

Logitech, Inc.

ClearChat PC Wireless Headset M/N: A-00006

March 11, 2008

Report No. LABT0296.1

Report Prepared By



www.nwemc.com
1-888-EMI-CERT

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EMC Test Report

Certificate of Test
Issue Date: March 11, 2008
Logitech, Inc.
Model: ClearChat PC Wireless Headset M/N: A-00006

| Emissions | | | | |
|---|------------------------------------|--------------------------------|-----------|--|
| Test Description | Specification | Test Method | Pass/Fail | |
| Spurious Radiated Emissions | FCC 15.247 (DTS):2007 | ANSI C63.4:2003 KDB No. 558074 | Pass | |
| Spurious Conducted Emissions | FCC 15.247 (DTS):2007 | ANSI C63.4:2003 KDB No. 558074 | Pass | |
| Peak Output power | FCC 15.247 (DTS):2007 | ANSI C63.4:2003 KDB No. 558074 | Pass | |
| Occupied Band Width | FCC 15.247 (DTS):2007 | ANSI C63.4:2003 KDB No. 558074 | Pass | |
| Band Edge Compliance | FCC 15.247 (DTS):2007 | ANSI C63.4:2003 KDB No. 558074 | Pass | |
| Power Spectral Density | FCC 15.247 (DTS):2007 | ANSI C63.4:2003 KDB No. 558074 | Pass | |
| Spurious Radiated Emissions of the Receiver | RSS-Gen:2007 | RSS-Gen:2007 | Pass | |
| Conducted Emissions | FCC 15.207:2007 | ANSI C63.4:2003 | Pass | |
| Radiated Emissions | FCC 15.109(g) (CISPR 22:1997):2007 | ANSI C63.4:2003 | Pass | |

Modifications made to the product

See the Modifications section of this report

Test Facility

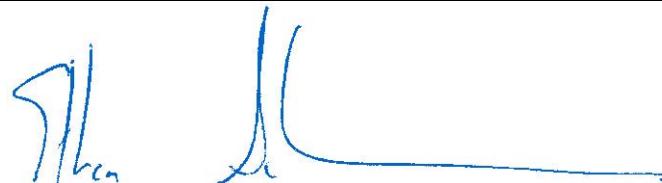
The measurement facility used to collect the data is located at:

Northwest EMC, Inc.
 22975 NW Evergreen Parkway, Suite 400
 Hillsboro, OR 97124

Phone: (503) 844-4066 Fax: 844-3826

This site has been fully described in a report filed with and accepted by the FCC (Federal Communications Commission) and Industry Canada.

Approved By:



Ethan Schoonover, Sultan Lab Manager



NVLAP Lab Code: 200630-0

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government of the United States of America.

Product compliance is the responsibility of the client, therefore the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. This Report may only be duplicated in its entirety. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test.

| Revision Number | Description | Date | Page Number |
|-----------------|-------------|------|-------------|
| 00 | None | | |

FCC: Accredited by NVLAP for performance of FCC radio, digital, and ISM device testing. Our Open Area Test Sites, certification chambers, and conducted measurement facilities have been fully described in reports filed with the FCC and accepted by the FCC in letters maintained in our files. Northwest EMC has been accredited by ANSI to ISO / IEC Guide 65 as a product certifier. We have been designated by the FCC as a Telecommunications Certification Body (TCB). This allows Northwest EMC to certify transmitters to FCC specifications in accordance with 47 CFR 2.960 and 2.962.



NVLAP: Northwest EMC, Inc. is accredited under the United States Department of Commerce, National Institute of Standards and Technology, and National Voluntary Laboratory Accreditation Program for satisfactory compliance with the requirements of ISO/IEC 17025 for Testing Laboratories. The NVLAP accreditation encompasses Electromagnetic Compatibility Testing in accordance with the European Union EMC Directive 2004/108/EC, and ANSI C63.4. Additionally, Northwest EMC is accredited by NVLAP to perform radio testing in accordance with the European Union R&TTE Directive 1999/5/EEC, the requirements of FCC, and the RSS radio standards for Industry Canada.



NVLAP LAB CODE 200629-0
NVLAP LAB CODE 200630-0
NVLAP LAB CODE 200676-0
NVLAP LAB CODE 200761-0

Industry Canada: Accredited by NVLAP for performance of Industry Canada RSS and ICES testing. Our Open Area Test Sites and certification chambers comply with RSS 212, Issue 1 (Provisional) and have been filed with Industry Canada and accepted. Northwest EMC has been accredited by ANSI to ISO / IEC Guide 65 as a product certifier. We have been designated by NIST and recognized by Industry Canada as a Certification Body (CB) per the APEC Mutual Recognition Arrangement (MRA). This allows Northwest EMC to certify transmitters to Industry Canada technical requirements.



CAB: Designated by NIST and validated by the European Commission as a Conformity Assessment Body (CAB) to conduct tests and approve products to the EMC directive and transmitters to the R&TTE directive, as described in the U.S. - EU Mutual Recognition Agreement.



TÜV Product Service: Included in TÜV Product Service Group's Listing of Recognized Laboratories. It qualifies in connection with the TÜV Certification after Recognition of Agent's Testing Program for the product categories and/or standards shown in TÜV's current Listing of CARAT Laboratories, available from TÜV. A certificate was issued to represent that this laboratory continues to meet TÜV's CARAT Program requirements. Certificate No. USA0604C.



TÜV Rheinland: Authorized to carryout EMC tests by order and under supervision of TÜV Rheinland. This authorization is based on "Conditions for EMC-Subcontractors" of November 1992.



NEMKO: Assessed and accredited by NEMKO (Norwegian testing and certification body) for European emissions and immunity testing. As a result of NEMKO's laboratory assessment, they will accept test results from Northwest EMC, Inc. for product certification (Authorization No. ELA 119).



Australia/New Zealand: The National Association of Testing Authorities (NATA), Australia has been appointed by the ACA as an accreditation body to accredit test laboratories and competent bodies for EMC standards. Accredited test reports or assessments by competent bodies must carry the NATA logo. Test reports made by an overseas laboratory that has been accredited for the relevant standards by an overseas accreditation body that has a Mutual Recognition Agreement (MRA) with NATA are also accepted as technical grounds for product conformity. The report should be endorsed with the respective logo of the accreditation body (NVLAP).



VCCI: Accepted as an Associate Member to the VCCI, Acceptance No. 564. Conducted and radiated measurement facilities have been registered in accordance with Regulations for Voluntary Control Measures, Article 8. (Registration Numbers. - Hillsboro: C-1071, R-1025, C-2687, T-289, and R-2318, Irvine: R-1943, C-2766, and T-298, Sultan: R-871, C-1784, and T-294).



BSMI: Northwest EMC has been designated by NIST and validated by C-Taipei (BSMI) as a CAB to conduct tests as described in the APEC Mutual Recognition Agreement. License No.SL2-IN-E-1017.



GOST: Northwest EMC, Inc. has been assessed and accredited by the Russian Certification bodies Certinform VNIINMASH, CERTINFO, SAMTES, and Federal CHEC, to perform EMC and Hygienic testing for Information Technology Products. As a result of their laboratory assessment, they will accept test results from Northwest EMC, Inc. for product certification



MIC: Northwest EMC, Inc is a CAB designated by MRA partners and recognized by Korea. (Assigned Lab Numbers: Hillsboro: US0017, Irvine: US0158, Sultan: US0157)



SCOPE

For details on the Scopes of our Accreditations, please visit:
<http://www.nwemc.com/scope.asp>

How important is it to understand performance criteria?

It is the responsibility of the test laboratory to observe the results of the tests that are performed and to accurately report those results. As the responsible party (manufacturer, importer, etc) it is your responsibility to take those results, compare them against the specifications and standards, then, if appropriate make a declaration of conformity. As the responsible party it makes sense that you are fully aware of the requirements, how your device performs when tested to those requirements, and what information is being used to declare conformity.

To better assist you in making those conformity decisions, Northwest EMC has adopted a very simple, yet very clear performance assessment procedure. The following criteria is used when performing immunity or susceptibility tests:

Performance Criteria 1:

- The EUT exhibited no change in performance when operating as specified by the manufacturer. In this case no changes were observed during the test.
- In most cases this would be equivalent to Performance Criteria A. When operating the equipment in the modes or configurations specified by the responsible party, monitoring the parameters specified, no changes were observed. Basically nothing happened.

Performance Criteria 2:

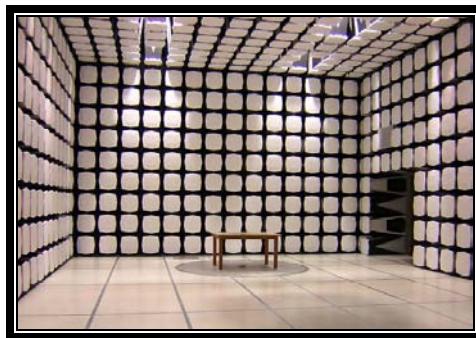
- The EUT exhibited a change in performance when operating as specified by the manufacturer. In this case the equipment recovered without any operator intervention, once the test signal was removed. The data sheets will detail the exact phenomena observed.
- In most cases this would be equivalent to Performance Criteria B. When operating the equipment in the modes or configurations specified by the responsible party, monitoring the parameters specified, changes were observed. The EUT was able to recover from those changes without any operator intervention, once the test signal was removed.

Performance Criteria 3:

- The EUT exhibited a change in performance when operating as specified by the manufacturer. In this case the equipment required some operator intervention in order to recover. This intervention may be in the form of changing EUT settings, or even resetting the system. The data sheets will detail the exact phenomena observed.
- In most cases this would be equivalent to Performance Criteria C. When operating the equipment in the modes or configurations specified by the responsible party, monitoring the parameters specified, changes were observed. The EUT required some sort of operator intervention to recover. There was no permanent damage and the EUT appeared to function normally after completion of test.

Performance Criteria 4:

- The EUT exhibited a change in performance when operating as specified by the manufacturer. In this case the equipment was damaged and would not recover. The data sheets will detail the exact phenomena observed.
- In most cases there is no specific criterion to compare this to; it typically ends the test. When operating the equipment in the modes or configurations specified by the responsible party, monitoring the parameters specified, changes were observed. There was no recovery; the equipment would no longer function as intended.



**California – Orange County Facility
Labs OC01 – OC13**

41 Tesla Ave. Irvine, CA 92618
(888) 364-2378 Fax: (503) 844-3826



**Oregon – Evergreen Facility
Labs EV01 – EV11**

22975 NW Evergreen Pkwy. Suite 400 Hillsboro, OR 97124
(503) 844-4066 Fax: (503) 844-3826



**Washington – Sultan Facility
Labs SU01 – SU07**

14128 339th Ave. SE Sultan, WA 98294
(888) 364-2378

Party Requesting the Test

| | |
|---------------------------------|--|
| Company Name: | Logitech, Inc. |
| Address: | 1499 SE Tech Center Place Suite 350 |
| City, State, Zip: | Vancouver, WA 98683 |
| Test Requested By: | Aaron Cohen |
| Model: | ClearChat PC Wireless Headset M/N: A-00006 |
| First Date of Test: | March 4, 2008 |
| Last Date of Test: | March 8, 2008 |
| Receipt Date of Samples: | February 22, 2008 |
| Equipment Design Stage: | Production |
| Equipment Condition: | No Damage |

Information Provided by the Party Requesting the Test**Functional Description of the EUT (Equipment Under Test):**

The ClearChat PC Wireless Headset (A-00006) transmit/receives in pi/4-DQPSK modulation only. It has two antennas (but only one antenna output port - antennas use a switch). The radio operates in the 2400-2483.5 MHz band.

Testing Objective:

Logitech is seeking a limited modular approval of the radio under FCC 15.247.

CONFIGURATION 1 LABT0296

| Software/Firmware Running during test | |
|--|----------------|
| Description | Version |
| AWADeveloper | 1.0.076 |

| EUT | | | |
|-------------------------------|---------------------|--------------------------|----------------------|
| Description | Manufacturer | Model/Part Number | Serial Number |
| ClearChat PC Wireless Headset | Logitech, Inc. | A-00006 | Unknown |

| Peripherals in test setup boundary | | | |
|---|---------------------|--------------------------|----------------------|
| Description | Manufacturer | Model/Part Number | Serial Number |
| AC Adapter | Logitech, Inc. | P925BW06042AB50 | Unknown |

| Remote Equipment Outside of Test Setup Boundary | | | |
|--|---------------------|--------------------------|----------------------|
| Description | Manufacturer | Model/Part Number | Serial Number |
| SPI/USB Converter | Avnera | USB to SPI Converter | 24 |
| Connector Board | Logitech, Inc. | 210-000247-002 | Unknown |
| Laptop | Dell | PP20L | Unknown |

| Cables | | | | | |
|-------------------|---------------|-------------------|----------------|---------------------|--|
| Cable Type | Shield | Length (m) | Ferrite | Connection 1 | Connection 2 |
| SPI | No | 0.3m | No | Headset | SPI/USB converter (during set-up only) |
| DC | No | 1.6m | No | Headset | AC Adapter |
| SPI | No | 0.2m | No | Connector Board | SPI/USB converter |
| USB | Yes | 1.0m | Yes | SPI/USB converter | Laptop |

PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.

CONFIGURATION 5 LABT0296

| Software/Firmware Running during test | |
|---------------------------------------|---------|
| Description | Version |
| AWAdeveloper | 1.0.076 |

| EUT | | | |
|-------------------------------|----------------|-------------------|----------------|
| Description | Manufacturer | Model/Part Number | Serial Number |
| ClearChat PC Wireless Headset | Logitech, Inc. | A-00006 | 210-000226-008 |

| Remote Equipment Outside of Test Setup Boundary | | | |
|---|----------------|----------------------|---------------|
| Description | Manufacturer | Model/Part Number | Serial Number |
| SPI/USB Converter | Avnera | USB to SPI Converter | 24 |
| Connector Board | Logitech, Inc. | 210-000247-002 | Unknown |
| Laptop | Dell | PP20L | Unknown |

| Cables | | | | | |
|------------|--------|------------|---------|-------------------|--|
| Cable Type | Shield | Length (m) | Ferrite | Connection 1 | Connection 2 |
| SPI | No | 0.3m | No | Headset | SPI/USB converter (during set-up only) |
| SPI | No | 0.2m | No | Connector Board | SPI/USB converter |
| USB | Yes | 1.0m | Yes | SPI/USB converter | Laptop |

PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.

| Equipment modifications | | | | | |
|-------------------------|-----------|------------------------------|---|---|---|
| Item | Date | Test | Modification | Note | Disposition of EUT |
| 1 | 2\25\2008 | Radiated Emissions | Tested as delivered to Test Station. | No EMI suppression devices were added or modified during this test. | EUT remained at Northwest EMC following the test. |
| 2 | 3/4/2008 | Peak Output Power | Modified from delivered configuration. Initial or No Modification | Installed C39. 9pF cap between C36 pin 1 and C37 pin 1. Modification done by Aaron Cohen. | EUT remained at Northwest EMC following the test. |
| 3 | 3/4/2008 | Band Edge Compliance | Tested as delivered to Test Station. | No EMI suppression devices were added or modified during this test. | EUT remained at Northwest EMC following the test. |
| 4 | 3/4/2008 | Power Spectral Density | Tested as delivered to Test Station. | No EMI suppression devices were added or modified during this test. | EUT remained at Northwest EMC following the test. |
| 5 | 3/4/2008 | Spurious conducted Emissions | Tested as delivered to Test Station. | No EMI suppression devices were added or modified during this test. | EUT remained at Northwest EMC following the test. |
| 6 | 3/5/2008 | Spurious Radiated Emissions | Tested as delivered to Test Station. | No EMI suppression devices were added or modified during this test. | EUT remained at Northwest EMC following the test. |
| 7 | 3/8/2008 | Occupied Band Width | Tested as delivered to Test Station. | No EMI suppression devices were added or modified during this test. | Scheduled testing was completed. |

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

MODES OF OPERATION

Pink Noise playing at 50% volume level. Running NWEMC H pattern.

MODE USED FOR FINAL DATA

Pink Noise playing at 50% volume level. Running NWEMC H pattern.

POWER SETTINGS INVESTIGATED

230VAC/50Hz

120VAC/60Hz

POWER SETTINGS USED FOR FINAL DATA

120VAC/60Hz

FREQUENCY RANGE INVESTIGATED

| | | | |
|-----------------|-------|----------------|---------|
| Start Frequency | 30MHz | Stop Frequency | 1000MHz |
|-----------------|-------|----------------|---------|

SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

| Description | Manufacturer | Model | ID | Last Cal. | Interval |
|--------------------|--------------|--------------------------|-----|-----------|----------|
| Antenna, Biconilog | EMCO | 3142 | AXB | 1/15/2008 | 24 |
| EV11 Cables | | 10m Test Distance Cables | EVL | 5/1/2007 | 13 |
| Pre-Amplifier | Miteq | AM-1551 | AOY | 5/1/2007 | 13 |
| Spectrum Analyzer | Agilent | E4443A | AAS | 12/7/2007 | 13 |

MEASUREMENT BANDWIDTHS

| | Frequency Range | Peak Data | Quasi-Peak Data | Average Data |
|--|-----------------|-----------|-----------------|--------------|
| | (MHz) | (kHz) | (kHz) | (kHz) |
| | 0.01 - 0.15 | 1.0 | 0.2 | 0.2 |
| | 0.15 - 30.0 | 10.0 | 9.0 | 9.0 |
| | 30.0 - 1000 | 100.0 | 120.0 | 120.0 |
| | Above 1000 | 1000.0 | N/A | 1000.0 |

Measurements were made using the bandwidths and detectors specified. No video filter was used.

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

Using the mode of operation and configuration noted within this report, a final radiated emission frequency range investigated (scanned), is also noted in this report. Radiated emissions shall be measured in the EUT azimuth and antenna height such that the maximum radiated emissions level will be measured. The test shall be conducted on a turntable and an antenna positioner. The preferred method of a continuous azimuth scan is to measure the EUT field strength with both polarities of the measuring antenna. A calibrated, linear antenna shall be positioned at the specified distance from the periphery of the EUT.

Tests were made with the antenna positioned in both the horizontal and vertical planes. The antenna height shall be varied in height above the conducting ground plane to obtain the maximum signal strength. The minimum height of the antenna shall be 1.5 meters. The maximum height of the antenna shall be 3 meters. The measurement distance shall be 3 meters or 10 meters. At any measurement distance, the antenna height shall be varied from 1 meter to 4 meters. These height scans apply for both horizontal and vertical polarization. For vertical polarization the minimum height of the center of the antenna shall be increased so that the antenna clearances the ground surface by at least 25 cm.

RADIATED EMISSIONS DATA SHEET

| | |
|---|----------------------------|
| EUT: ClearChat PC Wireless Headset and Dongle | Work Order: LABT0297 |
| Serial Number: Unknown | Date: 02/25/08 |
| Customer: Logitech, Inc. | Temperature: 23 °C |
| Attendees: none | Humidity: 31% |
| Project: N/A | Barometric Pres.: 1026.5mb |
| Tested by: David DiVergigelis | Job Site: EV11 |

TEST SPECIFICATIONS

FCC 15.109(g) (CISPR 22:1997):2007 Class B | ANSI C63.4:2003

TEST PARAMETERS

Antenna Height(s) (m) | 1 - 4 | Test Distance (m) | 10

COMMENTS

Dongle plugged into USB Cradle, Headset powered by Direct Plug-in Adaptor.

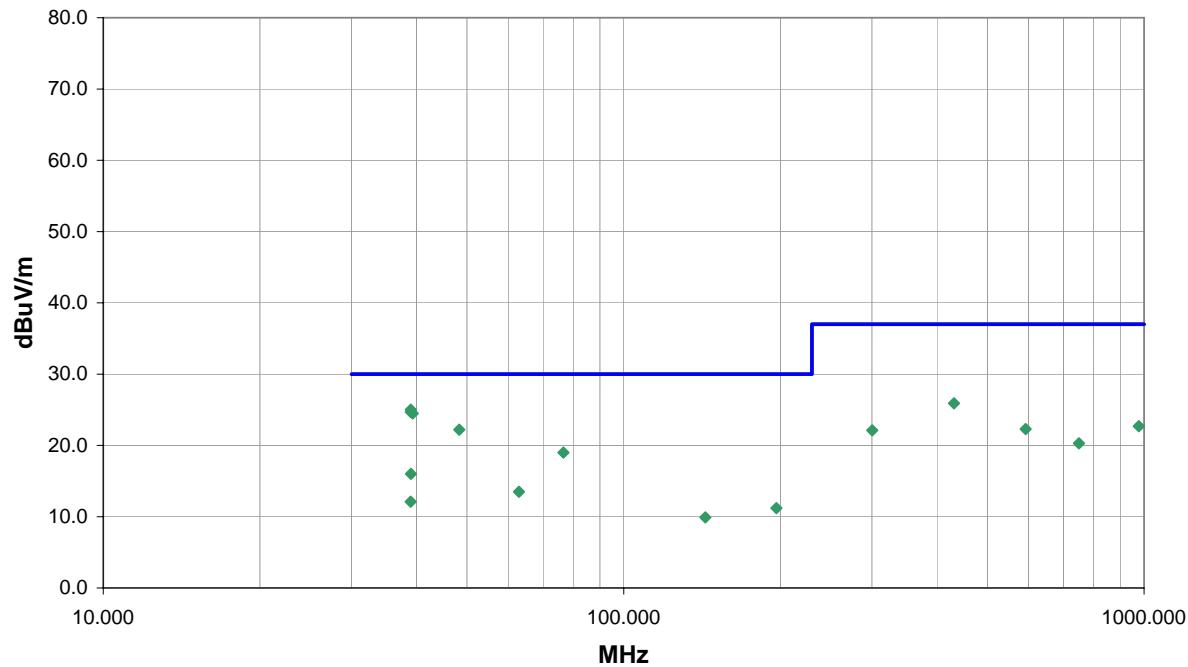
EUT OPERATING MODES

Pink Noise playing at 50% volume level. Running NWEMC H pattern.

DEVIATIONS FROM TEST STANDARD

No deviations.

| | |
|-----------------|------|
| Run # | 1 |
| Configuration # | 2 |
| Results | Pass |

Signature 

| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Azimuth (degrees) | Height (meters) | Distance (meters) | External Attenuation (dB) | Polarity | Detector | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|------------|------------------|-------------|-------------------|-----------------|-------------------|---------------------------|----------|----------|--------------------------|-----------------|--------------------|------------------------|
| 38.987 | 45.0 | -20.0 | 21.0 | 1.0 | 10.0 | 0.0 | V-Bilog | QP | 0.0 | 25.0 | 30.0 | -5.0 |
| 38.992 | 44.7 | -20.0 | 326.0 | 1.0 | 10.0 | 0.0 | V-Bilog | QP | 0.0 | 24.7 | 30.0 | -5.3 |
| 39.322 | 44.7 | -20.2 | 334.0 | 1.0 | 10.0 | 0.0 | V-Bilog | QP | 0.0 | 24.5 | 30.0 | -5.5 |
| 48.320 | 45.7 | -23.5 | 355.0 | 1.0 | 10.0 | 0.0 | V-Bilog | QP | 0.0 | 22.2 | 30.0 | -7.8 |
| 76.576 | 46.4 | -27.4 | -1.0 | 2.2 | 10.0 | 0.0 | V-Bilog | QP | 0.0 | 19.0 | 30.0 | -11.0 |
| 431.375 | 42.1 | -16.2 | 331.0 | 3.4 | 10.0 | 0.0 | V-Bilog | QP | 0.0 | 25.9 | 37.0 | -11.1 |
| 39.005 | 36.0 | -20.0 | 292.0 | 3.1 | 10.0 | 0.0 | H-Bilog | QP | 0.0 | 16.0 | 30.0 | -14.0 |
| 977.129 | 30.4 | -7.7 | 345.0 | 1.9 | 10.0 | 0.0 | H-Bilog | QP | 0.0 | 22.7 | 37.0 | -14.3 |
| 592.360 | 34.9 | -12.6 | 361.0 | 3.4 | 10.0 | 0.0 | V-Bilog | QP | 0.0 | 22.3 | 37.0 | -14.7 |
| 300.279 | 41.5 | -19.4 | -1.0 | 1.2 | 10.0 | 0.0 | V-Bilog | QP | 0.0 | 22.1 | 37.0 | -14.9 |
| 62.905 | 40.3 | -26.8 | 207.0 | 2.2 | 10.0 | 0.0 | V-Bilog | QP | 0.0 | 13.5 | 30.0 | -16.5 |
| 749.614 | 30.8 | -10.5 | 61.0 | 3.4 | 10.0 | 0.0 | V-Bilog | QP | 0.0 | 20.3 | 37.0 | -16.7 |
| 38.961 | 32.1 | -20.0 | 168.0 | 3.6 | 10.0 | 0.0 | H-Bilog | QP | 0.0 | 12.1 | 30.0 | -17.9 |
| 196.608 | 34.6 | -23.4 | 134.0 | 3.4 | 10.0 | 0.0 | V-Bilog | QP | 0.0 | 11.2 | 30.0 | -18.8 |
| 143.503 | 36.0 | -26.1 | 252.0 | 2.0 | 10.0 | 0.0 | V-Bilog | QP | 0.0 | 9.9 | 30.0 | -20.1 |

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

MODES OF OPERATION

Receive mode mid channel 20, low diversity antenna
 Transmitting high channel 37, low diversity antenna
 Transmitting mid channel 20, low diversity antenna
 Transmitting low channel 2, low diversity antenna

POWER SETTINGS INVESTIGATED

USB

CONFIGURATIONS INVESTIGATED

1 - Headset - SRE config

SAMPLE CALCULATIONS

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

TEST EQUIPMENT

| Description | Manufacturer | Model | ID | Last Cal. | Interval |
|------------------|------------------|------------------|-----|-----------|----------|
| LISN | Solar | 9252-50-R-24-BNC | LIR | 1/4/2008 | 13 mo |
| Attenuator | Coaxicom | 66702 2910-20 | RBR | 5/25/2007 | 13 mo |
| High Pass Filter | T.T.E. | 7766 | HFG | 2/5/2008 | 13 mo |
| EV07 Cables | | Conducted Cables | EVG | 4/17/2007 | 13 mo |
| Receiver | Rohde & Schwartz | ESCI | ARG | 12/7/2007 | 13 mo |

MEASUREMENT BANDWIDTHS

| | Frequency Range | Peak Data | Quasi-Peak Data | Average Data |
|-------------|-----------------|-----------|-----------------|--------------|
| | (MHz) | (kHz) | (kHz) | (kHz) |
| 0.01 - 0.15 | 1.0 | 0.2 | 0.2 | |
| 0.15 - 30.0 | 10.0 | 9.0 | 9.0 | |
| 30.0 - 1000 | 100.0 | 120.0 | 120.0 | |
| Above 1000 | 1000.0 | N/A | 1000.0 | |

Measurements were made using the bandwidths and detectors specified. No video filter was used.

MEASUREMENT UNCERTAINTY

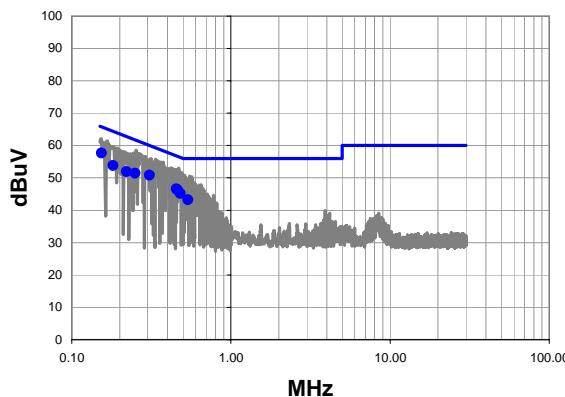
Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

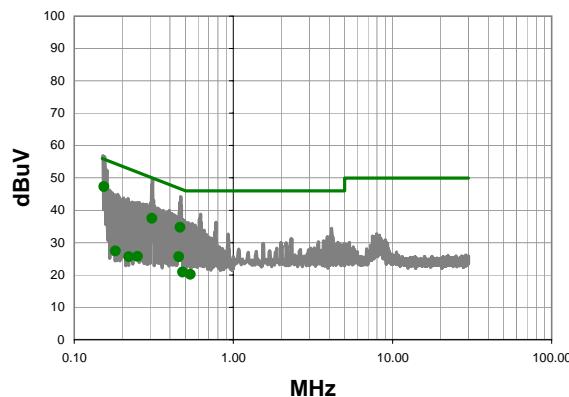
Using the mode of operation and configuration noted within this report, conducted emissions tests were performed. The frequency range investigated (scanned), is also noted in this report. Conducted power line measurements are made, unless otherwise specified, over the frequency range from 150 kHz to 30 MHz to determine the line-to-ground radio-noise voltage that is conducted from the EUT power-input terminals that are directly (or indirectly via separate transformer or power supplies) connected to a public power network. Equipment is tested with power cords that are normally used or that have electrical or shielding characteristics that are the same as those cords normally used. Typically those measurements are made using a LISN (Line Impedance Stabilization Network), the 50ohm measuring port is terminated by a 50ohm EMI meter or a 50ohm resistive load. All 50ohm measuring ports of the LISN are terminated by 50ohm.

| | | | | |
|---------------------|---|-------------------|-----------------|-------------------------------|
| Work Order: | LABT0296 | Date: | 02/27/08 | <i>DAW/jeL</i> |
| Project: | None | Temperature: | 22 | |
| Job Site: | EV07 | Humidity: | 26 | |
| Serial Number: | Unknown | Barometric Pres.: | 1016.9 | Tested by: David DiVergigelis |
| EUT: | ClearChat PC Wireless Headset, M/N: A-00006 | | | |
| Configuration: | 1 - Headset - SRE config | | | |
| Customer: | Logitech, Inc. | | | |
| Attendees: | none | | | |
| EUT Power: | USB | | | |
| Operating Mode: | Transmitting low channel 2, low diversity antenna | | | |
| Deviations: | No deviations. | | | |
| Comments: | USB to remote PC | | | |
| Test Specifications | | Class B | Test Method | |
| FCC 15.207:2007 | | | ANSI C63.4:2003 | |
| Run # | 9 | Line: | Neutral | Ext. Attenuation: |
| | | | 20 | Results |
| | | | | Pass |

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

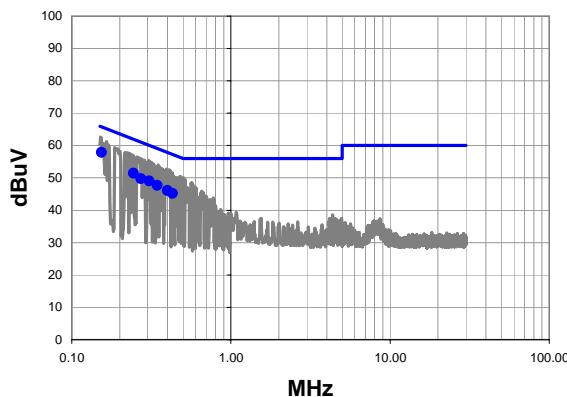
| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted dBuV | Spec. Limit dBuV | Compared to Spec. (dB) |
|------------|------------------|-------------|---------------|------------------|------------------------|
| 0.154 | 35.7 | 21.9 | 57.6 | 65.8 | -8.2 |
| 0.308 | 29.9 | 20.9 | 50.8 | 60.0 | -9.2 |
| 0.454 | 25.7 | 20.8 | 46.5 | 56.8 | -10.3 |
| 0.250 | 30.5 | 21.0 | 51.5 | 61.8 | -10.3 |
| 0.462 | 25.5 | 20.8 | 46.3 | 56.7 | -10.3 |
| 0.182 | 32.4 | 21.4 | 53.8 | 64.4 | -10.6 |
| 0.221 | 30.9 | 21.0 | 51.9 | 62.8 | -10.9 |
| 0.480 | 24.4 | 20.8 | 45.2 | 56.3 | -11.1 |
| 0.538 | 22.4 | 20.8 | 43.2 | 56.0 | -12.8 |

Average Data - vs - Average Limit

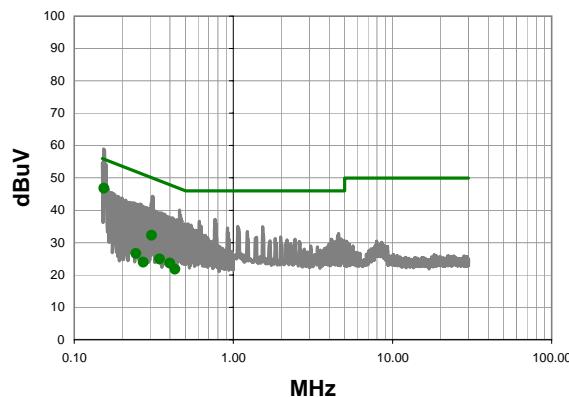
| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted dBuV | Spec. Limit dBuV | Compared to Spec. (dB) |
|------------|------------------|-------------|---------------|------------------|------------------------|
| 0.154 | 25.4 | 21.9 | 47.3 | 55.8 | -8.5 |
| 0.462 | 13.9 | 20.8 | 34.7 | 46.7 | -11.9 |
| 0.308 | 16.6 | 20.9 | 37.5 | 50.0 | -12.5 |
| 0.454 | 4.8 | 20.8 | 25.6 | 46.8 | -21.2 |
| 0.480 | 0.0 | 20.8 | 20.8 | 46.3 | -25.5 |
| 0.538 | -0.6 | 20.8 | 20.2 | 46.0 | -25.8 |
| 0.250 | 4.7 | 21.0 | 25.7 | 51.8 | -26.1 |
| 0.182 | 6.0 | 21.4 | 27.4 | 54.4 | -27.0 |
| 0.221 | 4.6 | 21.0 | 25.6 | 52.8 | -27.2 |

| | | | | |
|---------------------|---|-------------------|-----------------|-------------------------------|
| Work Order: | LABT0296 | Date: | 02/27/08 | <i>Donny E.</i> |
| Project: | None | Temperature: | 22 | |
| Job Site: | EV07 | Humidity: | 26 | |
| Serial Number: | Unknown | Barometric Pres.: | 1016.9 | Tested by: David DiVergigelis |
| EUT: | ClearChat PC Wireless Headset, M/N: A-00006 | | | |
| Configuration: | 1 - Headset - SRE config | | | |
| Customer: | Logitech, Inc. | | | |
| Attendees: | none | | | |
| EUT Power: | USB | | | |
| Operating Mode: | Transmitting low channel 2, low diversity antenna | | | |
| Deviations: | No deviations. | | | |
| Comments: | USB to remote PC | | | |
| Test Specifications | | Class B | Test Method | |
| FCC 15.207:2007 | | | ANSI C63.4:2003 | |
| Run # | 10 | Line: | High Line | Ext. Attenuation: |
| | | | 20 | Results |
| | | | | Pass |

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

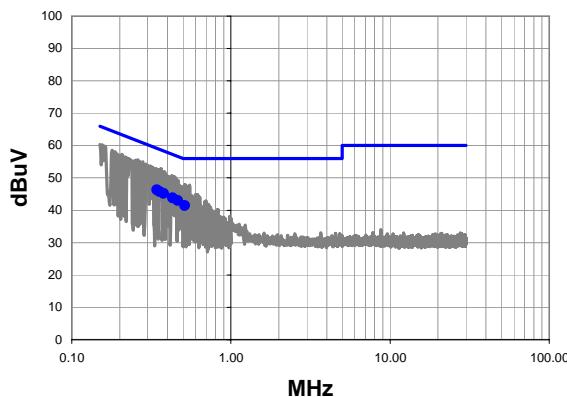
| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted dBuV | Spec. Limit dBuV | Compared to Spec. (dB) |
|------------|------------------|-------------|---------------|------------------|------------------------|
| 0.154 | 35.9 | 21.9 | 57.8 | 65.8 | -8.0 |
| 0.244 | 30.5 | 21.0 | 51.5 | 62.0 | -10.5 |
| 0.306 | 28.1 | 20.9 | 49.0 | 60.1 | -11.0 |
| 0.272 | 28.8 | 21.0 | 49.8 | 61.1 | -11.3 |
| 0.345 | 26.8 | 20.9 | 47.7 | 59.1 | -11.4 |
| 0.400 | 25.2 | 20.9 | 46.1 | 57.9 | -11.8 |
| 0.429 | 24.3 | 20.9 | 45.2 | 57.3 | -12.1 |

Average Data - vs - Average Limit

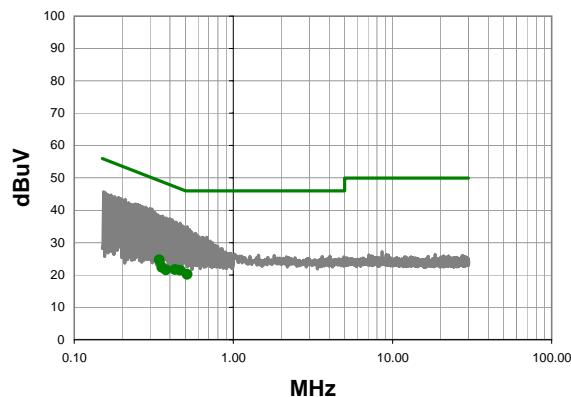
| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted dBuV | Spec. Limit dBuV | Compared to Spec. (dB) |
|------------|------------------|-------------|---------------|------------------|------------------------|
| 0.154 | 24.9 | 21.9 | 46.8 | 55.8 | -9.0 |
| 0.306 | 11.3 | 20.9 | 32.2 | 50.1 | -17.8 |
| 0.345 | 4.0 | 20.9 | 24.9 | 49.1 | -24.2 |
| 0.400 | 2.8 | 20.9 | 23.7 | 47.9 | -24.2 |
| 0.244 | 5.6 | 21.0 | 26.6 | 52.0 | -25.4 |
| 0.429 | 0.9 | 20.9 | 21.8 | 47.3 | -25.5 |
| 0.272 | 3.0 | 21.0 | 24.0 | 51.1 | -27.1 |

| | | | | |
|---------------------|--|-------------------|-----------------|-------------------------------|
| Work Order: | LABT0296 | Date: | 02/27/08 | <i>DAVID</i> |
| Project: | None | Temperature: | 22 | |
| Job Site: | EV07 | Humidity: | 26 | |
| Serial Number: | Unknown | Barometric Pres.: | 1016.9 | Tested by: David DiVergigelis |
| EUT: | ClearChat PC Wireless Headset, M/N: A-00006 | | | |
| Configuration: | 1 - Headset - SRE config | | | |
| Customer: | Logitech, Inc. | | | |
| Attendees: | none | | | |
| EUT Power: | USB | | | |
| Operating Mode: | Transmitting mid channel 20, low diversity antenna | | | |
| Deviations: | No deviations. | | | |
| Comments: | USB to remote PC | | | |
| Test Specifications | | Class B | Test Method | |
| FCC 15.207:2007 | | | ANSI C63.4:2003 | |
| Run # | 11 | Line: | High Line | Ext. Attenuation: |
| | | | 20 | Results |
| | | | | Pass |

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

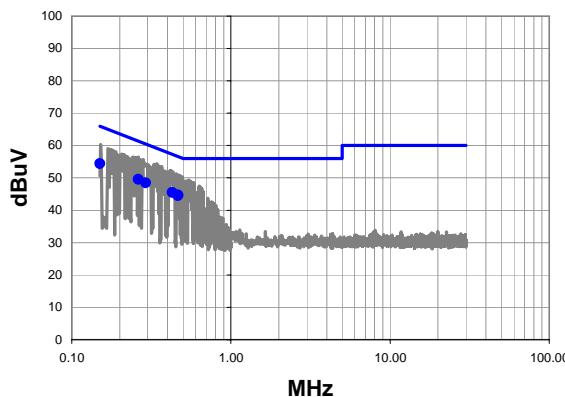
| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted dBuV | Spec. Limit dBuV | Compared to Spec. (dB) |
|------------|------------------|-------------|---------------|------------------|------------------------|
| 0.343 | 25.4 | 20.9 | 46.3 | 59.1 | -12.8 |
| 0.356 | 24.9 | 20.9 | 45.8 | 58.8 | -13.0 |
| 0.378 | 24.3 | 20.9 | 45.2 | 58.3 | -13.1 |
| 0.429 | 23.0 | 20.9 | 43.9 | 57.3 | -13.4 |
| 0.462 | 22.2 | 20.8 | 43.0 | 56.7 | -13.6 |
| 0.512 | 20.6 | 20.8 | 41.4 | 56.0 | -14.6 |

Average Data - vs - Average Limit

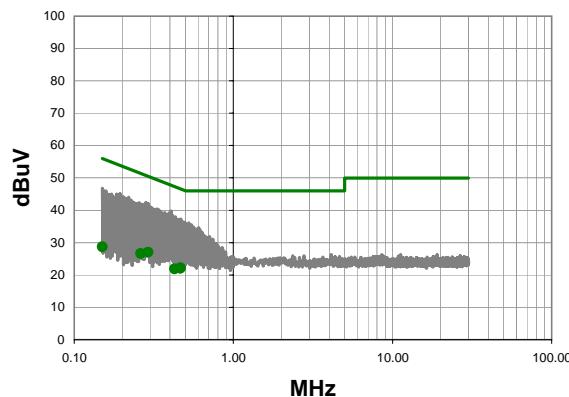
| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted dBuV | Spec. Limit dBuV | Compared to Spec. (dB) |
|------------|------------------|-------------|---------------|------------------|------------------------|
| 0.343 | 3.7 | 20.9 | 24.6 | 49.1 | -24.5 |
| 0.462 | 0.6 | 20.8 | 21.4 | 46.7 | -25.2 |
| 0.429 | 0.8 | 20.9 | 21.7 | 47.3 | -25.6 |
| 0.512 | -0.6 | 20.8 | 20.2 | 46.0 | -25.8 |
| 0.356 | 1.5 | 20.9 | 22.4 | 48.8 | -26.4 |
| 0.378 | 0.7 | 20.9 | 21.6 | 48.3 | -26.7 |

| | | | | |
|---------------------|--|-------------------|-----------------|-------------------|
| Work Order: | LABT0296 | Date: | 02/27/08 | |
| Project: | None | Temperature: | 22 | |
| Job Site: | EV07 | Humidity: | 26 | |
| Serial Number: | Unknown | Barometric Pres.: | 1016.9 | |
| | <i>DAVID D</i> | | | |
| EUT: | ClearChat PC Wireless Headset, M/N: A-00006 | | | |
| Configuration: | 1 - Headset - SRE config | | | |
| Customer: | Logitech, Inc. | | | |
| Attendees: | none | | | |
| EUT Power: | USB | | | |
| Operating Mode: | Transmitting mid channel 20, low diversity antenna | | | |
| Deviations: | No deviations. | | | |
| Comments: | USB to remote PC | | | |
| Test Specifications | Class B | | Test Method | |
| FCC 15.207:2007 | | | ANSI C63.4:2003 | |
| Run # | 12 | Line: | Neutral | Ext. Attenuation: |
| | | | | 20 |
| | | | | Results |
| | | | | Pass |

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

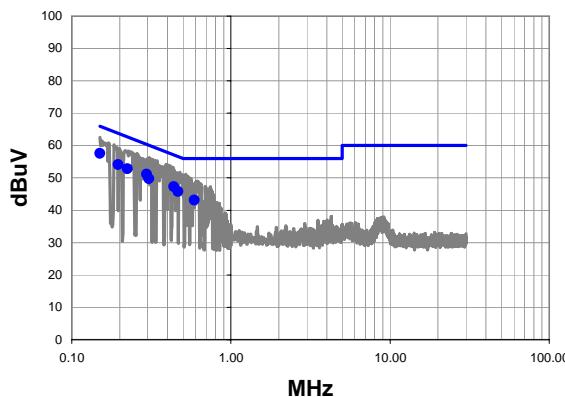
| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted dBuV | Spec. Limit dBuV | Compared to Spec. (dB) |
|------------|------------------|-------------|---------------|------------------|------------------------|
| 0.150 | 32.4 | 22.0 | 54.4 | 66.0 | -11.6 |
| 0.262 | 28.6 | 21.0 | 49.6 | 61.4 | -11.8 |
| 0.428 | 24.6 | 20.9 | 45.5 | 57.3 | -11.8 |
| 0.466 | 23.9 | 20.8 | 44.7 | 56.6 | -11.9 |
| 0.466 | 23.7 | 20.8 | 44.5 | 56.6 | -12.1 |
| 0.291 | 27.5 | 20.9 | 48.4 | 60.5 | -12.1 |

Average Data - vs - Average Limit

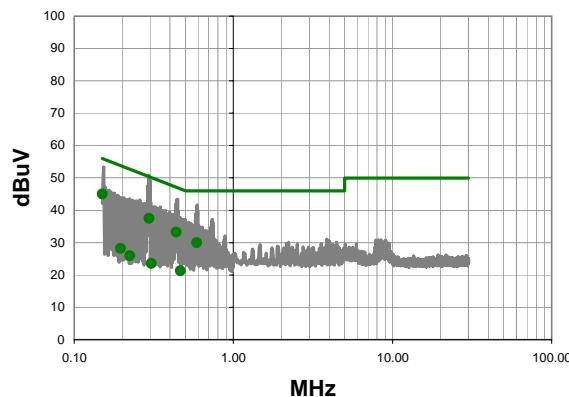
| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted dBuV | Spec. Limit dBuV | Compared to Spec. (dB) |
|------------|------------------|-------------|---------------|------------------|------------------------|
| 0.291 | 6.1 | 20.9 | 27.0 | 50.5 | -23.5 |
| 0.466 | 1.3 | 20.8 | 22.1 | 46.6 | -24.5 |
| 0.466 | 1.2 | 20.8 | 22.0 | 46.6 | -24.6 |
| 0.262 | 5.6 | 21.0 | 26.6 | 51.4 | -24.8 |
| 0.428 | 1.0 | 20.9 | 21.9 | 47.3 | -25.4 |
| 0.150 | 6.7 | 22.0 | 28.7 | 56.0 | -27.3 |

| | | | | |
|----------------------------|---|-------------------|--------------------|---------|
| Work Order: | LABT0296 | Date: | 02/27/08 | |
| Project: | None | Temperature: | 22 | |
| Job Site: | EV07 | Humidity: | 26 | |
| Serial Number: | Unknown | Barometric Pres.: | 1016.9 | |
| <i>EUT:</i> | ClearChat PC Wireless Headset, M/N: A-00006 | | | |
| Configuration: | 1 - Headset - SRE config | | | |
| Customer: | Logitech, Inc. | | | |
| Attendees: | none | | | |
| EUT Power: | USB | | | |
| Operating Mode: | Transmitting high channel 37, low diversity antenna | | | |
| Deviations: | No deviations. | | | |
| Comments: | USB to remote PC | | | |
| Test Specifications | Class B | | Test Method | |
| FCC 15.207:2007 | | | ANSI C63.4:2003 | |
| Run # | 13 | Line: | Neutral | Results |
| | | | Ext. Attenuation: | 20 |
| | | | | Pass |

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

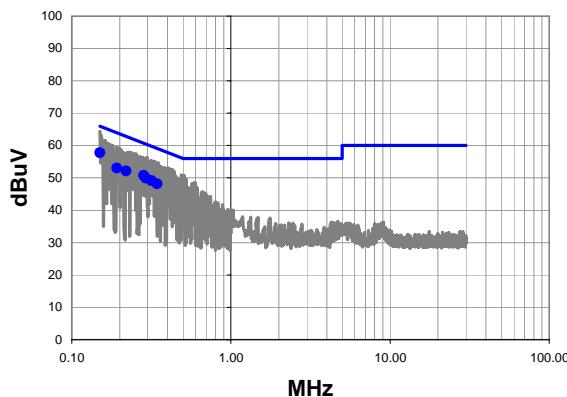
| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted dBuV | Spec. Limit dBuV | Compared to Spec. (dB) |
|------------|------------------|-------------|---------------|------------------|------------------------|
| 0.150 | 35.6 | 22.0 | 57.6 | 66.0 | -8.4 |
| 0.295 | 30.2 | 20.9 | 51.1 | 60.4 | -9.2 |
| 0.196 | 33.0 | 21.1 | 54.1 | 63.8 | -9.7 |
| 0.438 | 26.4 | 20.9 | 47.3 | 57.1 | -9.8 |
| 0.224 | 31.8 | 21.0 | 52.8 | 62.7 | -9.9 |
| 0.305 | 28.8 | 20.9 | 49.7 | 60.1 | -10.4 |
| 0.466 | 25.0 | 20.8 | 45.8 | 56.6 | -10.8 |
| 0.588 | 22.4 | 20.8 | 43.2 | 56.0 | -12.8 |

Average Data - vs - Average Limit

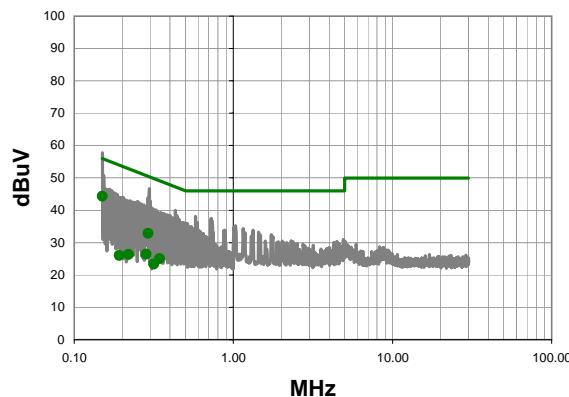
| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted dBuV | Spec. Limit dBuV | Compared to Spec. (dB) |
|------------|------------------|-------------|---------------|------------------|------------------------|
| 0.150 | 23.0 | 22.0 | 45.0 | 56.0 | -11.0 |
| 0.295 | 16.5 | 20.9 | 37.4 | 50.4 | -12.9 |
| 0.438 | 12.4 | 20.9 | 33.3 | 47.1 | -13.8 |
| 0.588 | 9.2 | 20.8 | 30.0 | 46.0 | -16.0 |
| 0.466 | 0.4 | 20.8 | 21.2 | 46.6 | -25.4 |
| 0.196 | 7.1 | 21.1 | 28.2 | 53.8 | -25.6 |
| 0.305 | 2.6 | 20.9 | 23.5 | 50.1 | -26.6 |
| 0.224 | 4.9 | 21.0 | 25.9 | 52.7 | -26.8 |

| | | | | |
|---------------------|---|-------------------|-----------------|-------------------------------|
| Work Order: | LABT0296 | Date: | 02/28/08 | <i>DAW/jeL</i> |
| Project: | None | Temperature: | 22 | |
| Job Site: | EV07 | Humidity: | 26 | |
| Serial Number: | Unknown | Barometric Pres.: | 1016.9 | Tested by: David DiVergigelis |
| EUT: | ClearChat PC Wireless Headset, M/N: A-00006 | | | |
| Configuration: | 1 - Headset - SRE config | | | |
| Customer: | Logitech, Inc. | | | |
| Attendees: | none | | | |
| EUT Power: | USB | | | |
| Operating Mode: | Transmitting high channel 37, low diversity antenna | | | |
| Deviations: | No deviations. | | | |
| Comments: | USB to remote PC | | | |
| Test Specifications | | Class B | Test Method | |
| FCC 15.207:2007 | | | ANSI C63.4:2003 | |
| Run # | 14 | Line: | High Line | Ext. Attenuation: |
| | | | 20 | Results |
| | | | | Pass |

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

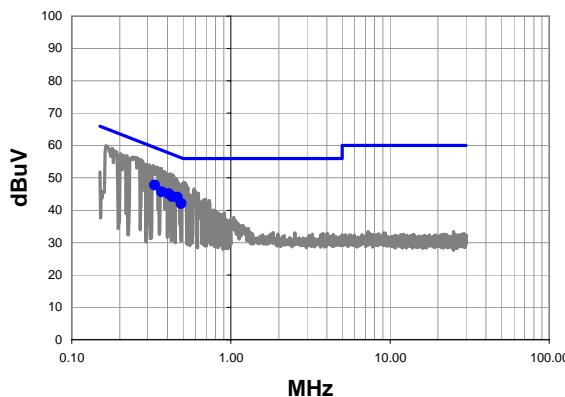
| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted dBuV | Spec. Limit dBuV | Compared to Spec. (dB) |
|------------|------------------|-------------|---------------|------------------|------------------------|
| 0.150 | 35.8 | 22.0 | 57.8 | 66.0 | -8.2 |
| 0.284 | 29.8 | 20.9 | 50.7 | 60.7 | -10.0 |
| 0.292 | 29.0 | 20.9 | 49.9 | 60.5 | -10.5 |
| 0.317 | 28.2 | 20.9 | 49.1 | 59.8 | -10.7 |
| 0.220 | 31.1 | 21.0 | 52.1 | 62.8 | -10.7 |
| 0.345 | 27.3 | 20.9 | 48.2 | 59.1 | -10.9 |
| 0.192 | 31.9 | 21.2 | 53.1 | 63.9 | -10.9 |

Average Data - vs - Average Limit

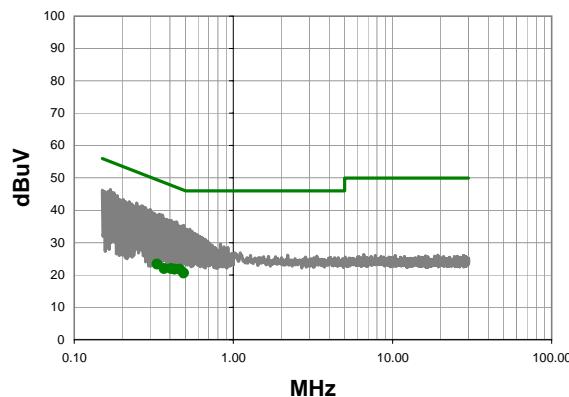
| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted dBuV | Spec. Limit dBuV | Compared to Spec. (dB) |
|------------|------------------|-------------|---------------|------------------|------------------------|
| 0.150 | 22.3 | 22.0 | 44.3 | 56.0 | -11.7 |
| 0.292 | 11.9 | 20.9 | 32.8 | 50.5 | -17.6 |
| 0.345 | 4.1 | 20.9 | 25.0 | 49.1 | -24.1 |
| 0.284 | 5.5 | 20.9 | 26.4 | 50.7 | -24.3 |
| 0.317 | 2.4 | 20.9 | 23.3 | 49.8 | -26.5 |
| 0.220 | 5.3 | 21.0 | 26.3 | 52.8 | -26.5 |
| 0.192 | 4.9 | 21.2 | 26.1 | 53.9 | -27.9 |

| | | | | |
|---------------------|--|-------------------|-----------------|-------------------------------|
| Work Order: | LABT0296 | Date: | 02/28/08 | <i>DAVID</i> |
| Project: | None | Temperature: | 22 | |
| Job Site: | EV07 | Humidity: | 26 | |
| Serial Number: | Unknown | Barometric Pres.: | 1016.9 | Tested by: David DiVergigelis |
| EUT: | ClearChat PC Wireless Headset, M/N: A-00006 | | | |
| Configuration: | 1 - Headset - SRE config | | | |
| Customer: | Logitech, Inc. | | | |
| Attendees: | none | | | |
| EUT Power: | USB | | | |
| Operating Mode: | Receive mode mid channel 20, low diversity antenna | | | |
| Deviations: | No deviations. | | | |
| Comments: | USB to remote PC | | | |
| Test Specifications | | Class B | Test Method | |
| FCC 15.207:2007 | | | ANSI C63.4:2003 | |
| Run # | 15 | Line: | High Line | Ext. Attenuation: |
| | | | 20 | Results |
| | | | | Pass |

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

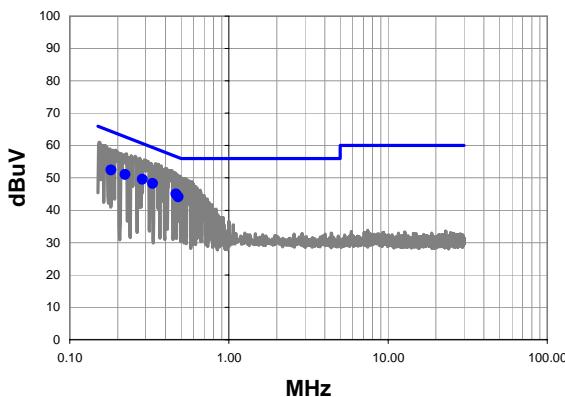
| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted dBuV | Spec. Limit dBuV | Compared to Spec. (dB) |
|------------|------------------|-------------|---------------|------------------|------------------------|
| 0.331 | 26.9 | 20.9 | 47.8 | 59.4 | -11.6 |
| 0.461 | 23.2 | 20.8 | 44.0 | 56.7 | -12.6 |
| 0.407 | 24.2 | 20.9 | 45.1 | 57.7 | -12.6 |
| 0.368 | 24.8 | 20.9 | 45.7 | 58.5 | -12.9 |
| 0.428 | 23.4 | 20.9 | 44.3 | 57.3 | -13.0 |
| 0.488 | 21.2 | 20.8 | 42.0 | 56.2 | -14.2 |

Average Data - vs - Average Limit

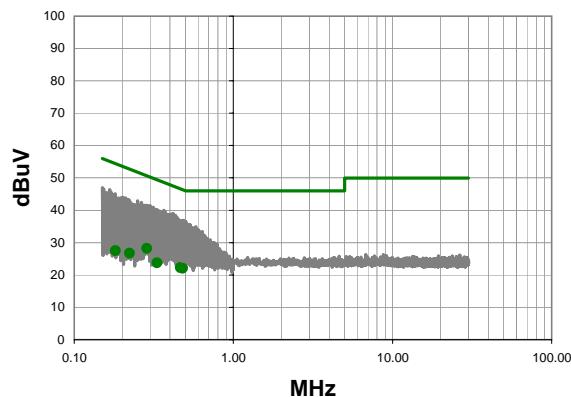
| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted dBuV | Spec. Limit dBuV | Compared to Spec. (dB) |
|------------|------------------|-------------|---------------|------------------|------------------------|
| 0.461 | 0.9 | 20.8 | 21.7 | 46.7 | -24.9 |
| 0.428 | 0.9 | 20.9 | 21.8 | 47.3 | -25.5 |
| 0.488 | -0.2 | 20.8 | 20.6 | 46.2 | -25.6 |
| 0.407 | 1.1 | 20.9 | 22.0 | 47.7 | -25.7 |
| 0.331 | 2.4 | 20.9 | 23.3 | 49.4 | -26.1 |
| 0.368 | 1.1 | 20.9 | 22.0 | 48.5 | -26.6 |

| | | | | |
|---------------------|--|-------------------|-----------------|-----------------------------|
| Work Order: | LABT0296 | Date: | 02/28/08 | <i>Don DiVerg</i> |
| Project: | None | Temperature: | 22 | |
| Job Site: | EV07 | Humidity: | 26 | |
| Serial Number: | Unknown | Barometric Pres.: | 1016.9 | Tested by: David DiVergelis |
| EUT: | ClearChat PC Wireless Headset, M/N: A-00006 | | | |
| Configuration: | 1 - Headset - SRE config | | | |
| Customer: | Logitech, Inc. | | | |
| Attendees: | none | | | |
| EUT Power: | USB | | | |
| Operating Mode: | Receive mode mid channel 20, low diversity antenna | | | |
| Deviations: | No deviations. | | | |
| Comments: | USB to remote PC | | | |
| Test Specifications | | Class B | Test Method | |
| FCC 15.207:2007 | | | ANSI C63.4:2003 | |
| Run # | 16 | Line: | Neutral | Ext. Attenuation: |
| | | | 20 | Results |
| | | | | Pass |

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted dBuV | Spec. Limit dBuV | Compared to Spec. (dB) |
|------------|------------------|-------------|---------------|------------------|------------------------|
| 0.286 | 28.6 | 20.9 | 49.5 | 60.6 | -11.1 |
| 0.331 | 27.4 | 20.9 | 48.3 | 59.4 | -11.1 |
| 0.466 | 24.2 | 20.8 | 45.0 | 56.6 | -11.6 |
| 0.223 | 30.1 | 21.0 | 51.1 | 62.7 | -11.6 |
| 0.182 | 31.1 | 21.4 | 52.5 | 64.4 | -11.9 |
| 0.481 | 23.3 | 20.8 | 44.1 | 56.3 | -12.2 |

Average Data - vs - Average Limit

| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted dBuV | Spec. Limit dBuV | Compared to Spec. (dB) |
|------------|------------------|-------------|---------------|------------------|------------------------|
| 0.286 | 7.2 | 20.9 | 28.1 | 50.6 | -22.5 |
| 0.481 | 1.2 | 20.8 | 22.0 | 46.3 | -24.3 |
| 0.466 | 1.4 | 20.8 | 22.2 | 46.6 | -24.4 |
| 0.331 | 2.8 | 20.9 | 23.7 | 49.4 | -25.7 |
| 0.223 | 5.7 | 21.0 | 26.7 | 52.7 | -26.0 |
| 0.182 | 6.1 | 21.4 | 27.5 | 54.4 | -26.9 |

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

MODES OF OPERATION

| |
|---|
| Receive mode mid channel 20, low diversity antenna |
| Receive mode mid channel 20, High diversity antenna |

POWER SETTINGS INVESTIGATED

| |
|-------------|
| 120VAC/60Hz |
|-------------|

FREQUENCY RANGE INVESTIGATED

| | | | |
|-----------------|--------|----------------|--------|
| Start Frequency | 30 MHz | Stop Frequency | 15 GHz |
|-----------------|--------|----------------|--------|

SAMPLE CALCULATIONS

| |
|--|
| Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation |
|--|

TEST EQUIPMENT

| Description | Manufacturer | Model | ID | Last Cal. | Interval |
|--------------------|--------------|----------------------------|-----|------------|----------|
| Spectrum Analyzer | Agilent | E4446A | AAT | 12/7/2007 | 13 |
| Pre-Amplifier | Miteq | AM-1616-1000 | AOL | 12/29/2006 | 16 |
| Antenna, Biconilog | EMCO | 3141 | AXE | 1/15/2008 | 24 |
| EV01 Cables | | Bilog Cables | EVA | 10/23/2007 | 13 |
| Pre-Amplifier | Miteq | AMF-4D-010100-24-10P | APW | 1/3/2008 | 13 |
| Antenna, Horn | EMCO | 3115 | AHC | 8/24/2006 | 24 |
| EV01 Cables | | Double Ridge Horn Cables | EVB | 1/3/2008 | 13 |
| Pre-Amplifier | Miteq | AMF-6F-08001200-30-10P | AVC | 6/22/2007 | 13 |
| Antenna, Horn | ETS | 3160-07 | AHU | NCR | 0 |
| Pre-Amplifier | Miteq | AMF-6F-12001800-30-10P | AVD | 6/22/2007 | 13 |
| Antenna, Horn | ETS | 3160-08 | AHV | NCR | 0 |
| EV01 Cables | | Standard Gain Horns Cables | EVF | 10/23/2007 | 13 |

MEASUREMENT BANDWIDTHS

| | Frequency Range | Peak Data | Quasi-Peak Data | Average Data |
|--|-----------------|-----------|-----------------|--------------|
| | (MHz) | (kHz) | (kHz) | (kHz) |
| | 0.01 - 0.15 | 1.0 | 0.2 | 0.2 |
| | 0.15 - 30.0 | 10.0 | 9.0 | 9.0 |
| | 30.0 - 1000 | 100.0 | 120.0 | 120.0 |
| | Above 1000 | 1000.0 | N/A | 1000.0 |

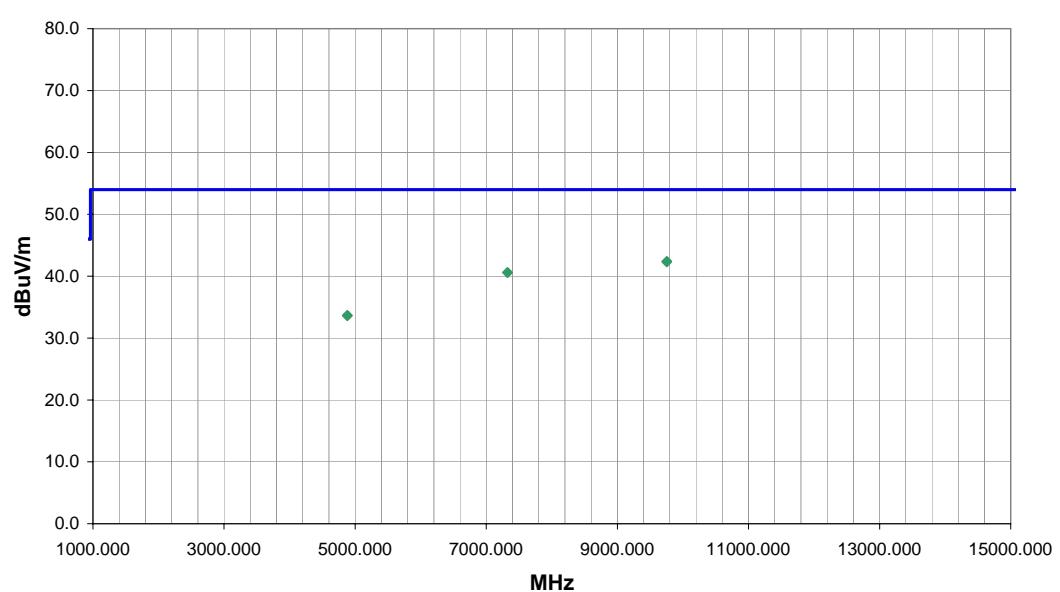
Measurements were made using the bandwidths and detectors specified. No video filter was used.

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The highest gain of each type of antenna to be used with the EUT was tested. The EUT was configured for mid channel receive frequency. For this configuration, the spectrum was scanned throughout the specified range. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and the EUT antenna in three orthogonal axis, and adjusting measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes.

| RECEIVER SPURIOUS EMISSIONS | | | | | | | | | | PSA 2007.05.07 EMI 2006.11.29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------|-------------|--|-------------------|-------------------|---------------------------|----------|----------|--------------------------|--|--------------------|------------------------|--------------------|-------------|-------------------|-----------------|-------------------|---------------------------|----------|----------|--------------------------|-----------------|--------------------|------------------------|----------|----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|--------------------|----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|-----------------|----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|--------------------|----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|-----------------|----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|--------------------|----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|-----------------|
| EUT: ClearChat PC Wireless Headset, M/N: A-00006 Serial Number: 210-000226-008 Customer: Logitech, Inc. Attendees: None Project: None Tested by: David DiVergigelis | | | | | | | | | | Work Order: LABT0296 Date: 03/05/08 Temperature: 22 Humidity: 26% Barometric Pres.: 1016.9 Job Site: EV01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TEST SPECIFICATIONS | | | | | | | | | | Test Method | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RSS-Gen:2007 | | | | | | | | | | RSS-Gen:2007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TEST PARAMETERS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Antenna Height(s) (m) | | 1 - 4 | | Test Distance (m) | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COMMENTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EUT OPERATING MODES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Receive mode mid channel 20, High diversity antenna | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DEVIATIONS FROM TEST STANDARD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No deviations. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Run # | 3 | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Configuration # | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Results | Pass | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Signature | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <p>The graph plots dBuV/m on the y-axis (0.0 to 80.0) against MHz on the x-axis (1000.000 to 15000.000). A horizontal blue line represents the 54.0 dBuV/m specification limit. Three green diamond markers indicate measured data points at approximately 5000.000 MHz (34 dBuV/m), 7000.000 MHz (40 dBuV/m), and 9000.000 MHz (42 dBuV/m).</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Freq (MHz)</th> <th>Amplitude (dBuV)</th> <th>Factor (dB)</th> <th>Azimuth (degrees)</th> <th>Height (meters)</th> <th>Distance (meters)</th> <th>External Attenuation (dB)</th> <th>Polarity</th> <th>Detector</th> <th>Distance Adjustment (dB)</th> <th>Adjusted dBuV/m</th> <th>Spec. Limit dBuV/m</th> <th>Compared to Spec. (dB)</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>9754.708</td> <td>23.1</td> <td>19.3</td> <td>238.0</td> <td>1.0</td> <td>3.0</td> <td>0.0</td> <td>V-Horn</td> <td>AV</td> <td>0.0</td> <td>42.4</td> <td>54.0</td> <td>-11.6</td> <td>Headset Horizontal</td> </tr> <tr> <td>9753.475</td> <td>23.0</td> <td>19.3</td> <td>147.0</td> <td>1.0</td> <td>3.0</td> <td>0.0</td> <td>H-Horn</td> <td>AV</td> <td>0.0</td> <td>42.3</td> <td>54.0</td> <td>-11.7</td> <td>Headset on side</td> </tr> <tr> <td>7322.763</td> <td>23.5</td> <td>17.1</td> <td>112.0</td> <td>1.0</td> <td>3.0</td> <td>0.0</td> <td>V-Horn</td> <td>AV</td> <td>0.0</td> <td>40.6</td> <td>54.0</td> <td>-13.4</td> <td>Headset Horizontal</td> </tr> <tr> <td>7322.948</td> <td>23.5</td> <td>17.1</td> <td>223.0</td> <td>3.7</td> <td>3.0</td> <td>0.0</td> <td>H-Horn</td> <td>AV</td> <td>0.0</td> <td>40.6</td> <td>54.0</td> <td>-13.4</td> <td>Headset on side</td> </tr> <tr> <td>4881.842</td> <td>23.2</td> <td>10.5</td> <td>145.0</td> <td>1.0</td> <td>3.0</td> <td>0.0</td> <td>V-Horn</td> <td>AV</td> <td>0.0</td> <td>33.7</td> <td>54.0</td> <td>-20.3</td> <td>Headset Horizontal</td> </tr> <tr> <td>4881.837</td> <td>23.1</td> <td>10.5</td> <td>164.0</td> <td>1.0</td> <td>3.0</td> <td>0.0</td> <td>H-Horn</td> <td>AV</td> <td>0.0</td> <td>33.6</td> <td>54.0</td> <td>-20.4</td> <td>Headset on side</td> </tr> </tbody> </table> | | | | | | | | | | | | Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Azimuth (degrees) | Height (meters) | Distance (meters) | External Attenuation (dB) | Polarity | Detector | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) | Comments | 9754.708 | 23.1 | 19.3 | 238.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 42.4 | 54.0 | -11.6 | Headset Horizontal | 9753.475 | 23.0 | 19.3 | 147.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 42.3 | 54.0 | -11.7 | Headset on side | 7322.763 | 23.5 | 17.1 | 112.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 40.6 | 54.0 | -13.4 | Headset Horizontal | 7322.948 | 23.5 | 17.1 | 223.0 | 3.7 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 40.6 | 54.0 | -13.4 | Headset on side | 4881.842 | 23.2 | 10.5 | 145.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 33.7 | 54.0 | -20.3 | Headset Horizontal | 4881.837 | 23.1 | 10.5 | 164.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 33.6 | 54.0 | -20.4 | Headset on side |
| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Azimuth (degrees) | Height (meters) | Distance (meters) | External Attenuation (dB) | Polarity | Detector | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) | Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9754.708 | 23.1 | 19.3 | 238.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 42.4 | 54.0 | -11.6 | Headset Horizontal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9753.475 | 23.0 | 19.3 | 147.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 42.3 | 54.0 | -11.7 | Headset on side | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7322.763 | 23.5 | 17.1 | 112.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 40.6 | 54.0 | -13.4 | Headset Horizontal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7322.948 | 23.5 | 17.1 | 223.0 | 3.7 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 40.6 | 54.0 | -13.4 | Headset on side | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4881.842 | 23.2 | 10.5 | 145.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 33.7 | 54.0 | -20.3 | Headset Horizontal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4881.837 | 23.1 | 10.5 | 164.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 33.6 | 54.0 | -20.4 | Headset on side | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| RECEIVER SPURIOUS EMISSIONS | | | | | | | | | | PSA 2007.05.07 EMI 2006.11.29 | |
|--|------|--|-------------------|--|--|-------------------------|--|--|--|----------------------------------|----------------|
| EUT: ClearChat PC Wireless Headset, M/N: A-00006 Serial Number: 210-000226-008 Customer: Logitech, Inc. Attendees: None Project: None Tested by: David DiVergigelis | | | | | | | | | | Work Order: LABT0296 | Date: 03/05/08 |
| | | | | | | | | | | Temperature: 22 | Humidity: 26% |
| | | | | | | | | | | Barometric Pres.: 1016.9 | Job Site: EV01 |
| TEST SPECIFICATIONS | | | | | | | | | | Test Method | |
| RSS-Gen:2007 | | | | | | | | | | RSS-Gen:2007 | |
| TEST PARAMETERS | | | | | | | | | | | |
| Antenna Height(s) (m) | | | Test Distance (m) | | | 3 | | | | | |
| COMMENTS | | | | | | | | | | | |
| None | | | | | | | | | | | |
| EUT OPERATING MODES | | | | | | | | | | | |
| Receive mode mid channel 20, low diversity antenna | | | | | | | | | | | |
| DEVIATIONS FROM TEST STANDARD | | | | | | | | | | | |
| No deviations. | | | | | | | | | | | |
| Run # | 4 | | | | | Signature <i>DA RFE</i> | | | | | |
| Configuration # | 5 | | | | | | | | | | |
| Results | Pass | | | | | | | | | | |
| | | | | | | | | | | | |

| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Azimuth (degrees) | Height (meters) | Distance (meters) | External Attenuation (dB) | Polarity | Detector | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) | Comments |
|------------|------------------|-------------|-------------------|-----------------|-------------------|---------------------------|----------|----------|--------------------------|-----------------|--------------------|------------------------|--------------------|
| 9754.140 | 23.1 | 19.3 | 218.0 | 1.0 | 0.0 | 0.0 | H-Horn | AV | 0.0 | 42.4 | 54.0 | -11.6 | Headset Vertical |
| 9754.683 | 23.0 | 19.3 | 356.0 | 1.0 | 0.0 | 0.0 | V-Horn | AV | 0.0 | 42.3 | 54.0 | -11.7 | Headset Horizontal |
| 7322.932 | 23.5 | 17.1 | 303.0 | 1.0 | 0.0 | 0.0 | H-Horn | AV | 0.0 | 40.6 | 54.0 | -13.4 | Headset Vertical |
| 7322.935 | 23.5 | 17.1 | 160.0 | 1.6 | 0.0 | 0.0 | V-Horn | AV | 0.0 | 40.6 | 54.0 | -13.4 | Headset Horizontal |
| 4881.065 | 23.3 | 10.5 | 224.0 | 1.0 | 0.0 | 0.0 | H-Horn | AV | 0.0 | 33.8 | 54.0 | -20.2 | Headset Vertical |
| 4881.820 | 23.2 | 10.5 | 149.0 | 1.6 | 0.0 | 0.0 | V-Horn | AV | 0.0 | 33.7 | 54.0 | -20.3 | Headset Horizontal |

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

MODES OF OPERATION

Transmit mode, Low channel
Transmit mode, mid channel
Transmit mode, high channel

POWER SETTINGS INVESTIGATED

120VAC/60Hz

FREQUENCY RANGE INVESTIGATED

| | | | |
|-----------------|--------|----------------|--------|
| Start Frequency | 30 MHz | Stop Frequency | 25 GHz |
|-----------------|--------|----------------|--------|

SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

| Description | Manufacturer | Model | ID | Last Cal. | Interval |
|--------------------|---------------|----------------------------|-----|------------|----------|
| Spectrum Analyzer | Agilent | E4446A | AAT | 12/7/2007 | 13 |
| Pre-Amplifier | Miteq | AM-1616-1000 | AOL | 12/29/2006 | 16 |
| Antenna, Biconilog | EMCO | 3141 | AXE | 1/15/2008 | 24 |
| EV01 Cables | | Bilog Cables | EVA | 10/23/2007 | 13 |
| High Pass Filter | Micro-Tronics | HPM50111 | HFO | 1/16/2008 | 13 |
| Pre-Amplifier | Miteq | AMF-4D-010100-24-10P | APW | 1/3/2008 | 13 |
| Antenna, Horn | EMCO | 3115 | AHC | 8/24/2006 | 24 |
| EV01 Cables | | Double Ridge Horn Cables | EVB | 1/3/2008 | 13 |
| Pre-Amplifier | Miteq | AMF-6F-08001200-30-10P | AVC | 6/22/2007 | 13 |
| Antenna, Horn | ETS | 3160-07 | AHU | NCR | 0 |
| EV01 Cables | | Standard Gain Horns Cables | EVF | 10/23/2007 | 13 |
| Pre-Amplifier | Miteq | AMF-6F-12001800-30-10P | AVD | 6/22/2007 | 13 |
| Antenna, Horn | ETS | 3160-08 | AHV | NCR | 0 |
| EV01 Cables | | Standard Gain Horns Cables | EVF | 10/23/2007 | 13 |
| Pre-Amplifier | Miteq | JSD4-18002600-26-8P | APU | 7/25/2007 | 13 |
| Antenna, Horn | EMCO | 3160-09 | AHG | NCR | 0 |
| EV01 Cables | | 6GHz Standard Gain Horn C | EVD | 7/25/2007 | 13 |

MEASUREMENT BANDWIDTHS

| | Frequency Range | Peak Data | Quasi-Peak Data | Average Data |
|--|-----------------|-----------|-----------------|--------------|
| | (MHz) | (kHz) | (kHz) | (kHz) |
| | 0.01 - 0.15 | 1.0 | 0.2 | 0.2 |
| | 0.15 - 30.0 | 10.0 | 9.0 | 9.0 |
| | 30.0 - 1000 | 100.0 | 120.0 | 120.0 |
| | Above 1000 | 1000.0 | N/A | 1000.0 |

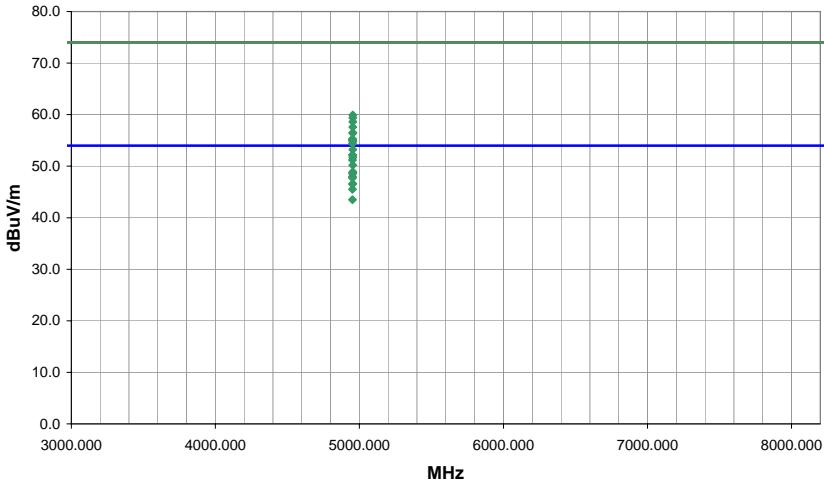
Measurements were made using the bandwidths and detectors specified. No video filter was used.

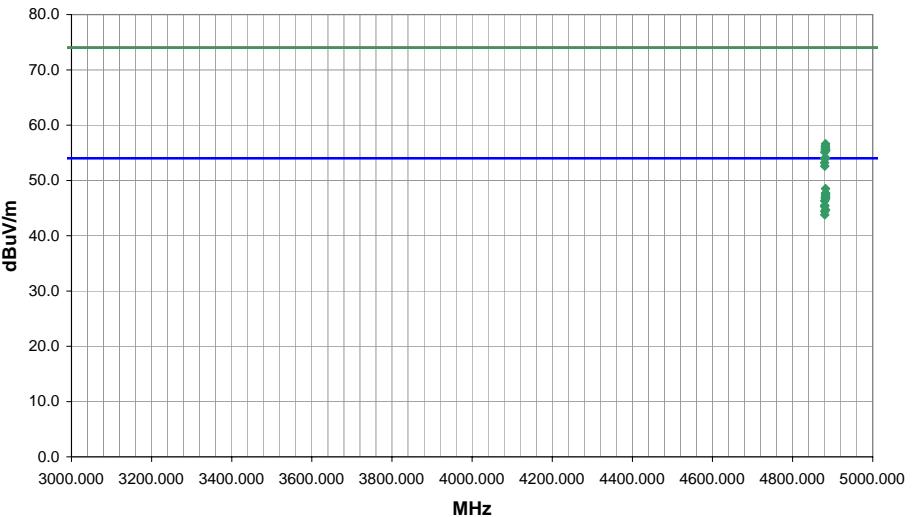
MEASUREMENT UNCERTAINTY

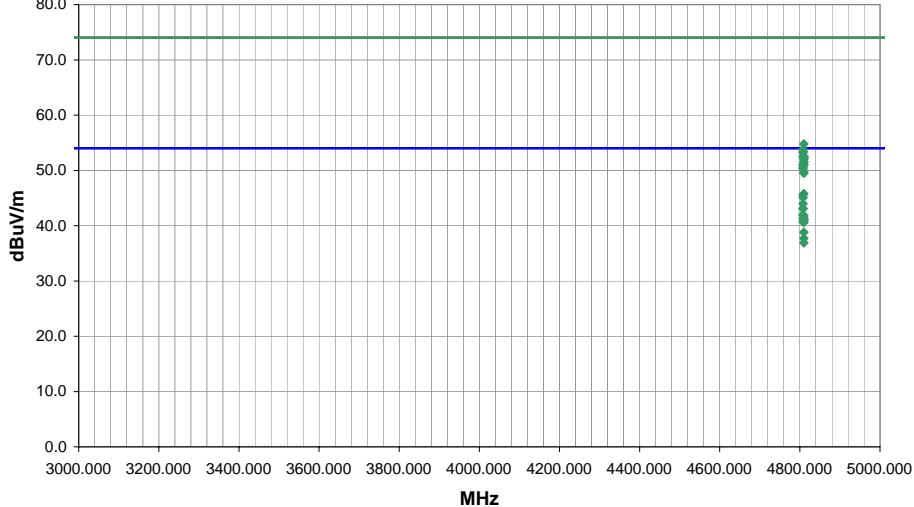
Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

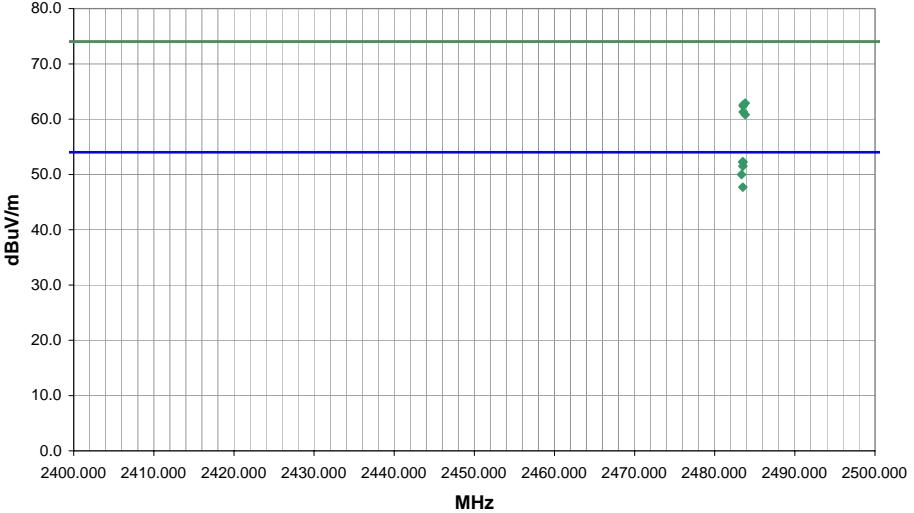
TEST DESCRIPTION

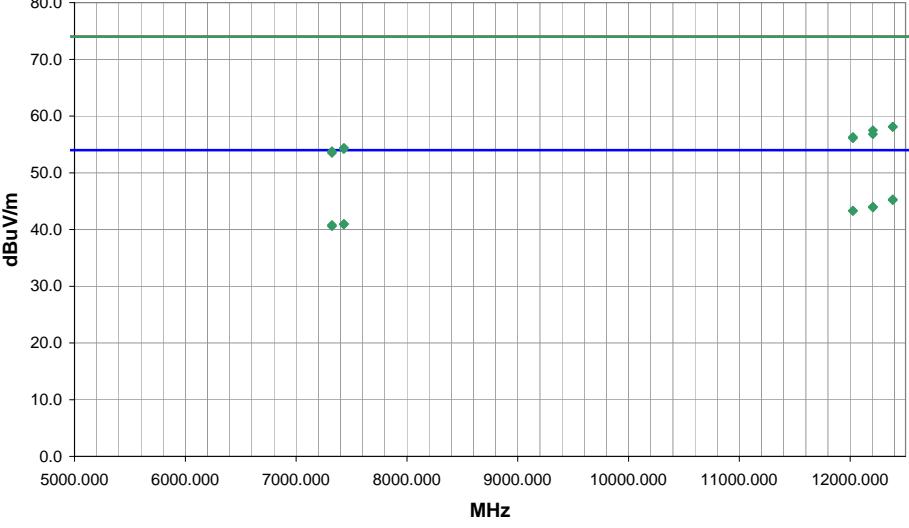
The highest gain of each type of antenna to be used with the EUT was tested. The EUT was configured for low, mid, and high band transmit frequencies. For each configuration, the spectrum was scanned throughout the specified range. In addition, measurements were made in the restricted bands to verify compliance. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and the EUT antenna in three orthogonal axis, and adjusting measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.4:2003). A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

| NORTHWEST EMC RADIATED SPURIOUS EMISSIONS | | | | | | | | | | | | PSA 2007.05.07 EMI 2006.11.29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------|-------------|-------------------|-----------------|-------------------|--|----------|----------|--------------------------|-----------------|-------------------------------------|----------------------------------|--|------------------|-------------|-------------------|-----------------|-------------------|---------------------------|----------|----------|--------------------------|-----------------|--------------------|------------------------|----------|----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|------|--|----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|------|---------------------------------------|----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|------|--|----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|------|--|----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|------|--|----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|------|--|----------|------|------|------|-----|-----|-----|--------|----|-----|------|------|------|--|----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|------|--|----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|------|--|----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|------|--|----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|------|--|----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|------|--|----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|--|----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|--|----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|---------------------------------------|----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|--|
| EUT: ClearChat PC Wireless Headset, M/N: A-00006 Serial Number: 210-000226-008 Customer: Logitech, Inc. Attendees: None Project: None Tested by: Holly Ashkannejhad | | | | | | Work Order: LABT0296 Date: 03/04/08 Temperature: 22 Humidity: 26% Barometric Pres.: 1010.8 Power: 120VAC/60Hz Job Site: EV01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TEST SPECIFICATIONS | | | | | | Test Method: ANSI C63.4:2003, KDB No. 558074 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FCC 15.247 (DTS):2007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TEST PARAMETERS Antenna Height(s) (m) 1 - 4 Test Distance (m) 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COMMENTS C39 installed (9 pF cap, C36 pad 1 to C37 pad 1). | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EUT OPERATING MODES Transmit mode, high channel, see comments for antenna | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DEVIATIONS FROM TEST STANDARD No deviations. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Run # | 15 | | | | | | | | | | Signature <i>Holly Ashkannejhad</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Configuration # | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Results | Pass | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <table border="1"> <thead> <tr> <th>Freq (MHz)</th> <th>Amplitude (dBuV)</th> <th>Factor (dB)</th> <th>Azimuth (degrees)</th> <th>Height (meters)</th> <th>Distance (meters)</th> <th>External Attenuation (dB)</th> <th>Polarity</th> <th>Detector</th> <th>Distance Adjustment (dB)</th> <th>Adjusted dBuV/m</th> <th>Spec. Limit dBuV/m</th> <th>Compared to Spec. (dB)</th> <th>Comments</th> </tr> </thead> <tbody> <tr><td>4954.000</td><td>42.2</td><td>11.0</td><td>181.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>53.2</td><td>54.0</td><td>-0.8</td><td>High diversity antenna, Side position.</td></tr> <tr><td>4954.000</td><td>41.1</td><td>11.0</td><td>166.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>52.1</td><td>54.0</td><td>-1.9</td><td>Low diversity antenna, Side position.</td></tr> <tr><td>4954.000</td><td>40.7</td><td>11.0</td><td>201.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>51.7</td><td>54.0</td><td>-2.3</td><td>High diversity antenna, Horizontal position.</td></tr> <tr><td>4954.000</td><td>39.2</td><td>11.0</td><td>175.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>50.2</td><td>54.0</td><td>-3.8</td><td>High diversity antenna, Vertical position.</td></tr> <tr><td>4954.000</td><td>37.9</td><td>11.0</td><td>232.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>48.9</td><td>54.0</td><td>-5.1</td><td>High diversity antenna, Vertical position.</td></tr> <tr><td>4952.000</td><td>37.6</td><td>11.0</td><td>169.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>48.6</td><td>54.0</td><td>-5.4</td><td>High diversity antenna, Vertical position.</td></tr> <tr><td>4954.000</td><td>37.6</td><td>11.0</td><td>92.0</td><td>1.5</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>48.6</td><td>54.0</td><td>-5.4</td><td>High diversity antenna, Horizontal position.</td></tr> <tr><td>4952.000</td><td>37.0</td><td>11.0</td><td>100.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>48.0</td><td>54.0</td><td>-6.0</td><td>High diversity antenna, Side position.</td></tr> <tr><td>4952.000</td><td>36.7</td><td>11.0</td><td>222.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>47.7</td><td>54.0</td><td>-6.3</td><td>High diversity antenna, Vertical position.</td></tr> <tr><td>4954.000</td><td>35.6</td><td>11.0</td><td>121.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>46.6</td><td>54.0</td><td>-7.4</td><td>High diversity antenna, Side position.</td></tr> <tr><td>4952.000</td><td>35.5</td><td>11.0</td><td>199.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>46.5</td><td>54.0</td><td>-7.5</td><td>High diversity antenna, Horizontal position.</td></tr> <tr><td>4952.000</td><td>34.5</td><td>11.0</td><td>116.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>45.5</td><td>54.0</td><td>-8.5</td><td>High diversity antenna, Horizontal position.</td></tr> <tr><td>4952.000</td><td>32.5</td><td>11.0</td><td>167.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>43.5</td><td>54.0</td><td>-10.5</td><td>High diversity antenna, Side position.</td></tr> <tr><td>4954.000</td><td>48.9</td><td>11.0</td><td>181.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>PK</td><td>0.0</td><td>59.9</td><td>74.0</td><td>-14.1</td><td>High diversity antenna, Side position.</td></tr> <tr><td>4954.000</td><td>48.4</td><td>11.0</td><td>166.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>PK</td><td>0.0</td><td>59.4</td><td>74.0</td><td>-14.6</td><td>Low diversity antenna, Side position.</td></tr> <tr><td>4954.000</td><td>47.6</td><td>11.0</td><td>201.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>58.6</td><td>74.0</td><td>-15.4</td><td>High diversity antenna, Horizontal position.</td></tr> </tbody> </table> | | | | | | | | | | | | | Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Azimuth (degrees) | Height (meters) | Distance (meters) | External Attenuation (dB) | Polarity | Detector | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) | Comments | 4954.000 | 42.2 | 11.0 | 181.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 53.2 | 54.0 | -0.8 | High diversity antenna, Side position. | 4954.000 | 41.1 | 11.0 | 166.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 52.1 | 54.0 | -1.9 | Low diversity antenna, Side position. | 4954.000 | 40.7 | 11.0 | 201.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 51.7 | 54.0 | -2.3 | High diversity antenna, Horizontal position. | 4954.000 | 39.2 | 11.0 | 175.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 50.2 | 54.0 | -3.8 | High diversity antenna, Vertical position. | 4954.000 | 37.9 | 11.0 | 232.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 48.9 | 54.0 | -5.1 | High diversity antenna, Vertical position. | 4952.000 | 37.6 | 11.0 | 169.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 48.6 | 54.0 | -5.4 | High diversity antenna, Vertical position. | 4954.000 | 37.6 | 11.0 | 92.0 | 1.5 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 48.6 | 54.0 | -5.4 | High diversity antenna, Horizontal position. | 4952.000 | 37.0 | 11.0 | 100.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 48.0 | 54.0 | -6.0 | High diversity antenna, Side position. | 4952.000 | 36.7 | 11.0 | 222.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 47.7 | 54.0 | -6.3 | High diversity antenna, Vertical position. | 4954.000 | 35.6 | 11.0 | 121.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 46.6 | 54.0 | -7.4 | High diversity antenna, Side position. | 4952.000 | 35.5 | 11.0 | 199.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 46.5 | 54.0 | -7.5 | High diversity antenna, Horizontal position. | 4952.000 | 34.5 | 11.0 | 116.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 45.5 | 54.0 | -8.5 | High diversity antenna, Horizontal position. | 4952.000 | 32.5 | 11.0 | 167.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 43.5 | 54.0 | -10.5 | High diversity antenna, Side position. | 4954.000 | 48.9 | 11.0 | 181.0 | 1.0 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 59.9 | 74.0 | -14.1 | High diversity antenna, Side position. | 4954.000 | 48.4 | 11.0 | 166.0 | 1.0 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 59.4 | 74.0 | -14.6 | Low diversity antenna, Side position. | 4954.000 | 47.6 | 11.0 | 201.0 | 1.0 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 58.6 | 74.0 | -15.4 | High diversity antenna, Horizontal position. |
| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Azimuth (degrees) | Height (meters) | Distance (meters) | External Attenuation (dB) | Polarity | Detector | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) | Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4954.000 | 42.2 | 11.0 | 181.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 53.2 | 54.0 | -0.8 | High diversity antenna, Side position. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4954.000 | 41.1 | 11.0 | 166.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 52.1 | 54.0 | -1.9 | Low diversity antenna, Side position. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4954.000 | 40.7 | 11.0 | 201.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 51.7 | 54.0 | -2.3 | High diversity antenna, Horizontal position. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4954.000 | 39.2 | 11.0 | 175.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 50.2 | 54.0 | -3.8 | High diversity antenna, Vertical position. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4954.000 | 37.9 | 11.0 | 232.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 48.9 | 54.0 | -5.1 | High diversity antenna, Vertical position. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4952.000 | 37.6 | 11.0 | 169.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 48.6 | 54.0 | -5.4 | High diversity antenna, Vertical position. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4954.000 | 37.6 | 11.0 | 92.0 | 1.5 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 48.6 | 54.0 | -5.4 | High diversity antenna, Horizontal position. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4952.000 | 37.0 | 11.0 | 100.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 48.0 | 54.0 | -6.0 | High diversity antenna, Side position. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4952.000 | 36.7 | 11.0 | 222.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 47.7 | 54.0 | -6.3 | High diversity antenna, Vertical position. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4954.000 | 35.6 | 11.0 | 121.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 46.6 | 54.0 | -7.4 | High diversity antenna, Side position. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4952.000 | 35.5 | 11.0 | 199.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 46.5 | 54.0 | -7.5 | High diversity antenna, Horizontal position. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4952.000 | 34.5 | 11.0 | 116.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 45.5 | 54.0 | -8.5 | High diversity antenna, Horizontal position. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4952.000 | 32.5 | 11.0 | 167.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 43.5 | 54.0 | -10.5 | High diversity antenna, Side position. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4954.000 | 48.9 | 11.0 | 181.0 | 1.0 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 59.9 | 74.0 | -14.1 | High diversity antenna, Side position. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4954.000 | 48.4 | 11.0 | 166.0 | 1.0 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 59.4 | 74.0 | -14.6 | Low diversity antenna, Side position. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4954.000 | 47.6 | 11.0 | 201.0 | 1.0 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 58.6 | 74.0 | -15.4 | High diversity antenna, Horizontal position. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| EMC RADIATED SPURIOUS EMISSIONS | | | | | | | | | | | | PSA 2007.05.07 EMI 2006.11.29 | |
|--|------------------|-------------|--|-------------------|-------------------|--|----------|----------|--------------------------|-----------------|--------------------|----------------------------------|--|
| EUT: ClearChat PC Wireless Headset, M/N: A-00006 Serial Number: 210-000226-008 Customer: Logitech, Inc. Attendees: None Project: None Tested by: Rod Peloquin | | | | | | Work Order: LABT0296 Date: 03/05/08 Temperature: 22 Humidity: 26% Barometric Pres.: 1010.8 Power: 120VAC/60Hz Job Site: EV01 | | | | | | | |
| TEST SPECIFICATIONS | | | | | | | | | | | | Test Method | |
| FCC 15.247 (DTS):2007 | | | | | | | | | | | | ANSI C63.4:2003, KDB No. 558074 | |
| TEST PARAMETERS | | | | | | | | | | | | | |
| Antenna Height(s) (m) | | 1 - 4 | | Test Distance (m) | | 3 | | | | | | | |
| COMMENTS | | | | | | | | | | | | | |
| C39 installed (9 pF cap, C36 pad 1 to C37 pad 1) | | | | | | | | | | | | | |
| EUT OPERATING MODES | | | | | | | | | | | | | |
| Transmit mode, mid channel | | | | | | | | | | | | | |
| DEVIATIONS FROM TEST STANDARD | | | | | | | | | | | | | |
| No deviations. | | | | | | | | | | | | | |
| Run # | 16 | |  | | | | | | | | | | |
| Configuration # | 1 | | | | | | | | | | | | |
| Results | Pass | | | | | | | | | | | | |
|  | | | | | | | | | | | | | |
| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Azimuth (degrees) | Height (meters) | Distance (meters) | External Attenuation (dB) | Polarity | Detector | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) | Comments |
| 4882.042 | 38.0 | 10.5 | 169.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 48.5 | 54.0 | -5.5 | Low diversity antenna, Horizontal position. |
| 4882.045 | 37.2 | 10.5 | 131.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 47.7 | 54.0 | -6.3 | High diversity antenna, Vertical position |
| 4882.078 | 37.1 | 10.5 | 176.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 47.6 | 54.0 | -6.4 | Low diversity antenna, Vertical position. |
| 4882.032 | 36.8 | 10.5 | 205.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 47.3 | 54.0 | -6.7 | Low diversity antenna, Side position. |
| 4882.115 | 36.5 | 10.5 | 166.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 47.0 | 54.0 | -7.0 | High diversity antenna, Horizontal position. |
| 4881.978 | 36.4 | 10.5 | 219.0 | 1.2 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 46.9 | 54.0 | -7.1 | High diversity antenna, Side position |
| 4881.975 | 36.3 | 10.5 | 170.0 | 1.1 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 46.8 | 54.0 | -7.2 | High diversity antenna, Vertical position |
| 4882.018 | 36.2 | 10.5 | 196.0 | 1.1 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 46.7 | 54.0 | -7.3 | High diversity antenna, Side position |
| 4880.025 | 35.8 | 10.5 | 219.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 46.3 | 54.0 | -7.7 | High diversity antenna, Vertical position |
| 4880.025 | 35.0 | 10.5 | 170.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 45.5 | 54.0 | -8.5 | Low diversity antenna, Horizontal position. |
| 4879.965 | 34.8 | 10.5 | 195.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 45.3 | 54.0 | -8.7 | High diversity antenna, horizontal position |
| 4882.020 | 34.2 | 10.5 | 185.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 44.7 | 54.0 | -9.3 | Low diversity antenna, Vertical position. |
| 4880.018 | 33.9 | 10.5 | 117.0 | 1.9 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 44.4 | 54.0 | -9.6 | High diversity antenna, horizontal position |
| 4880.070 | 33.3 | 10.5 | 226.0 | 1.1 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 43.8 | 54.0 | -10.2 | Low diversity antenna, Side position. |
| 4882.232 | 46.1 | 10.5 | 169.0 | 1.0 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 56.6 | 74.0 | -17.4 | Low diversity antenna, Horizontal position. |
| 4881.830 | 45.7 | 10.5 | 166.0 | 1.0 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 56.2 | 74.0 | -17.8 | High diversity antenna, Horizontal position. |
| 4881.730 | 45.6 | 10.5 | 131.0 | 1.0 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 56.1 | 74.0 | -17.9 | High diversity antenna, Vertical position |
| 4882.110 | 45.3 | 10.5 | 176.0 | 1.0 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 55.8 | 74.0 | -18.2 | Low diversity antenna, Vertical position. |
| 4881.675 | 45.2 | 10.5 | 196.0 | 1.1 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 55.7 | 74.0 | -18.3 | High diversity antenna, Side position |
| 4881.865 | 45.2 | 10.5 | 204.0 | 1.0 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 55.7 | 74.0 | -18.3 | Low diversity antenna, Side position. |

| RADIATED SPURIOUS EMISSIONS | | | | | | | | | | | | PSA 2007.05.07 EMI 2006.11.29 | | |
|---|---|-------------|-------------------|--|-------------------|---------------------------|-------------------|----------|--------------------------|-----------------|--------------------|----------------------------------|---|--|
| EUT: | ClearChat PC Wireless Headset, M/N: A-00006 | | | | | | Work Order: | LABT0296 | | | | | | |
| Serial Number: | 210-000226-008 | | | | | | Date: | 03/04/08 | | | | | | |
| Customer: | Logitech, Inc. | | | | | | Temperature: | 22 | | | | | | |
| Attendees: | None | | | | | | Humidity: | 26% | | | | | | |
| Project: | None | | | | | | Barometric Pres.: | 1010.8 | | | | | | |
| Tested by: | Rod Peloquin | | | Power: 120VAC/60Hz | | | Job Site: | EV01 | | | | | | |
| TEST SPECIFICATIONS | | | | | | | | | | | | Test Method | | |
| FCC 15.247 (DTS):2007 | | | | | | | | | | | | ANSI C63.4:2003, KDB No. 558074 | | |
| TEST PARAMETERS | | | | | | | | | | | | | | |
| Antenna Height(s) (m) | | 1 - 4 | | | Test Distance (m) | | 3 | | | | | | | |
| COMMENTS | | | | | | | | | | | | | | |
| C39 installed (9 pF cap, C36 pad 1 to C37 pad 1) | | | | | | | | | | | | | | |
| EUT OPERATING MODES | | | | | | | | | | | | | | |
| Transmit mode, Low channel | | | | | | | | | | | | | | |
| DEVIATIONS FROM TEST STANDARD | | | | | | | | | | | | | | |
| No deviations. | | | | | | | | | | | | | | |
| Run # | 17 | | |  | | | | | | | | | | |
| Configuration # | 1 | | | | | | | | | | | | | |
| Results | Pass | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | |
| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Azimuth (degrees) | Height (meters) | Distance (meters) | External Attenuation (dB) | Polarity | Detector | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) | Comments | |
| 4810.000 | 35.7 | 10.1 | 177.0 | 1.1 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 45.8 | 54.0 | -8.2 | High diversity antenna, Side position | |
| 4808.000 | 35.5 | 10.1 | 179.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 45.6 | 54.0 | -8.4 | High diversity antenna, Side position | |
| 4808.022 | 35.0 | 10.1 | 186.0 | 1.1 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 45.1 | 54.0 | -8.9 | High diversity antenna, Vertical position | |
| 4808.038 | 33.9 | 10.1 | 190.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 44.0 | 54.0 | -10.0 | High diversity antenna, Horizontal position | |
| 4808.005 | 33.0 | 10.1 | 224.0 | 1.1 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 43.1 | 54.0 | -10.9 | Low diversity antenna, Side position | |
| 4808.048 | 33.0 | 10.1 | 118.0 | 1.6 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 43.1 | 54.0 | -10.9 | Low diversity antenna, Vertical position | |
| 4808.050 | 31.9 | 10.1 | 146.0 | 1.7 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 42.0 | 54.0 | -12.0 | Low diversity antenna, Horizontal position | |
| 4808.020 | 31.8 | 10.1 | 193.0 | 1.1 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 41.9 | 54.0 | -12.1 | Low diversity antenna, Side position | |
| 4809.915 | 31.7 | 10.1 | 183.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 41.8 | 54.0 | -12.2 | High diversity antenna, Horizontal position | |
| 4808.000 | 31.2 | 10.1 | 149.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 41.3 | 54.0 | -12.7 | High diversity antenna, Side position | |
| 4810.000 | 31.2 | 10.1 | 108.0 | 1.3 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 41.3 | 54.0 | -12.7 | High diversity antenna, Side position | |
| 4810.065 | 31.1 | 10.1 | 108.0 | 1.6 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 41.2 | 54.0 | -12.8 | Low diversity antenna, Vertical position | |
| 4810.070 | 31.1 | 10.1 | 109.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 41.2 | 54.0 | -12.8 | High diversity antenna, Vertical position | |
| 4810.060 | 30.8 | 10.1 | 221.0 | 1.2 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 40.9 | 54.0 | -13.1 | Low diversity antenna, Side position | |
| 4808.050 | 30.6 | 10.1 | 146.0 | 1.7 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 40.7 | 54.0 | -13.3 | High diversity antenna, Horizontal position | |
| 4809.992 | 30.5 | 10.1 | 189.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 40.6 | 54.0 | -13.4 | High diversity antenna, Vertical position | |
| 4810.025 | 28.7 | 10.1 | 131.0 | 1.1 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 38.8 | 54.0 | -15.2 | Low diversity antenna, Horizontal position | |
| 4809.978 | 27.6 | 10.1 | 269.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 37.7 | 54.0 | -16.3 | Low diversity antenna, Side position | |
| 4810.048 | 26.8 | 10.1 | 130.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 36.9 | 54.0 | -17.1 | High diversity antenna, Horizontal position | |
| 4810.000 | 44.7 | 10.1 | 177.0 | 1.1 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 54.8 | 74.0 | -19.2 | High diversity antenna, Side position | |

| RADIATED SPURIOUS EMISSIONS | | | | | | | | | | | | PSA 2007.05.07 EMI 2006.11.29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|-------------|--|-------------------|-------------------|---------------------------|----------|----------|--------------------------|-----------------|--------------------|----------------------------------|---|------------|------------------|-------------|-------------------|-----------------|-------------------|---------------------------|----------|----------|--------------------------|-----------------|--------------------|------------------------|----------|----------|------|-----|-------|-----|-----|------|--------|----|-----|------|------|------|---|----------|------|-----|-------|-----|-----|------|--------|----|-----|------|------|------|---|----------|------|-----|-------|-----|-----|------|--------|----|-----|------|------|------|---|----------|------|-----|-------|-----|-----|------|--------|----|-----|------|------|------|--------------------------------------|----------|------|-----|-------|-----|-----|------|--------|----|-----|------|------|------|--|----------|------|-----|-------|-----|-----|------|--------|----|-----|------|------|-------|---|----------|------|-----|-------|-----|-----|------|--------|----|-----|------|------|-------|---|----------|------|-----|-------|-----|-----|------|--------|----|-----|------|------|-------|---|----------|------|-----|-------|-----|-----|------|--------|----|-----|------|------|-------|--------------------------------------|----------|------|-----|-------|-----|-----|------|--------|----|-----|------|------|-------|--|
| EUT: | ClearChat PC Wireless Headset, M/N: A-00006 | | | | | Work Order: | LABT0296 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serial Number: | 210-000226-008 | | | | | Date: | 03/05/08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Customer: | Logitech, Inc. | | | | | Temperature: | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Attendees: | None | | | | | Humidity: | 26% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project: | None | | | | | Barometric Pres.: | 1010.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tested by: | Rod Peloquin | | Power: 120VAC/60Hz | | | Job Site: | EV01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TEST SPECIFICATIONS | | | | | | | | | | | | Test Method | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FCC 15.247 (DTS):2007 | | | | | | | | | | | | ANSI C63.4:2003, KDB No. 558074 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TEST PARAMETERS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Antenna Height(s) (m) | | 1 - 4 | | Test Distance (m) | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COMMENTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C39 installed (9 pF cap, C36 pad 1 to C37 pad 1) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EUT OPERATING MODES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transmitting high channel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DEVIATIONS FROM TEST STANDARD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No deviations. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Run # | 18 | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Configuration # | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Results | Pass | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Freq (MHz)</th> <th>Amplitude (dBuV)</th> <th>Factor (dB)</th> <th>Azimuth (degrees)</th> <th>Height (meters)</th> <th>Distance (meters)</th> <th>External Attenuation (dB)</th> <th>Polarity</th> <th>Detector</th> <th>Distance Adjustment (dB)</th> <th>Adjusted dBuV/m</th> <th>Spec. Limit dBuV/m</th> <th>Compared to Spec. (dB)</th> <th>Comments</th> </tr> </thead> <tbody> <tr><td>2483.500</td><td>30.1</td><td>2.2</td><td>296.0</td><td>1.0</td><td>3.0</td><td>20.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>52.3</td><td>54.0</td><td>-1.7</td><td>High diversity antenna, Vertical position</td></tr> <tr><td>2483.500</td><td>30.0</td><td>2.2</td><td>211.0</td><td>1.0</td><td>3.0</td><td>20.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>52.2</td><td>54.0</td><td>-1.8</td><td>High diversity antenna, Horizontal position</td></tr> <tr><td>2483.500</td><td>29.3</td><td>2.2</td><td>186.0</td><td>1.0</td><td>3.0</td><td>20.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>51.5</td><td>54.0</td><td>-2.5</td><td>High diversity antenna, Horizontal position</td></tr> <tr><td>2483.342</td><td>27.8</td><td>2.2</td><td>251.0</td><td>1.2</td><td>3.0</td><td>20.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>50.0</td><td>54.0</td><td>-4.0</td><td>Low diversity antenna, Side position</td></tr> <tr><td>2483.500</td><td>25.5</td><td>2.2</td><td>229.0</td><td>1.1</td><td>3.0</td><td>20.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>47.7</td><td>54.0</td><td>-6.3</td><td>Low diversity antenna, Horizontal position</td></tr> <tr><td>2483.803</td><td>40.7</td><td>2.2</td><td>211.0</td><td>1.0</td><td>3.0</td><td>20.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>62.9</td><td>74.0</td><td>-11.1</td><td>High diversity antenna, Horizontal position</td></tr> <tr><td>2483.560</td><td>40.4</td><td>2.2</td><td>186.0</td><td>1.0</td><td>3.0</td><td>20.0</td><td>H-Horn</td><td>PK</td><td>0.0</td><td>62.6</td><td>74.0</td><td>-11.4</td><td>High diversity antenna, Horizontal position</td></tr> <tr><td>2483.542</td><td>40.2</td><td>2.2</td><td>296.0</td><td>1.0</td><td>3.0</td><td>20.0</td><td>H-Horn</td><td>PK</td><td>0.0</td><td>62.4</td><td>74.0</td><td>-11.6</td><td>High diversity antenna, Vertical position</td></tr> <tr><td>2483.550</td><td>39.1</td><td>2.2</td><td>251.0</td><td>1.2</td><td>3.0</td><td>20.0</td><td>H-Horn</td><td>PK</td><td>0.0</td><td>61.3</td><td>74.0</td><td>-12.7</td><td>Low diversity antenna, Side position</td></tr> <tr><td>2483.800</td><td>38.6</td><td>2.2</td><td>229.0</td><td>1.1</td><td>3.0</td><td>20.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>60.8</td><td>74.0</td><td>-13.2</td><td>Low diversity antenna, Horizontal position</td></tr> </tbody> </table> | | | | | | | | | | | | | | Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Azimuth (degrees) | Height (meters) | Distance (meters) | External Attenuation (dB) | Polarity | Detector | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) | Comments | 2483.500 | 30.1 | 2.2 | 296.0 | 1.0 | 3.0 | 20.0 | H-Horn | AV | 0.0 | 52.3 | 54.0 | -1.7 | High diversity antenna, Vertical position | 2483.500 | 30.0 | 2.2 | 211.0 | 1.0 | 3.0 | 20.0 | V-Horn | AV | 0.0 | 52.2 | 54.0 | -1.8 | High diversity antenna, Horizontal position | 2483.500 | 29.3 | 2.2 | 186.0 | 1.0 | 3.0 | 20.0 | H-Horn | AV | 0.0 | 51.5 | 54.0 | -2.5 | High diversity antenna, Horizontal position | 2483.342 | 27.8 | 2.2 | 251.0 | 1.2 | 3.0 | 20.0 | H-Horn | AV | 0.0 | 50.0 | 54.0 | -4.0 | Low diversity antenna, Side position | 2483.500 | 25.5 | 2.2 | 229.0 | 1.1 | 3.0 | 20.0 | V-Horn | AV | 0.0 | 47.7 | 54.0 | -6.3 | Low diversity antenna, Horizontal position | 2483.803 | 40.7 | 2.2 | 211.0 | 1.0 | 3.0 | 20.0 | V-Horn | PK | 0.0 | 62.9 | 74.0 | -11.1 | High diversity antenna, Horizontal position | 2483.560 | 40.4 | 2.2 | 186.0 | 1.0 | 3.0 | 20.0 | H-Horn | PK | 0.0 | 62.6 | 74.0 | -11.4 | High diversity antenna, Horizontal position | 2483.542 | 40.2 | 2.2 | 296.0 | 1.0 | 3.0 | 20.0 | H-Horn | PK | 0.0 | 62.4 | 74.0 | -11.6 | High diversity antenna, Vertical position | 2483.550 | 39.1 | 2.2 | 251.0 | 1.2 | 3.0 | 20.0 | H-Horn | PK | 0.0 | 61.3 | 74.0 | -12.7 | Low diversity antenna, Side position | 2483.800 | 38.6 | 2.2 | 229.0 | 1.1 | 3.0 | 20.0 | V-Horn | PK | 0.0 | 60.8 | 74.0 | -13.2 | Low diversity antenna, Horizontal position |
| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Azimuth (degrees) | Height (meters) | Distance (meters) | External Attenuation (dB) | Polarity | Detector | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) | Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2483.500 | 30.1 | 2.2 | 296.0 | 1.0 | 3.0 | 20.0 | H-Horn | AV | 0.0 | 52.3 | 54.0 | -1.7 | High diversity antenna, Vertical position | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2483.500 | 30.0 | 2.2 | 211.0 | 1.0 | 3.0 | 20.0 | V-Horn | AV | 0.0 | 52.2 | 54.0 | -1.8 | High diversity antenna, Horizontal position | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2483.500 | 29.3 | 2.2 | 186.0 | 1.0 | 3.0 | 20.0 | H-Horn | AV | 0.0 | 51.5 | 54.0 | -2.5 | High diversity antenna, Horizontal position | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2483.342 | 27.8 | 2.2 | 251.0 | 1.2 | 3.0 | 20.0 | H-Horn | AV | 0.0 | 50.0 | 54.0 | -4.0 | Low diversity antenna, Side position | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2483.500 | 25.5 | 2.2 | 229.0 | 1.1 | 3.0 | 20.0 | V-Horn | AV | 0.0 | 47.7 | 54.0 | -6.3 | Low diversity antenna, Horizontal position | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2483.803 | 40.7 | 2.2 | 211.0 | 1.0 | 3.0 | 20.0 | V-Horn | PK | 0.0 | 62.9 | 74.0 | -11.1 | High diversity antenna, Horizontal position | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2483.560 | 40.4 | 2.2 | 186.0 | 1.0 | 3.0 | 20.0 | H-Horn | PK | 0.0 | 62.6 | 74.0 | -11.4 | High diversity antenna, Horizontal position | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2483.542 | 40.2 | 2.2 | 296.0 | 1.0 | 3.0 | 20.0 | H-Horn | PK | 0.0 | 62.4 | 74.0 | -11.6 | High diversity antenna, Vertical position | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2483.550 | 39.1 | 2.2 | 251.0 | 1.2 | 3.0 | 20.0 | H-Horn | PK | 0.0 | 61.3 | 74.0 | -12.7 | Low diversity antenna, Side position | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2483.800 | 38.6 | 2.2 | 229.0 | 1.1 | 3.0 | 20.0 | V-Horn | PK | 0.0 | 60.8 | 74.0 | -13.2 | Low diversity antenna, Horizontal position | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| RADIATED SPURIOUS EMISSIONS | | | | | | | | | | | | PSA 2007.05.07 EMI 2006.11.29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------|-------------|--------------------|-----------------|-------------------|---------------------------|---------------------------------|----------|--------------------------|-----------------|--------------------|----------------------------------|-------------------------------------|------------|------------------|-------------|-------------------|-----------------|-------------------|---------------------------|----------|----------|--------------------------|-----------------|--------------------|------------------------|----------|-----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|------|-------------------------------------|-----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|------|-----------------------------------|-----------|------|------|------|-----|-----|-----|--------|----|-----|------|------|-------|------------------------------------|-----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|----------------------------------|-----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|----------------------------------|-----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|------------------------------------|----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|-------------------------------------|----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|-----------------------------------|----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|------------------------------------|----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|----------------------------------|-----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|-------------------------------------|-----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|-----------------------------------|-----------|------|------|------|-----|-----|-----|--------|----|-----|------|------|-------|------------------------------------|-----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|----------------------------------|-----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|----------------------------------|-----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|------------------------------------|----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|-------------------------------------|----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|-----------------------------------|----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|------------------------------------|----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|----------------------------------|
| EUT: ClearChat PC Wireless Headset, M/N: A-00006 | | | | | | | Work Order: LABT0296 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serial Number: 210-000226-008 | | | | | | | | | Date: 03/05/08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Customer: Logitech, Inc. | | | | | | | | | Temperature: 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Attendees: None | | | | | | | | | Humidity: 26% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project: None | | | | | | | | | Barometric Pres.: 1010.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tested by: David Divergigelis | | | Power: 120VAC/60Hz | | | | | | Job Site: EV01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TEST SPECIFICATIONS | | | | | | | | | | | | Test Method | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FCC 15.247 (DTS):2007 | | | | | | | ANSI C63.4:2003, KDB No. 558074 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TEST PARAMETERS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Antenna Height(s) (m) | | | 1 - 4 | | | Test Distance (m) | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COMMENTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C39 installed (9 pF cap, C36 pad 1 to C37 pad 1) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EUT OPERATING MODES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low diversity antenna, see comments below for channel tested. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DEVIATIONS FROM TEST STANDARD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No deviations. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Run # | 20 | | Signature | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Configuration # | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Results | Pass | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Freq (MHz)</th> <th>Amplitude (dBuV)</th> <th>Factor (dB)</th> <th>Azimuth (degrees)</th> <th>Height (meters)</th> <th>Distance (meters)</th> <th>External Attenuation (dB)</th> <th>Polarity</th> <th>Detector</th> <th>Distance Adjustment (dB)</th> <th>Adjusted dBuV/m</th> <th>Spec. Limit dBuV/m</th> <th>Compared to Spec. (dB)</th> <th>Comments</th> </tr> </thead> <tbody> <tr><td>12384.760</td><td>23.7</td><td>21.6</td><td>145.0</td><td>1.0</td><td>0.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>45.3</td><td>54.0</td><td>-8.7</td><td>TX high channel, headset horizontal</td></tr> <tr><td>12384.380</td><td>23.6</td><td>21.6</td><td>278.0</td><td>1.0</td><td>0.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>45.2</td><td>54.0</td><td>-8.8</td><td>TX high channel, headset vertical</td></tr> <tr><td>12204.880</td><td>23.3</td><td>20.7</td><td>90.0</td><td>1.0</td><td>0.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>44.0</td><td>54.0</td><td>-10.0</td><td>TX mid channel, headset horizontal</td></tr> <tr><td>12205.520</td><td>23.2</td><td>20.7</td><td>240.0</td><td>3.5</td><td>0.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>43.9</td><td>54.0</td><td>-10.1</td><td>TX mid channel, headset vertical</td></tr> <tr><td>12024.780</td><td>23.5</td><td>19.8</td><td>163.0</td><td>1.0</td><td>0.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>43.3</td><td>54.0</td><td>-10.7</td><td>TX low channel, headset vertical</td></tr> <tr><td>12025.580</td><td>23.5</td><td>19.8</td><td>229.0</td><td>1.0</td><td>0.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>43.3</td><td>54.0</td><td>-10.7</td><td>TX low channel, headset horizontal</td></tr> <tr><td>7430.958</td><td>23.4</td><td>17.6</td><td>153.0</td><td>1.0</td><td>0.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>41.0</td><td>54.0</td><td>-13.0</td><td>TX high channel, headset horizontal</td></tr> <tr><td>7430.718</td><td>23.3</td><td>17.6</td><td>242.0</td><td>2.6</td><td>0.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>40.9</td><td>54.0</td><td>-13.1</td><td>TX high channel, headset vertical</td></tr> <tr><td>7323.083</td><td>23.7</td><td>17.1</td><td>171.0</td><td>1.0</td><td>0.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>40.8</td><td>54.0</td><td>-13.2</td><td>TX mid channel, headset horizontal</td></tr> <tr><td>7322.878</td><td>23.5</td><td>17.1</td><td>236.0</td><td>1.0</td><td>0.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>40.6</td><td>54.0</td><td>-13.4</td><td>TX mid channel, headset vertical</td></tr> <tr><td>12384.840</td><td>36.5</td><td>21.6</td><td>145.0</td><td>1.0</td><td>0.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>58.1</td><td>74.0</td><td>-15.9</td><td>TX high channel, headset horizontal</td></tr> <tr><td>12385.050</td><td>36.5</td><td>21.6</td><td>278.0</td><td>1.0</td><td>0.0</td><td>0.0</td><td>H-Horn</td><td>PK</td><td>0.0</td><td>58.1</td><td>74.0</td><td>-15.9</td><td>TX high channel, headset vertical</td></tr> <tr><td>12205.490</td><td>36.8</td><td>20.7</td><td>90.0</td><td>1.0</td><td>0.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>57.5</td><td>74.0</td><td>-16.5</td><td>TX mid channel, headset horizontal</td></tr> <tr><td>12204.950</td><td>36.1</td><td>20.7</td><td>240.0</td><td>3.5</td><td>0.0</td><td>0.0</td><td>H-Horn</td><td>PK</td><td>0.0</td><td>56.8</td><td>74.0</td><td>-17.2</td><td>TX mid channel, headset vertical</td></tr> <tr><td>12024.620</td><td>36.5</td><td>19.8</td><td>163.0</td><td>1.0</td><td>0.0</td><td>0.0</td><td>H-Horn</td><td>PK</td><td>0.0</td><td>56.3</td><td>74.0</td><td>-17.7</td><td>TX low channel, headset vertical</td></tr> <tr><td>12025.410</td><td>36.3</td><td>19.8</td><td>229.0</td><td>1.0</td><td>0.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>56.1</td><td>74.0</td><td>-17.9</td><td>TX low channel, headset horizontal</td></tr> <tr><td>7431.403</td><td>36.8</td><td>17.6</td><td>153.0</td><td>1.0</td><td>0.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>54.4</td><td>74.0</td><td>-19.6</td><td>TX high channel, headset horizontal</td></tr> <tr><td>7430.907</td><td>36.6</td><td>17.6</td><td>242.0</td><td>2.6</td><td>0.0</td><td>0.0</td><td>H-Horn</td><td>PK</td><td>0.0</td><td>54.2</td><td>74.0</td><td>-19.8</td><td>TX high channel, headset vertical</td></tr> <tr><td>7323.407</td><td>36.7</td><td>17.1</td><td>171.0</td><td>1.0</td><td>0.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>53.8</td><td>74.0</td><td>-20.2</td><td>TX mid channel, headset horizontal</td></tr> <tr><td>7323.237</td><td>36.4</td><td>17.1</td><td>236.0</td><td>1.0</td><td>0.0</td><td>0.0</td><td>H-Horn</td><td>PK</td><td>0.0</td><td>53.5</td><td>74.0</td><td>-20.5</td><td>TX mid channel, headset vertical</td></tr> </tbody> </table> | | | | | | | | | | | | | | Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Azimuth (degrees) | Height (meters) | Distance (meters) | External Attenuation (dB) | Polarity | Detector | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) | Comments | 12384.760 | 23.7 | 21.6 | 145.0 | 1.0 | 0.0 | 0.0 | V-Horn | AV | 0.0 | 45.3 | 54.0 | -8.7 | TX high channel, headset horizontal | 12384.380 | 23.6 | 21.6 | 278.0 | 1.0 | 0.0 | 0.0 | H-Horn | AV | 0.0 | 45.2 | 54.0 | -8.8 | TX high channel, headset vertical | 12204.880 | 23.3 | 20.7 | 90.0 | 1.0 | 0.0 | 0.0 | V-Horn | AV | 0.0 | 44.0 | 54.0 | -10.0 | TX mid channel, headset horizontal | 12205.520 | 23.2 | 20.7 | 240.0 | 3.5 | 0.0 | 0.0 | H-Horn | AV | 0.0 | 43.9 | 54.0 | -10.1 | TX mid channel, headset vertical | 12024.780 | 23.5 | 19.8 | 163.0 | 1.0 | 0.0 | 0.0 | H-Horn | AV | 0.0 | 43.3 | 54.0 | -10.7 | TX low channel, headset vertical | 12025.580 | 23.5 | 19.8 | 229.0 | 1.0 | 0.0 | 0.0 | V-Horn | AV | 0.0 | 43.3 | 54.0 | -10.7 | TX low channel, headset horizontal | 7430.958 | 23.4 | 17.6 | 153.0 | 1.0 | 0.0 | 0.0 | V-Horn | AV | 0.0 | 41.0 | 54.0 | -13.0 | TX high channel, headset horizontal | 7430.718 | 23.3 | 17.6 | 242.0 | 2.6 | 0.0 | 0.0 | H-Horn | AV | 0.0 | 40.9 | 54.0 | -13.1 | TX high channel, headset vertical | 7323.083 | 23.7 | 17.1 | 171.0 | 1.0 | 0.0 | 0.0 | V-Horn | AV | 0.0 | 40.8 | 54.0 | -13.2 | TX mid channel, headset horizontal | 7322.878 | 23.5 | 17.1 | 236.0 | 1.0 | 0.0 | 0.0 | H-Horn | AV | 0.0 | 40.6 | 54.0 | -13.4 | TX mid channel, headset vertical | 12384.840 | 36.5 | 21.6 | 145.0 | 1.0 | 0.0 | 0.0 | V-Horn | PK | 0.0 | 58.1 | 74.0 | -15.9 | TX high channel, headset horizontal | 12385.050 | 36.5 | 21.6 | 278.0 | 1.0 | 0.0 | 0.0 | H-Horn | PK | 0.0 | 58.1 | 74.0 | -15.9 | TX high channel, headset vertical | 12205.490 | 36.8 | 20.7 | 90.0 | 1.0 | 0.0 | 0.0 | V-Horn | PK | 0.0 | 57.5 | 74.0 | -16.5 | TX mid channel, headset horizontal | 12204.950 | 36.1 | 20.7 | 240.0 | 3.5 | 0.0 | 0.0 | H-Horn | PK | 0.0 | 56.8 | 74.0 | -17.2 | TX mid channel, headset vertical | 12024.620 | 36.5 | 19.8 | 163.0 | 1.0 | 0.0 | 0.0 | H-Horn | PK | 0.0 | 56.3 | 74.0 | -17.7 | TX low channel, headset vertical | 12025.410 | 36.3 | 19.8 | 229.0 | 1.0 | 0.0 | 0.0 | V-Horn | PK | 0.0 | 56.1 | 74.0 | -17.9 | TX low channel, headset horizontal | 7431.403 | 36.8 | 17.6 | 153.0 | 1.0 | 0.0 | 0.0 | V-Horn | PK | 0.0 | 54.4 | 74.0 | -19.6 | TX high channel, headset horizontal | 7430.907 | 36.6 | 17.6 | 242.0 | 2.6 | 0.0 | 0.0 | H-Horn | PK | 0.0 | 54.2 | 74.0 | -19.8 | TX high channel, headset vertical | 7323.407 | 36.7 | 17.1 | 171.0 | 1.0 | 0.0 | 0.0 | V-Horn | PK | 0.0 | 53.8 | 74.0 | -20.2 | TX mid channel, headset horizontal | 7323.237 | 36.4 | 17.1 | 236.0 | 1.0 | 0.0 | 0.0 | H-Horn | PK | 0.0 | 53.5 | 74.0 | -20.5 | TX mid channel, headset vertical |
| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Azimuth (degrees) | Height (meters) | Distance (meters) | External Attenuation (dB) | Polarity | Detector | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) | Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12384.760 | 23.7 | 21.6 | 145.0 | 1.0 | 0.0 | 0.0 | V-Horn | AV | 0.0 | 45.3 | 54.0 | -8.7 | TX high channel, headset horizontal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12384.380 | 23.6 | 21.6 | 278.0 | 1.0 | 0.0 | 0.0 | H-Horn | AV | 0.0 | 45.2 | 54.0 | -8.8 | TX high channel, headset vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12204.880 | 23.3 | 20.7 | 90.0 | 1.0 | 0.0 | 0.0 | V-Horn | AV | 0.0 | 44.0 | 54.0 | -10.0 | TX mid channel, headset horizontal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12205.520 | 23.2 | 20.7 | 240.0 | 3.5 | 0.0 | 0.0 | H-Horn | AV | 0.0 | 43.9 | 54.0 | -10.1 | TX mid channel, headset vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12024.780 | 23.5 | 19.8 | 163.0 | 1.0 | 0.0 | 0.0 | H-Horn | AV | 0.0 | 43.3 | 54.0 | -10.7 | TX low channel, headset vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12025.580 | 23.5 | 19.8 | 229.0 | 1.0 | 0.0 | 0.0 | V-Horn | AV | 0.0 | 43.3 | 54.0 | -10.7 | TX low channel, headset horizontal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7430.958 | 23.4 | 17.6 | 153.0 | 1.0 | 0.0 | 0.0 | V-Horn | AV | 0.0 | 41.0 | 54.0 | -13.0 | TX high channel, headset horizontal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7430.718 | 23.3 | 17.6 | 242.0 | 2.6 | 0.0 | 0.0 | H-Horn | AV | 0.0 | 40.9 | 54.0 | -13.1 | TX high channel, headset vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7323.083 | 23.7 | 17.1 | 171.0 | 1.0 | 0.0 | 0.0 | V-Horn | AV | 0.0 | 40.8 | 54.0 | -13.2 | TX mid channel, headset horizontal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7322.878 | 23.5 | 17.1 | 236.0 | 1.0 | 0.0 | 0.0 | H-Horn | AV | 0.0 | 40.6 | 54.0 | -13.4 | TX mid channel, headset vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12384.840 | 36.5 | 21.6 | 145.0 | 1.0 | 0.0 | 0.0 | V-Horn | PK | 0.0 | 58.1 | 74.0 | -15.9 | TX high channel, headset horizontal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12385.050 | 36.5 | 21.6 | 278.0 | 1.0 | 0.0 | 0.0 | H-Horn | PK | 0.0 | 58.1 | 74.0 | -15.9 | TX high channel, headset vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12205.490 | 36.8 | 20.7 | 90.0 | 1.0 | 0.0 | 0.0 | V-Horn | PK | 0.0 | 57.5 | 74.0 | -16.5 | TX mid channel, headset horizontal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12204.950 | 36.1 | 20.7 | 240.0 | 3.5 | 0.0 | 0.0 | H-Horn | PK | 0.0 | 56.8 | 74.0 | -17.2 | TX mid channel, headset vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12024.620 | 36.5 | 19.8 | 163.0 | 1.0 | 0.0 | 0.0 | H-Horn | PK | 0.0 | 56.3 | 74.0 | -17.7 | TX low channel, headset vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12025.410 | 36.3 | 19.8 | 229.0 | 1.0 | 0.0 | 0.0 | V-Horn | PK | 0.0 | 56.1 | 74.0 | -17.9 | TX low channel, headset horizontal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7431.403 | 36.8 | 17.6 | 153.0 | 1.0 | 0.0 | 0.0 | V-Horn | PK | 0.0 | 54.4 | 74.0 | -19.6 | TX high channel, headset horizontal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7430.907 | 36.6 | 17.6 | 242.0 | 2.6 | 0.0 | 0.0 | H-Horn | PK | 0.0 | 54.2 | 74.0 | -19.8 | TX high channel, headset vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7323.407 | 36.7 | 17.1 | 171.0 | 1.0 | 0.0 | 0.0 | V-Horn | PK | 0.0 | 53.8 | 74.0 | -20.2 | TX mid channel, headset horizontal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7323.237 | 36.4 | 17.1 | 236.0 | 1.0 | 0.0 | 0.0 | H-Horn | PK | 0.0 | 53.5 | 74.0 | -20.5 | TX mid channel, headset vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| RADIATED SPURIOUS EMISSIONS | | | | | | | | | | | | PSA 2007.05.07 EMI 2006.11.29 | |
|--|------------------|-------------|--------------------|-----------------|-------------------|---------------------------|---------------------------------|----------|--------------------------|-----------------|--------------------|----------------------------------|-------------------------------------|
| EUT: ClearChat PC Wireless Headset, M/N: A-00006 | | | | | | | Work Order: LABT0296 | | | | | | |
| Serial Number: 210-000226-008 | | | | | | | | | Date: 03/05/08 | | | | |
| Customer: Logitech, Inc. | | | | | | | | | Temperature: 22 | | | | |
| Attendees: None | | | | | | | | | Humidity: 26% | | | | |
| Project: None | | | | | | | | | Barometric Pres.: 1010.8 | | | | |
| Tested by: David Divergigelis | | | Power: 120VAC/60Hz | | | | | | Job Site: EV01 | | | | |
| TEST SPECIFICATIONS | | | | | | | | | | | | Test Method | |
| FCC 15.247 (DTS):2007 | | | | | | | ANSI C63.4:2003, KDB No. 558074 | | | | | | |
| TEST PARAMETERS | | | | | | | | | | | | | |
| Antenna Height(s) (m) | | | 1 - 4 | | | Test Distance (m) | | | 3 | | | | |
| COMMENTS | | | | | | | | | | | | | |
| C39 installed (9 pF cap, C36 pad 1 to C37 pad 1) | | | | | | | | | | | | | |
| EUT OPERATING MODES | | | | | | | | | | | | | |
| High diversity antenna, see comments below for channel tested. | | | | | | | | | | | | | |
| DEVIATIONS FROM TEST STANDARD | | | | | | | | | | | | | |
| No deviations. | | | | | | | | | | | | | |
| Run # | 21 | | | | | Signature | | | <i>DAW/jeL</i> | | | | |
| Configuration # | 1 | | | | | | | | | | | | |
| Results | Pass | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Azimuth (degrees) | Height (meters) | Distance (meters) | External Attenuation (dB) | Polarity | Detector | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) | Comments |
| 12384.990 | 23.6 | 21.6 | 166.0 | 2.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 45.2 | 54.0 | -8.8 | TX high channel, headset on side |
| 12385.130 | 23.6 | 21.6 | 218.0 | 2.7 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 45.2 | 54.0 | -8.8 | TX high channel, headset horizontal |
| 12204.270 | 23.3 | 20.7 | 312.0 | 2.5 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 44.0 | 54.0 | -10.0 | TX mid channel, headset on side |
| 12204.570 | 23.2 | 20.7 | 333.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 43.9 | 54.0 | -10.1 | TX mid channel, headset horizontal |
| 12025.180 | 23.5 | 19.8 | 242.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 43.3 | 54.0 | -10.7 | TX low channel, headset horizontal |
| 12025.540 | 23.5 | 19.8 | 303.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 43.3 | 54.0 | -10.7 | TX low channel, headset on side |
| 7430.980 | 23.4 | 17.6 | 319.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 41.0 | 54.0 | -13.0 | TX high channel, headset horizontal |
| 7430.980 | 23.2 | 17.6 | 317.0 | 3.2 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 40.8 | 54.0 | -13.2 | TX high channel, headset on side |
| 7322.728 | 23.5 | 17.1 | 136.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 40.6 | 54.0 | -13.4 | TX mid channel, headset horizontal |
| 7323.048 | 23.5 | 17.1 | -1.0 | 3.6 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 40.6 | 54.0 | -13.4 | TX mid channel, headset on side |
| 12384.680 | 37.0 | 21.6 | 218.0 | 2.7 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 58.6 | 74.0 | -15.4 | TX high channel, headset horizontal |
| 12385.480 | 36.7 | 21.6 | 166.0 | 2.0 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 58.3 | 74.0 | -15.7 | TX high channel, headset on side |
| 12205.030 | 36.8 | 20.7 | 333.0 | 1.0 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 57.5 | 74.0 | -16.5 | TX mid channel, headset horizontal |
| 12204.500 | 36.4 | 20.7 | 312.0 | 2.5 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 57.1 | 74.0 | -16.9 | TX mid channel, headset on side |
| 12025.280 | 37.2 | 19.8 | 303.0 | 1.0 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 57.0 | 74.0 | -17.0 | TX low channel, headset horizontal |
| 12024.960 | 36.6 | 19.8 | 242.0 | 1.0 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 56.4 | 74.0 | -17.6 | TX low channel, headset horizontal |
| 7430.983 | 37.2 | 17.6 | 319.0 | 1.0 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 54.8 | 74.0 | -19.2 | TX high channel, headset on side |
| 7430.887 | 36.4 | 17.6 | 317.0 | 3.2 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 54.0 | 74.0 | -20.0 | TX high channel, headset on side |
| 7322.815 | 36.5 | 17.1 | 136.0 | 1.0 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 53.6 | 74.0 | -20.4 | TX mid channel, headset horizontal |
| 7322.925 | 36.2 | 17.1 | -1.0 | 3.6 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 53.3 | 74.0 | -20.7 | TX mid channel, headset on side |

Occupied Bandwidth

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

| Description | Manufacturer | Model | ID | Last Cal. | Interval |
|---------------------------------|------------------|----------|-----|------------|----------|
| Attenuator 20 dB, SMA M/F 26GHz | S.M. Electronics | SA26B-20 | AUY | 6/8/2007 | 13 |
| Spectrum Analyzer | Agilent | E4446A | AAY | 12/18/2007 | 12 |

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The occupied bandwidth was measured with the EUT set to low, medium, and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at its maximum data rate in a no hop mode.

EMC

Occupied Bandwidth

EUT: ClearChat PC Wireless Headset, M/N: A-00006

Work Order: LABT0296

Serial Number: 210-000226-008

Date: 03/08/08

Customer: Logitech, Inc.

Temperature: 23°C

Attendees: None

Humidity: 25%

Project: None

Barometric Pres.: 1010.8mb

Tested by: Holly Ashkannejhad

Power: 3.7VDC

Job Site: EV06

TEST SPECIFICATIONS

Test Method

FCC 15.247 (DTS):2007

ANSI C63.4:2003 KDB No. 558074

COMMENTS

37 channels, 2MHz channel separation. C39 installed (9pF cap, C36 pin1 to C37 pin1).

DEVIATIONS FROM TEST STANDARD

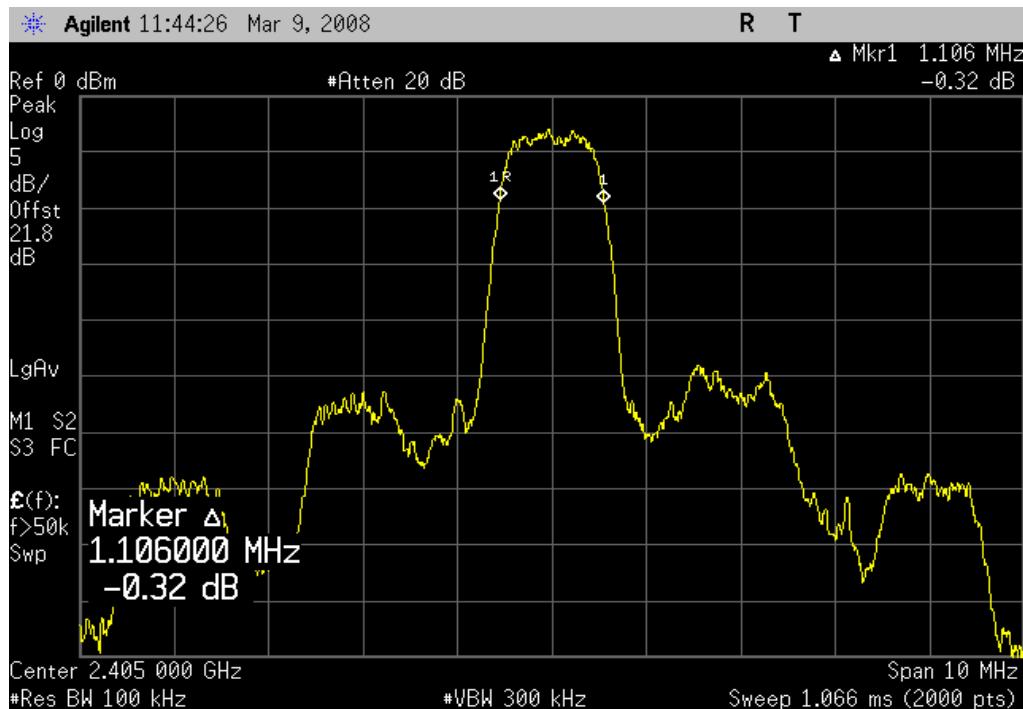
No Deviations

| Configuration # | 5 | Signature | Value | Limit | Results |
|--------------------------------------|---|-----------|-----------|-----------|---------|
| Transmit mode, Headset, M/N: A-00006 | | | | | |
| pi/4-DQPSK | | | | | |
| Low channel, Ch. 2, 2405MHz | | | 1.106 MHz | ≥ 500 kHz | Pass |
| Mid channel, Ch. 20, 2441MHz | | | 1.131 MHz | ≥ 500 kHz | Pass |
| High channel, Ch. 38, 2477MHz | | | 1.121 MHz | ≥ 500 kHz | Pass |

Transmit mode, Headset, M/N: A-00006, pi/4-DQPSK, Low channel, Ch. 2, 2405MHz

Result: Pass

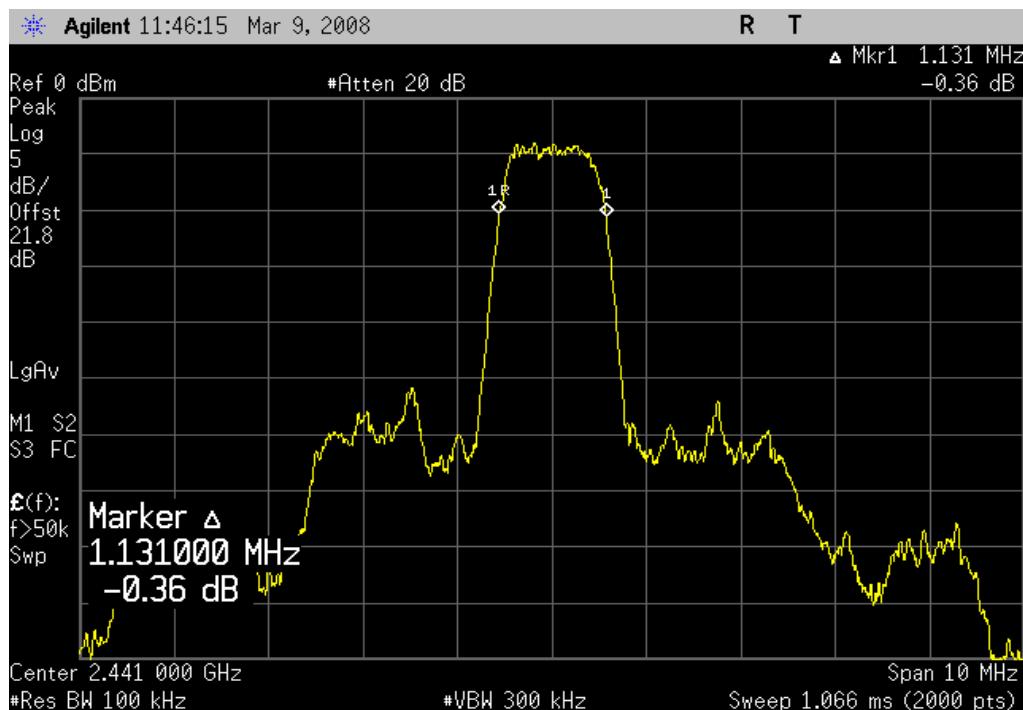
Value: 1.106 MHz

Limit: ≥ 500 kHz

Transmit mode, headset, M/N: A-00006, pi/4-DQPSK, Mid channel, Ch. 20, 2441MHz

Result: Pass

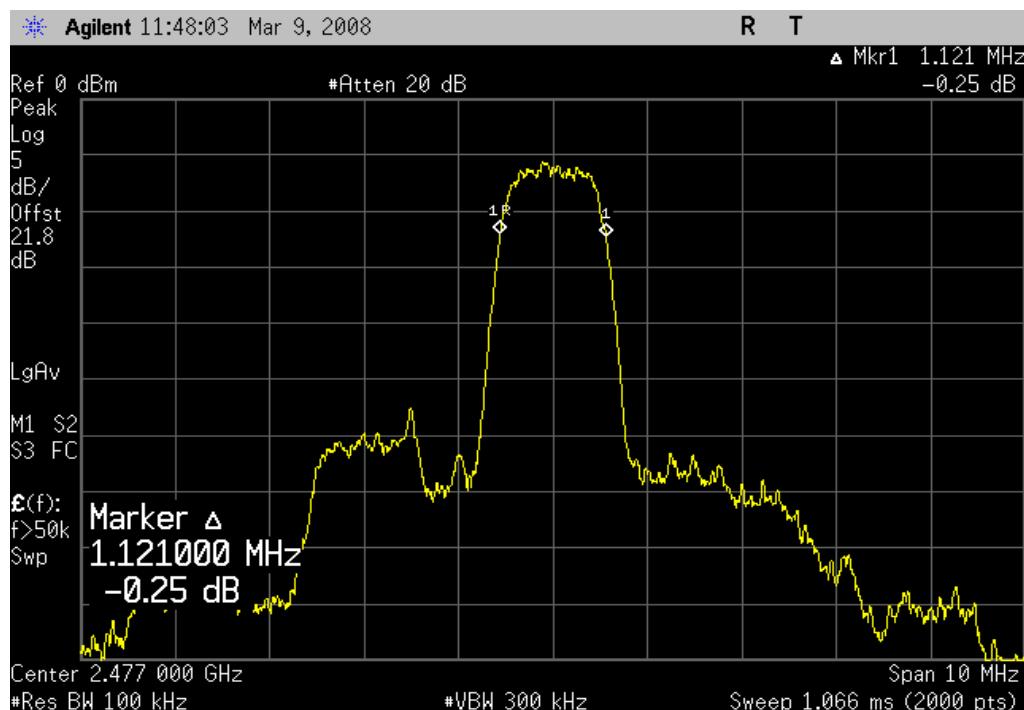
Value: 1.131 MHz

Limit: ≥ 500 kHz

Transmit mode, Headset, M/N: A-00006, pi/4-DQPSK, High channel, Ch. 38, 2477MHz

Result: Pass

Value: 1.121 MHz

Limit: ≥ 500 kHz

Peak Output Power

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

| Description | Manufacturer | Model | ID | Last Cal. | Interval |
|---------------------------------|------------------|----------|-----|------------|----------|
| Attenuator 20 dB, SMA M/F 26GHz | S.M. Electronics | SA26B-20 | AUY | 6/8/2007 | 13 |
| Spectrum Analyzer | Agilent | E4446A | AAY | 12/18/2007 | 12 |

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The peak output power was measured with the EUT set to low, medium, and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The EUT was transmitting at its maximum data rate in a no hop mode.

De Facto EIRP Limit: Per 47 CFR 15.247 (b)(1-3), the EUT meets the de facto EIRP limit of +36dBm.

EMC

Peak Output Power

EUT: ClearChat PC Wireless Headset, M/N: A-00006

Work Order: LABT0296

Serial Number: 210-000226-008

Date: 03/04/08

Customer: Logitech, Inc.

Temperature: 23°C

Attendees: None

Humidity: 25%

Project: None

Barometric Pres.: 1010.8mb

Tested by: Holly Ashkannejhad

Power: 3.7VDC

Job Site: EV06

TEST SPECIFICATIONS

Test Method

FCC 15.247 (DTS):2007

ANSI C63.4:2003 KDB No. 558074

COMMENTS

C39 installed (9 pF cap, C36 pin1 to C37 pin 1)

DEVIATIONS FROM TEST STANDARD

Configuration #

5

Signature

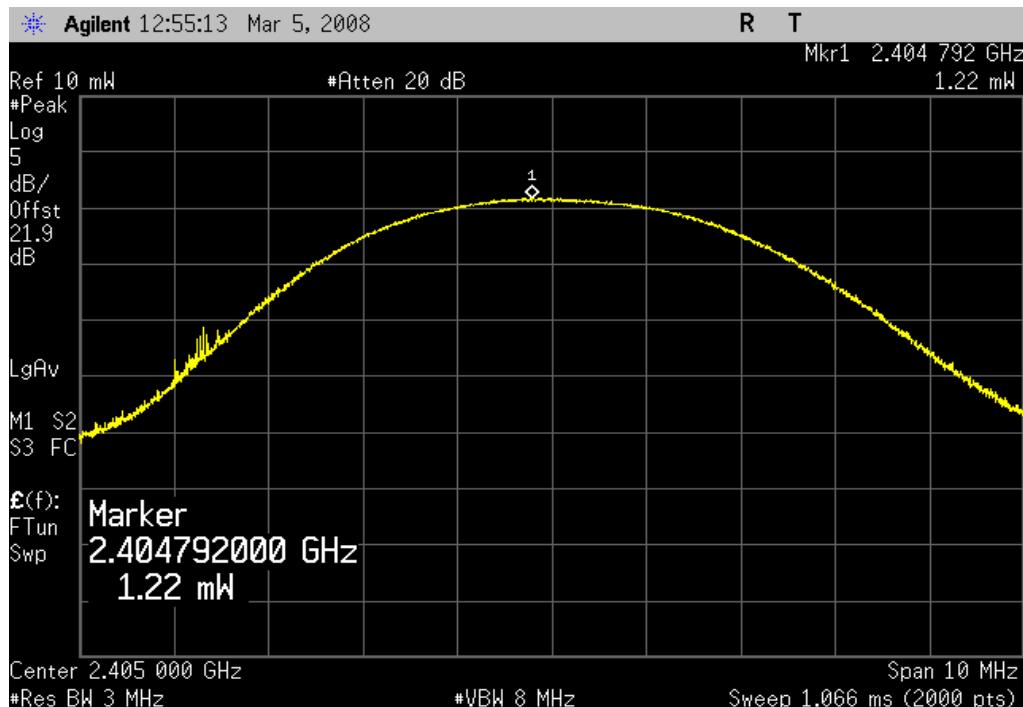
Holly Ashkannejhad

Headset, M/N: A-00006, Low diversity antenna

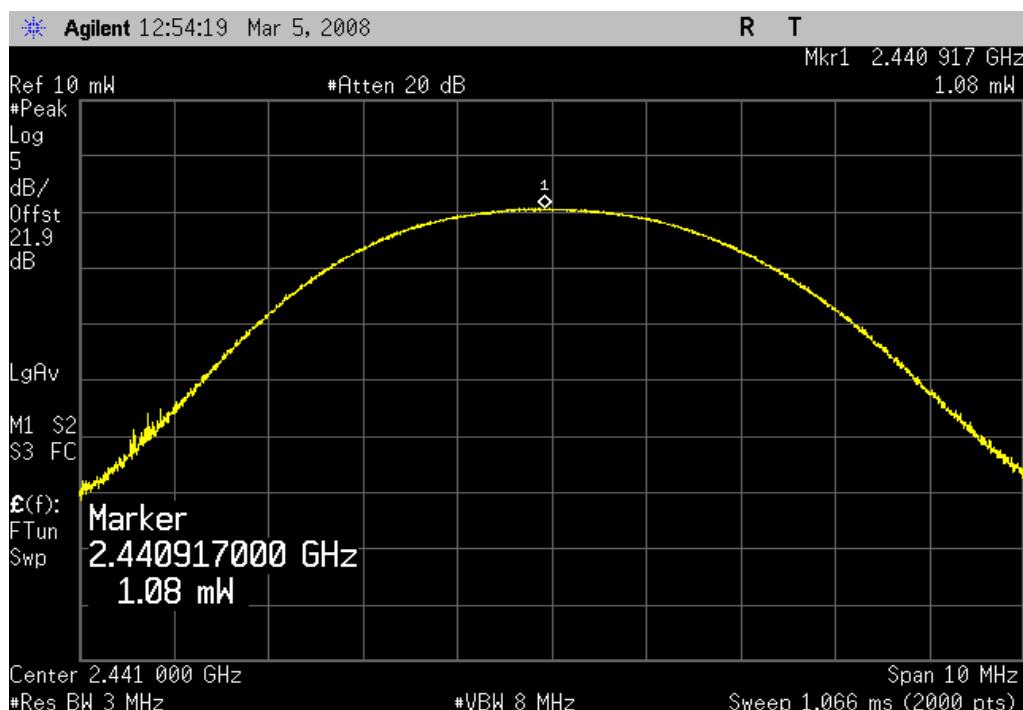
pi/4-DQPSK

| | | Value | Limit | Results |
|-------------------------------|--|----------|-------------|---------|
| Low channel, Ch. 2, 2405MHz | | 1.220 mW | 0.125 Watts | Pass |
| Mid channel, Ch. 20, 2441MHz | | 1.080 mW | 0.125 Watts | Pass |
| High channel, Ch. 38, 2477MHz | | 0.839 mW | 0.125 Watts | Pass |

| | | |
|---|------------------------|---------------------------|
| Headset, M/N: A-00006, Low diversity antenna, pi/4-DQPSK, Low channel, Ch. 2, 2405MHz | | |
| Result: Pass | Value: 1.220 mW | Limit: 0.125 Watts |



| | | |
|--|------------------------|---------------------------|
| Headset, M/N: A-00006, Low diversity antenna, pi/4-DQPSK, Mid channel, Ch. 20, 2441MHz | | |
| Result: Pass | Value: 1.080 mW | Limit: 0.125 Watts |



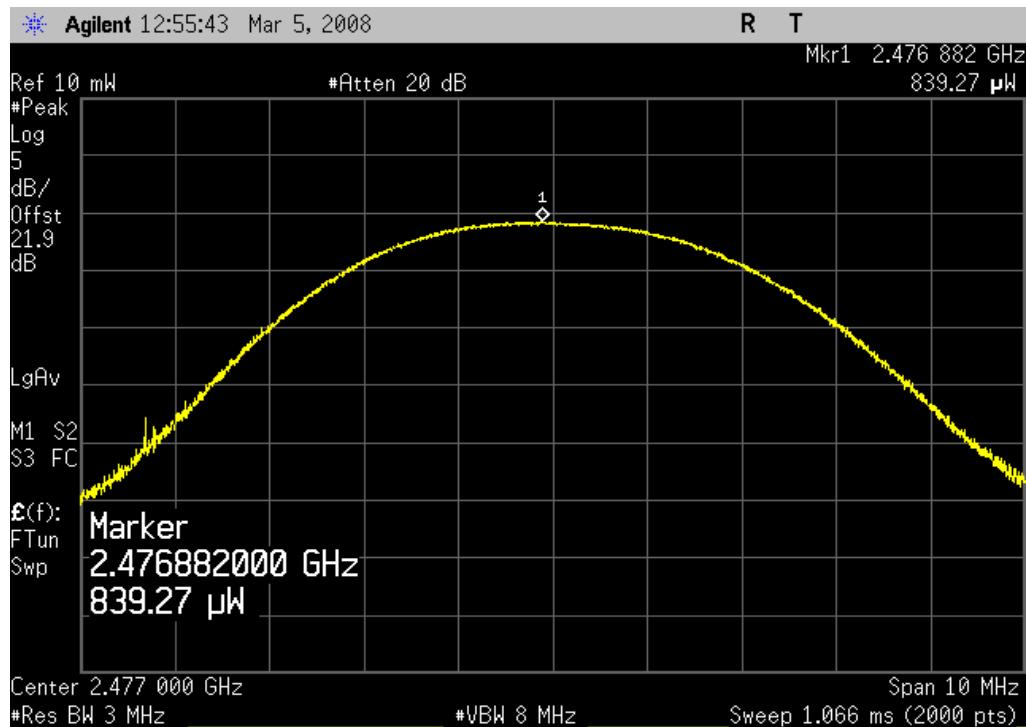
Peak Output Power

Headset, M/N: A-00006, Low diversity antenna, pi/4-DQPSK, High channel, Ch. 38, 2477MHz

Result: Pass

Value: 0.839 mW

Limit: 0.125 Watts



Band Edge Compliance

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

| Description | Manufacturer | Model | ID | Last Cal. | Interval |
|---------------------------------|------------------|----------|-----|------------|----------|
| Attenuator 20 dB, SMA M/F 26GHz | S.M. Electronics | SA26B-20 | AUY | 6/8/2007 | 13 |
| Spectrum Analyzer | Agilent | E4446A | AAY | 12/18/2007 | 12 |

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The spurious RF conducted emissions at the edges of the authorized band were measured with the EUT set to low and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at its maximum data rate in a no hop mode. The channels closest to the band edges were selected. The spectrum was scanned across each band edge from 5 MHz below the band edge to 5 MHz above the band edge.

Band Edge Compliance

EUT: ClearChat PC Wireless Headset, M/N: A-00006

Work Order: LABT0296

Serial Number: 210-000226-008

Date: 03/04/08

Customer: Logitech, Inc.

Temperature: 23°C

Attendees: None

Humidity: 25%

Project: None

Barometric Pres.: 1010.8mb

Tested by: Holly Ashkannejhad

Power: 3.7VDC

Job Site: EV06

TEST SPECIFICATIONS

Test Method

FCC 15.247 (DTS):2007

ANSI C63.4:2003 KDB No. 558074

COMMENTS

Modified board: C39 installed (9pF, C35 pin1 to C37 pin 1)

DEVIATIONS FROM TEST STANDARD

No Deviations

| Configuration # | 5 | Signature | Value | Limit | Results |
|--|---|--------------------|--------------------------|--------------------------|--------------|
| Transmit mode, Headset, M/N: A-00006 pi/4-DQPSK | | Holly Ashkannejhad | ≤ - 30 dBc ≤ - 40 dBc | ≤ - 20 dBc ≤ - 20 dBc | Pass Pass |

Transmit mode, Headset, M/N: A-00006, pi/4-DQPSK, Low channel, Ch. 2, 2405 MHz

Result: Pass

Value: ≤ -30 dBcLimit: ≤ -20 dBc

Transmit mode, Headset, M/N: A-00006, pi/4-DQPSK, High channel, Ch. 38, 2477MHz

Result: Pass

Value: ≤ -40 dBcLimit: ≤ -20 dBc

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

| Description | Manufacturer | Model | ID | Last Cal. | Interval |
|---------------------------------|------------------|----------|-----|------------|----------|
| Attenuator 20 dB, SMA M/F 26GHz | S.M. Electronics | SA26B-20 | AUY | 6/8/2007 | 13 |
| Spectrum Analyzer | Agilent | E4446A | AAV | 12/18/2007 | 12 |

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The spurious RF conducted emissions were measured with the EUT set to low, medium, and high transmit frequencies. The measurements were made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at its maximum data rate in a no hop mode. For each transmit frequency, the spectrum was scanned throughout the specified frequency.

Spurious Conducted Emissions

| | |
|--|----------------------------|
| EUT: ClearChat PC Wireless Headset, M/N: A-00006 | Work Order: LABT0296 |
| Serial Number: 210-000226-0808 | Date: 03/04/08 |
| Customer: Logitech, Inc. | Temperature: 23°C |
| Attendees: None | Humidity: 25% |
| Project: None | Barometric Pres.: 1010.8mb |
| Tested by: Holly Ashkannejhad | Job Site: EV06 |

TEST SPECIFICATIONS

| | |
|-----------------------|---|
| FCC 15.247 (DTS):2007 | Test Method: ANSI C63.4:2003 KDB No. 558074 |
|-----------------------|---|

COMMENTS

C39 installed: 9pF cap. C36 pin1 to C37 pin1.

DEVIATIONS FROM TEST STANDARD

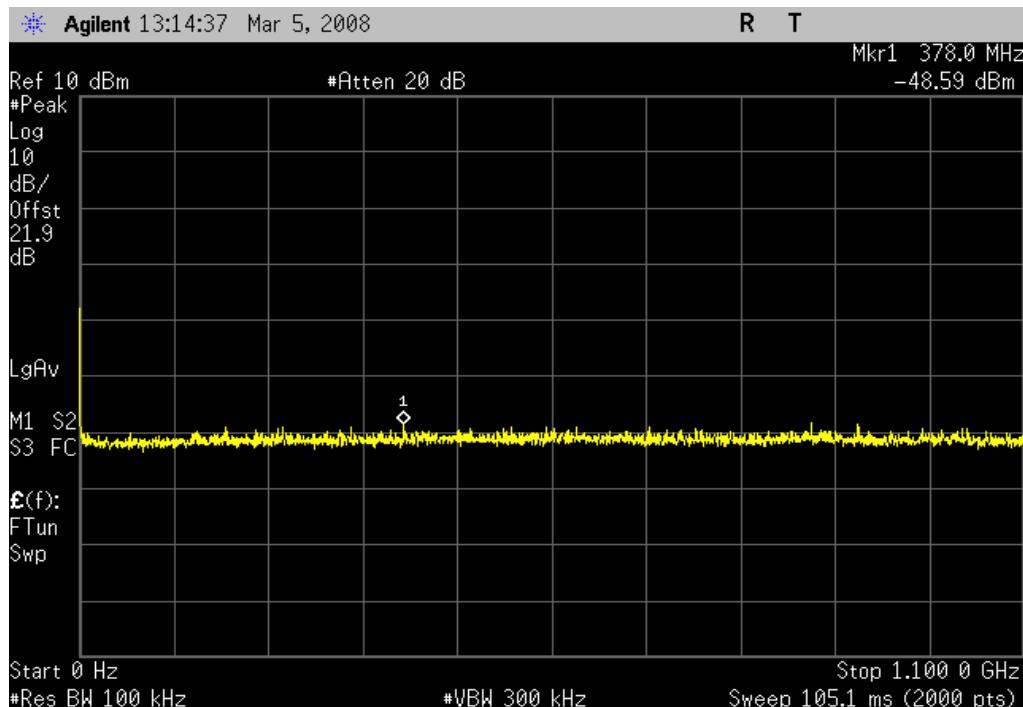
No Deviations

| | | |
|-----------------|---|-------------------------------------|
| Configuration # | 5 | Signature <i>Holly Ashkannejhad</i> |
|-----------------|---|-------------------------------------|

| | | Value | Limit | Results |
|--|------------|------------|-------|---------|
| Transmit mode, no hop, pi/4-DQPSK modulation | | | | |
| Low channel, 2405MHz | | | | |
| 0 Hz - 1.1 GHz | ≤ - 40 dBc | ≤ - 20 dBc | Pass | |
| 1 GHz - 6.6 GHz | ≤ - 40 dBc | ≤ - 20 dBc | Pass | |
| 6.5 GHz - 16.1 GHz | ≤ - 30 dBc | ≤ - 20 dBc | Pass | |
| 16 GHz - 26 GHz | ≤ - 30 dBc | ≤ - 20 dBc | Pass | |
| Mid channel, 2441MHz | | | | |
| 0 Hz - 1.1 GHz | ≤ - 40 dBc | ≤ - 20 dBc | Pass | |
| 1 GHz - 6.6 GHz | ≤ - 30 dBc | ≤ - 20 dBc | Pass | |
| 6.5 GHz - 16.1 GHz | ≤ - 30 dBc | ≤ - 20 dBc | Pass | |
| 16 GHz - 26 GHz | ≤ - 30 dBc | ≤ - 20 dBc | Pass | |
| High channel, 2477MHz | | | | |
| 0 Hz - 1.1 GHz | ≤ - 40 dBc | ≤ - 20 dBc | Pass | |
| 1 GHz - 6.6 GHz | ≤ - 30 dBc | ≤ - 20 dBc | Pass | |
| 6.5 GHz - 16.1 GHz | ≤ - 30 dBc | ≤ - 20 dBc | Pass | |
| 16 GHz - 26 GHz | ≤ - 30 dBc | ≤ - 20 dBc | Pass | |

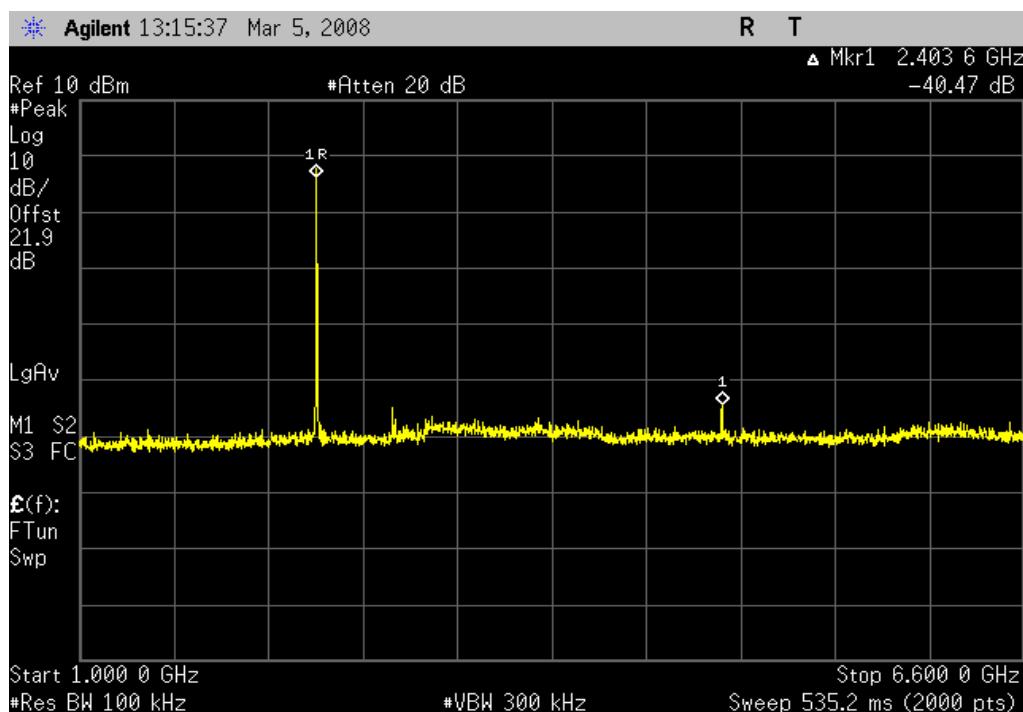
Transmit mode, pi/4-DQPSK modulation, Low channel, 2405MHz, 0 Hz - 1.1 GHz

Result: Pass

Value: ≤ -40 dBcLimit: ≤ -20 dBc

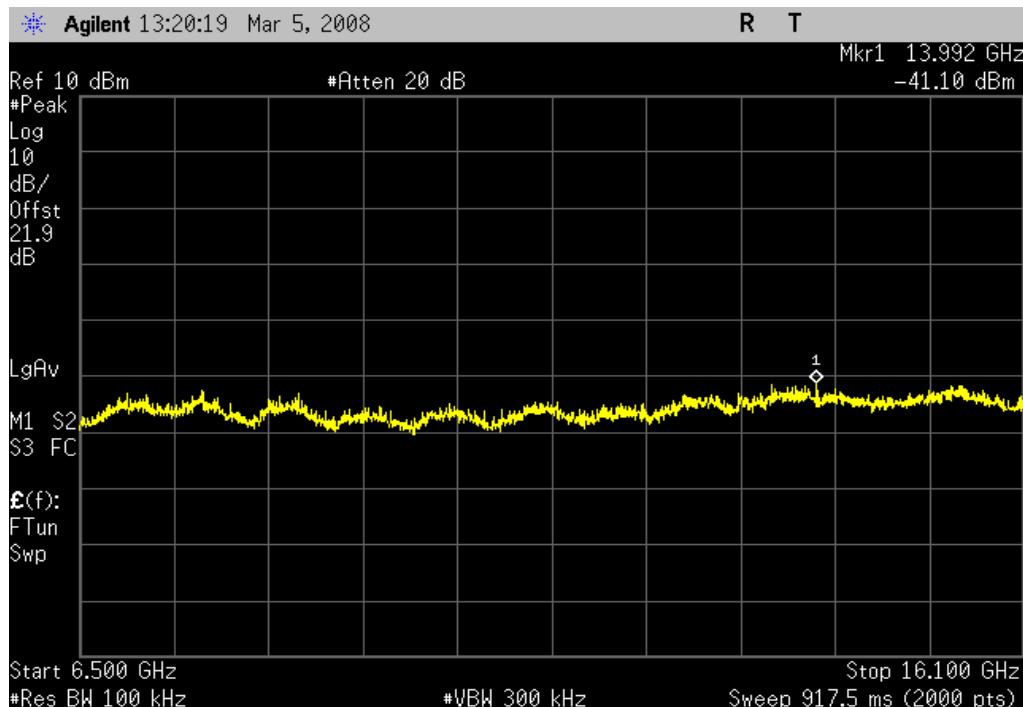
Transmit mode, pi/4-DQPSK modulation, Low channel, 2405MHz, 1 GHz - 6.6 GHz

Result: Pass

Value: ≤ -40 dBcLimit: ≤ -20 dBc

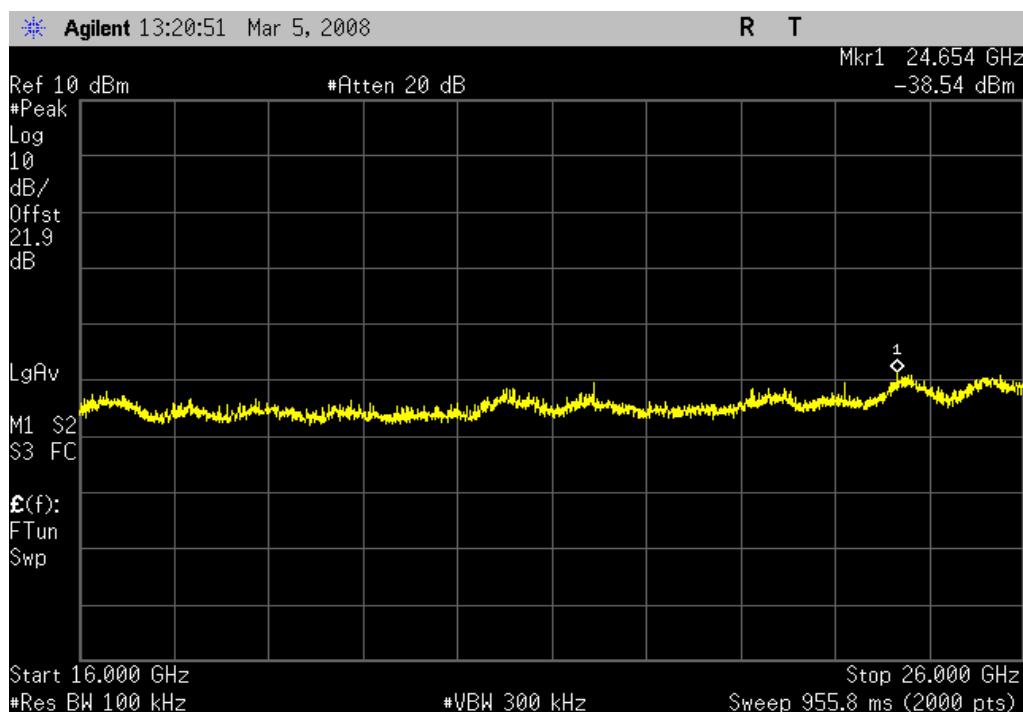
Transmit mode, pi/4-DQPSK modulation, Low channel, 2405MHz, 6.5 GHz - 16.1 GHz

Result: Pass

Value: ≤ -30 dBcLimit: ≤ -20 dBc

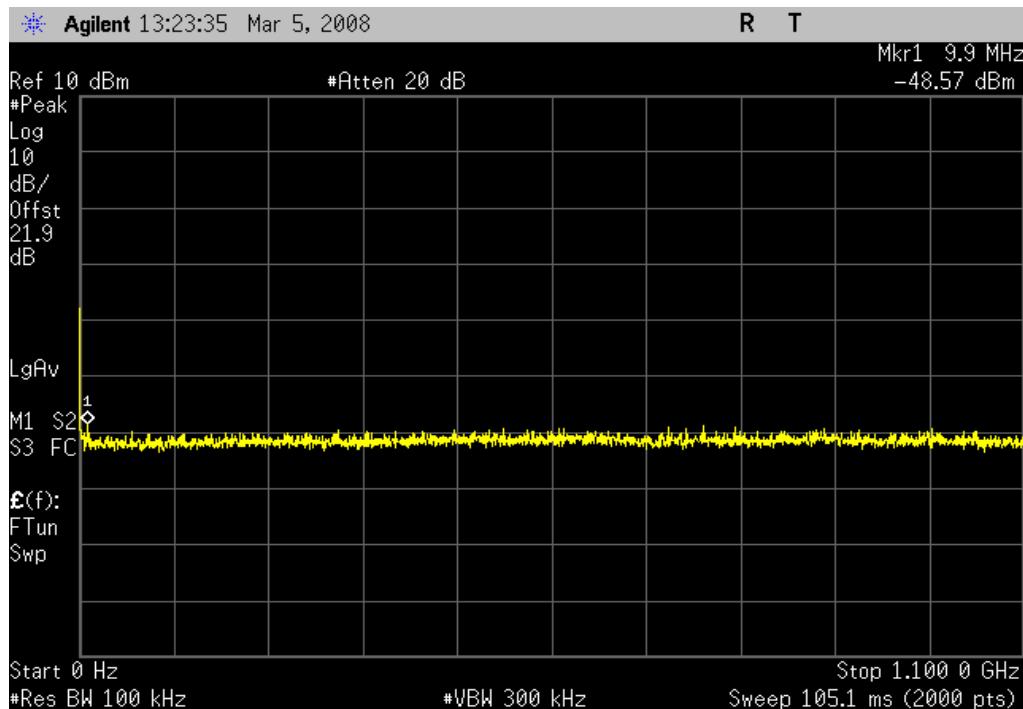
Transmit mode, pi/4-DQPSK modulation, Low channel, 2405MHz, 16 GHz - 26 GHz

Result: Pass

Value: ≤ -30 dBcLimit: ≤ -20 dBc

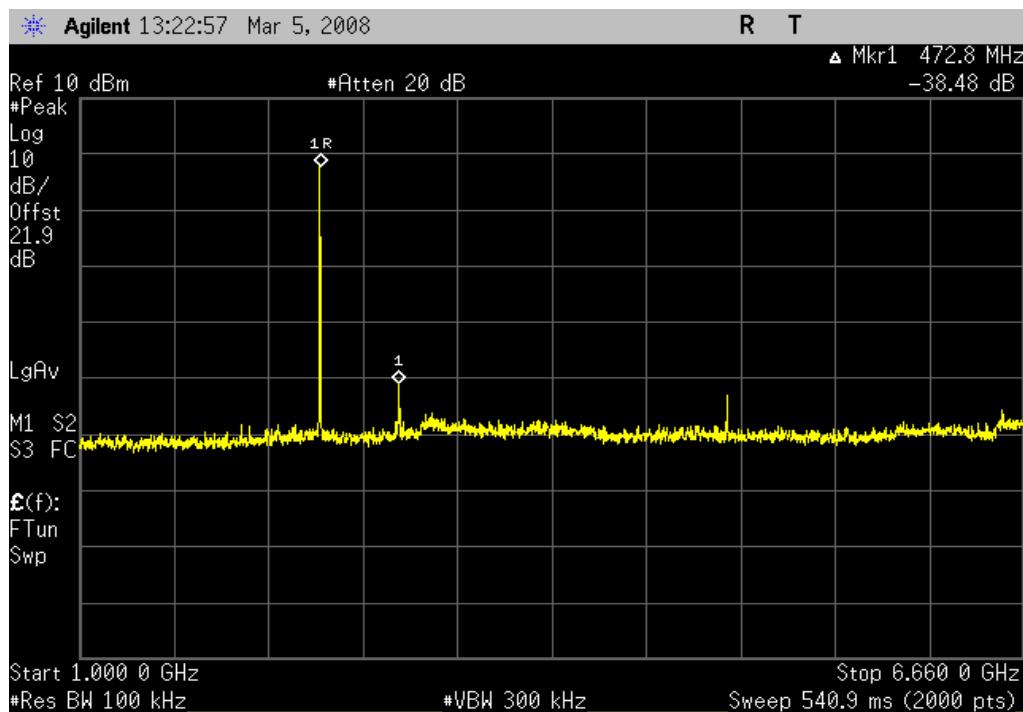
Transmit mode, pi/4-DQPSK modulation, Mid channel, 2441MHz, 0 Hz - 1.1 GHz

Result: Pass

Value: ≤ -40 dBcLimit: ≤ -20 dBc

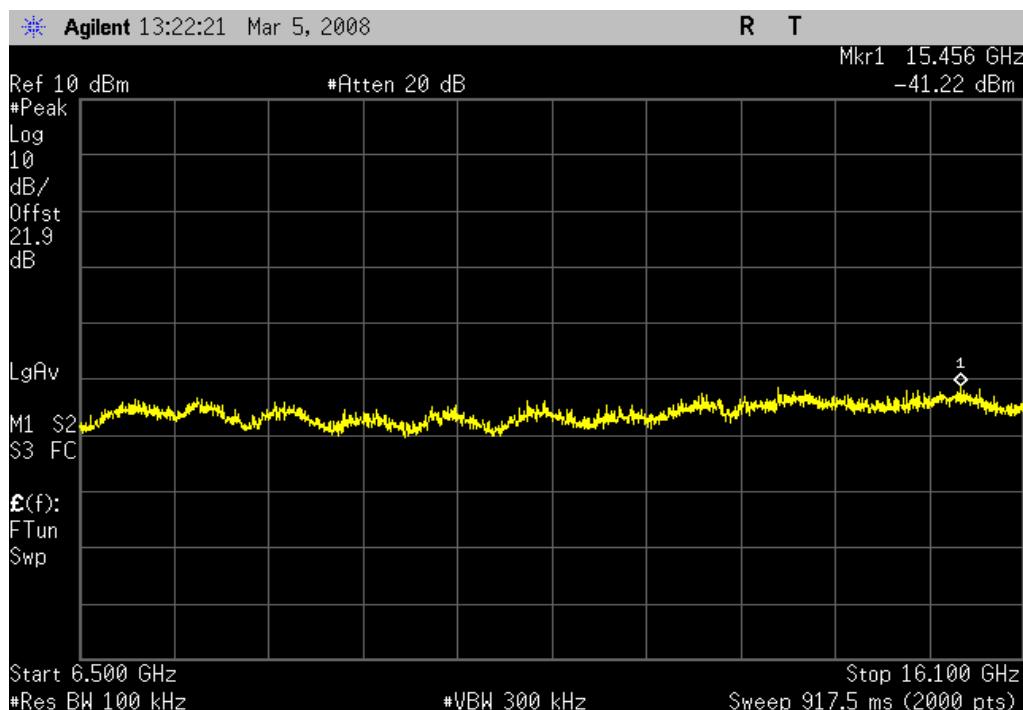
Transmit mode, pi/4-DQPSK modulation, Mid channel, 2441MHz, 1 GHz - 6.6 GHz

Result: Pass

Value: ≤ -30 dBcLimit: ≤ -20 dBc

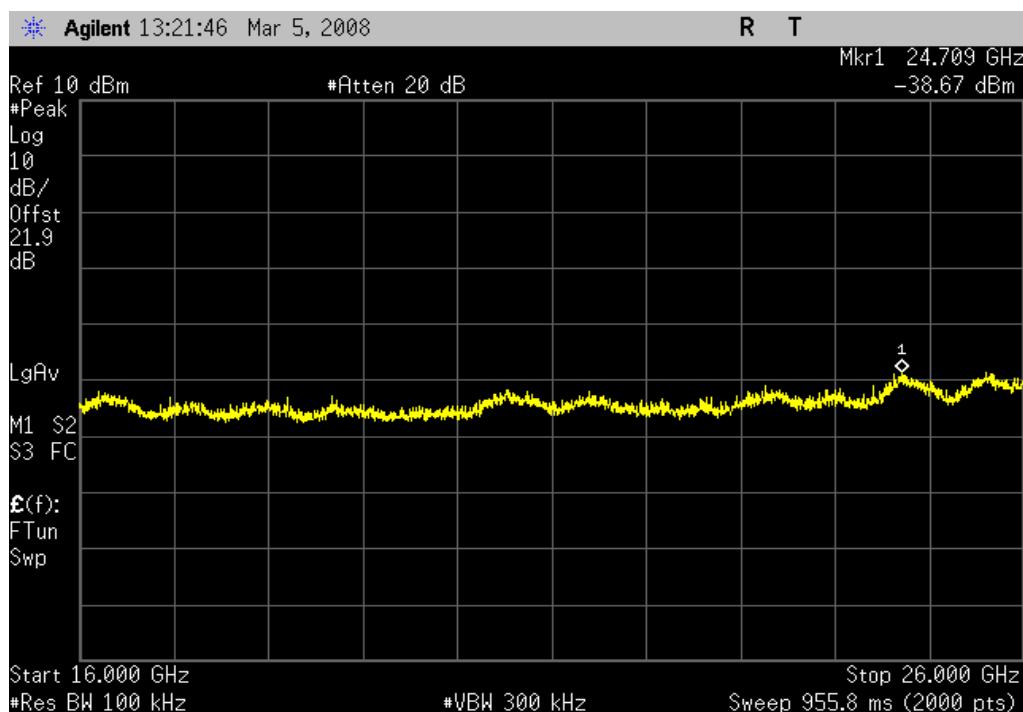
Transmit mode, pi/4-DQPSK modulation, Mid channel, 2441MHz, 6.5 GHz - 16.1 GHz

Result: Pass

Value: ≤ -30 dBcLimit: ≤ -20 dBc

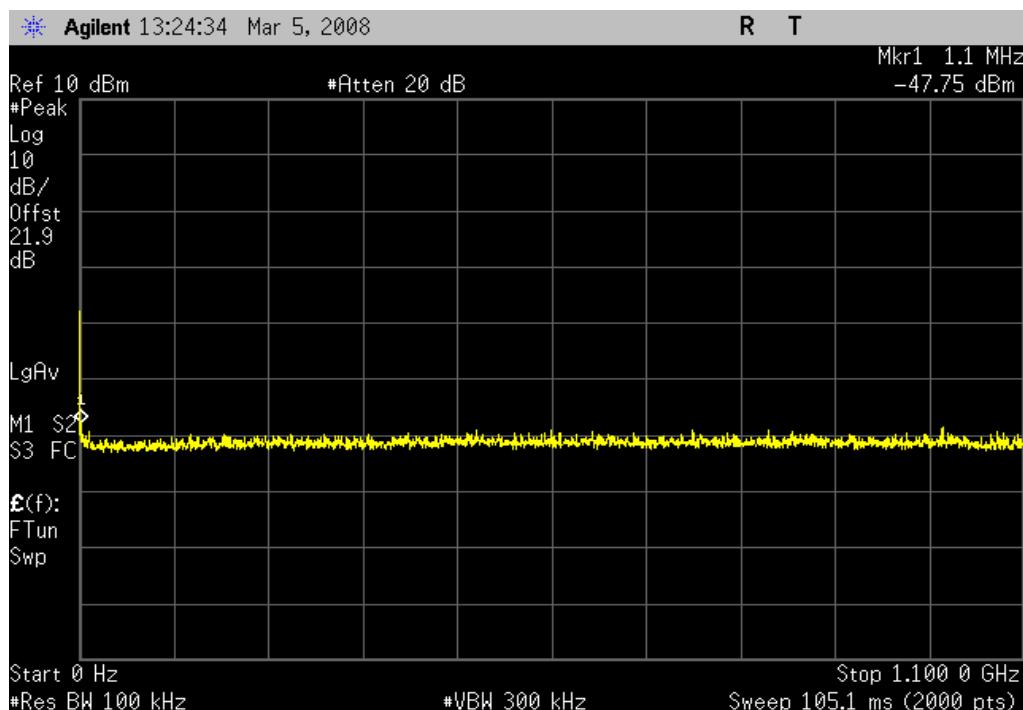
Transmit mode, pi/4-DQPSK modulation, Mid channel, 2441MHz, 16 GHz - 26 GHz

Result: Pass

Value: ≤ -30 dBcLimit: ≤ -20 dBc

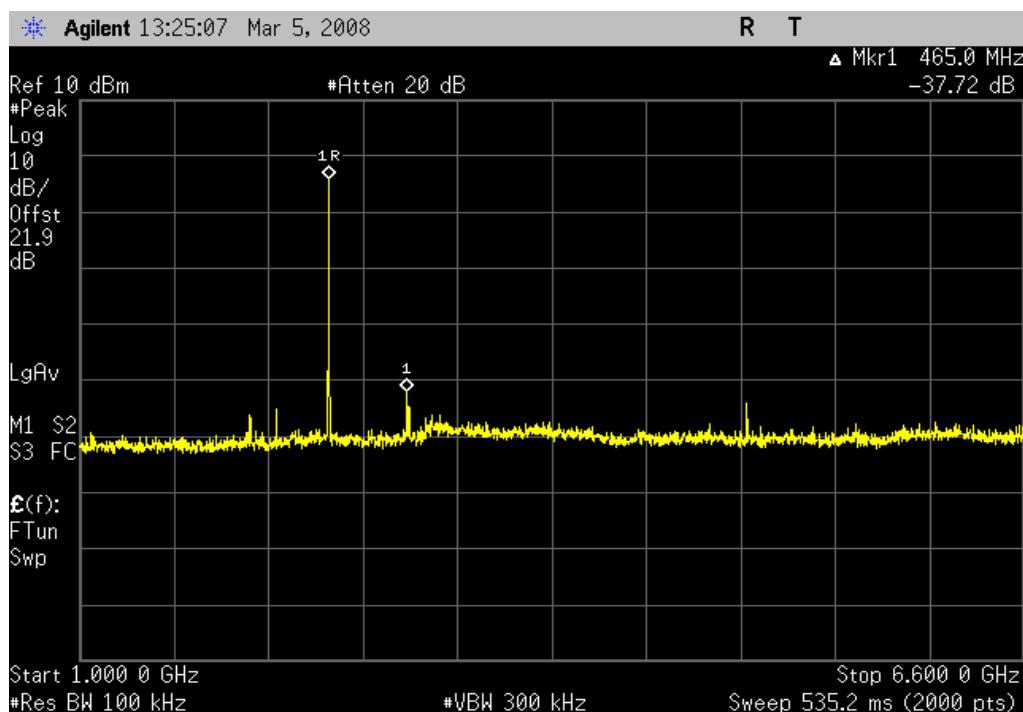
Transmit mode, pi/4-DQPSK modulation, High channel, 2477MHz, 0 Hz - 1.1 GHz

Result: Pass

Value: ≤ -40 dBcLimit: ≤ -20 dBc

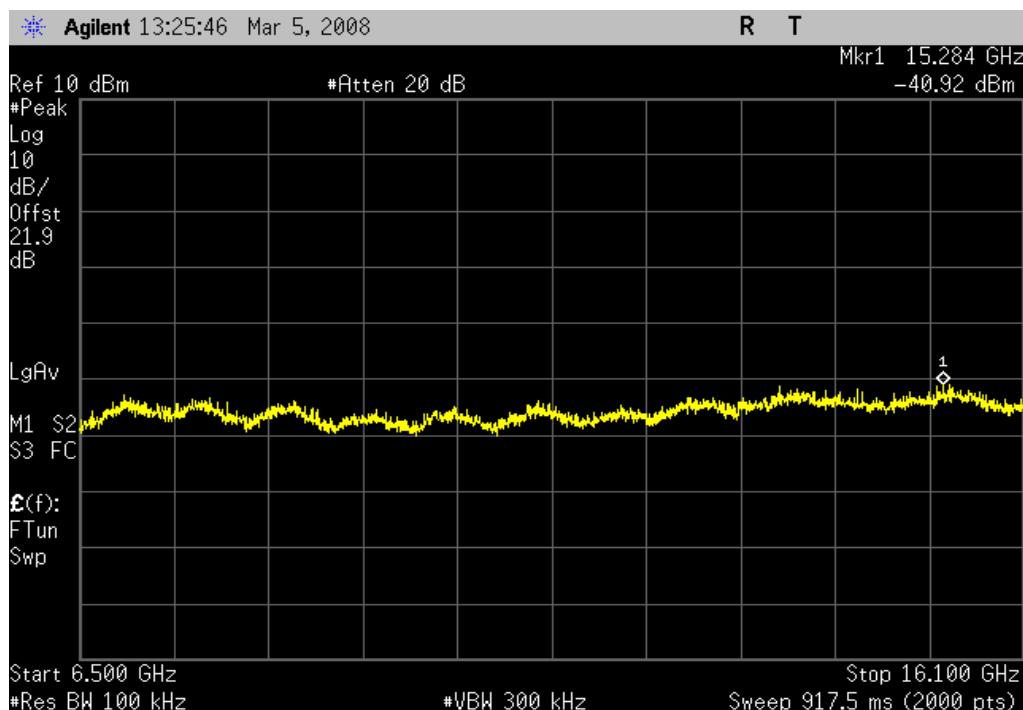
Transmit mode, pi/4-DQPSK modulation, High channel, 2477MHz, 1 GHz - 6.6 GHz

Result: Pass

Value: ≤ -30 dBcLimit: ≤ -20 dBc

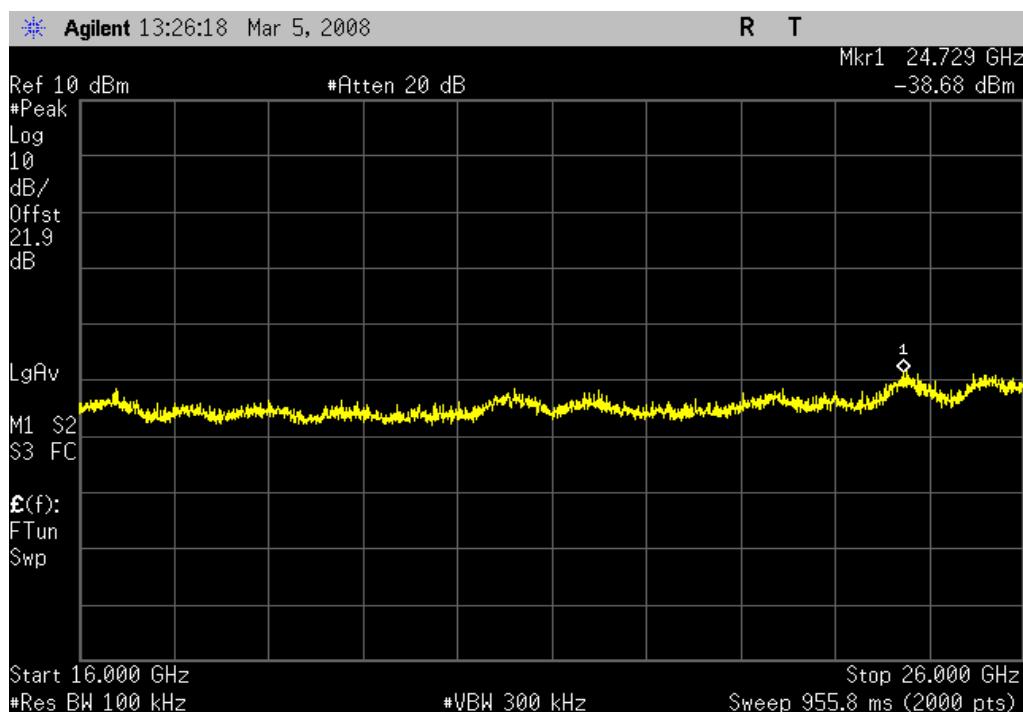
Transmit mode, pi/4-DQPSK modulation, High channel, 2477MHz, 6.5 GHz - 16.1 GHz

Result: Pass

Value: ≤ -30 dBcLimit: ≤ -20 dBc

Transmit mode, pi/4-DQPSK modulation, High channel, 2477MHz, 16 GHz - 26 GHz

Result: Pass

Value: ≤ -30 dBcLimit: ≤ -20 dBc

Power Spectral Density

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

| Description | Manufacturer | Model | ID | Last Cal. | Interval |
|---------------------------------|------------------|----------|-----|------------|----------|
| Attenuator 20 dB, SMA M/F 26GHz | S.M. Electronics | SA26B-20 | AUY | 6/8/2007 | 13 |
| Spectrum Analyzer | Agilent | E4446A | AAY | 12/18/2007 | 12 |

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The peak power spectral density measurements were measured with the EUT set to low, mid, and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at its maximum data rate. Per the procedure outlined in FCC 97-114, the spectrum analyzer was used as follows:

The emission peak(s) were located and zoom in on within the passband. The resolution bandwidth was set to 3 kHz, the video bandwidth was set to greater than or equal to the resolution bandwidth. The sweep speed was set equal to the span divided by 3 kHz (sweep = (SPAN/3 kHz)). For example, given a span of 1.5 MHz, the sweep should be $1.5 \times 10^6 \div 3 \times 10^3 = 500$ seconds. External attenuation was used and added to the reading. The following FCC procedure was used for modifying the power spectral density measurements:

"If the spectrum line spacing cannot be resolved on the available spectrum analyzer, the noise density function on most modern conventional spectrum analyzers will directly measure the noise power density normalized to a 1 Hz noise power bandwidth. Add 35 dB for correction to 3 kHz."

Power Spectral Density

EUT: ClearChat PC Wireless Headset, M/N: A-00006

Work Order: LABT0296

Serial Number: 210-000226-008

Date: 03/04/08

Customer: Logitech, Inc.

Temperature: 23°C

Attendees: None

Humidity: 25%

Project: None

Barometric Pres.: 1010.8mb

Tested by: Holly Ashkannejhad

Power: 3.7VDC

Job Site: EV06

TEST SPECIFICATIONS

Test Method

FCC 15.247 (DTS):2007

ANSI C63.4:2003 KDB No. 558074

COMMENTS

C39 installed (9 pF cap. C36 pin1 to C37 pin1).

DEVIATIONS FROM TEST STANDARD

No Deviations

| Configuration # | 5 | Signature | Holly Ashkannejhad | Value | Limit | Results |
|-----------------|---|-----------|--------------------|-------|-------|---------|
|-----------------|---|-----------|--------------------|-------|-------|---------|

Transmitting with pi/4-DQPSK modulatio

Low channel, 2405MHz

-26.04 dBm / 3 kHz 8 dBm / 3 kHz Pass

Mid channel, 2441MHz

-26.94 dBm / 3 kHz 8 dBm / 3 kHz Pass

High channel, 2477MHz

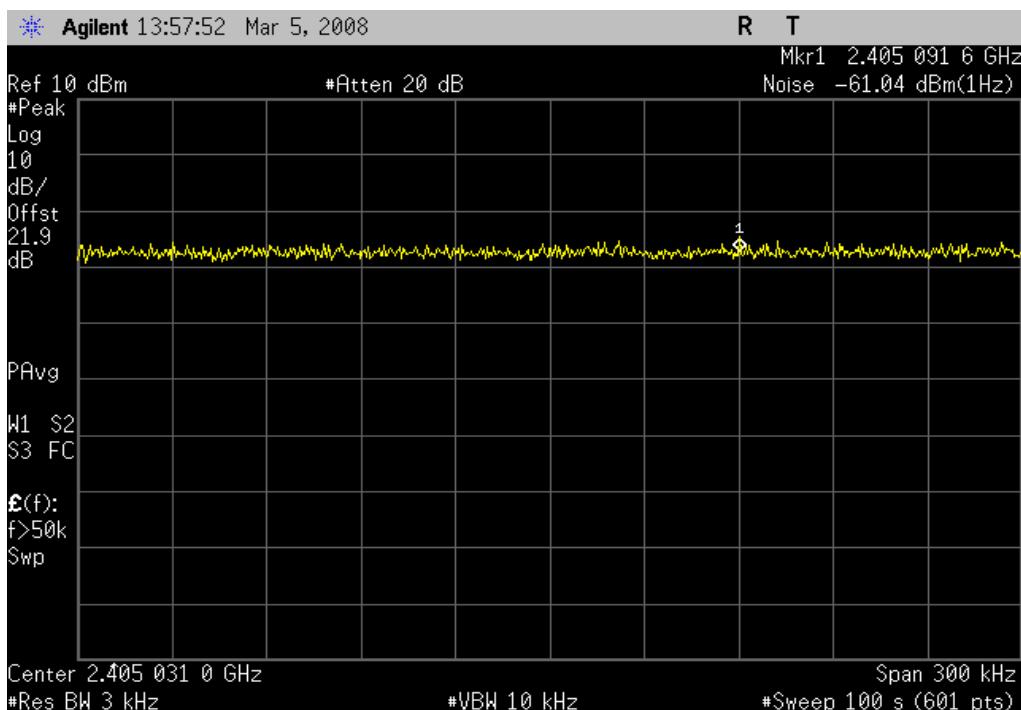
-27.29 dBm / 3 kHz 8 dBm / 3 kHz Pass

Transmitting with pi/4-DQPSK modulatio, Low channel, 2405MHz

Result: Pass

Value: -26.04 dBm / 3 kHz

Limit: 8 dBm / 3 kHz

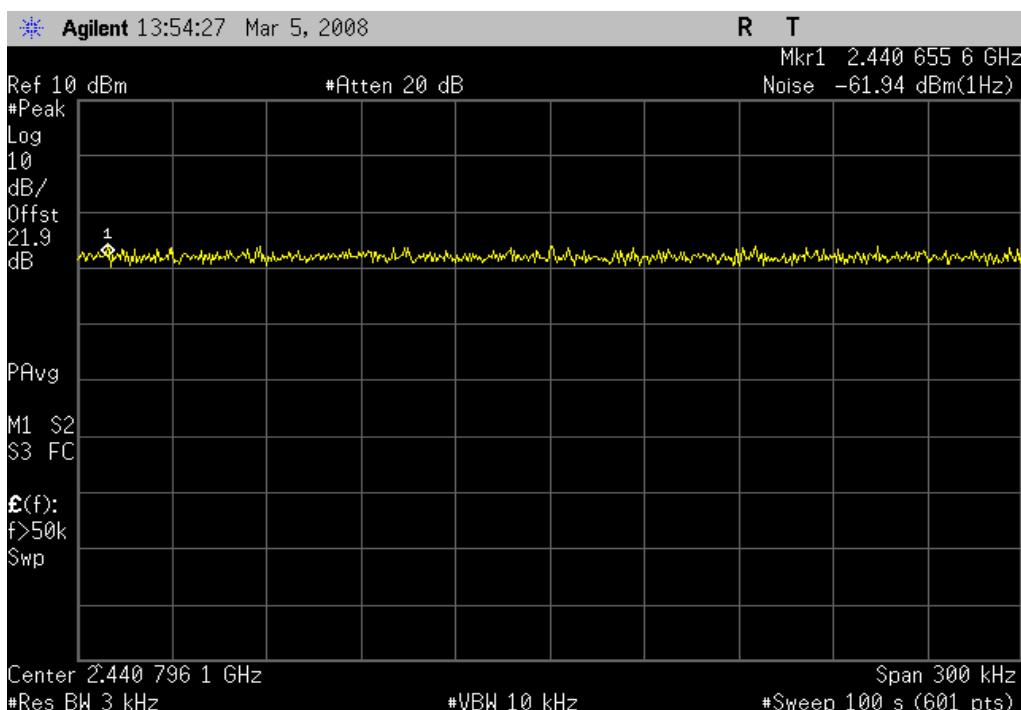


Transmitting with pi/4-DQPSK modulatio, Mid channel, 2441MHz

Result: Pass

Value: -26.94 dBm / 3 kHz

Limit: 8 dBm / 3 kHz



Transmitting with pi/4-DQPSK modulatio, High channel, 2477MHz

Result: Pass

Value: -27.29 dBm / 3 kHz

Limit: 8 dBm / 3 kHz

