 60Hz L2 line.

5.1.3.Results

The plots of the peak, quasi-peak, and average conducted voltage levels acquired from each input power line with the EUT operated in the transmit mode are shown on pages 16 and 18. The tabular quasi-peak and average results from each input power line with the EUT operated in the transmit mode are shown on pages 15 and 17. All power line conducted emissions measured from the EUT were within the specification limits.

5.2. Duty Cycle Factor Measurements

5.2.1.Procedures

The duty cycle factor is used to convert peak detected readings to average readings. This factor is computed from the time domain trace of the pulse modulation signal. With the transmitter set up to transmit for maximum pulse density, the time domain trace is displayed on the spectrum analyzer. This trace is obtained by tuning center frequency to the transmitter frequency and then setting a zero span width with 100usec/div. The amplitude settings are adjusted so that the on/off transitions clear the 4th division from the bottom of the display. The markers are set at the beginning and end of a word period. The sweep time was then increased to 10msec to show the worst case time between each pulse. The duty cycle is then computed as the On-time/ (On-time + Off-time).

5.2.2.Results

The plots of the duty cycle are shown on data pages 19 and 20. The duty cycle factor was computed to be - 45.8 dB.

5.3. Radiated Measurements

5.3.1.Requirements

The EUT must comply with the requirements of FCC "Code of Federal Regulations Title 47", Part 15, Subpart C, Section 15.249(a) and Industry Canada RSS-210 Annex 2, Section A2.9. Both standards have the following radiated emission limits:

| Fundamental Frequency | Field Intensity | Field Strength of Harmonics | | |
|-----------------------|-----------------|-----------------------------|--|--|
| MHz | mV/m @ 3 meter | uV/m @ 3 meter | | |
| 2400 – 2483.5 | 50 | 500 | | |

The field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits by more than 20 dB under any condition of modulation.

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits, whichever is the lesser attenuation.

5.3.2. Procedures

All measurements were performed in a 32ft. x 20ft. x 14ft. high shielded enclosure. The shielded enclosure prevents emissions from other sources, such as radio and TV stations from interfering with the measurements. All powerlines and signal lines entering the enclosure pass through filters on the enclosure wall. The powerline filters prevent extraneous signals from entering the enclosure on these leads. The floor of the chamber is used as the ground plane. The chamber complies with ANSI C63.4-2003 for site attenuation.

A preliminary radiated emissions test was performed to determine the emission characteristics of the EUT. For the preliminary test, a broadband measuring antenna was positioned at a 3 meter distance from the EUT. The



entire frequency range from 30MHz to 25GHz was investigated using a peak detector function. The data was then processed by the computer to calculate equivalent field intensity.

The final emission tests were then manually performed over the frequency range of 30MHz to 25GHz. Between 30MHz and 1000MHz, a bilog antenna was used as the pick-up device. A broadband double ridged waveguide antenna was used as the pick-up device for all frequencies above 1GHz. All significant broadband and narrowband signals were measured and recorded.

To ensure that maximum or worst case, emission levels were measured, the following steps were taken:

- 1) The EUT was rotated so that all of its sides were exposed to the receiving antenna.
- Since the measuring antenna is linearly polarized, both horizontal and vertical field components were measured.
- The measuring antenna was raised and lowered from 1 to 4 meters for each antenna polarization to maximize the readings.
- 4) For hand-held or body-worn devices, the EUT was rotated through three orthogonal axes to determine which orientation produces the highest emission relative to the limit.
- 5) In some instances, it was necessary to use a shortened cable between the measuring antenna and the spectrum analyzer and the antenna could not be raised to 4 meters. The measuring antenna was raised and lowered as much as the cable would allow and the EUT is rotated through all axes to ensure the maximum readings are recorded. See attached Figure 2.

5.3.3.Results

The preliminary plots, with the EUT transmitting at 2425MHz, 2450MHz and 2475MHz are presented on pages 21 through 44. The plots are presented for a reference only, and are not used to determine compliance. The final radiated levels are presented on pages 45 through 50. As can be seen from the data, all emissions measured from the EUT were within the specification limits.

5.4. Bandedge Compliance

5.4.1.Requirement

In accordance with FCC "Code of Federal Regulations Title 47", Part 15, Subpart C, Section 15.249, emissions outside of the specified frequency bands shall be below the general radiated emissions limits of 15.209. Therefore the radiated emissions at the band edges (2400MHz and 2483.5MHz) must meet the general limits of 15.209.

In accordance with Industry Canada RSS-210 Annex 2, Section A2.9(b), emissions outside of the specified frequency bands shall be below the general radiated emissions limits of RSS-210 Annex 2, Section A2.9(a). Therefore the radiated emissions at the band edges (2400MHz and 2483.5MHz) must meet the general limits of Annex 2 Section A2.9.

5.4.2. Procedures

Low Band Edge

- 1) The EUT was set up inside the test chamber on a non-conductive stand.
- 2) A broadband measuring antenna was placed at a test distance of 3 meters from the EUT.
- 3) The EUT was set to the low channel frequency of 2425MHz and maximized for worst case emissions at the measuring antenna.
- 4) A peak reading at the band edge frequency of 2400MHz was taken with a resolution bandwidth of 1MHz and a video bandwidth of 1MHz or greater. This reading was compared to the peak limit at the bandedge.
- 5) A duty cycle factor was applied to this reading and compared to the average limit.

High Band Edge



- 6) The EUT was set up inside the test chamber on a non-conductive stand.
- 7) A broadband measuring antenna was placed at a test distance of 3 meters from the EUT.
- 8) The EUT was set to the high channel frequency of 2475MHz and maximized for worst case emissions at the measuring antenna.
- 9) A peak reading at the band edge frequency of 2483.5MHz was taken with a resolution bandwidth of 1MHz and a video bandwidth of 1MHz or greater. This reading was compared to the peak limit at the bandedge.
- 10) A duty cycle factor was applied to this reading and compared to the average limit.

5.4.3. Results

Pages 51 and 52 show the radiated band-edge compliance results. As can be seen, the radiated emissions at the low end band edge and the high end band edge are within the general limits. The 99% bandwidth was measured to be 2.4MHz.

6. OTHER TEST CONDITIONS

6.1. Test Personnel and Witnesses

All tests were performed by qualified personnel from Elite Electronic Engineering Incorporated. The test series was witnessed by Technicolor USA Inc. personnel.

6.2. Disposition of the EUT

The EUT and all associated equipment were returned to Technicolor USA Inc. upon completion of the tests.

7. CONCLUSIONS

It was determined that the Technicolor USA Inc. Data Terminal Adaptor, Model No. DCI401MCS, Serial No. 60001222661028, did fully meet the conducted and radiated emission requirements of the FCC "Code of Federal Regulations" Title 47, Part 15, Subpart C, Section 15.205 et seq. for Intentional Radiators, when tested per ANSI C63.4-2009.

8. CERTIFICATION

Elite Electronic Engineering Incorporated certifies that the information contained in this report was obtained under conditions which meet or exceed those specified in the test specifications.

The data presented in this test report pertains to the EUT at the test date as operated by Technicolor USA Inc. personnel. Any electrical or mechanical modification made to the EUT subsequent to the specified test date will serve to invalidate the data and void this certification.

This report must not be used to claim product endorsement by NVLAP or any agency of the US Government.



9. EQUIPMENT LIST

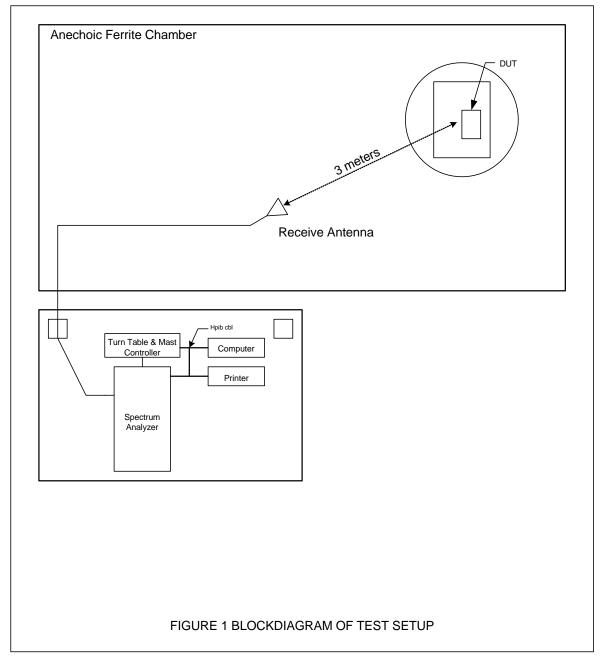
Table 9-1 Equipment List

| Eq ID | Equipment Description | Manufacturer | Model No. | Serial No. | Frequency Range | Cal Date | Due Date |
|-------|-------------------------------------|-----------------------|--------------------|-------------|--------------------|-----------|-----------|
| APW0 | PREAMPLIFIER | PLANAR ELECTRONICS | PE2-30-20G20R6G | PL2926/0646 | 20GHZ-26.5GHZ | 8/9/2012 | 8/9/2013 |
| CDX8 | COMPUTER | ELITE | WORKSTA | ΓΙΟΝ | | N/A | |
| NHG0 | STANDARD GAIN HORN ANTENNA | NARDA | 638 | | 18-26.5GHZ | NOTE 1 | |
| NTA3 | BILOG ANTENNA | TESEQ | 6112D | 28040 | 25-1000MHz | 2/16/2012 | 2/16/2013 |
| NWI0 | RIDGED WAVE GUIDE | AEL | H1498 | 153 | 2-18GHZ | 1/28/2012 | 1/28/2013 |
| NWP1 | DOUBLE RIDGED WAVEGUIDE ANTENNA | EATON | 3115 | 2100 | 1GHZ-12.4GHZ | 3/6/2012 | 3/6/2013 |
| PLF6 | CISPR16 50UH LISN | ELITE | CISPR16/15A | 007 | .15-30MHz | 6/12/2012 | 6/12/2013 |
| PLF8 | CISPR16 50UH LISN | ELITE | CISPR16/15A | 009 | .15-30MHz | 6/12/2012 | 6/12/2013 |
| RAKI | RF SECTION | HEWLETT PACKARD | 85462A | 3411A00181 | 0.009-6500MHZ | 3/15/2012 | 3/15/2013 |
| RAKJ | RF FILTER SECTION | HEWLETT PACKARD | 85460A | 3330A00154 | | 3/15/2012 | 3/15/2013 |
| RBA0 | EMI TEST RECEIVER | ROHDE & SCHWARZ | ESIB26 | 100145 | 20HZ-26.5GHZ | 3/8/2012 | 3/8/2013 |
| RBB0 | EMI TEST RECEIVER 20HZ TO 40 GHZ | ROHDE & SCHWARZ | ESIB40 | 100250 | 20 HZ TO 40GHZ | 3/5/2012 | 3/5/2013 |
| XPR0 | HIGH PASS FILTER | K&L MICROWAVE | 11SH10-4800/X20000 | 001 | 4.8-20GHZ | 8/22/2012 | 8/22/2013 |

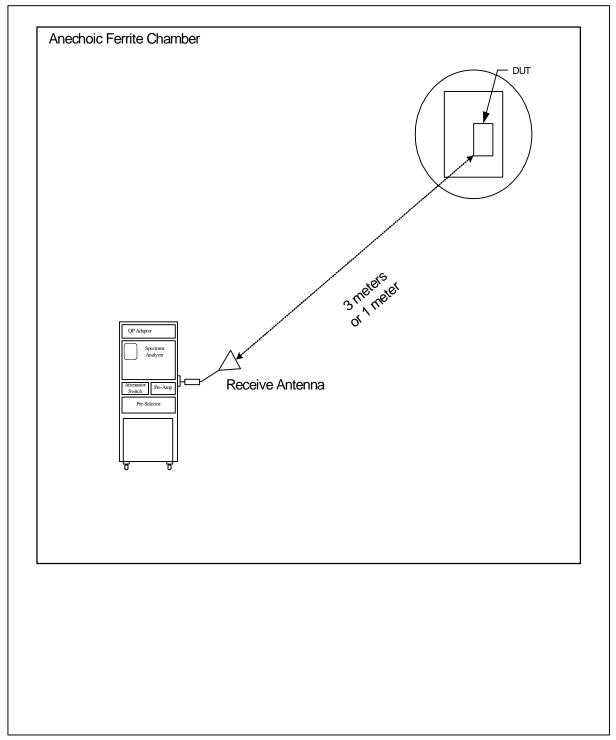
I/O: Initial Only N/A: Not Applicable

Note 1: For the purpose of this test, the equipment was calibrated over the specified frequency range, pulse rate, or modulation prior to the test or monitored by a calibrated instrument.

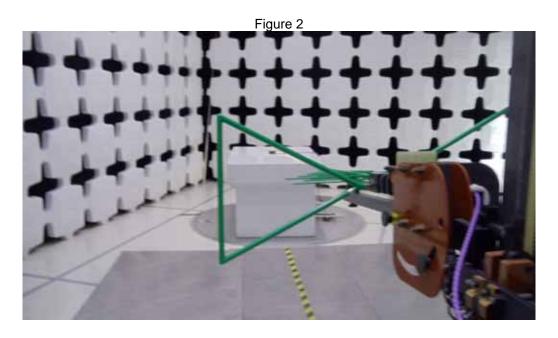








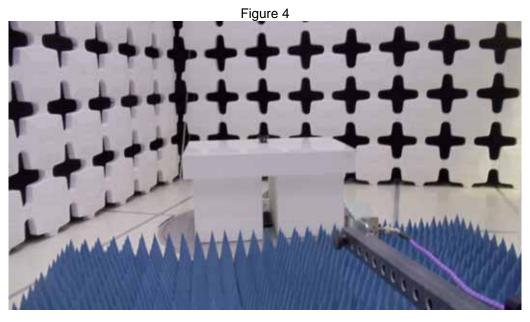


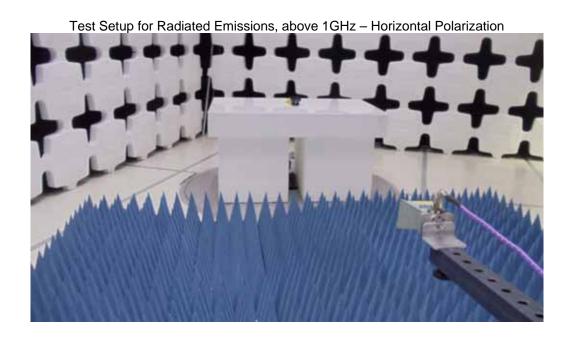




Test Setup for Radiated Emissions, 30MHz to 1GHz – Vertical Polarization







Test Setup for Radiated Emissions, above 1GHz – Vertical Polarization



FCC Part 15 Subpart B Conducted Emissions Test Significant Emissions Data

VB** 02/09/2011

Manufacturer : Technicolor USA, Inc.

Model : DCI401MCS

DUT Revision

Serial Number : 60001222661028 DUT Mode : transmit at 2.450 GHz

Line Tested : L1 Scan Step Time [ms] : 30 Meas. Threshold [dB] : -10

Notes

Test Engineer : R. King Limit : Class B

Test Date : Jul 30, 2012 01:33:19 PM

Data Filter : Up to 80 maximum levels detected with 6 dB level excursion threshold over 10 dB

margin below limit

| Freq MHz | Quasi-peak Level dBµV | Quasi-peak Limit dBµV | Excessive Quasi-peak Emissions | Average Level dBµV | Average Limit dBµV | Excessive Average Emissions |
|-------------|-----------------------------|-----------------------------|--------------------------------------|--------------------------|--------------------------|-----------------------------------|
| 0.177 | 50.5 | 64.6 | | 45.3 | 54.6 | |
| 0.414 | 37.3 | 57.6 | | 28.1 | 47.6 | |
| 0.649 | 34.2 | 56.0 | | 26.1 | 46.0 | |
| 0.943 | 40.2 | 56.0 | | 32.4 | 46.0 | |
| 1.889 | 36.5 | 56.0 | Î | 28.4 | 46.0 | |
| 2.066 | 34.3 | 56.0 | | 25.2 | 46.0 | |
| 4.193 | 31.9 | 56.0 | | 25.1 | 46.0 | |
| 8.614 | 33.3 | 60.0 | | 27.0 | 50.0 | |
| 9.446 | 32.3 | 60.0 | | 27.4 | 50.0 | |
| 19.715 | 23.3 | 60.0 | | 17.9 | 50.0 | |

Checked BY RICHARD & King :

Richard E. King



FCC Part 15 Subpart B Conducted Emissions Test Cumulative Data

VB** 02/09/2011

Manufacturer : Technicolor USA, Inc.

Model : DCI401MCS

DUT Revision

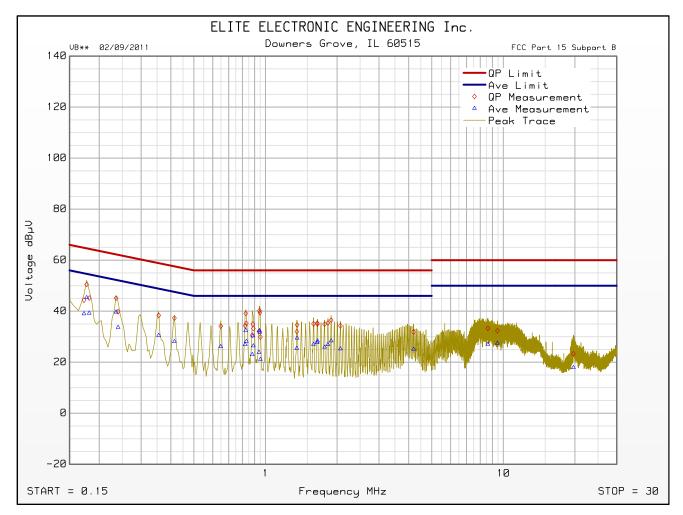
Serial Number : 60001222661028 DUT Mode : transmit at 2.450 GHz

Line Tested : L1 Scan Step Time [ms] : 30 Meas. Threshold [dB] : -10

Notes :

Test Engineer : R. King Limit : Class B

Test Date : Jul 30, 2012 01:33:19 PM



Emissions Meet QP Limit Emissions Meet Ave Limit



FCC Part 15 Subpart B Conducted Emissions Test

Significant Emissions Data

VB** 02/09/2011

Manufacturer : Technicolor USA, Inc.

Model : DCI401MCS

DUT Revision

Serial Number : 60001222661028 DUT Mode : transmit at 2.450 GHz

Line Tested : L2 Scan Step Time [ms] : 30 Meas. Threshold [dB] : -10

Notes

Test Engineer : R. King Limit : Class B

Test Date : Jul 30, 2012 01:26:14 PM

Data Filter : Up to 80 maximum levels detected with 6 dB level excursion threshold over 10 dB

margin below limit

| Freq MHz | Quasi-peak Level dBµV | Quasi-peak Limit dBµV | Excessive Quasi-peak Emissions | Average Level dBµV | Average Limit dBµV | Excessive Average Emissions |
|-------------|-----------------------------|-----------------------------|--------------------------------------|--------------------------|--------------------------|-----------------------------------|
| 0.177 | 51.0 | 64.6 | | 41.0 | 54.6 | |
| 0.473 | 36.3 | 56.5 | | 27.7 | 46.5 | |
| 0.532 | 34.6 | 56.0 | | 24.5 | 46.0 | |
| 0.943 | 35.2 | 56.0 | | 29.4 | 46.0 | |
| 1.534 | 29.6 | 56.0 | | 24.7 | 46.0 | |
| 2.124 | 28.7 | 56.0 | | 23.5 | 46.0 | |
| 3.482 | 27.7 | 56.0 | | 25.0 | 46.0 | |
| 8.614 | 35.3 | 60.0 | | 28.7 | 50.0 | |
| 9.446 | 35.5 | 60.0 | | 30.5 | 50.0 | |
| 19.594 | 23.4 | 60.0 | | 18.4 | 50.0 | |

Checked BY RICHARD E. King :

Richard E. King



FCC Part 15 Subpart B Conducted Emissions Test Cumulative Data

VB** 02/09/2011

Manufacturer : Technicolor USA, Inc.

Model : DCI401MCS

DUT Revision

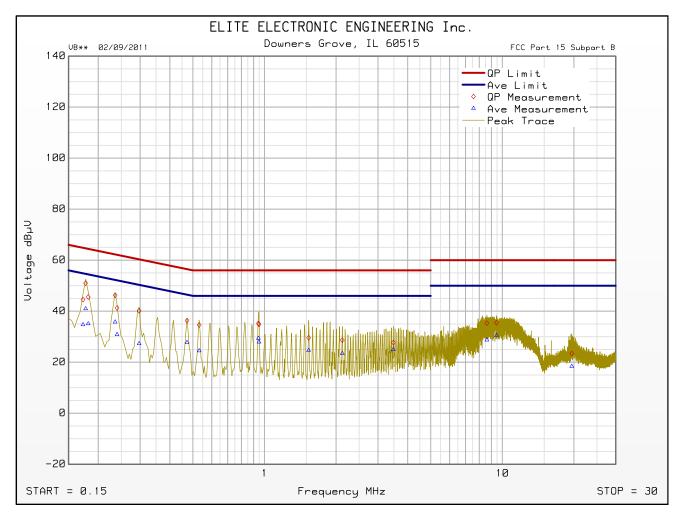
Serial Number : 60001222661028 DUT Mode : transmit at 2.450 GHz

Line Tested : L2 Scan Step Time [ms] : 30 Meas. Threshold [dB] : -10

Notes :

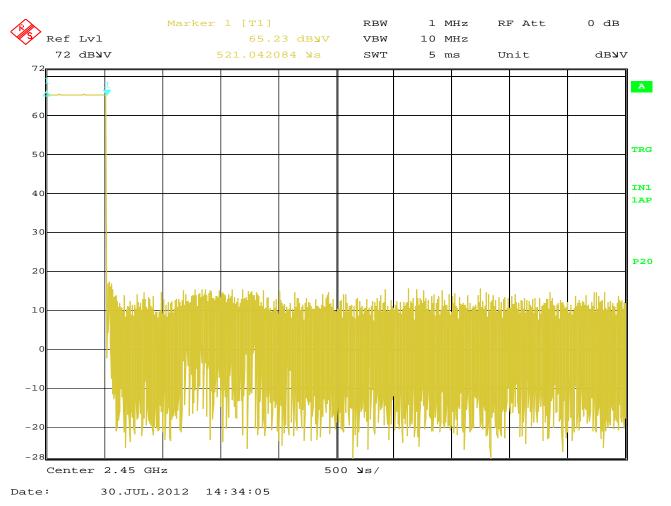
Test Engineer : R. King Limit : Class B

Test Date : Jul 30, 2012 01:26:14 PM



Emissions Meet QP Limit Emissions Meet Ave Limit





FCC 15.35 Duty Cycle Correction Factor

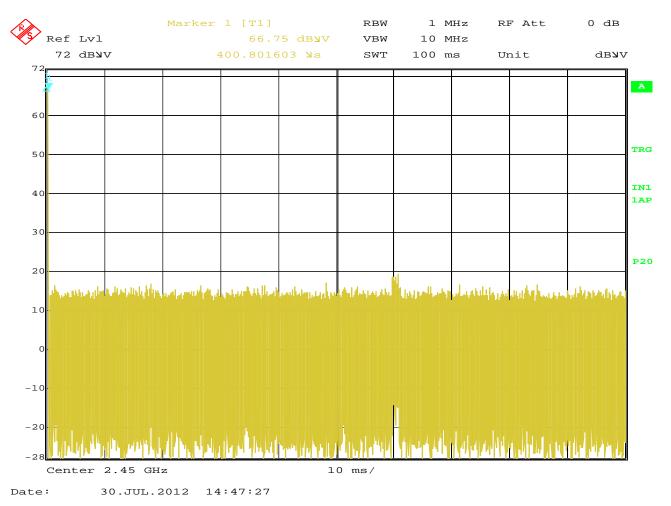
MANUFACTURER : Technicolor USA Inc.

MODEL NUMBER : DCI401MCS SERIAL NUMBER : 60001222661028 TEST MODE : Tx @ 2450MHz TEST DATE : July 30, 2012

TEST PARAMETER : Pulse width = 521.0 uS

NOTES





FCC 15.35 Duty Cycle Correction Factor

MANUFACTURER : Technicolor USA Inc.

MODEL NUMBER : DCI401MCS
SERIAL NUMBER : 60001222661028
TEST MODE : Tx @ 2450MHz
TEST DATE : July 30, 2012

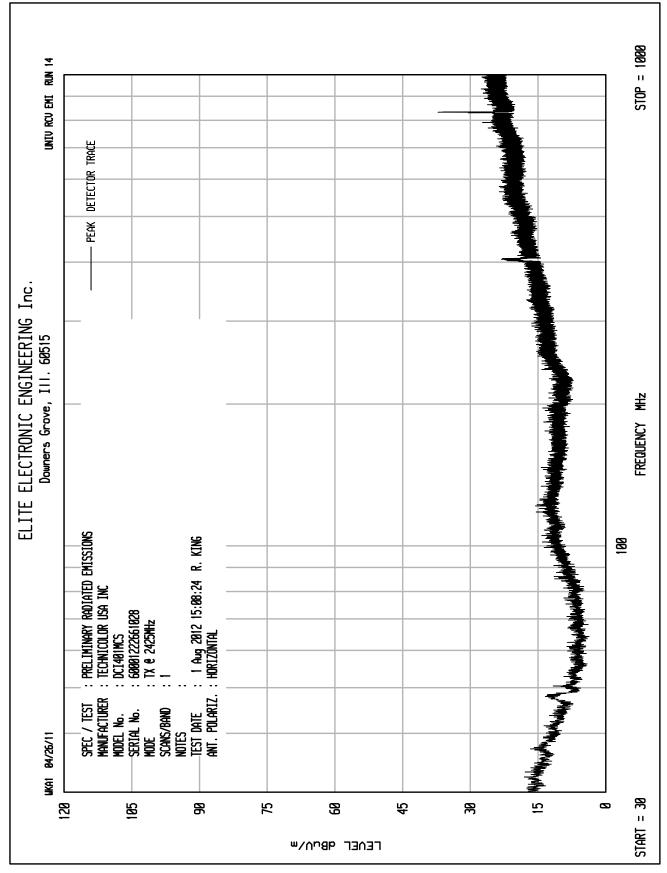
TEST PARAMETER : Pulse width = 521.0 uS

: Word = 100mS

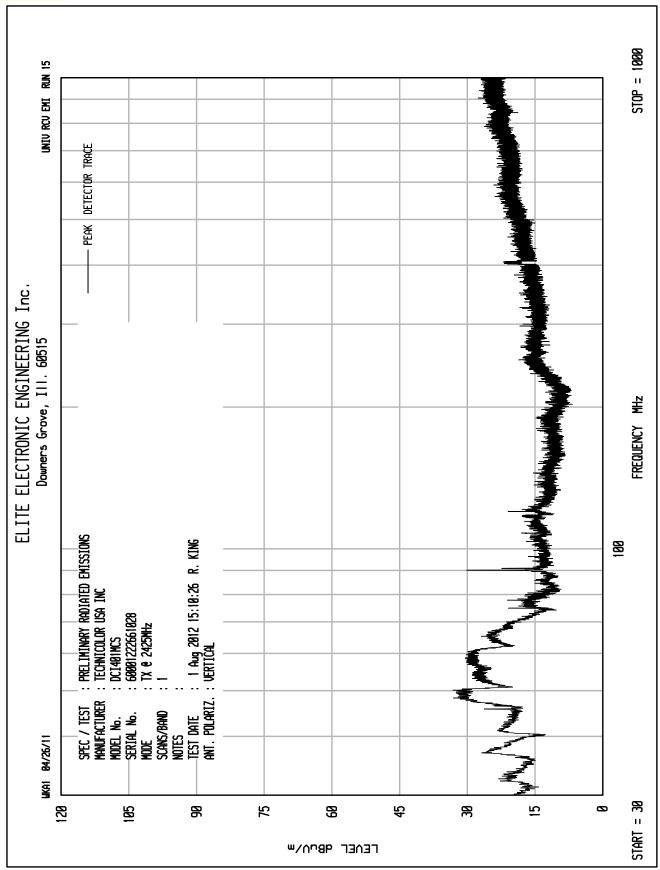
: 20 * log (521uS/100mS) = -45.81dB

NOTES

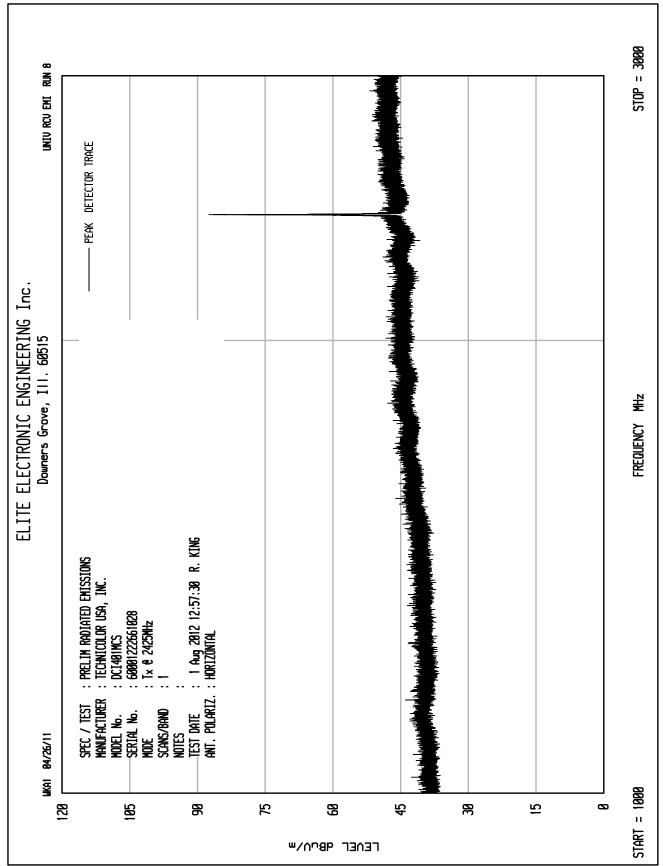




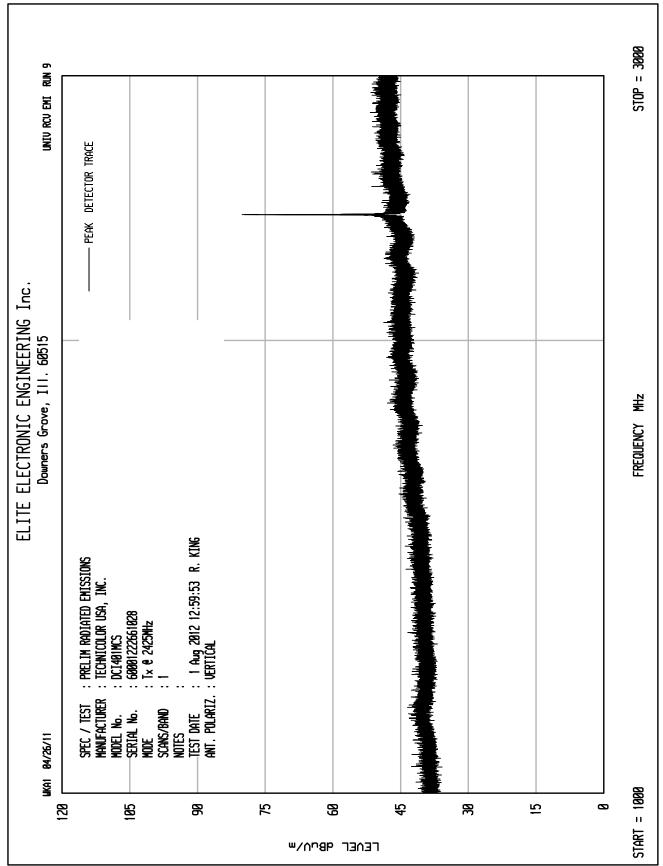




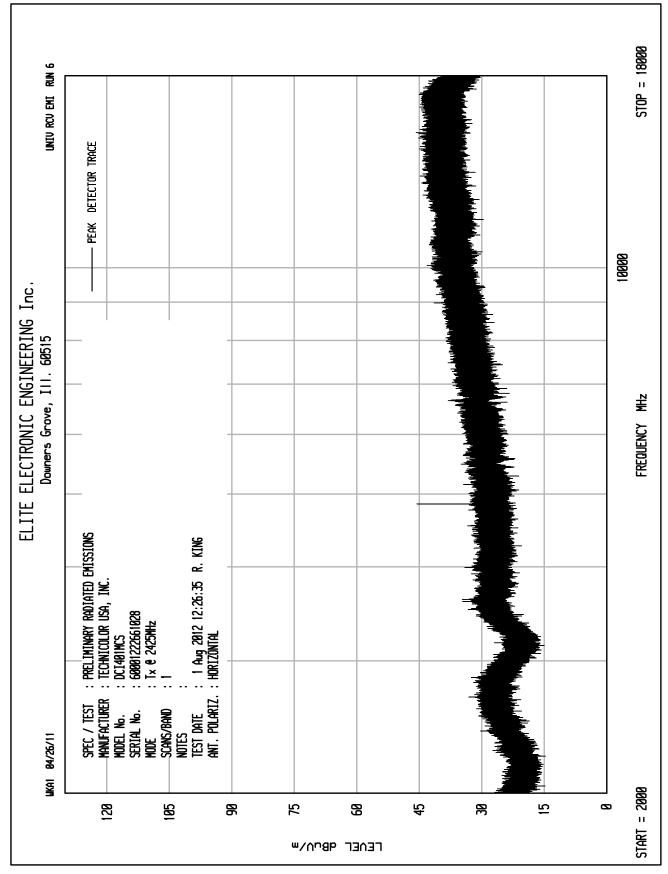




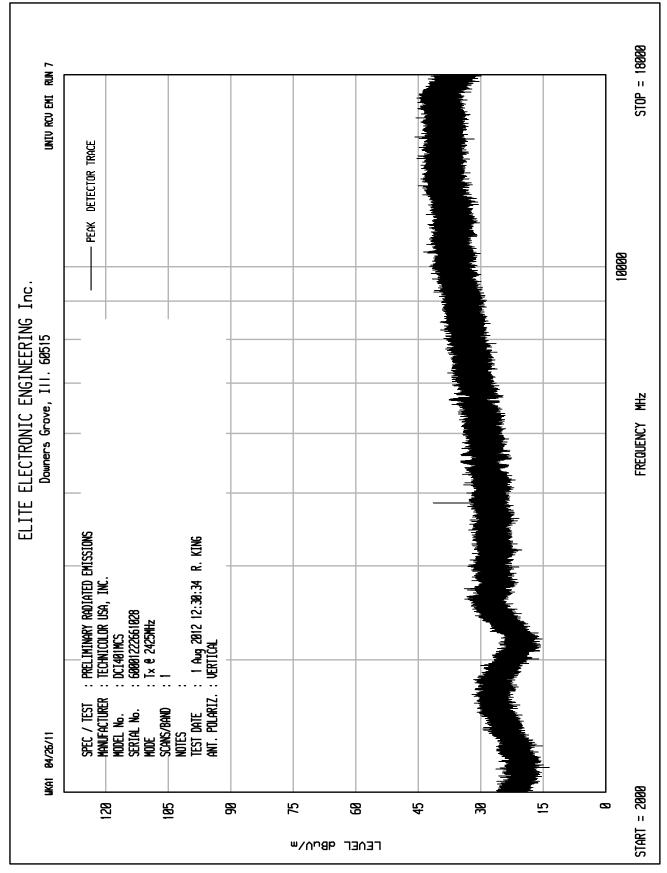




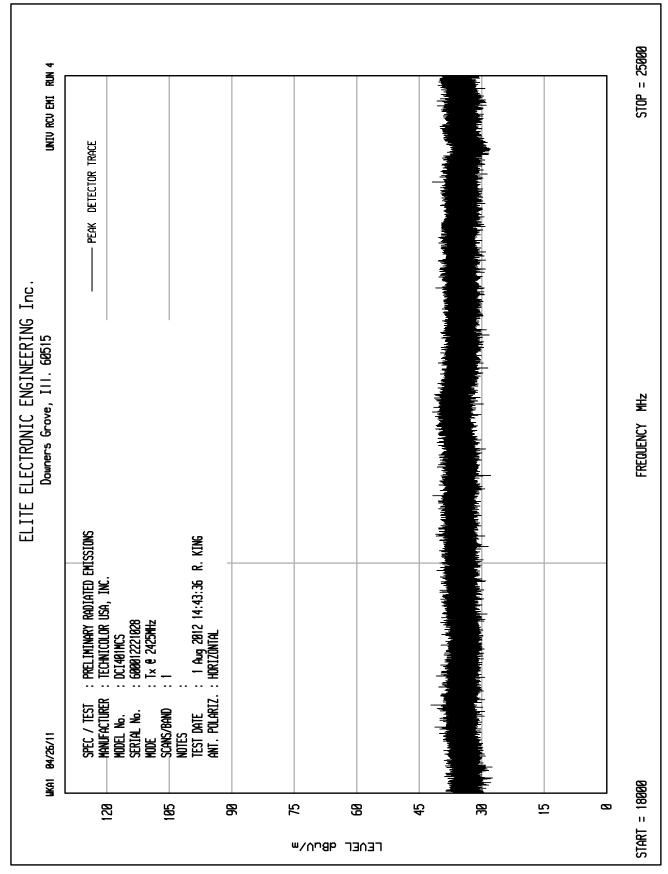




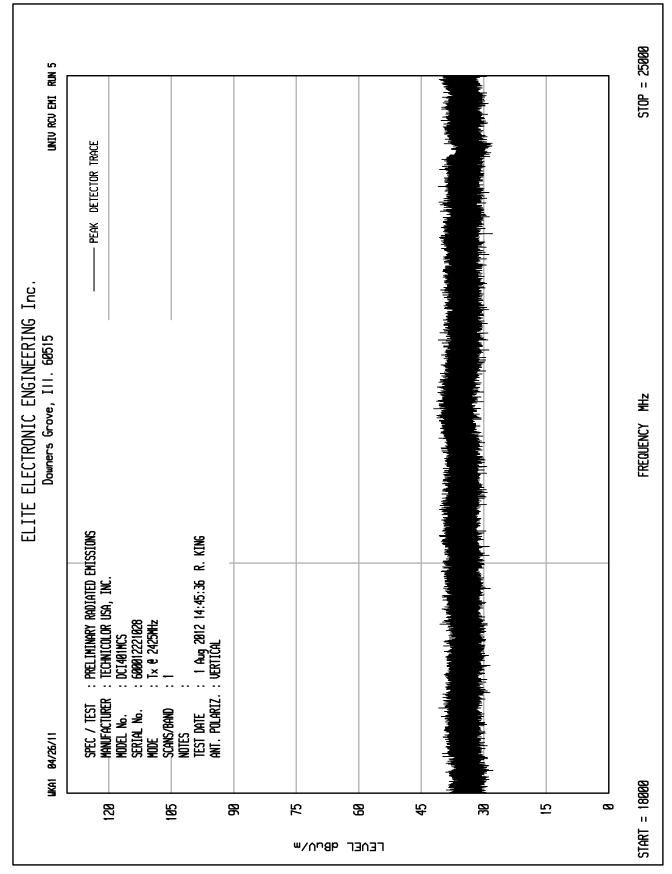




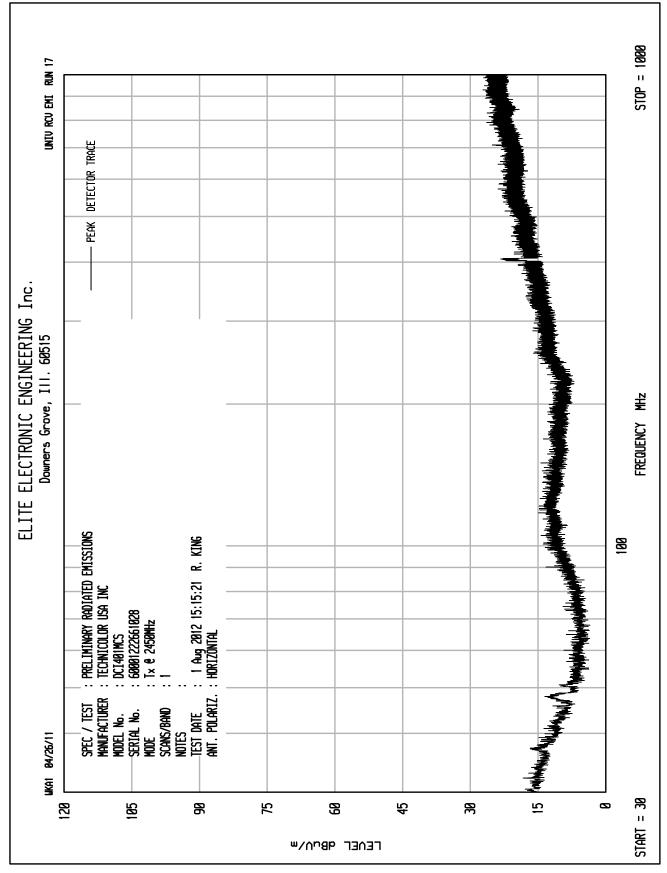




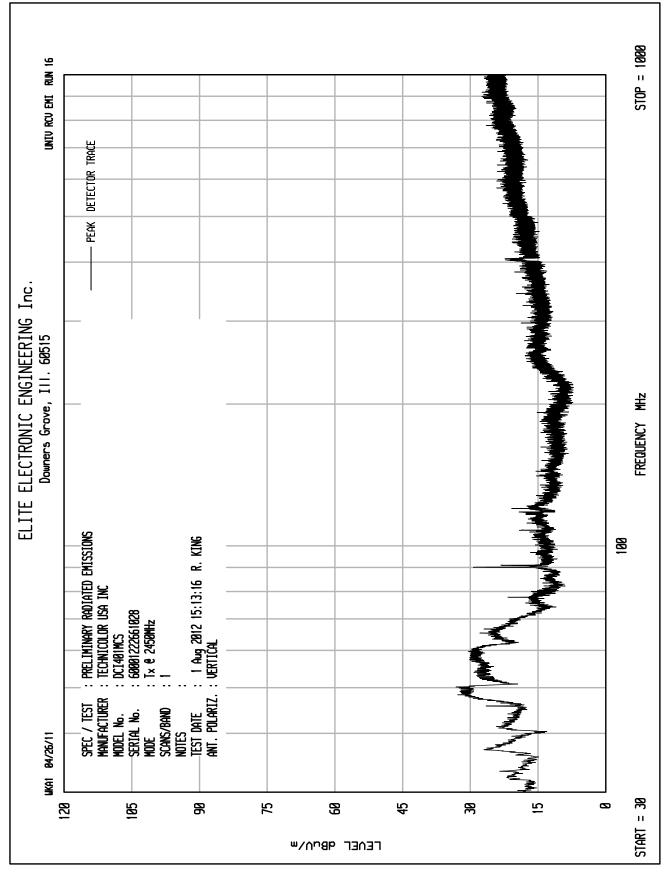




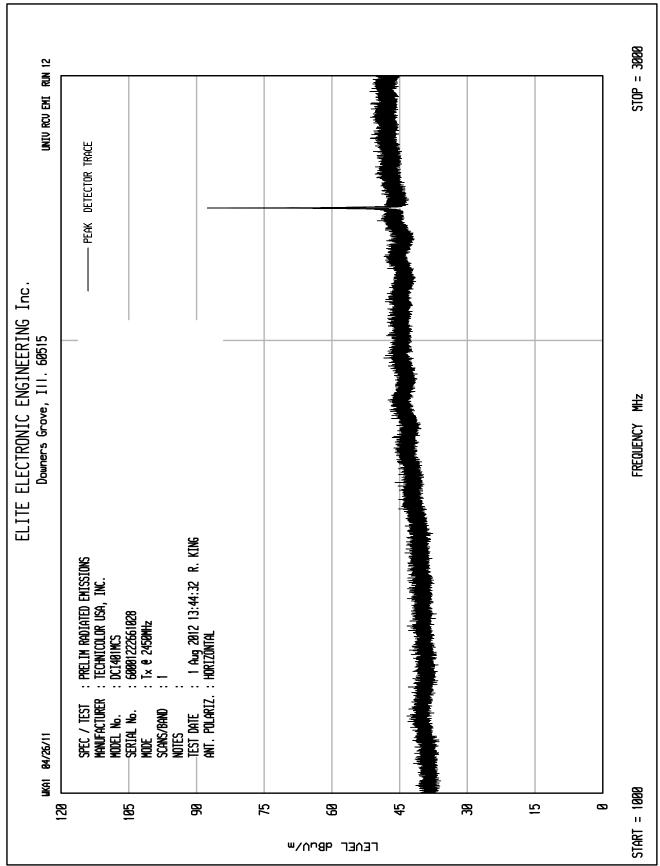




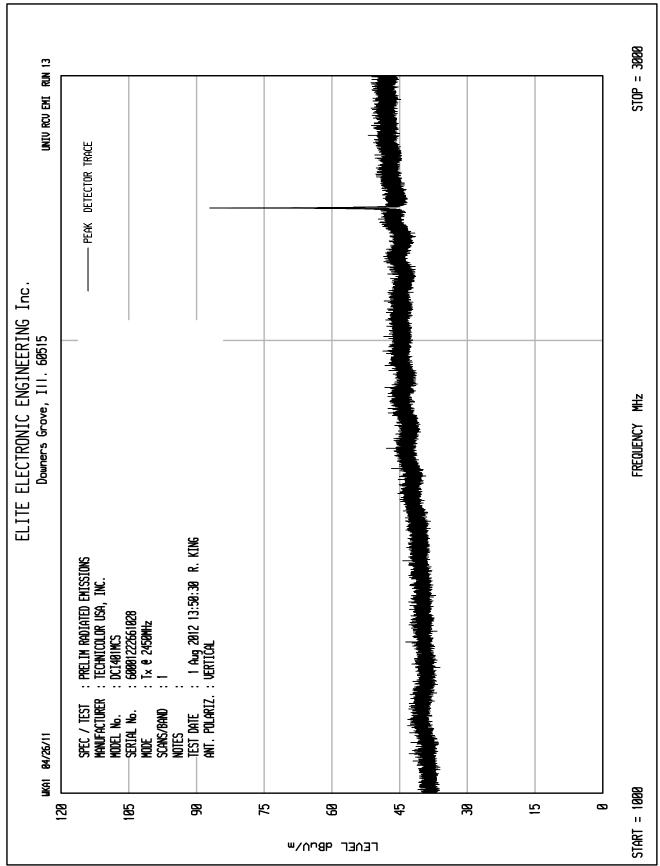




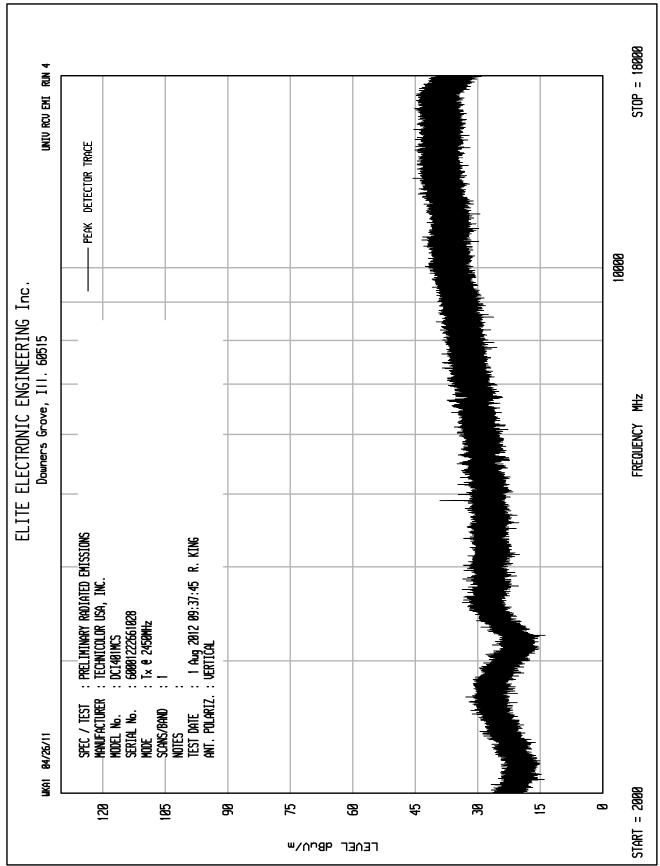




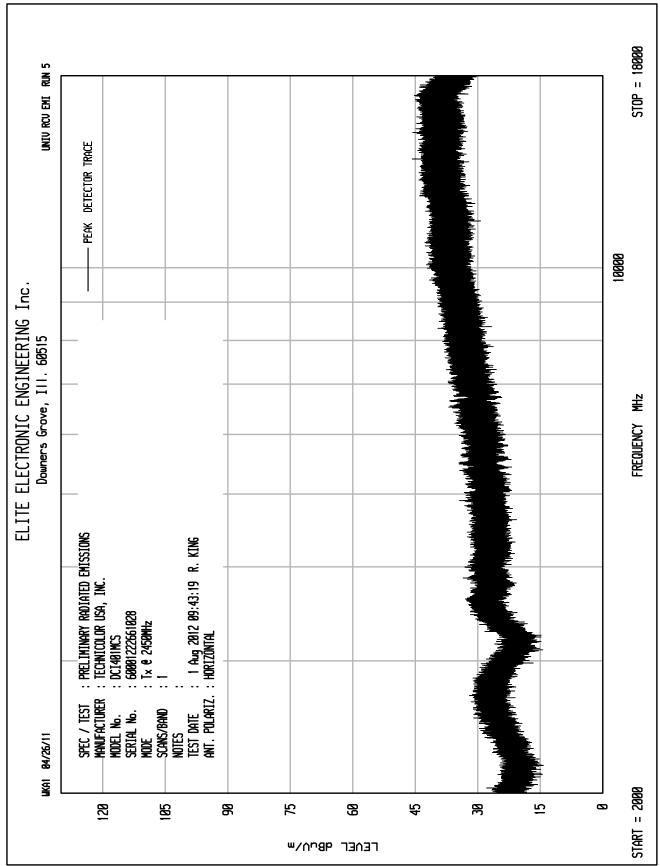




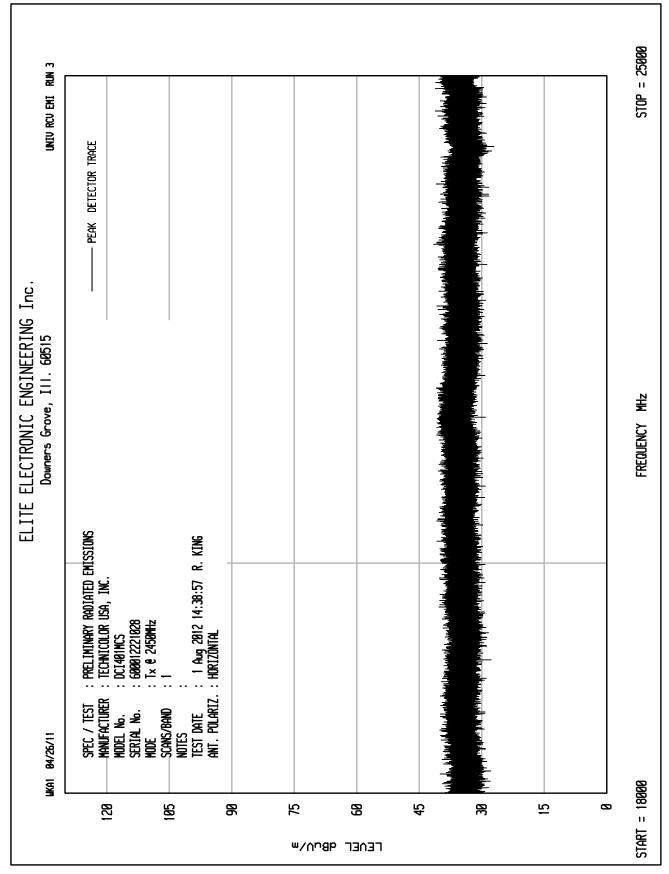




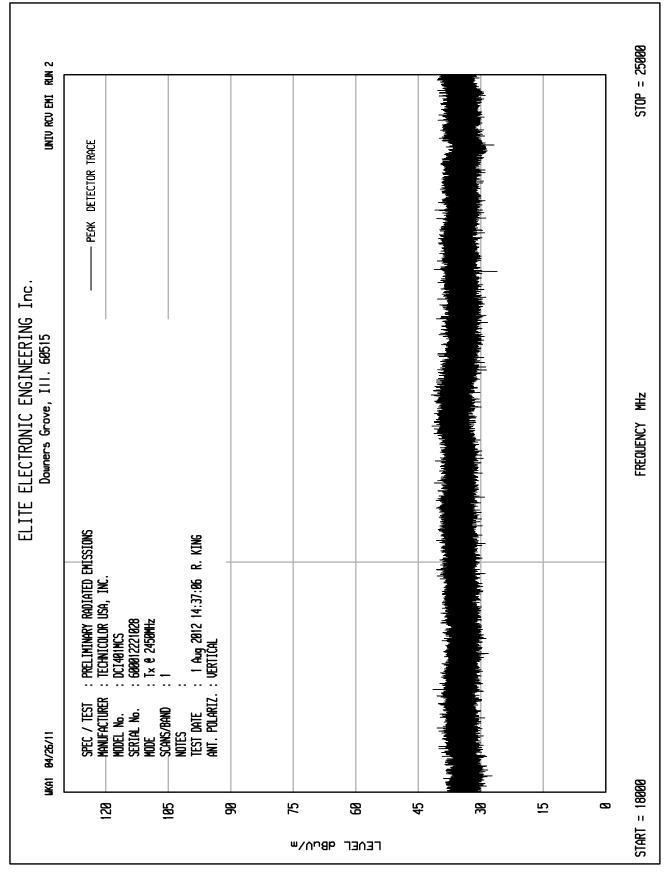




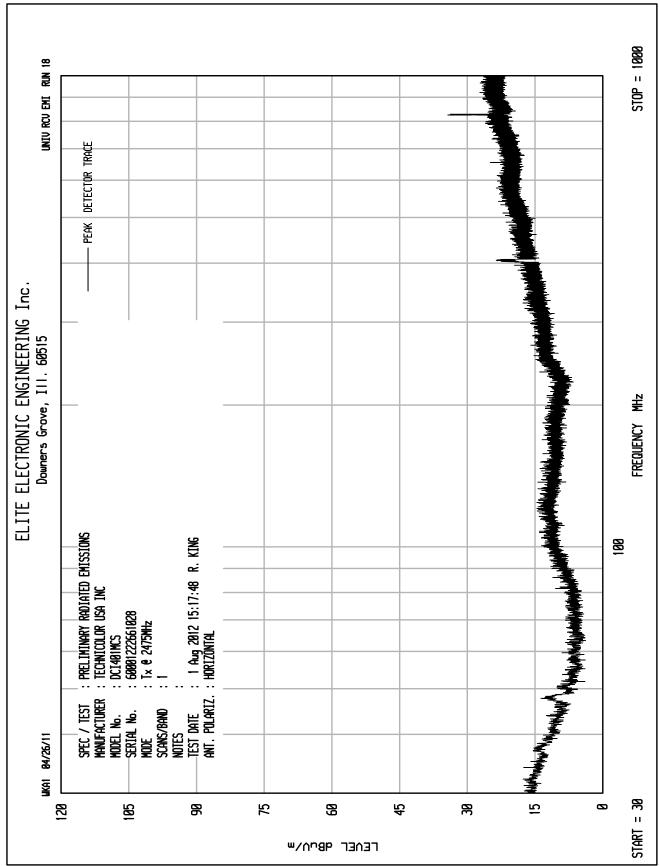




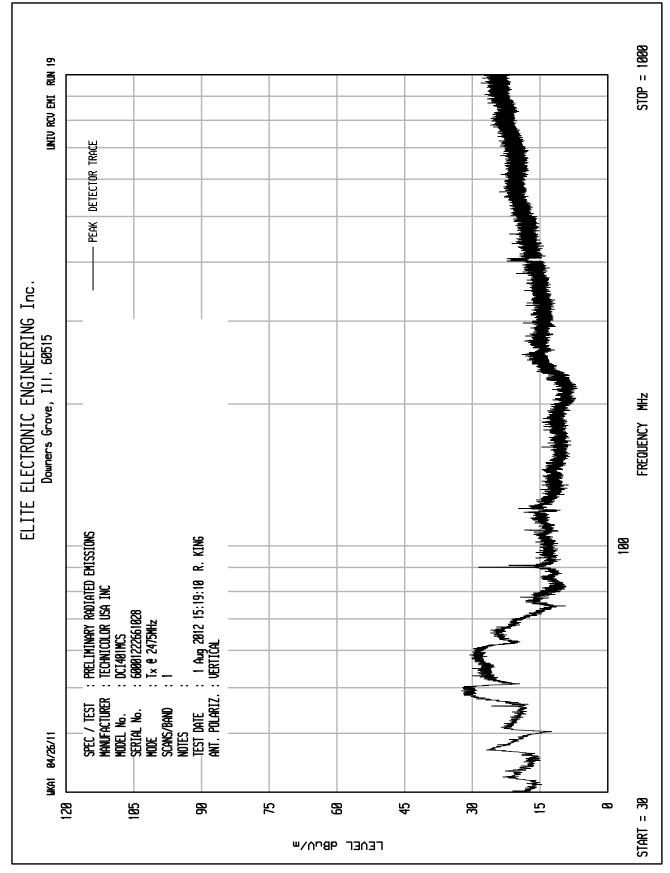




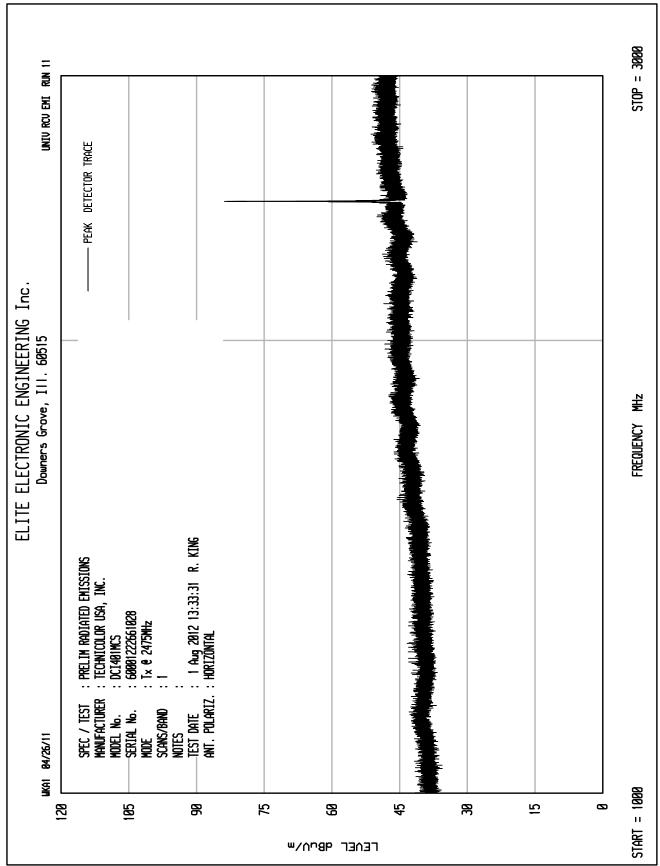




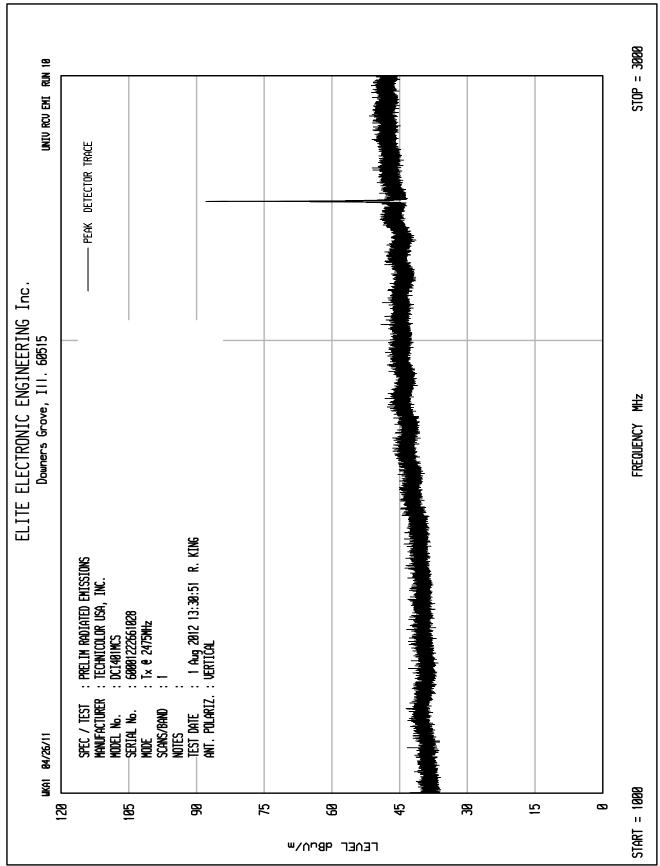




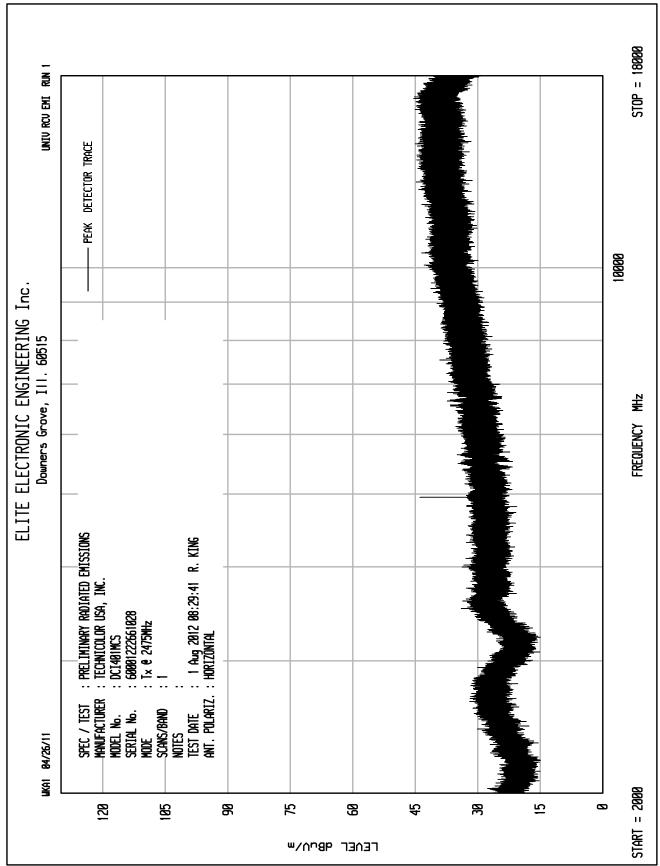




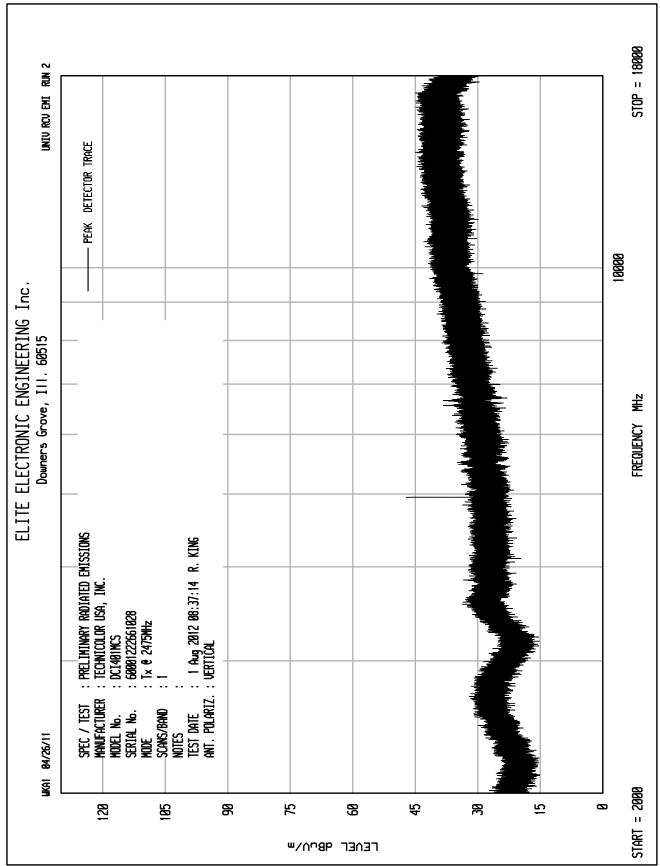




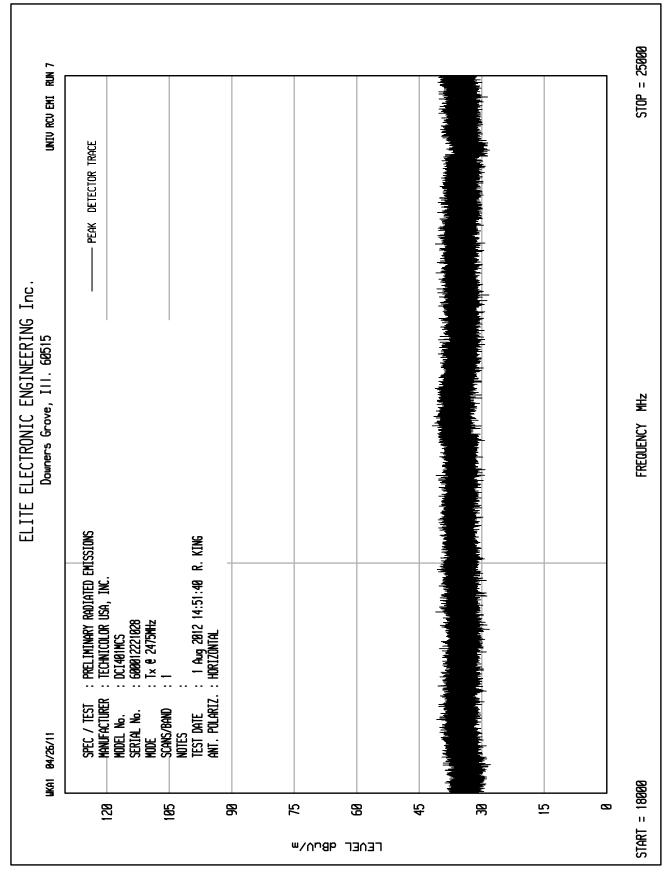




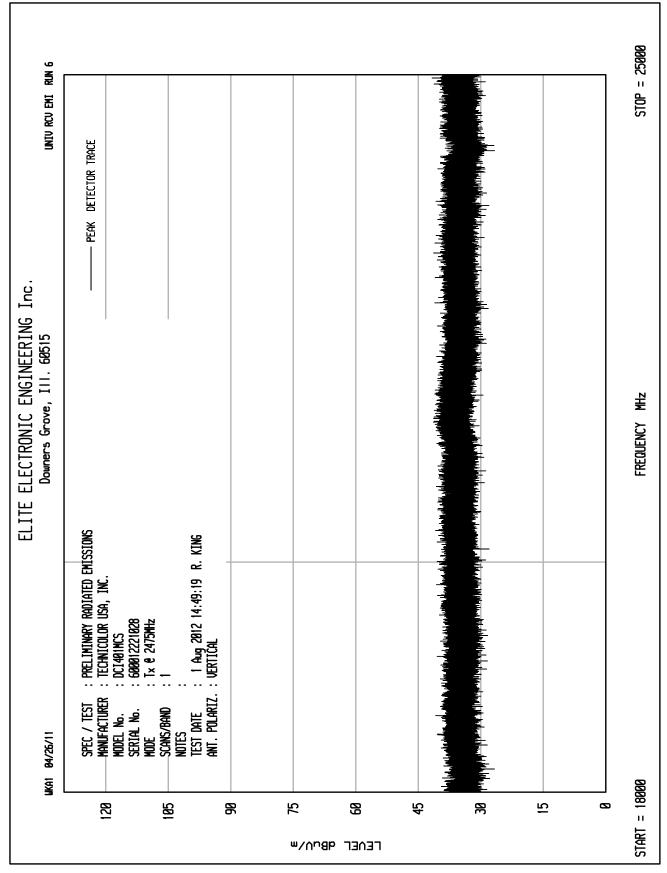














Model No. : DCI401MCS
Serial No. : 60001222661028
Mode : Transmit at 2425MHz

Test Specification : FCC 15.249 and Industry Canada RSS-210 Annex 2, section A2.9

Date : August 1, 2012

Test Distance : 3 meters
Note : Peak readings

| Freq (MHz) | Ant Pol | Meter Reading (dBuV) | CBL FAC (dB) | Ant Fac (dB) | Pre Amp (dB) | Total dBuV/m at 3 m | Total uV/m at 3m | Limit uV/m at 3m | Margin (dB) |
|---------------|------------|----------------------------|--------------------|--------------------|--------------------|---------------------------|------------------------|------------------------|----------------|
| 2425.000 | Η | 60.2 | 2.6 | 31.5 | 0.0 | 94.3 | 51850.1 | 500000.0 | -19.7 |
| 2425.000 | > | 57.0 | 2.6 | 31.5 | 0.0 | 91.1 | 35871.5 | 500000.0 | -22.9 |
| 4850.000 | Ι | 54.5 | 3.7 | 34.7 | -40.1 | 52.8 | 436.7 | 5000.0 | -21.2 |
| 4850.000 | V | 55.0 | 3.7 | 34.7 | -40.1 | 53.3 | 462.6 | 5000.0 | -20.7 |
| 7275.000 | Η | 46.0 | 4.7 | 37.9 | -39.8 | 48.8 | 273.9 | 5000.0 | -25.2 |
| 7275.000 | V | 45.6 | 4.7 | 37.9 | -39.8 | 48.4 | 262.2 | 5000.0 | -25.6 |
| 9700.000 | Η | 44.3 | 5.2 | 39.8 | -38.7 | 50.5 | 335.8 | 5000.0 | -23.5 |
| 9700.000 | V | 45.6 | 5.2 | 39.8 | -38.7 | 51.8 | 390.9 | 5000.0 | -22.1 |
| 12125.000 | Н | 44.8 | 6.1 | 41.3 | -39.5 | 52.7 | 431.2 | 5000.0 | -21.3 |
| 12125.000 | V | 45.4 | 6.1 | 41.3 | -39.5 | 53.2 | 457.8 | 5000.0 | -20.8 |
| 14550.000 | Н | 46.2 | 6.7 | 42.3 | -40.0 | 55.2 | 575.4 | 5000.0 | -18.8 |
| 14550.000 | V | 46.0 | 6.7 | 42.3 | -40.0 | 55.0 | 559.7 | 5000.0 | -19.0 |
| 16975.000 | Η | 46.8 | 7.2 | 41.2 | -38.6 | 56.5 | 669.2 | 5000.0 | -17.5 |
| 16975.000 | > | 46.1 | 7.2 | 41.2 | -38.6 | 55.9 | 622.4 | 5000.0 | -18.1 |
| 19400.000 | Н | 35.8 | 2.2 | 40.4 | -27.3 | 51.1 | 357.4 | 5000.0 | -22.9 |
| 19400.000 | V | 35.8 | 2.2 | 40.4 | -27.3 | 51.1 | 357.4 | 5000.0 | -22.9 |
| 21825.000 | Н | 34.6 | 2.2 | 40.6 | -27.4 | 50.0 | 316.0 | 5000.0 | -24.0 |
| 21825.000 | > | 34.6 | 2.2 | 40.6 | -27.4 | 50.0 | 316.0 | 5000.0 | -24.0 |
| 24250.000 | Η | 34.3 | 2.2 | 40.6 | -28.3 | 48.9 | 278.0 | 5000.0 | -25.1 |
| 24250.000 | V | 34.3 | 2.2 | 40.6 | -28.3 | 48.9 | 278.0 | 5000.0 | -25.1 |

Total (dBuV/m) = Meter Reading + CBL FAC + Ant Fac + Pre Amp

Checked BY RICHARD E. King :



Model No. : DCI401MCS
Serial No. : 60001222661028
Mode : Transmit at 2425MHz

Test Specification : FCC 15.249 and Industry Canada RSS-210 Annex 2, section A2.9

Date : August 1, 2012 Test Distance : 3 meters

Note : Average readings

| Freq (MHz) | Ant Pol | Meter Reading (dBuV) | CBL FAC (dB) | Ant Fac (dB) | Pre Amp (dB) | Duty Cycle (dB) | Total dBuV/m at 3 m | Total uV/m at 3m | Limit uV/m at 3m | Margin (dB) |
|---------------|------------|----------------------------|--------------------|--------------------|--------------------|-----------------------|---------------------------|------------------------|------------------------|----------------|
| 2425.00 | Η | 60.2 | 2.6 | 31.5 | -40.3 | 0.0 | 54.0 | 501.5 | 50000.0 | -40.0 |
| 2425.00 | V | 57.0 | 2.6 | 31.5 | -40.3 | 0.0 | 50.8 | 347.0 | 50000.0 | -43.2 |
| 4850.00 | Н | 54.5 | 3.7 | 34.7 | -40.1 | -45.8 | 7.0 | 2.2 | 500.0 | -47.0 |
| 4850.00 | V | 55.0 | 3.7 | 34.7 | -40.1 | -45.8 | 7.5 | 2.4 | 500.0 | -46.5 |
| 7275.00 | Η | 46.0 | 4.7 | 37.9 | -39.8 | -45.8 | 2.9 | 1.4 | 500.0 | -51.0 |
| 7275.00 | V | 45.6 | 4.7 | 37.9 | -39.8 | -45.8 | 2.6 | 1.3 | 500.0 | -51.4 |
| 9700.00 | Н | 44.3 | 5.2 | 39.8 | -38.7 | -45.8 | 4.7 | 1.7 | 500.0 | -49.3 |
| 9700.00 | V | 45.6 | 5.2 | 39.8 | -38.7 | -45.8 | 6.0 | 2.0 | 500.0 | -47.9 |
| 12125.00 | Н | 44.8 | 6.1 | 41.3 | -39.5 | -45.8 | 6.9 | 2.2 | 500.0 | -47.1 |
| 12125.00 | V | 45.4 | 6.1 | 41.3 | -39.5 | -45.8 | 7.4 | 2.3 | 500.0 | -46.6 |
| 14550.00 | Н | 46.2 | 6.7 | 42.3 | -40.0 | -45.8 | 9.4 | 2.9 | 500.0 | -44.6 |
| 14550.00 | V | 46.0 | 6.7 | 42.3 | -40.0 | -45.8 | 9.1 | 2.9 | 500.0 | -44.8 |
| 16975.00 | Н | 46.8 | 7.2 | 41.2 | -38.6 | -45.8 | 10.7 | 3.4 | 500.0 | -43.3 |
| 16975.00 | V | 46.1 | 7.2 | 41.2 | -38.6 | -45.8 | 10.1 | 3.2 | 500.0 | -43.9 |
| 19400.00 | Н | 35.8 | 2.2 | 40.4 | -27.3 | -45.8 | 5.3 | 1.8 | 500.0 | -48.7 |
| 19400.00 | V | 35.8 | 2.2 | 40.4 | -27.3 | -45.8 | 5.3 | 1.8 | 500.0 | -48.7 |
| 21825.00 | Η | 34.6 | 2.2 | 40.6 | -27.4 | -45.8 | 4.2 | 1.6 | 500.0 | -49.8 |
| 21825.00 | V | 34.6 | 2.2 | 40.6 | -27.4 | -45.8 | 4.2 | 1.6 | 500.0 | -49.8 |
| 24250.00 | Н | 34.3 | 2.2 | 40.6 | -28.3 | -45.8 | 3.1 | 1.4 | 500.0 | -50.9 |
| 24250.00 | V | 34.3 | 2.2 | 40.6 | -28.3 | -45.8 | 3.1 | 1.4 | 500.0 | -50.9 |

Amb = Ambient

Total (dBuV/m) = Meter Reading + CBL FAC + Ant Fac + Pre Amp + Duty Cycle

Checked BY RICHARD & King :



Model No. : DCI401MCS
Serial No. : 60001222661028
Mode : Transmit at 2450MHz

Test Specification : FCC 15.249 and Industry Canada RSS-210 Annex 2, section A2.9

Date : August 1, 2012 Test Distance : 3 meters

Note : Peak readings

| Freq (MHz) | Ant Pol | Meter Reading (dBuV) | CBL FAC (dB) | Ant Fac (dB) | Pre Amp (dB) | Total dBuV/m at 3 m | Total uV/m at 3m | Limit uV/m at 3m | Margin (dB) |
|---------------|------------|----------------------------|--------------------|--------------------|--------------------|---------------------------|------------------------|------------------------|----------------|
| 2450.000 | Н | 59.1 | 2.6 | 31.5 | 0.0 | 93.2 | 45653.0 | 500000.0 | -20.8 |
| 2450.000 | V | 56.4 | 2.6 | 31.5 | 0.0 | 90.5 | 33494.2 | 500000.0 | -23.5 |
| 4900.000 | Ι | 55.8 | 3.7 | 34.8 | -40.1 | 54.1 | 506.3 | 5000.0 | -19.9 |
| 4900.000 | V | 53.7 | 3.7 | 34.8 | -40.1 | 52.1 | 400.7 | 5000.0 | -21.9 |
| 7350.000 | Η | 46.6 | 4.7 | 37.9 | -39.7 | 49.5 | 298.2 | 5000.0 | -24.5 |
| 7350.000 | V | 48.8 | 4.7 | 37.9 | -39.7 | 51.7 | 382.8 | 5000.0 | -22.3 |
| 9800.000 | Ι | 45.6 | 5.2 | 39.8 | -38.7 | 52.0 | 398.9 | 5000.0 | -22.0 |
| 9800.000 | V | 46.0 | 5.2 | 39.8 | -38.7 | 52.4 | 416.7 | 5000.0 | -21.6 |
| 12250.000 | Ι | 45.6 | 6.1 | 41.4 | -39.4 | 53.7 | 482.0 | 5000.0 | -20.3 |
| 12250.000 | V | 45.1 | 6.1 | 41.4 | -39.4 | 53.2 | 454.5 | 5000.0 | -20.8 |
| 14700.000 | Ι | 44.2 | 6.7 | 42.3 | -40.1 | 53.0 | 449.0 | 5000.0 | -20.9 |
| 14700.000 | V | 45.4 | 6.7 | 42.3 | -40.1 | 54.2 | 515.5 | 5000.0 | -19.7 |
| 17150.000 | Η | 45.9 | 7.3 | 40.6 | -38.8 | 54.9 | 558.0 | 5000.0 | -19.0 |
| 17150.000 | V | 44.7 | 7.3 | 40.6 | -38.8 | 53.8 | 487.7 | 5000.0 | -20.2 |
| 19600.000 | Η | 35.8 | 2.2 | 40.4 | -27.0 | 51.4 | 372.3 | 5000.0 | -22.6 |
| 19600.000 | V | 35.8 | 2.2 | 40.4 | -27.0 | 51.4 | 372.3 | 5000.0 | -22.6 |
| 22050.000 | Η | 34.6 | 2.2 | 40.6 | -27.6 | 49.8 | 309.0 | 5000.0 | -24.2 |
| 22050.000 | V | 34.6 | 2.2 | 40.6 | -27.6 | 49.8 | 309.0 | 5000.0 | -24.2 |
| 24500.000 | Н | 34.3 | 2.2 | 40.6 | -28.2 | 48.9 | 280.2 | 5000.0 | -25.0 |
| 24500.000 | V | 34.3 | 2.2 | 40.6 | -28.2 | 48.9 | 280.2 | 5000.0 | -25.0 |

Total (dBuV/m) = Meter Reading + CBL FAC + Ant Fac + Pre Amp

Checked BY RICHARD & King :



Model No. : DCI401MCS
Serial No. : 60001222661028
Mode : Transmit at 2450MHz

Test Specification : FCC 15.249 and Industry Canada RSS-210 Annex 2, section A2.9

Date : August 1, 2012 Test Distance : 3 meters

Note : Average readings

| Freq (MHz) | Ant Pol | Meter Reading (dBuV) | CBL FAC (dB) | Ant Fac (dB) | Pre Amp (dB) | Duty Cycle (dB) | Total dBuV/m at 3 m | Total uV/m at 3m | Limit uV/m at 3m | Margin (dB) |
|---------------|------------|----------------------------|--------------------|--------------------|--------------------|-----------------------|---------------------------|------------------------|------------------------|----------------|
| 2450.00 | Η | 59.07 | 2.6 | 31.5 | -40.3 | 0.0 | 52.9 | 441.2 | 50000.0 | -41.1 |
| 2450.00 | V | 56.38 | 2.6 | 31.5 | -40.3 | 0.0 | 50.2 | 323.7 | 50000.0 | -43.8 |
| 4900.00 | Η | 55.76 | 3.7 | 34.8 | -40.1 | -45.8 | 8.3 | 2.6 | 500.0 | -45.7 |
| 4900.00 | V | 53.73 | 3.7 | 34.8 | -40.1 | -45.8 | 6.2 | 2.1 | 500.0 | -47.7 |
| 7350.00 | Η | 46.62 | 4.7 | 37.9 | -39.7 | -45.8 | 3.7 | 1.5 | 500.0 | -50.3 |
| 7350.00 | V | 48.79 | 4.7 | 37.9 | -39.7 | -45.8 | 5.8 | 2.0 | 500.0 | -48.1 |
| 9800.00 | Ι | 45.61 | 5.2 | 39.8 | -38.7 | -45.8 | 6.2 | 2.0 | 500.0 | -47.8 |
| 9800.00 | V | 45.99 | 5.2 | 39.8 | -38.7 | -45.8 | 6.6 | 2.1 | 500.0 | -47.4 |
| 12250.00 | Ι | 45.6 | 6.1 | 41.4 | -39.4 | -45.8 | 7.9 | 2.5 | 500.0 | -46.1 |
| 12250.00 | V | 45.09 | 6.1 | 41.4 | -39.4 | -45.8 | 7.3 | 2.3 | 500.0 | -46.6 |
| 14700.00 | Ι | 44.15 | 6.7 | 42.3 | -40.1 | -45.8 | 7.2 | 2.3 | 500.0 | -46.7 |
| 14700.00 | V | 45.35 | 6.7 | 42.3 | -40.1 | -45.8 | 8.4 | 2.6 | 500.0 | -45.5 |
| 17150.00 | Ι | 45.86 | 7.3 | 40.6 | -38.8 | -45.8 | 9.1 | 2.9 | 500.0 | -44.9 |
| 17150.00 | V | 44.69 | 7.3 | 40.6 | -38.8 | -45.8 | 8.0 | 2.5 | 500.0 | -46.0 |
| 19600.00 | Н | 35.8 | 2.2 | 40.4 | -27.0 | -45.8 | 5.6 | 1.9 | 500.0 | -48.4 |
| 19600.00 | V | 35.8 | 2.2 | 40.4 | -27.0 | -45.8 | 5.6 | 1.9 | 500.0 | -48.4 |
| 22050.00 | Η | 34.6 | 2.2 | 40.6 | -27.6 | -45.8 | 4.0 | 1.6 | 500.0 | -50.0 |
| 22050.00 | V | 34.6 | 2.2 | 40.6 | -27.6 | -45.8 | 4.0 | 1.6 | 500.0 | -50.0 |
| 24500.00 | Н | 34.3 | 2.2 | 40.6 | -28.2 | -45.8 | 3.1 | 1.4 | 500.0 | -50.8 |
| 24500.00 | V | 34.3 | 2.2 | 40.6 | -28.2 | -45.8 | 3.1 | 1.4 | 500.0 | -50.8 |

Amb = Ambient

Total (dBuV/m) = Meter Reading + CBL FAC + Ant Fac + Pre Amp + Duty Cycle

Checked BY RICHARD E. King :



Model No. : DCI401MCS
Serial No. : 60001222661028
Mode : Transmit at 2475MHz

Test Specification : FCC 15.249 and Industry Canada RSS-210 Annex 2, section A2.9

Date : August 1, 2012 Test Distance : 3 meters

Note : Peak readings

| Freq (MHz) | Ant Pol | Meter Reading (dBuV) | CBL FAC (dB) | Ant Fac (dB) | Pre Amp (dB) | Total dBuV/m at 3 m | Total uV/m at 3m | Limit uV/m at 3m | Margin (dB) |
|---------------|------------|----------------------------|--------------------|--------------------|--------------------|---------------------------|------------------------|------------------------|----------------|
| 2475.000 | Н | 59.3 | 2.7 | 31.5 | 0.0 | 93.5 | 47062.7 | 500000.0 | -20.5 |
| 2475.000 | V | 56.8 | 2.7 | 31.5 | 0.0 | 90.9 | 35049.1 | 500000.0 | -23.1 |
| 4950.000 | Н | 52.0 | 3.7 | 34.8 | -40.2 | 50.3 | 327.4 | 5000.0 | -23.7 |
| 4950.000 | V | 53.7 | 3.7 | 34.8 | -40.2 | 52.1 | 401.4 | 5000.0 | -21.9 |
| 7425.000 | Н | 43.4 | 4.7 | 38.0 | -39.7 | 46.3 | 207.1 | 5000.0 | -27.7 |
| 7425.000 | V | 43.9 | 4.7 | 38.0 | -39.7 | 46.9 | 220.4 | 5000.0 | -27.1 |
| 9900.000 | Ι | 46.0 | 5.3 | 39.9 | -38.6 | 52.6 | 425.2 | 5000.0 | -21.4 |
| 9900.000 | V | 45.9 | 5.3 | 39.9 | -38.6 | 52.4 | 418.8 | 5000.0 | -21.5 |
| 12375.000 | Н | 45.4 | 6.1 | 41.5 | -39.3 | 53.6 | 478.9 | 5000.0 | -20.4 |
| 12375.000 | V | 43.1 | 6.1 | 41.5 | -39.3 | 51.3 | 368.7 | 5000.0 | -22.6 |
| 14850.000 | Ι | 45.1 | 6.8 | 42.3 | -40.2 | 53.9 | 496.6 | 5000.0 | -20.1 |
| 14850.000 | V | 44.8 | 6.8 | 42.3 | -40.2 | 53.7 | 482.0 | 5000.0 | -20.3 |
| 17325.000 | Н | 45.0 | 7.3 | 39.9 | -39.0 | 53.2 | 457.6 | 5000.0 | -20.8 |
| 17325.000 | V | 44.8 | 7.3 | 39.9 | -39.0 | 53.1 | 450.8 | 5000.0 | -20.9 |
| 19800.000 | Н | 35.8 | 2.2 | 40.4 | -26.7 | 51.7 | 384.7 | 5000.0 | -22.3 |
| 19800.000 | V | 35.8 | 2.2 | 40.4 | -26.7 | 51.7 | 384.7 | 5000.0 | -22.3 |
| 22275.000 | Η | 34.6 | 2.2 | 40.6 | -27.7 | 49.7 | 305.3 | 5000.0 | -24.3 |
| 22275.000 | V | 34.6 | 2.2 | 40.6 | -27.7 | 49.7 | 305.3 | 5000.0 | -24.3 |
| 24750.000 | Н | 34.3 | 2.2 | 40.6 | -28.2 | 48.9 | 279.4 | 5000.0 | -25.1 |
| 24750.000 | V | 34.3 | 2.2 | 40.6 | -28.2 | 48.9 | 279.4 | 5000.0 | -25.1 |

Total (dBuV/m) = Meter Reading + CBL FAC + Ant Fac + Pre Amp

Checked BY RICHARD E. King :



 Model No.
 : DCI401MCS

 Serial No.
 : 60001222661028

 Mode
 : Transmit at 2475MHz

Test Specification : FCC 15.249 and Industry Canada RSS-210 Annex 2, section A2.9

Date : August 1, 2012

Test Distance : 3 meters

Note : Average readings

| Freq (MHz) | Ant Pol | Meter Reading (dBuV) | CBL FAC (dB) | Ant Fac (dB) | Pre Amp (dB) | Duty Cycle (dB) | Total dBuV/m at 3 m | Total uV/m at 3m | Limit uV/m at 3m | Margin (dB) |
|---------------|------------|----------------------------|--------------------|--------------------|--------------------|-----------------------|---------------------------|------------------------|------------------------|----------------|
| 2475.00 | Н | 59.3 | 2.7 | 31.5 | -40.3 | 0.0 | 53.2 | 454.5 | 50000.0 | -40.8 |
| 2475.00 | V | 56.8 | 2.7 | 31.5 | -40.3 | 0.0 | 50.6 | 338.5 | 50000.0 | -43.4 |
| 4950.00 | Н | 52.0 | 3.7 | 34.8 | -40.2 | -45.8 | 4.5 | 1.7 | 500.0 | -49.5 |
| 4950.00 | V | 53.7 | 3.7 | 34.8 | -40.2 | -45.8 | 6.3 | 2.1 | 500.0 | -47.7 |
| 7425.00 | Н | 43.4 | 4.7 | 38.0 | -39.7 | -45.8 | 0.5 | 1.1 | 500.0 | -53.5 |
| 7425.00 | V | 43.9 | 4.7 | 38.0 | -39.7 | -45.8 | 1.1 | 1.1 | 500.0 | -52.9 |
| 9900.00 | Н | 46.0 | 5.3 | 39.9 | -38.6 | -45.8 | 6.8 | 2.2 | 500.0 | -47.2 |
| 9900.00 | V | 45.9 | 5.3 | 39.9 | -38.6 | -45.8 | 6.6 | 2.1 | 500.0 | -47.3 |
| 12375.00 | Н | 45.4 | 6.1 | 41.5 | -39.3 | -45.8 | 7.8 | 2.5 | 500.0 | -46.2 |
| 12375.00 | V | 43.1 | 6.1 | 41.5 | -39.3 | -45.8 | 5.5 | 1.9 | 500.0 | -48.5 |
| 14850.00 | Н | 45.1 | 6.8 | 42.3 | -40.2 | -45.8 | 8.1 | 2.5 | 500.0 | -45.9 |
| 14850.00 | V | 44.8 | 6.8 | 42.3 | -40.2 | -45.8 | 7.9 | 2.5 | 500.0 | -46.1 |
| 17325.00 | Н | 45.0 | 7.3 | 39.9 | -39.0 | -45.8 | 7.4 | 2.3 | 500.0 | -46.6 |
| 17325.00 | V | 44.8 | 7.3 | 39.9 | -39.0 | -45.8 | 7.3 | 2.3 | 500.0 | -46.7 |
| 19800.00 | Н | 35.8 | 2.2 | 40.4 | -26.7 | -45.8 | 5.9 | 2.0 | 500.0 | -48.1 |
| 19800.00 | V | 35.8 | 2.2 | 40.4 | -26.7 | -45.8 | 5.9 | 2.0 | 500.0 | -48.1 |
| 22275.00 | Н | 34.6 | 2.2 | 40.6 | -27.7 | -45.8 | 3.9 | 1.6 | 500.0 | -50.1 |
| 22275.00 | V | 34.6 | 2.2 | 40.6 | -27.7 | -45.8 | 3.9 | 1.6 | 500.0 | -50.1 |
| 24750.00 | Н | 34.3 | 2.2 | 40.6 | -28.2 | -45.8 | 3.1 | 1.4 | 500.0 | -50.9 |
| 24750.00 | V | 34.3 | 2.2 | 40.6 | -28.2 | -45.8 | 3.1 | 1.4 | 500.0 | -50.9 |

Amb = Ambient

Total (dBuV/m) = Meter Reading + CBL FAC + Ant Fac + Pre Amp + Duty Cycle

Checked BY RICHARD & King :



Model No. : DCI401MCS
Serial No. : 60001222661028
Mode : Transmit at 2425MHz

Test Specification : FCC 15.249 and Industry Canada RSS-210 Annex 2, section A2.9

Date : August 1, 2012

Test Distance : 3 meters

Note :

Peak Reading

| | | | | | | Peak | Peak | Peak | |
|----------|-----|---------|------|------|------|--------|--------|--------|--------|
| | | Meter | CBL | Ant | Pre | Total | Total | Limit | |
| Freq. | Ant | Reading | Fac | Fac | Amp | dBuV/m | uV/m | uV/m | Margin |
| MHz | Pol | (dBuV) | (dB) | (dB) | (dB) | at 3m | at 3 m | at 3 m | (dB) |
| 2400.000 | V | 38.1 | 2.6 | 30.0 | 0.0 | 70.7 | 3427.7 | 5000.0 | -3.3 |

Average Reading

| Freq (MHz) | Ant Pol | Meter Reading (dBuV) | Fac | Ant Fac (dB) | Amp | Duty Cycle Corr. (dB) | Total dBuV/m at 3 M | | | Margin (dB) |
|---------------|------------|----------------------------|-----|--------------------|-----|--------------------------------|---------------------------|------|-------|----------------|
| 2400.00 | V | 38.1 | 2.6 | 30.0 | 0.0 | -45.9 | 24.8 | 17.4 | 500.0 | -29.2 |

Checked BY

RICHARD E. King :



Model No. : DCI401MCS Serial No. : 60001222661028 Mode : Transmit at 2475MHz

Test Specification : FCC 15.249 and Industry Canada RSS-210 Annex 2, section A2.9

Date : August 1, 2012

Test Distance : 3 meters

Note

Peak Reading

| | | | | | | Peak | Peak | Peak | |
|----------|-----|---------|------|------|------|--------|--------|--------|--------|
| | | Meter | CBL | Ant | Pre | Total | Total | Limit | |
| Freq. | Ant | Reading | Fac | Fac | Amp | dBuV/m | uV/m | uV/m | Margin |
| MHz | Pol | (dBuV) | (dB) | (dB) | (dB) | at 3m | at 3 m | at 3 m | (dB) |
| 2483.500 | V | 36.4 | 2.7 | 30.2 | 0.0 | 69.3 | 2921.5 | 5000.0 | -4.7 |

Average Reading

| | | Meter | CBL | Ant | Pre | Duty Cycle | Total | Total | Limit | |
|---------|-----|---------|------|------|------|-------------------|--------|-------|-------|--------|
| Freq | Ant | Reading | Fac | Fac | Amp | Corr. | dBuV/m | uV/m | uV/m | Margin |
| (MHz) | Pol | (dBuV) | (dB) | (dB) | (dB) | (dB) | at 3 M | at 3M | at 3M | (dB) |
| 2483.50 | V | 36.4 | 2.7 | 30.2 | 0.0 | -45.9 | 23.4 | 14.8 | 500.0 | -30.6 |

Checked BY RICHARD & King :