Juniper Systems, Inc.

Allegro MX BC04 Module

September 11, 2008

Report No. JUNI0005

Report Prepared By



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

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22975 NW Evergreen Parkway Suite 400 Hillsboro, Oregon 97124

Certificate of Test

Issue Date: September 11, 2008 Juniper Systems, Inc. Model: Allegro MX BC04 module

| Emissions | | | | | |
|----------------------------------|----------------------|--------------------------------|-----------|--|--|
| Test Description | Specification | Test Method | Pass/Fail | | |
| Spurious Radiated Emissions | FCC 15.247(DTS):2007 | ANSI C63.4:2003 KDB No. 558074 | Pass | | |
| AC Powerline Conducted Emissions | FCC 15.207:2007 | 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(Site filing #2834D-1).

Approved By:

Don Facteau, IS 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 History

Revision 05/05/03

| 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.



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-Gen, Issue 2 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. (*Site Filing Numbers - Hillsboro: 2834D-1, 2834D-2, Sultan: 2834C-1, Irvine: 2834B-1, 2834B-2*)



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 TUV Product Service Group's Listing of Recognized Laboratories. It qualifies in connection with the TUV Certification after Recognition of Agent's Testing Program for the product categories and/or standards shown in TUV's current Listing of CARAT Laboratories, available from TUV. A certificate was issued to represent that this laboratory continues to meet TUV'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 (US0017). 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



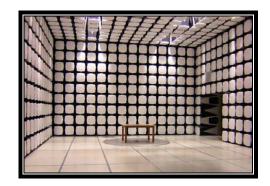
MIC: Northwest EMC, Inc is a CAB designated by MRA partners and recognized by Korea. (Assigned Lab Numbers: Hillsboro: US0017, Irvine: US0158, Sultan: US0157)



SCOPE

For details on the Scopes of our Accreditations, please visit: http://www.nwemc.com/accreditations/





California – Orange County Facility Labs OC01 – OC13

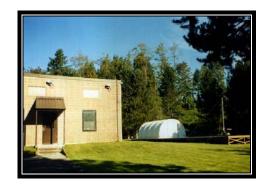
41 Tesla Ave. Irvine, CA 92618 (888) 364-2378 Fax: (503) 844-3826





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: | Juniper Systems, Inc. |
|-----------------------------|------------------------|
| Address: | 1132 West 1700 North |
| City, State, Zip: | Logan, UT 84321 |
| Test Requested By: | Kent Campbell |
| Model: | Allegro MX BC04 Module |
| First Date of Test: | July 22, 2008 |
| Last Date of Test: | September 4, 2008 |
| Receipt Date of Samples: | July 22, 2008 |
| Equipment Design Stage: | Production |
| Equipment Condition: | No Damage |

Information Provided by the Party Requesting the Test

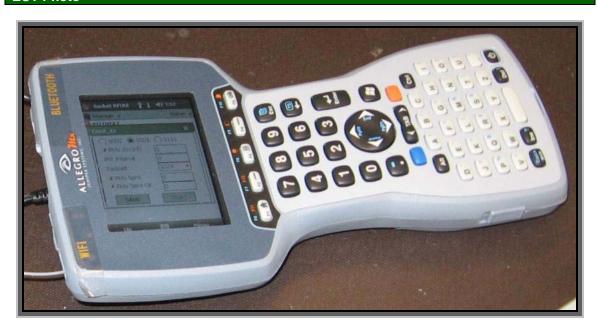
Functional Description of the EUT (Equipment Under Test):

Ultra-rugged Field PC contains the Socket Bluetooth module, BC04

Testing Objective:

To demonstrate compliance of the Bluetooth module to FCC 15.247 radiated and conducted emissions requirements. Other FCC requirements are addressed in separate test reports.

EUT Photo



Configurations

CONFIGURATION 1 JUNI0005

| Software/Firmware Running during test | | | |
|---------------------------------------|------|--|--|
| Description Version | | | |
| Bluetest | None | | |
| RFUtil | None | | |

| EUT | | | |
|-----------------|-----------------------|-------------------|--------------------|
| Description | Manufacturer | Model/Part Number | Serial Number |
| Bluetooth radio | Socket | BC04 | None |
| 802.11 radio | Socket | Go Wi-Fi! | None |
| Handheld PC | Juniper Systems, Inc. | Allegro Mx | beta prototype #61 |

| Peripherals in test setup boundary | | | | |
|------------------------------------|--------------|-------------------|---------------|--|
| Description | Manufacturer | Model/Part Number | Serial Number | |
| AC Adapter 1 | Ktec | KSAC1200100W1UV-1 | None | |

| Remote Equipment Outside of Test Setup Boundary | | | | |
|--|------|----------|--------------------------|--|
| Description Manufacturer Model/Part Number Serial Number | | | | |
| Laptop | Dell | PP01X | 5743258993 | |
| Laptop power adapter | Dell | ADP-70EB | TH-0K8302-17971-4B8-KZ0G | |

| Cables | | | | | |
|--|--------|------------|---------|----------------------|----------------------|
| Cable Type | Shield | Length (m) | Ferrite | Connection 1 | Connection 2 |
| Serial to USB | Yes | 3.0m | No | Handheld PC | Laptop |
| USB | Yes | 1.8m | No | Handheld PC | Unterminated |
| USB | Yes | 1.2m | Yes | Handheld PC | Unterminated |
| DC | No | 1.8 | Yes | Handheld PC | AC Adapter 1 |
| DC | No | 1.3m | Yes | Laptop | Laptop power adapter |
| AC | No | 1.6m | No | Laptop power adapter | AC Mains |
| PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown. | | | | | |



CONFIGURATION 2 JUNI0005

| Software/Firmware Running during test | | |
|---------------------------------------|------|--|
| Description Version | | |
| Bluetest | None | |
| RFUtil | None | |

| EUT | | | |
|-----------------|-----------------------|-------------------|--------------------|
| Description | Manufacturer | Model/Part Number | Serial Number |
| Bluetooth radio | Socket | BC04 | None |
| 802.11 radio | Socket | Go Wi-Fi! | None |
| Handheld PC | Juniper Systems, Inc. | Allegro Mx | beta prototype #61 |

| Peripherals in test setup boundary | | | | |
|------------------------------------|--------------|-------------------|---------------|--|
| Description | Manufacturer | Model/Part Number | Serial Number | |
| AC Adapter 1 | Ktec | KSAC1200100W1UV-1 | None | |

| Remote Equipment Outside of Test Setup Boundary | | | | |
|--|------|----------|--------------------------|--|
| Description Manufacturer Model/Part Number Serial Number | | | | |
| Laptop | Dell | PP01X | 5743258993 | |
| Laptop power adapter | Dell | ADP-70EB | TH-0K8302-17971-4B8-KZ0G | |

| Cables | | | | | | | | | | | |
|---------------|--|------------|---------|----------------------|----------------------|--|--|--|--|--|--|
| Cable Type | Shield | Length (m) | Ferrite | Connection 1 | Connection 2 | | | | | | |
| USB | Yes | 1.8m | No | Handheld PC | Unterminated | | | | | | |
| USB | Yes | 1.2m | Yes | Handheld PC | Unterminated | | | | | | |
| DC | No | 1.8 | Yes | Handheld PC | AC Adapter 1 | | | | | | |
| DC | No | 1.3m | Yes | Laptop | Laptop power adapter | | | | | | |
| AC | No | 1.6m | No | Laptop power adapter | AC Mains | | | | | | |
| Serial to USB | Yes | 1.8m | No | Handheld PC | Laptop | | | | | | |
| PA = Cab | PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown. | | | | | | | | | | |



CONFIGURATION 3 JUNI0005

| Software/Firmware Running during test | | | | | | | | | | |
|---------------------------------------|------|--|--|--|--|--|--|--|--|--|
| Description Version | | | | | | | | | | |
| Bluetest | None | | | | | | | | | |
| RFUtil | None | | | | | | | | | |

| EUT | | | | | | | | | | | |
|-----------------|-----------------------|-------------------|--------------------|--|--|--|--|--|--|--|--|
| Description | Manufacturer | Model/Part Number | Serial Number | | | | | | | | |
| Bluetooth radio | Socket | BC04 | None | | | | | | | | |
| 802.11 radio | Socket | Go Wi-Fi! | None | | | | | | | | |
| Handheld PC | Juniper Systems, Inc. | Allegro Mx | beta prototype #61 | | | | | | | | |

| Peripherals in test setup boundary | | | | | | | | | | | |
|------------------------------------|--------------|----------------------|-----------------------|--|--|--|--|--|--|--|--|
| Description | Manufacturer | Model/Part Number | Serial Number | | | | | | | | |
| AC Adapter 2 | Phihong | PSM11R-120(JS)-R MV2 | Engineering Sample #3 | | | | | | | | |

| Remote Equipment Outside of Test Setup Boundary | | | | | | | | | | | |
|---|------|-------|------------|--|--|--|--|--|--|--|--|
| Description Manufacturer Model/Part Number Serial Number | | | | | | | | | | | |
| Laptop | Dell | PP01X | 5743258993 | | | | | | | | |
| Laptop power adapter Dell ADP-70EB TH-0K8302-17971-4B8-KZ | | | | | | | | | | | |

| Cables | | | | | | | | | | | |
|---------------|--|------------|---------|----------------------|----------------------|--|--|--|--|--|--|
| Cable Type | Shield | Length (m) | Ferrite | Connection 1 | Connection 2 | | | | | | |
| USB | Yes | 1.8m | No | Handheld PC | Unterminated | | | | | | |
| USB | Yes | res 1.2m | | Handheld PC | Unterminated | | | | | | |
| DC | No | 1.8m | No | Handheld PC | AC Adapter 2 | | | | | | |
| DC | No | 1.3m | Yes | Laptop | Laptop power adapter | | | | | | |
| AC | No | 1.6m | No | Laptop power adapter | AC Mains | | | | | | |
| Serial to USB | Yes | 1.8m | No | Handheld PC | Laptop | | | | | | |
| PA = Cab | PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown. | | | | | | | | | | |

Modifications

Revision 4/28/03

| | Equipment modifications | | | | | | | | | | | |
|------|-------------------------|---|--------------------------------------|---|---|--|--|--|--|--|--|--|
| Item | Date | Test | Modification | Disposition of EUT | | | | | | | | |
| 1 | 7/22/2008 | 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. | | | | | | | |
| 2 | 9/4/2008 | AC Powerline Conducted Emissions | Tested as delivered to Test Station. | No EMI suppression devices were added or modified during this test. | Scheduled testing was complete. | | | | | | | |

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

GFSK modulation, DH5 rate

pi/4-QPSK modulation, 2DH5 rate

8-DPSK modulation, 3DH5 rate

CHANNELS TESTED

Low channel, 2402 MHz

Mid channel, 2439 MHz

High channel, 2480 MHz

POWER SETTINGS USED FOR FINAL DATA

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

| EQUIPMENT | | | | | |
|--------------------|---------------|--------------------------------------|-----|------------|----------|
| Description | Manufacturer | Model | ID | Last Cal. | Interval |
| Spectrum Analyzer | Agilent | E4446A | AAT | 12/7/2007 | 13 |
| High Pass Filter | Micro-Tronics | HPM50111 | HFO | 5/21/2008 | 13 |
| Pre-Amplifier | Miteq | AM-1616-1000 | AOL | 5/19/2008 | 13 |
| Antenna, Biconilog | EMCO | 3141 | AXE | 1/15/2008 | 24 |
| EV01 Cables | | Bilog Cables | EVA | 5/19/2008 | 13 |
| Pre-Amplifier | Miteq | AMF-4D-010100-24-10P | APW | 5/19/2008 | 13 |
| Antenna, Horn | EMCO | 3115 | AHC | 8/12/2008 | 24 |
| EV01 Cables | | Double Ridge Horn Cables | EVB | 5/19/2008 | 13 |
| Pre-Amplifier | Miteq | AMF-6F-08001200-30-10P | AVC | 6/30/2008 | 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 | 6/30/2008 | 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 | 16 |
| Antenna, Horn | EMCO | 3160-09 | AHG | NCR | 0 |
| EV01 Cables | | 18-26GHz Standard Gain Horn Cable | EVD | 7/25/2007 | 16 |

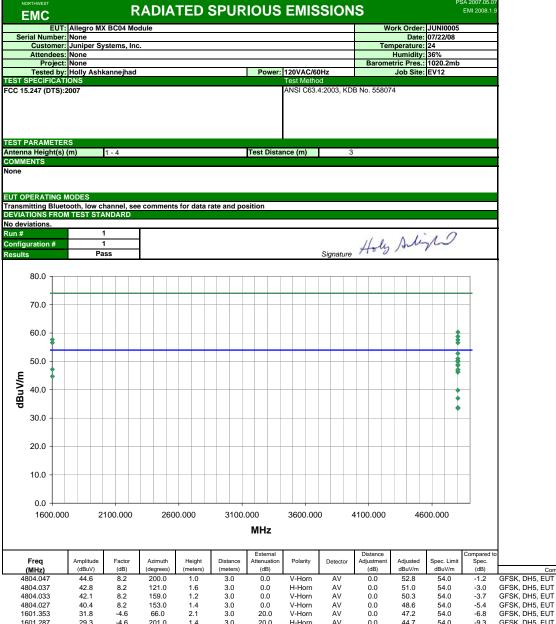
| MEASUREMENT BANDWIDTHS | | | | | | | | | | |
|------------------------|-------------------------|-------------------------------|----------------------------------|-------------|--|--|--|--|--|--|
| | Frequency Range | Quasi-Peak Data | Average Data | | | | | | | |
| | (MHz) | (kHz) | (kHz) | (kHz) | | | | | | |
| | 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 | | | | | | |
| Me | easurements were made u | ising the bandwidths and dete | ectors specified. No video filte | r 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

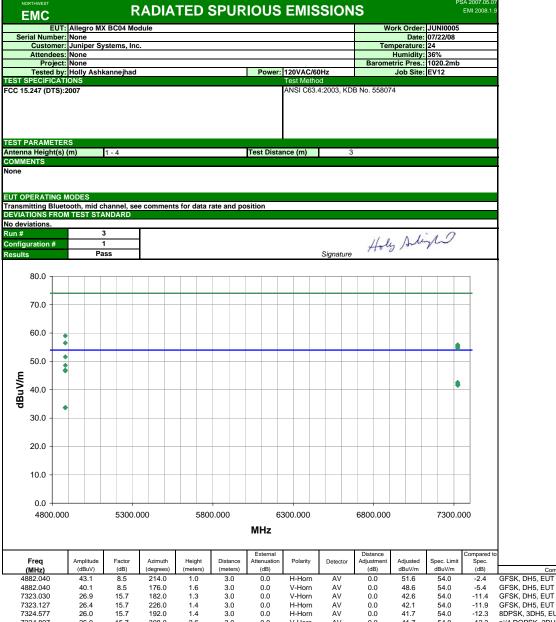
The highest gain of each type of antenna to be used with the EUT was tested. The EUT was configured for low, mid, and high band transmit frequencies. For each configuration, the spectrum was scanned throughout the specified range. In addition, measurements were made in the restricted bands to verify 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.



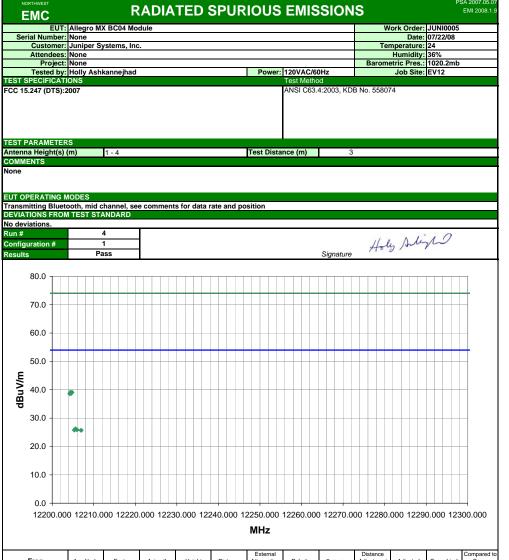
| Freq | Amplitude | Factor | Azimuth | Height | Distance | Attenuation | Polarity | Detector | Adjustment | Adjusted | Spec. Limit | Spec. | |
|----------|-----------|--------|-----------|----------|----------|-------------|----------|----------|------------|----------|-------------|-------|----------------------------------|
| (MHz) | (dBuV) | (dB) | (degrees) | (meters) | (meters) | (dB) | | | (dB) | dBuV/m | dBuV/m | (dB) | Comments |
| 4804.047 | 44.6 | 8.2 | 200.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 52.8 | 54.0 | -1.2 | GFSK, DH5, EUT horizontal |
| 4804.037 | 42.8 | 8.2 | 121.0 | 1.6 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 51.0 | 54.0 | -3.0 | GFSK, DH5, EUT on side |
| 4804.033 | 42.1 | 8.2 | 159.0 | 1.2 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 50.3 | 54.0 | -3.7 | GFSK, DH5, EUT on side |
| 4804.027 | 40.4 | 8.2 | 153.0 | 1.4 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 48.6 | 54.0 | -5.4 | GFSK, DH5, EUT vertical |
| 1601.353 | 31.8 | -4.6 | 66.0 | 2.1 | 3.0 | 20.0 | V-Horn | AV | 0.0 | 47.2 | 54.0 | -6.8 | GFSK, DH5, EUT horizontal |
| 1601.287 | 29.3 | -4.6 | 201.0 | 1.4 | 3.0 | 20.0 | H-Horn | AV | 0.0 | 44.7 | 54.0 | -9.3 | GFSK, DH5, EUT on side |
| 4804.463 | 52.1 | 8.2 | 200.0 | 1.0 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 60.3 | 74.0 | -13.7 | GFSK, DH5, EUT horizontal |
| 4803.990 | 31.6 | 8.2 | 119.0 | 1.6 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 39.8 | 54.0 | -14.2 | GFSK, DH5, EUT vertical |
| 4803.680 | 50.6 | 8.2 | 121.0 | 1.6 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 58.8 | 74.0 | -15.2 | GFSK, DH5, EUT on side |
| 1601.023 | 42.3 | -4.6 | 66.0 | 2.1 | 3.0 | 20.0 | V-Horn | PK | 0.0 | 57.7 | 74.0 | -16.3 | GFSK, DH5, EUT horizontal |
| 4803.913 | 49.4 | 8.2 | 159.0 | 1.2 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 57.6 | 74.0 | -16.4 | GFSK, DH5, EUT on side |
| 4804.017 | 28.8 | 8.2 | 123.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 37.0 | 54.0 | -17.0 | GFSK, DH5, EUT horizontal |
| 1601.280 | 41.2 | -4.6 | 201.0 | 1.4 | 3.0 | 20.0 | H-Horn | PK | 0.0 | 56.6 | 74.0 | -17.4 | GFSK, DH5, EUT on side |
| 4803.847 | 48.4 | 8.2 | 153.0 | 1.4 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 56.6 | 74.0 | -17.4 | GFSK, DH5, EUT vertical |
| 4804.270 | 25.5 | 8.2 | 277.0 | 1.5 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 33.7 | 54.0 | -20.3 | 8DPSK, 3DH5, EUT on side |
| 4804.353 | 25.4 | 8.2 | 107.0 | 1.5 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 33.6 | 54.0 | -20.4 | pi/4-DQPSK, 2DH5, EUT on side |
| 4804.050 | 25.4 | 8.1 | 214.0 | 2.1 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 33.5 | 54.0 | -20.5 | pi/4-DQPSK, 2DH5, EUT horizontal |
| 4804.607 | 25.4 | 8.1 | 116.0 | 2.1 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 33.5 | 54.0 | -20.5 | 8DPSK, 3DH5, EUT horizontal |
| 4804.150 | 41.7 | 8.2 | 119.0 | 1.6 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 49.9 | 74.0 | -24.1 | GFSK, DH5, EUT vertical |
| 4803.850 | 40.6 | 8.2 | 123.0 | 1.0 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 48.8 | 74.0 | -25.2 | GFSK, DH5, EUT horizontal |
| 4804.833 | 38.9 | 8.2 | 277.0 | 1.5 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 47.1 | 74.0 | -26.9 | 8DPSK, 3DH5, EUT on side |
| 4803.230 | 38.8 | 8.2 | 116.0 | 2.1 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 47.0 | 74.0 | -27.0 | 8DPSK, 3DH5, EUT horizontal |
| 4804.753 | 38.1 | 8.2 | 107.0 | 1.5 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 46.3 | 74.0 | -27.7 | pi/4-DQPSK, 2DH5, EUT on side |
| 4803.317 | 38.0 | 8.2 | 214.0 | 2.1 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 46.2 | 74.0 | -27.8 | pi/4-DQPSK, 2DH5, EUT horizontal |

| | egro MX BC04 M | odule | | | | | Work Order | |
|--|-------------------|-------------------|-----------------|-------------|---------------------------|-----------|-------------------|-----------------|
| Serial Number: No | | | | | | | | : 07/22/08 |
| | niper Systems, Ir | ıc. | | | | | Temperature | |
| Attendees: No | | | | | | | Humidity | |
| Project: No | | | | | | | Barometric Pres. | |
| | Ily Ashkannejhad | d | | Power: | 120VAC/60 | | Job Site | : EV12 |
| ST SPECIFICATION CC 15.247 (DTS):2007 | | | | | Test Method ANSI C63.4 | | 3 No. 558074 | |
| | | | | | | | | |
| ST PARAMETERS | | | | | | | | |
| ntenna Height(s) (m) | 1 - 4 | | | Test Distar | nce (m) | 3 | | |
| OMMENTS | | | | | | | | |
| JT OPERATING MOD ansmitting Bluetootl EVIATIONS FROM TE deviations. | n, low channel, s | ee comments for d | ata rate and po | osition | | | | |
| un # | 2 | 1 | | | | | 10.11.59.7 | 20 00 00 |
| onfiguration # | 1 | - | | | | | Holy Sile | 2 |
| | Pass | - | | | | Cianet | How John | 1 |
| esults | газэ | | | | | Signature | | |
| 70.0 | | | | | | | | |
| 60.0 | | | | | | | | |
| 50.0 | | | | | | | | |
| 40.0 40.0 | | | | | | | | |
| 30.0 | • | | | | | | | |
| 20.0 | | | | | | | | |
| 10.0 | | | | | | | | |
| | | | | | | | | |
| 0.0 | | | | | | | | |
| 0.0 | 2010 000 1202 | 0.000.12020.000 | 12040 000 4 | 2050 000 | 12060 000 | 12070 0 | 00 12080.000 1209 | 00 000 12100 00 |

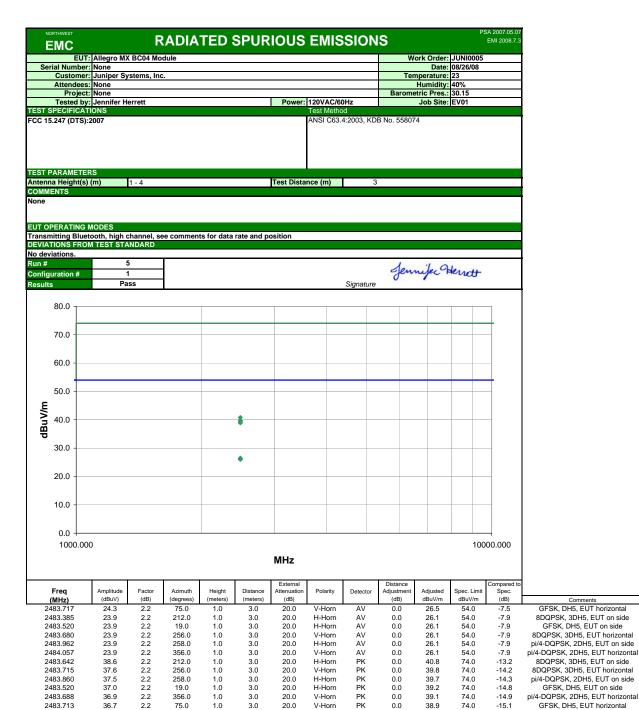
| ı | | | | | | | External | | | Distance | | | Compared to | |
|---|-----------|-----------|--------|-----------|----------|----------|-------------|----------|----------|------------|----------|-------------|-------------|----------------------------------|
| ı | Freq | Amplitude | Factor | Azimuth | Height | Distance | Attenuation | Polarity | Detector | Adjustment | Adjusted | Spec. Limit | Spec. | |
| ı | (MHz) | (dBuV) | (dB) | (degrees) | (meters) | (meters) | (dB) | | | (dB) | dBuV/m | dBuV/m | (dB) | Comments |
| | 12010.210 | 41.8 | -11.4 | 103.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 30.4 | 54.0 | -23.6 | GFSK, DH5, EUT on side |
| | 12010.450 | 41.7 | -11.4 | 74.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 30.3 | 54.0 | -23.7 | GFSK, DH5, EUT horizontal |
| | 12010.540 | 38.3 | -11.4 | 343.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 26.9 | 54.0 | -27.1 | 8DPSK, 3DH5, EUT on side |
| | 12010.130 | 37.9 | -11.4 | 24.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 26.5 | 54.0 | -27.5 | pi/4-DQPSK, 2DH5, EUT on side |
| | 12010.930 | 37.8 | -11.4 | 53.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 26.4 | 54.0 | -27.6 | 8DPSK, 3DH5, EUT horizontal |
| | 12010.300 | 37.6 | -11.4 | 160.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 26.2 | 54.0 | -27.8 | pi/4-DQPSK, 2DH5, EUT horizontal |
| | 12010.400 | 54.5 | -11.4 | 74.0 | 1.0 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 43.1 | 74.0 | -30.9 | GFSK, DH5, EUT horizontal |
| | 12009.190 | 53.7 | -11.4 | 103.0 | 1.0 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 42.3 | 74.0 | -31.7 | GFSK, DH5, EUT on side |
| | 12009.810 | 51.4 | -11.4 | 343.0 | 1.0 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 40.0 | 74.0 | -34.0 | 8DPSK, 3DH5, EUT on side |
| | 12010.090 | 51.1 | -11.4 | 53.0 | 1.0 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 39.7 | 74.0 | -34.3 | 8DPSK, 3DH5, EUT horizontal |
| | 12010.420 | 51.0 | -11.4 | 24.0 | 1.0 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 39.6 | 74.0 | -34.4 | pi/4-DQPSK, 2DH5, EUT on side |
| | 12010.340 | 50.5 | -11.4 | 160.0 | 1.0 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 39.1 | 74.0 | -34.9 | pi/4-DQPSK, 2DH5, EUT horizontal |
| | | | | | | | | | | | | | | |



| Freq | Amplitude | Factor | Azimuth | Height | Distance | Attenuation | Polarity | Detector | Adjustment | Adjusted | Spec. Limit | Spec. | |
|----------|-----------|--------|-----------|----------|----------|-------------|----------|----------|------------|----------|-------------|-------|----------------------------------|
| (MHz) | (dBuV) | (dB) | (degrees) | (meters) | (meters) | (dB) | | | (dB) | dBuV/m | dBuV/m | (dB) | Comments |
| 4882.040 | 43.1 | 8.5 | 214.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 51.6 | 54.0 | -2.4 | GFSK, DH5, EUT on side |
| 4882.040 | 40.1 | 8.5 | 176.0 | 1.6 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 48.6 | 54.0 | -5.4 | GFSK, DH5, EUT horizontal |
| 7323.030 | 26.9 | 15.7 | 182.0 | 1.3 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 42.6 | 54.0 | -11.4 | GFSK, DH5, EUT horizontal |
| 7323.127 | 26.4 | 15.7 | 226.0 | 1.4 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 42.1 | 54.0 | -11.9 | GFSK, DH5, EUT on side |
| 7324.577 | 26.0 | 15.7 | 192.0 | 1.4 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 41.7 | 54.0 | -12.3 | 8DPSK, 3DH5, EUT on side |
| 7324.807 | 26.0 | 15.7 | 308.0 | 2.6 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 41.7 | 54.0 | -12.3 | pi/4-DQPSK, 2DH5, EUT horizontal |
| 7323.207 | 25.9 | 15.7 | 54.0 | 1.4 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 41.6 | 54.0 | -12.4 | pi/4-DQPSK, 2DH5, EUT on side |
| 7323.683 | 25.9 | 15.7 | 59.0 | 2.5 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 41.6 | 54.0 | -12.4 | 8DPSK, 3DH5, EUT on horizontal |
| 4881.850 | 50.5 | 8.5 | 214.0 | 1.0 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 59.0 | 74.0 | -15.0 | GFSK, DH5, EUT on side |
| 4881.617 | 48.0 | 8.5 | 176.0 | 1.6 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 56.5 | 74.0 | -17.5 | GFSK, DH5, EUT horizontal |
| 7322.857 | 40.1 | 15.7 | 226.0 | 1.4 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 55.8 | 74.0 | -18.2 | GFSK, DH5, EUT on side |
| 7323.413 | 40.1 | 15.7 | 192.0 | 1.4 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 55.8 | 74.0 | -18.2 | 8DPSK, 3DH5, EUT on side |
| 7323.503 | 39.7 | 15.7 | 182.0 | 1.3 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 55.4 | 74.0 | -18.6 | GFSK, DH5, EUT horizontal |
| 7323.673 | 39.6 | 15.7 | 308.0 | 2.6 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 55.3 | 74.0 | -18.7 | pi/4-DQPSK, 2DH5, EUT horizontal |
| 7323.073 | 39.1 | 15.7 | 54.0 | 1.4 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 54.8 | 74.0 | -19.2 | pi/4-DQPSK, 2DH5, EUT on side |
| 7323.247 | 39.0 | 15.7 | 59.0 | 2.5 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 54.7 | 74.0 | -19.3 | 8DPSK, 3DH5, EUT on horizontal |
| 4880.573 | 25.2 | 8.5 | 0.0 | 2.4 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 33.7 | 54.0 | -20.3 | pi/4-DQPSK, 2DH5, EUT horizontal |
| 4881.797 | 25.2 | 8.5 | 106.0 | 2.4 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 33.7 | 54.0 | -20.3 | 8DPSK, 3DH5, EUT on horizontal |
| 4882.193 | 25.2 | 8.5 | 150.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 33.7 | 54.0 | -20.3 | 8DPSK, 3DH5, EUT on side |
| 4882.287 | 25.2 | 8.5 | 70.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 33.7 | 54.0 | -20.3 | pi/4-DQPSK, 2DH5, EUT on side |
| 4881.283 | 38.4 | 8.5 | 0.0 | 2.4 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 46.9 | 74.0 | -27.1 | pi/4-DQPSK, 2DH5, EUT horizontal |
| 4881.450 | 38.3 | 8.5 | 106.0 | 2.4 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 46.8 | 74.0 | -27.2 | 8DPSK, 3DH5, EUT on horizontal |
| 4881.267 | 38.2 | 8.5 | 150.0 | 1.0 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 46.7 | 74.0 | -27.3 | 8DPSK, 3DH5, EUT on side |
| 4882.437 | 38.2 | 8.5 | 70.0 | 1.0 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 46.7 | 74.0 | -27.3 | pi/4-DQPSK, 2DH5, EUT on side |



| Freq | Amplitude | Factor | Azimuth | Height | Distance | Attenuation | Polarity | Detector | Adjustment | Adjusted | Spec. Limit | Spec. | |
|-----------|-----------|--------|-----------|----------|----------|-------------|----------|----------|------------|----------|-------------|-------|----------------------------------|
| (MHz) | (dBuV) | (dB) | (degrees) | (meters) | (meters) | (dB) | | | (dB) | dBuV/m | dBuV/m | (dB) | Comments |
| 12205.590 | 37.2 | -11.0 | 82.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 26.2 | 54.0 | -27.8 | 8DPSK, 3DH5, EUT on side |
| 12205.980 | 36.9 | -11.0 | 114.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 25.9 | 54.0 | -28.1 | 8DPSK, 3DH5, EUT horizontal |
| 12205.330 | 36.8 | -11.0 | 65.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 25.8 | 54.0 | -28.2 | pi/4-DQPSK, 2DH5, EUT on side |
| 12206.970 | 36.7 | -11.0 | 257.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 25.7 | 54.0 | -28.3 | pi/4-DQPSK, 2DH5, EUT horizontal |
| 12204.350 | 50.1 | -11.0 | 114.0 | 1.0 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 39.1 | 74.0 | -34.9 | 8DPSK, 3DH5, EUT horizontal |
| 12204.760 | 50.1 | -11.0 | 65.0 | 1.0 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 39.1 | 74.0 | -34.9 | pi/4-DQPSK, 2DH5, EUT on side |
| 12204.550 | 49.7 | -11.0 | 82.0 | 1.0 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 38.7 | 74.0 | -35.3 | 8DPSK, 3DH5, EUT on side |
| 12204.230 | 49.6 | -11.0 | 257.0 | 1.0 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 38.6 | 74.0 | -35.4 | pi/4-DQPSK, 2DH5, EUT horizontal |



38.6 37.6

37.5 37.0

36.9

2483 642

2483.860

2483 688

2483.713

2.2 2.2

2.2 2.2

2.2

212.0

258.0

19.0

356.0

75.0

1.0

1.0

1.0

1.0

3.0 3.0

3.0 3.0

3.0

20.0

20.0

20.0 20.0

20.0

H-Horn

V-Horn

H-Horn

H-Horn

V-Horn

V-Horn

0.0

0.0

0.0

0.0

0.0

74.0 74.0

74.0 74.0

74.0

40.8

39.8

39.7 39.2

39 1

-13.2 -14.2

-14.3 -14.8

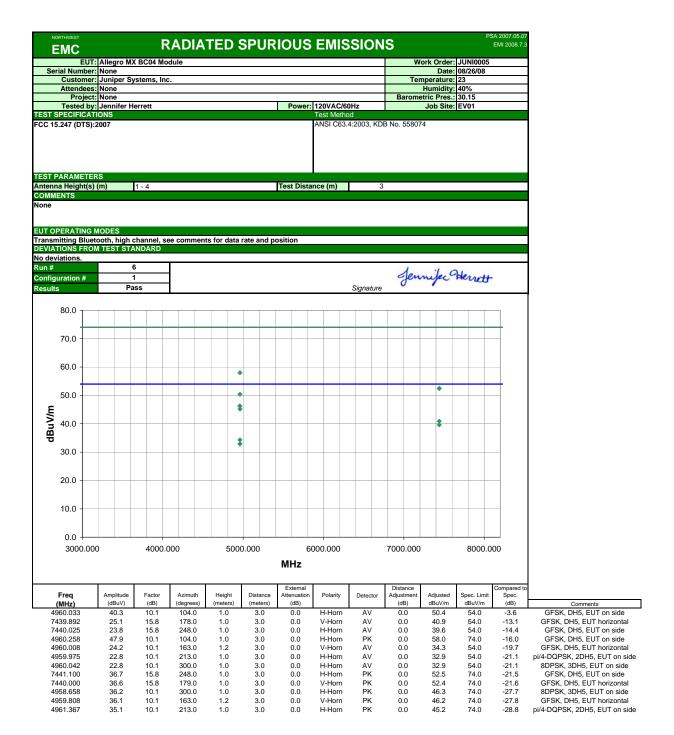
-14 9

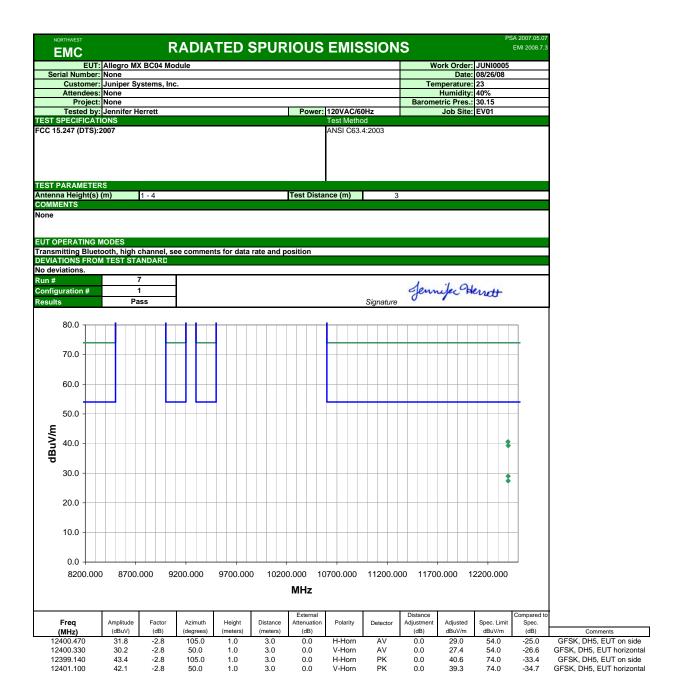
8DQPSK, 3DH5, EUT on side 8DQPSK, 3DH5, EUT horizontal

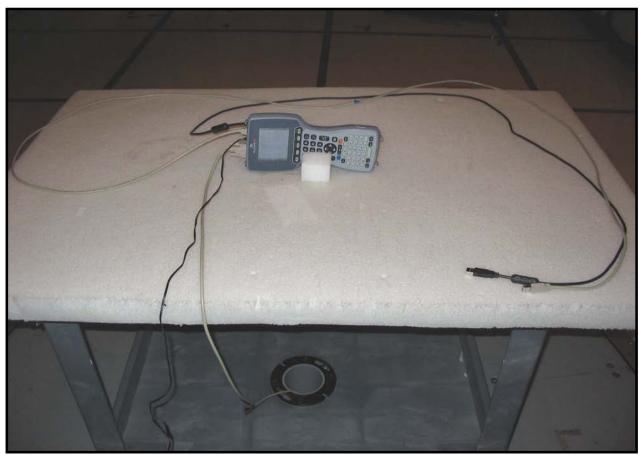
pi/4-DQPSK, 2DH5, EUT on side GFSK, DH5, EUT on side

pi/4-DQPSK, 2DH5, EUT horizontal

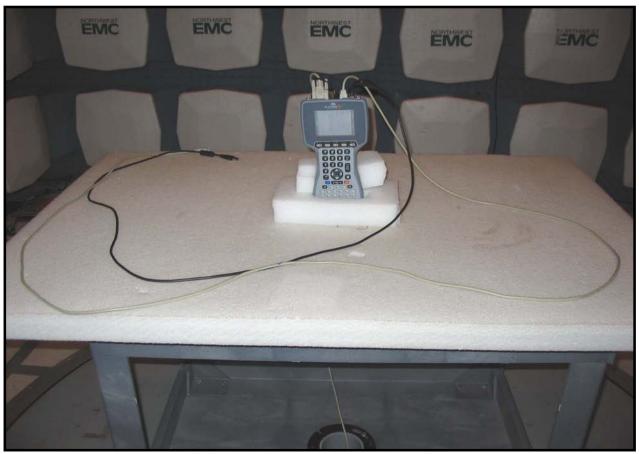
GFSK, DH5, EUT horizontal

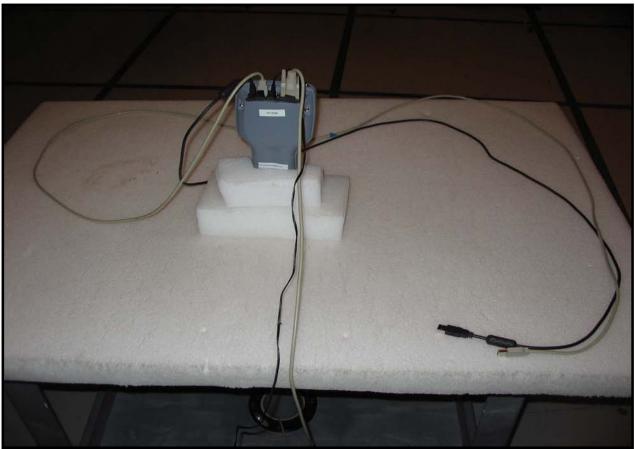


















AC POWERLINE CONDUCTED EMISSIONS

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

Transmitting BT (8DPSK/3DH5) and 802.11(b) (1 Mbps, 0101), high channel

Transmitting BT (8DPSK/3DH5) and 802.11(b) (1 Mbps, 0101), mid channel

Transmitting BT (8DPSK/3DH5) and 802.11(b) (1 Mbps, 0101), low channel

POWER SETTINGS INVESTIGATED

120VAC/60Hz

CONFIGURATIONS INVESTIGATED

12

SAMPLE CALCULATIONS

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

| TEST EQUIPMENT | | | | | |
|------------------|-----------------|------------------|-----|-----------|----------|
| Description | Manufacturer | Model | ID | Last Cal. | Interval |
| Receiver | Rohde & Schwarz | ESCI | ARG | 12/7/2007 | 13 mo |
| EV07 Cables | | Conducted Cables | EVG | 5/2/2008 | 13 mo |
| Attenuator | Coaxicom | 66702 2910-20 | ATO | 6/30/2008 | 13 mo |
| High Pass Filter | T.T.E. | 7766 | HFG | 2/5/2008 | 13 mo |
| LISN | Solar | 9252-50-R-24-BNC | LIR | 1/4/2008 | 13 mo |
| LISN | Solar | 9252-50-R-24-BNC | LIP | 1/4/2008 | 13 mo |

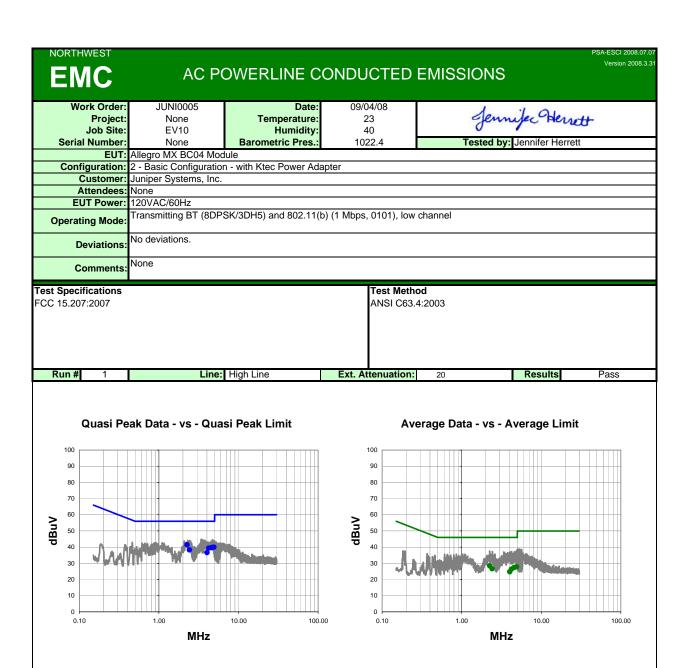
| Frequency Range | Peak Data | Quasi-Peak Data | Average Data | |
|-----------------|-----------|-----------------|--------------|--|
| (MHz) | (kHz) | (kHz) | (kHz) | |
| 0.01 - 0.15 | 1.0 | 0.2 | 0.2 | |
| 0.15 - 30.0 | 10.0 | 9.0 | 9.0 | |
| 30.0 - 1000 | 100.0 | 120.0 | 120.0 | |
| Above 1000 |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

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

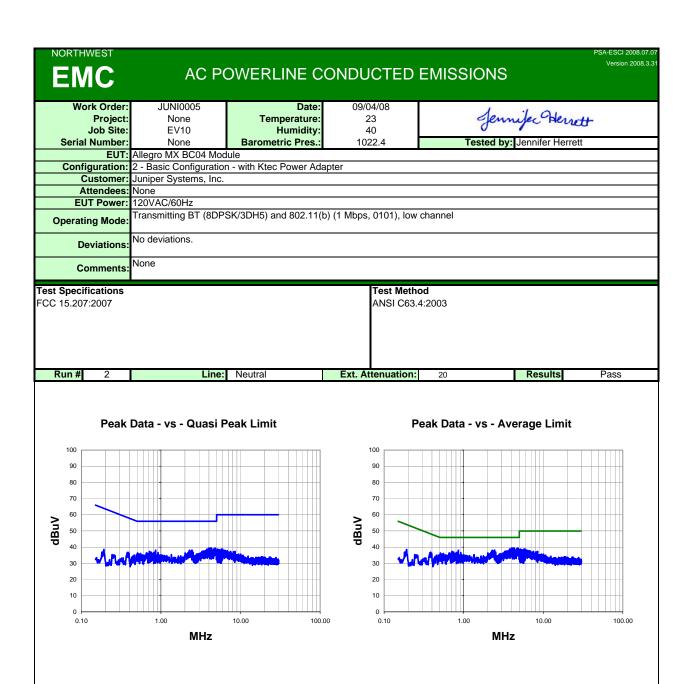
Using the mode of operation and configuration noted within this report, conducted emissions tests were performed. The frequency range investigated (scanned), is also noted in this report. Conducted power line measurements are made, unless otherwise specified, over the frequency range from 150 kHz to 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.



Quasi Peak Data - vs - Quasi Peak Limit

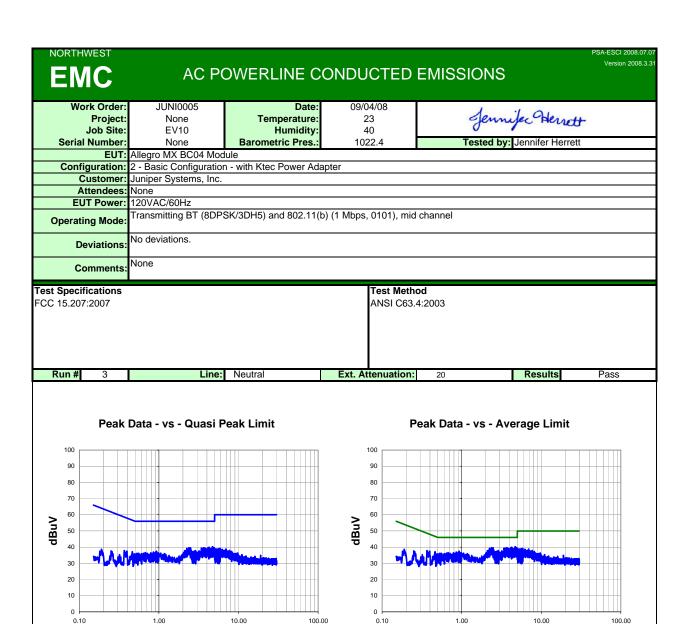
| Average | Data - vs - | Average | Limit |
|---------|-------------|---------|-------|
| | | | |

| Fred (MH | | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) | Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|-------------|--------|----------------|--------------------|-----------------------|------------------------------|---------------|---------------------|----------------|--------------------|-----------------------|------------------------------|
| 2.25 | 2 20.8 | 20.6 | 41.4 | 56.0 | -14.6 | 2.252 | 7.8 | 20.6 | 28.4 | 46.0 | -17.6 |
| 4.90 | 0 19.3 | 20.6 | 39.9 | 56.0 | -16.1 | 4.900 | 7.1 | 20.6 | 27.7 | 46.0 | -18.3 |
| 4.57 | 2 19.0 | 20.6 | 39.6 | 56.0 | -16.4 | 4.572 | 6.8 | 20.6 | 27.4 | 46.0 | -18.6 |
| 4.23 | 6 18.7 | 20.6 | 39.3 | 56.0 | -16.7 | 2.420 | 6.0 | 20.6 | 26.6 | 46.0 | -19.4 |
| 2.42 | 0 17.7 | 20.6 | 38.3 | 56.0 | -17.7 | 4.236 | 5.8 | 20.6 | 26.4 | 46.0 | -19.6 |
| 4.02 | 8 16.0 | 20.6 | 36.6 | 56.0 | -19.4 | 4.028 | 4.1 | 20.6 | 24.7 | 46.0 | -21.3 |



Peak Data - vs - Quasi Peak Limit Peak Data - vs - Average Limit

| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) | | Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|---------------|---------------------|----------------|--------------------|-----------------------|------------------------------|------|---------------|---------------------|----------------|--------------------|-----------------------|------------------------------|
| 4.152 | 18.8 | 20.6 | 39.4 | 56.0 | -16.6 | ļi ļ | 4.152 | 18.8 | 20.6 | 39.4 | 46.0 | -6.6 |
| 4.328 | 18.7 | 20.6 | 39.3 | 56.0 | -16.7 | | 4.328 | 18.7 | 20.6 | 39.3 | 46.0 | -6.7 |
| 3.992 | 18.7 | 20.6 | 39.3 | 56.0 | -16.7 | | 3.992 | 18.7 | 20.6 | 39.3 | 46.0 | -6.7 |
| 4.784 | 18.6 | 20.6 | 39.2 | 56.0 | -16.8 | | 4.784 | 18.6 | 20.6 | 39.2 | 46.0 | -6.8 |
| 4.856 | 18.5 | 20.6 | 39.1 | 56.0 | -16.9 | | 4.856 | 18.5 | 20.6 | 39.1 | 46.0 | -6.9 |
| 4.656 | 18.5 | 20.6 | 39.1 | 56.0 | -16.9 | | 4.656 | 18.5 | 20.6 | 39.1 | 46.0 | -6.9 |
| 3.784 | 18.2 | 20.6 | 38.8 | 56.0 | -17.2 | | 3.784 | 18.2 | 20.6 | 38.8 | 46.0 | -7.2 |
| 4.224 | 18.1 | 20.6 | 38.7 | 56.0 | -17.3 | | 4.224 | 18.1 | 20.6 | 38.7 | 46.0 | -7.3 |
| 4.920 | 17.9 | 20.6 | 38.5 | 56.0 | -17.5 | | 4.920 | 17.9 | 20.6 | 38.5 | 46.0 | -7.5 |
| 2.456 | 17.6 | 20.6 | 38.2 | 56.0 | -17.8 | | 2.456 | 17.6 | 20.6 | 38.2 | 46.0 | -7.8 |
| 4.536 | 17.5 | 20.6 | 38.1 | 56.0 | -17.9 | | 4.536 | 17.5 | 20.6 | 38.1 | 46.0 | -7.9 |
| 4.040 | 17.5 | 20.6 | 38.1 | 56.0 | -17.9 | | 4.040 | 17.5 | 20.6 | 38.1 | 46.0 | -7.9 |
| 2.272 | 17.5 | 20.6 | 38.1 | 56.0 | -17.9 | | 2.272 | 17.5 | 20.6 | 38.1 | 46.0 | -7.9 |
| 0.855 | 17.4 | 20.7 | 38.1 | 56.0 | -17.9 | | 0.855 | 17.4 | 20.7 | 38.1 | 46.0 | -7.9 |
| 4.424 | 17.4 | 20.6 | 38.0 | 56.0 | -18.0 | | 4.424 | 17.4 | 20.6 | 38.0 | 46.0 | -8.0 |
| 3.648 | 17.3 | 20.6 | 37.9 | 56.0 | -18.1 | | 3.648 | 17.3 | 20.6 | 37.9 | 46.0 | -8.1 |
| 2.408 | 17.3 | 20.6 | 37.9 | 56.0 | -18.1 | | 2.408 | 17.3 | 20.6 | 37.9 | 46.0 | -8.1 |
| 3.488 | 17.1 | 20.6 | 37.7 | 56.0 | -18.3 | | 3.488 | 17.1 | 20.6 | 37.7 | 46.0 | -8.3 |
| 4.456 | 16.9 | 20.6 | 37.5 | 56.0 | -18.5 | | 4.456 | 16.9 | 20.6 | 37.5 | 46.0 | -8.5 |
| 3.936 | 16.9 | 20.6 | 37.5 | 56.0 | -18.5 | | 3.936 | 16.9 | 20.6 | 37.5 | 46.0 | -8.5 |



10.00

MHz

Peak Data - vs - Quasi Peak Limit

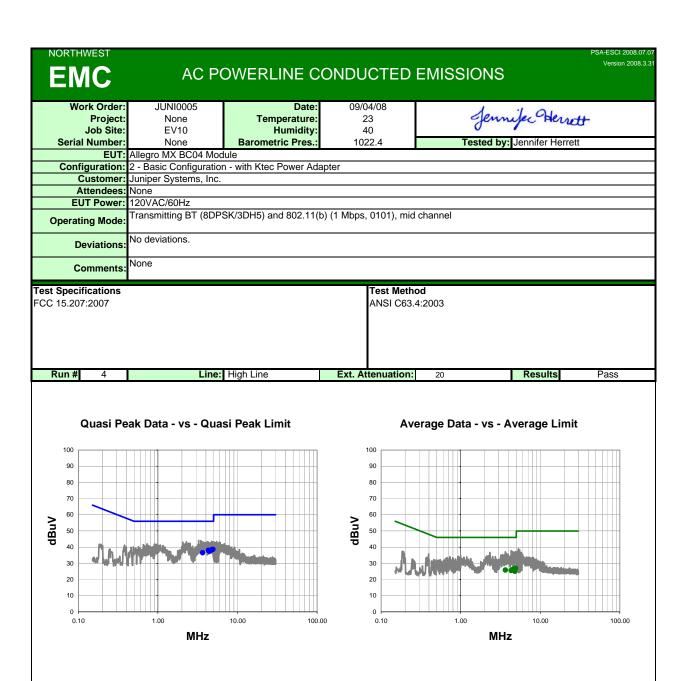
0.10

| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) | | Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|---------------|---------------------|----------------|--------------------|-----------------------|------------------------------|-----|---------------|---------------------|----------------|--------------------|-----------------------|------------------------------|
| 4.720 | 19.6 | 20.6 | 40.2 | 56.0 | -15.8 | · · | 4.720 | 19.6 | 20.6 | 40.2 | 46.0 | -5.8 |
| 4.656 | 19.4 | 20.6 | 40.0 | 56.0 | -16.0 | | 4.656 | 19.4 | 20.6 | 40.0 | 46.0 | -6.0 |
| 4.256 | 19.3 | 20.6 | 39.9 | 56.0 | -16.1 | | 4.256 | 19.3 | 20.6 | 39.9 | 46.0 | -6.1 |
| 2.376 | 19.1 | 20.6 | 39.7 | 56.0 | -16.3 | | 2.376 | 19.1 | 20.6 | 39.7 | 46.0 | -6.3 |
| 4.920 | 19.0 | 20.6 | 39.6 | 56.0 | -16.4 | | 4.920 | 19.0 | 20.6 | 39.6 | 46.0 | -6.4 |
| 2.488 | 19.0 | 20.6 | 39.6 | 56.0 | -16.4 | | 2.488 | 19.0 | 20.6 | 39.6 | 46.0 | -6.4 |
| 4.120 | 18.9 | 20.6 | 39.5 | 56.0 | -16.5 | | 4.120 | 18.9 | 20.6 | 39.5 | 46.0 | -6.5 |
| 3.656 | 18.9 | 20.6 | 39.5 | 56.0 | -16.5 | | 3.656 | 18.9 | 20.6 | 39.5 | 46.0 | -6.5 |
| 3.784 | 18.8 | 20.6 | 39.4 | 56.0 | -16.6 | | 3.784 | 18.8 | 20.6 | 39.4 | 46.0 | -6.6 |
| 3.408 | 18.8 | 20.6 | 39.4 | 56.0 | -16.6 | | 3.408 | 18.8 | 20.6 | 39.4 | 46.0 | -6.6 |
| 4.864 | 18.7 | 20.6 | 39.3 | 56.0 | -16.7 | | 4.864 | 18.7 | 20.6 | 39.3 | 46.0 | -6.7 |
| 4.784 | 18.7 | 20.6 | 39.3 | 56.0 | -16.7 | | 4.784 | 18.7 | 20.6 | 39.3 | 46.0 | -6.7 |
| 4.328 | 18.7 | 20.6 | 39.3 | 56.0 | -16.7 | | 4.328 | 18.7 | 20.6 | 39.3 | 46.0 | -6.7 |
| 3.584 | 18.7 | 20.6 | 39.3 | 56.0 | -16.7 | | 3.584 | 18.7 | 20.6 | 39.3 | 46.0 | -6.7 |
| 2.240 | 18.7 | 20.6 | 39.3 | 56.0 | -16.7 | | 2.240 | 18.7 | 20.6 | 39.3 | 46.0 | -6.7 |
| 4.984 | 18.5 | 20.7 | 39.2 | 56.0 | -16.8 | | 4.984 | 18.5 | 20.7 | 39.2 | 46.0 | -6.8 |
| 3.720 | 18.5 | 20.6 | 39.1 | 56.0 | -16.9 | | 3.720 | 18.5 | 20.6 | 39.1 | 46.0 | -6.9 |
| 3.504 | 18.5 | 20.6 | 39.1 | 56.0 | -16.9 | | 3.504 | 18.5 | 20.6 | 39.1 | 46.0 | -6.9 |
| 3.528 | 18.4 | 20.6 | 39.0 | 56.0 | -17.0 | | 3.528 | 18.4 | 20.6 | 39.0 | 46.0 | -7.0 |
| 4.400 | 18.3 | 20.6 | 38.9 | 56.0 | -17.1 | | 4.400 | 18.3 | 20.6 | 38.9 | 46.0 | -7.1 |

0.10

MHz

Peak Data - vs - Average Limit



Average Data - vs - Average Limit

Adjusted

(dBuV)

27.0

26.6

25.9

25.8

25.0

Factor

(dB)

20.6

20.6

20.6

20.6

20.6

Amplitude

(dBuV)

6.4

6.0

5.3

5.2

4.4

Freq

(MHz)

4.916

4.652

4.456

3.656

4.820

Compared to Spec.

(dB)

-19.0

-19.4

-20.1

-20.2

-21.0

Spec. Limit

(dBuV)

46.0

46.0

46.0

46.0

46.0

Quasi Peak Data - vs - Quasi Peak Limit

(dB)

20.6

20.6

20.6

20.6

20.6

Adjusted

(dBuV)

38.5

38.4

38.0

37.9

36.5

Amplitude

(dBuV)

17.9

17.8

17.4

17.3

15.9

Freq

(MHz)

4.916

4.820

4.652

4.320

4.456

3.656

Compared to Spec.

(dB)

-17.5

-17.6

-18.0

-18.1

-18.7

-19.5

Spec. Limit

(dBuV)

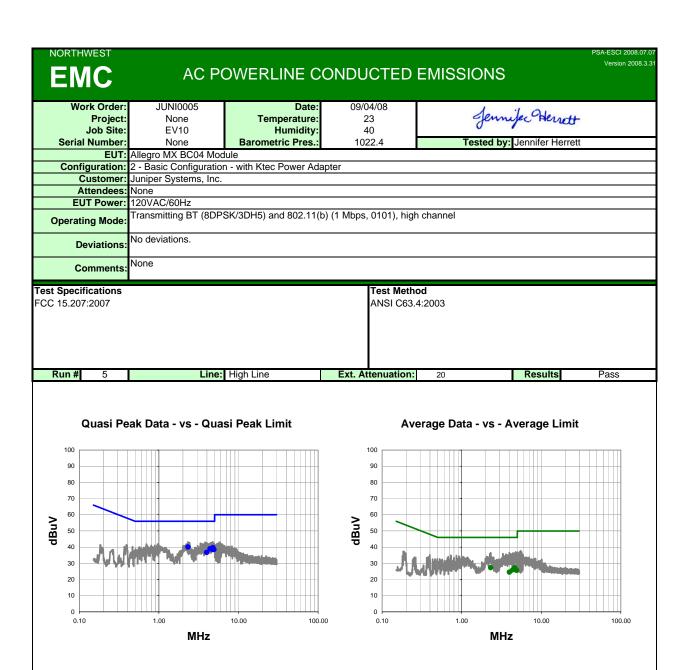
56.0

56.0

56.0

56.0

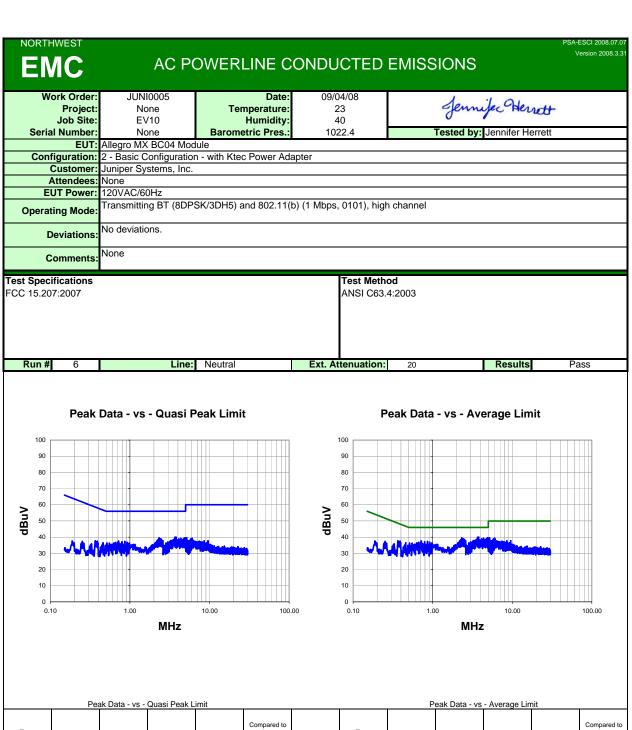
56.0



Quasi Peak Data - vs - Quasi Peak Limit

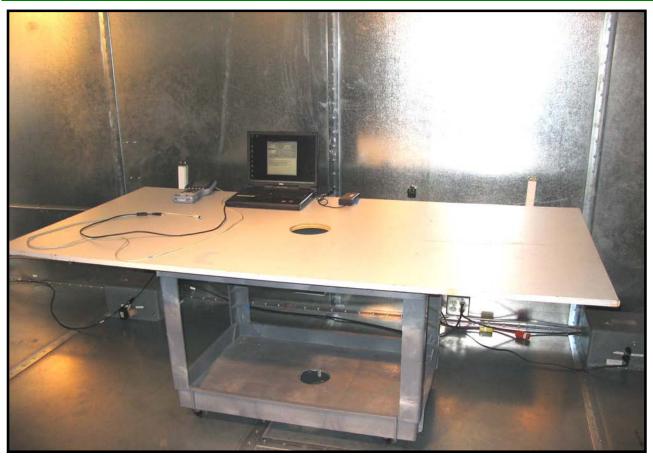
Average Data - vs - Average Limit

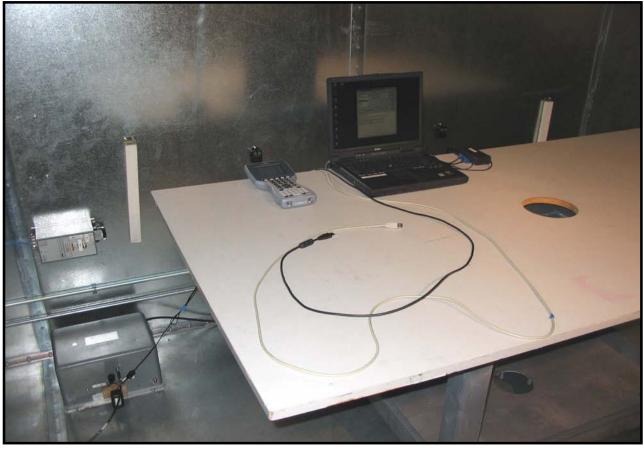
| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) | Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|---------------|---------------------|----------------|--------------------|-----------------------|------------------------------|---------------|---------------------|----------------|--------------------|-----------------------|------------------------------|
| 2.324 | 19.5 | 20.6 | 40.1 | 56.0 | -15.9 | 2.324 | 6.7 | 20.6 | 27.3 | 46.0 | -18.7 |
| 4.780 | 19.0 | 20.6 | 39.6 | 56.0 | -16.4 | 4.644 | 6.6 | 20.6 | 27.2 | 46.0 | -18.8 |
| 4.384 | 18.3 | 20.6 | 38.9 | 56.0 | -17.1 | 4.780 | 5.5 | 20.6 | 26.1 | 46.0 | -19.9 |
| 4.644 | 18.0 | 20.6 | 38.6 | 56.0 | -17.4 | 4.384 | 5.3 | 20.6 | 25.9 | 46.0 | -20.1 |
| 4.920 | 17.8 | 20.6 | 38.4 | 56.0 | -17.6 | 4.920 | 5.0 | 20.6 | 25.6 | 46.0 | -20.4 |
| 3.988 | 16.1 | 20.6 | 36.7 | 56.0 | -19.3 | 3.988 | 3.9 | 20.6 | 24.5 | 46.0 | -21.5 |



| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) | Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|---------------|---------------------|----------------|--------------------|-----------------------|------------------------------|---------------|---------------------|----------------|--------------------|-----------------------|------------------------------|
| 3.784 | 19.4 | 20.6 | 40.0 | 56.0 | -16.0 | 3.784 | 19.4 | 20.6 | 40.0 | 46.0 | -6.0 |
| 3.672 | 19.3 | 20.6 | 39.9 | 56.0 | -16.1 | 3.672 | 19.3 | 20.6 | 39.9 | 46.0 | -6.1 |
| 2.320 | 19.0 | 20.6 | 39.6 | 56.0 | -16.4 | 2.320 | 19.0 | 20.6 | 39.6 | 46.0 | -6.4 |
| 4.912 | 18.9 | 20.6 | 39.5 | 56.0 | -16.5 | 4.912 | 18.9 | 20.6 | 39.5 | 46.0 | -6.5 |
| 3.736 | 18.8 | 20.6 | 39.4 | 56.0 | -16.6 | 3.736 | 18.8 | 20.6 | 39.4 | 46.0 | -6.6 |
| 4.344 | 18.6 | 20.6 | 39.2 | 56.0 | -16.8 | 4.344 | 18.6 | 20.6 | 39.2 | 46.0 | -6.8 |
| 4.720 | 18.5 | 20.6 | 39.1 | 56.0 | -16.9 | 4.720 | 18.5 | 20.6 | 39.1 | 46.0 | -6.9 |
| 2.432 | 18.4 | 20.6 | 39.0 | 56.0 | -17.0 | 2.432 | 18.4 | 20.6 | 39.0 | 46.0 | -7.0 |
| 4.784 | 18.3 | 20.6 | 38.9 | 56.0 | -17.1 | 4.784 | 18.3 | 20.6 | 38.9 | 46.0 | -7.1 |
| 4.112 | 18.3 | 20.6 | 38.9 | 56.0 | -17.1 | 4.112 | 18.3 | 20.6 | 38.9 | 46.0 | -7.1 |
| 2.464 | 18.3 | 20.6 | 38.9 | 56.0 | -17.1 | 2.464 | 18.3 | 20.6 | 38.9 | 46.0 | -7.1 |
| 4.384 | 18.1 | 20.6 | 38.7 | 56.0 | -17.3 | 4.384 | 18.1 | 20.6 | 38.7 | 46.0 | -7.3 |
| 3.544 | 18.0 | 20.6 | 38.6 | 56.0 | -17.4 | 3.544 | 18.0 | 20.6 | 38.6 | 46.0 | -7.4 |
| 2.264 | 18.0 | 20.6 | 38.6 | 56.0 | -17.4 | 2.264 | 18.0 | 20.6 | 38.6 | 46.0 | -7.4 |
| 4.656 | 17.9 | 20.6 | 38.5 | 56.0 | -17.5 | 4.656 | 17.9 | 20.6 | 38.5 | 46.0 | -7.5 |
| 4.984 | 17.8 | 20.7 | 38.5 | 56.0 | -17.5 | 4.984 | 17.8 | 20.7 | 38.5 | 46.0 | -7.5 |
| 4.512 | 17.8 | 20.6 | 38.4 | 56.0 | -17.6 | 4.512 | 17.8 | 20.6 | 38.4 | 46.0 | -7.6 |
| 4.048 | 17.7 | 20.6 | 38.3 | 56.0 | -17.7 | 4.048 | 17.7 | 20.6 | 38.3 | 46.0 | -7.7 |
| 3.856 | 17.7 | 20.6 | 38.3 | 56.0 | -17.7 | 3.856 | 17.7 | 20.6 | 38.3 | 46.0 | -7.7 |
| 2.520 | 17.6 | 20.6 | 38.2 | 56.0 | -17.8 | 2.520 | 17.6 | 20.6 | 38.2 | 46.0 | -7.8 |

AC Powerline Conducted Emissions





AC Powerline Conducted Emissions





AC POWERLINE CONDUCTED EMISSIONS

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

Transmitting BT (8DPSK/3DT5) and 802.11(b) (1Mbps, 0101), low channel

Transmitting BT (8DPSK/3DT5) and 802.11(b) (1Mbps, 0101), high channel

Transmitting BT (8DPSK/3DT5) and 802.11(b) (1Mbps, 0101), mid channel

POWER SETTINGS INVESTIGATED

120VAC/60Hz

CONFIGURATIONS INVESTIGATED

13

SAMPLE CALCULATIONS

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

| TEST EQUIPMENT | | | | | |
|------------------|-----------------|------------------|-----|-----------|----------|
| Description | Manufacturer | Model | ID | Last Cal. | Interval |
| Receiver | Rohde & Schwarz | ESCI | ARG | 12/7/2007 | 13 mo |
| High Pass Filter | T.T.E. | 7766 | HFG | 2/5/2008 | 13 mo |
| EV07 Cables | | Conducted Cables | EVG | 5/2/2008 | 13 mo |
| Attenuator | Coaxicom | 66702 2910-20 | ATO | 6/30/2008 | 13 mo |
| LISN | Solar | 9252-50-R-24-BNC | LIR | 1/4/2008 | 13 mo |
| LISN | Solar | 9252-50-R-24-BNC | LIP | 1/4/2008 | 13 mo |

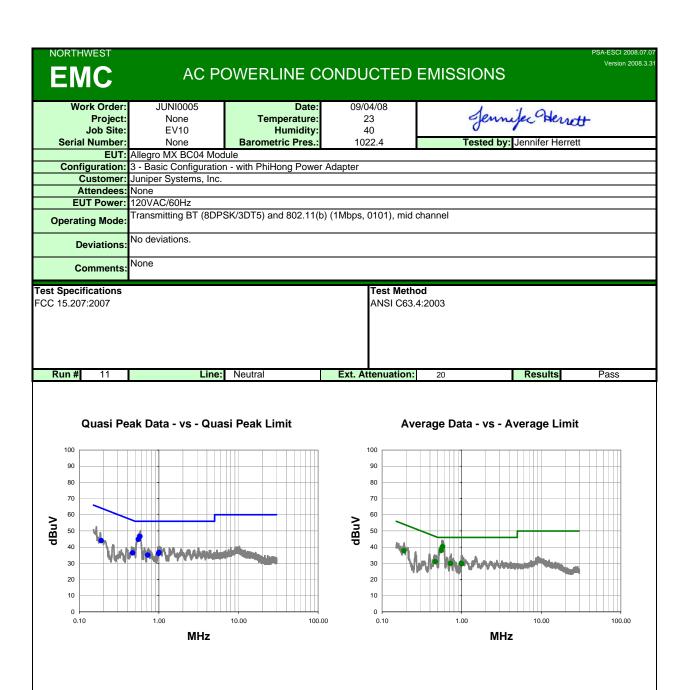
| MEASUREMENT BANDWIDTHS | | | | | | | | | | |
|------------------------|--|-----------|-----------------|--------------|--|--|--|--|--|--|
| | Frequency Range | Peak Data | Quasi-Peak Data | Average Data | | | | | | |
| | (MHz) | (kHz) | (kHz) | (kHz) | | | | | | |
| | 0.01 - 0.15 | 1.0 | 0.2 | 0.2 | | | | | | |
| | 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 | | | | | | |
| N | 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

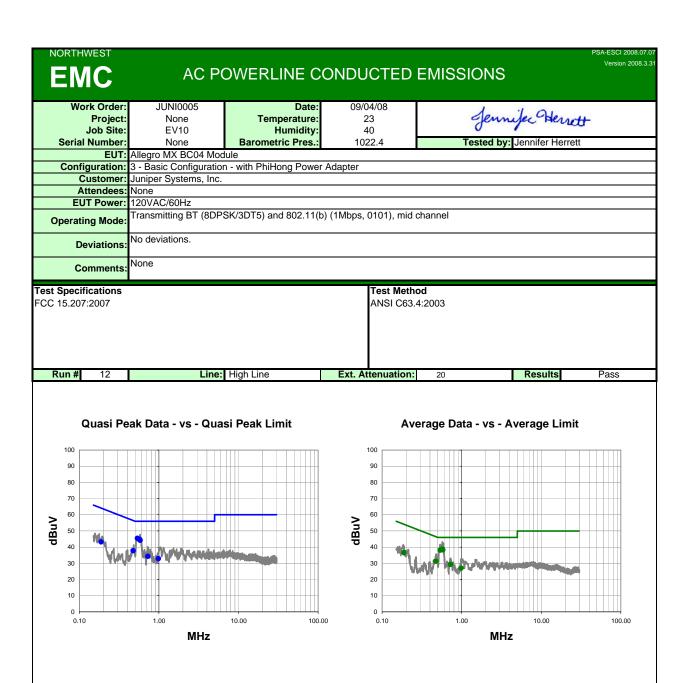
Using the mode of operation and configuration noted within this report, conducted emissions tests were performed. The frequency range investigated (scanned), is also noted in this report. Conducted power line measurements are made, unless otherwise specified, over the frequency range from 150 kHz to 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.



Quasi Peak Data - vs - Quasi Peak Limit

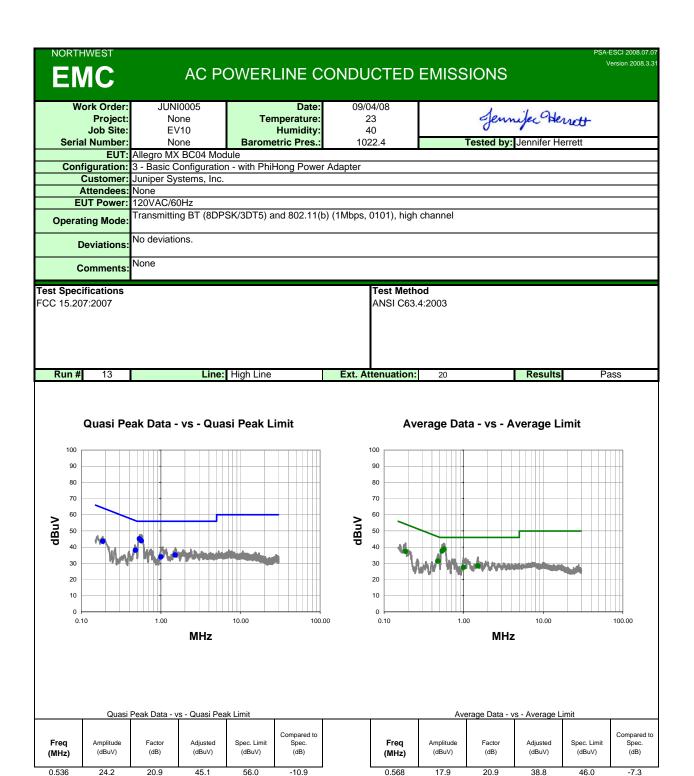
| Average | Data - vs - | Average Limit |
|---------|-------------|---------------|
| | | |

| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) | Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|---------------|---------------------|----------------|--------------------|-----------------------|------------------------------|---------------|---------------------|----------------|--------------------|-----------------------|------------------------------|
| 0.577 | 25.7 | 20.8 | 46.5 | 56.0 | -9.5 | 0.577 | 19.5 | 20.8 | 40.3 | 46.0 | -5.7 |
| 0.551 | 23.9 | 20.9 | 44.8 | 56.0 | -11.2 | 0.551 | 17.0 | 20.9 | 37.9 | 46.0 | -8.1 |
| 1.004 | 16.1 | 20.6 | 36.7 | 56.0 | -19.3 | 0.468 | 10.1 | 20.9 | 31.0 | 46.5 | -15.5 |
| 0.994 | 15.5 | 20.6 | 36.1 | 56.0 | -19.9 | 0.994 | 9.4 | 20.6 | 30.0 | 46.0 | -16.0 |
| 0.189 | 22.7 | 21.3 | 44.0 | 64.1 | -20.1 | 0.726 | 9.1 | 20.8 | 29.9 | 46.0 | -16.1 |
| 0.468 | 15.5 | 20.9 | 36.4 | 56.5 | -20.1 | 1.004 | 9.1 | 20.6 | 29.7 | 46.0 | -16.3 |
| 0.726 | 14.3 | 20.8 | 35.1 | 56.0 | -20.9 | 0.189 | 16.4 | 21.3 | 37.7 | 54.1 | -16.4 |



Quasi Peak Data - vs - Quasi Peak Limit Average Data - vs - Average Limit

| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) | | Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|---------------|---------------------|----------------|--------------------|-----------------------|------------------------------|---|---------------|---------------------|----------------|--------------------|-----------------------|------------------------------|
| 0.538 | 24.5 | 20.9 | 45.4 | 56.0 | -10.6 | • | 0.574 | 17.9 | 20.8 | 38.7 | 46.0 | -7.3 |
| 0.574 | 24.0 | 20.8 | 44.8 | 56.0 | -11.2 | | 0.582 | 17.4 | 20.8 | 38.2 | 46.0 | -7.8 |
| 0.582 | 23.4 | 20.8 | 44.2 | 56.0 | -11.8 | | 0.538 | 17.2 | 20.9 | 38.1 | 46.0 | -7.9 |
| 0.473 | 16.9 | 20.9 | 37.8 | 56.5 | -18.7 | | 0.473 | 10.4 | 20.9 | 31.3 | 46.5 | -15.2 |
| 0.188 | 21.9 | 21.3 | 43.2 | 64.1 | -20.9 | | 0.724 | 8.5 | 20.8 | 29.3 | 46.0 | -16.7 |
| 0.724 | 13.6 | 20.8 | 34.4 | 56.0 | -21.6 | | 0.188 | 15.3 | 21.3 | 36.6 | 54.1 | -17.5 |
| 0.984 | 12.2 | 20.6 | 32.8 | 56.0 | -23.2 | | 0.984 | 6.4 | 20.6 | 27.0 | 46.0 | -19.0 |



0.536

0.478

0.186

0.999

16.7

10.5

16.0

7.8

6.9

37.6

31.4

37.3

27.5

20.9

20.9

21.3

20.6

46.0

46.4

54.2

46.0

-8.4

-15.0

-16.9

-18.5

20.9

20.9

21.3

20.6

44.0

38.1

43.6

33.9

0.568

0.478

0.186

1.508

0.999

23.1

17.2

22.3

13.3

56.0

56.4

64.2

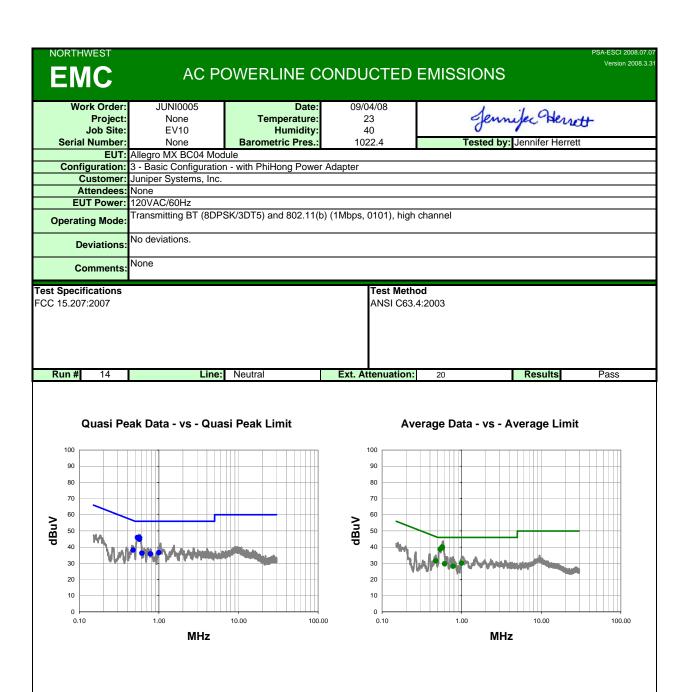
56.0

-12.1

-18.3

-20.6

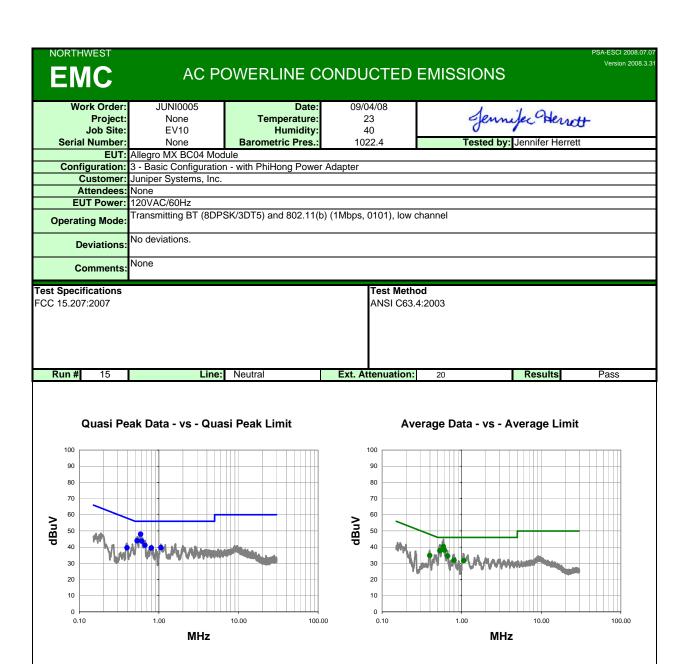
-22.1



Quasi Peak Data - vs - Quasi Peak Limit

| Average | Data - vs - | Average Limit |
|---------|-------------|---------------|
| | | |

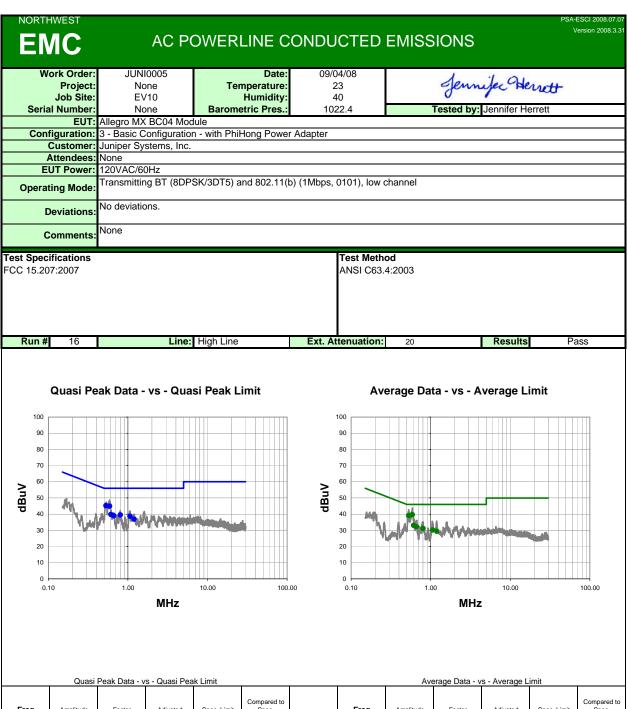
| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) | Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|---------------|---------------------|----------------|--------------------|-----------------------|------------------------------|---------------|---------------------|----------------|--------------------|-----------------------|------------------------------|
| 0.536 | 25.0 | 20.9 | 45.9 | 56.0 | -10.1 | 0.572 | 19.2 | 20.8 | 40.0 | 46.0 | -6.0 |
| 0.572 | 24.9 | 20.8 | 45.7 | 56.0 | -10.3 | 0.570 | 18.7 | 20.8 | 39.5 | 46.0 | -6.5 |
| 0.570 | 24.0 | 20.8 | 44.8 | 56.0 | -11.2 | 0.536 | 17.8 | 20.9 | 38.7 | 46.0 | -7.3 |
| 0.473 | 17.3 | 20.9 | 38.2 | 56.5 | -18.3 | 0.473 | 10.6 | 20.9 | 31.5 | 46.5 | -15.0 |
| 1.000 | 16.0 | 20.6 | 36.6 | 56.0 | -19.4 | 1.000 | 9.5 | 20.6 | 30.1 | 46.0 | -15.9 |
| 0.612 | 15.4 | 20.8 | 36.2 | 56.0 | -19.8 | 0.612 | 8.9 | 20.8 | 29.7 | 46.0 | -16.3 |
| 0.783 | 15.1 | 20.7 | 35.8 | 56.0 | -20.2 | 0.783 | 7.5 | 20.7 | 28.2 | 46.0 | -17.8 |



Quasi Peak Data - vs - Quasi Peak Limit

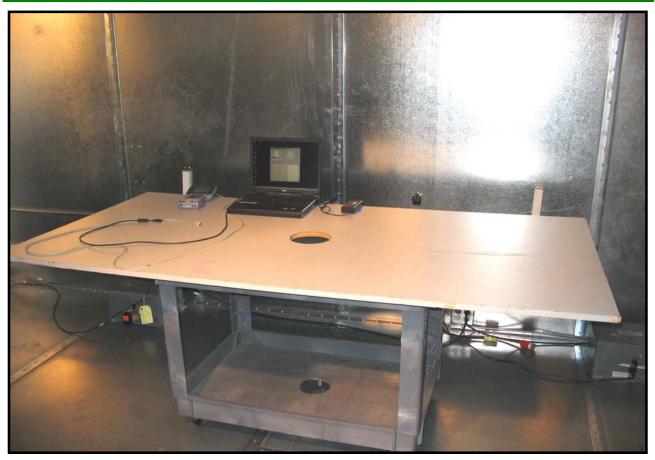
| Average | Data - vs - | Average Limit |
|---------|-------------|---------------|
| | | |

| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) | Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|---------------|---------------------|----------------|--------------------|-----------------------|------------------------------|---------------|---------------------|----------------|--------------------|-----------------------|------------------------------|
| 0.590 | 27.1 | 20.8 | 47.9 | 56.0 | -8.1 | 0.590 | 19.5 | 20.8 | 40.3 | 46.0 | -5.7 |
| 0.531 | 23.0 | 20.9 | 43.9 | 56.0 | -12.1 | 0.607 | 17.3 | 20.8 | 38.1 | 46.0 | -7.9 |
| 0.607 | 22.9 | 20.8 | 43.7 | 56.0 | -12.3 | 0.531 | 16.9 | 20.9 | 37.8 | 46.0 | -8.2 |
| 0.667 | 20.4 | 20.8 | 41.2 | 56.0 | -14.8 | 0.667 | 13.7 | 20.8 | 34.5 | 46.0 | -11.5 |
| 1.060 | 19.1 | 20.6 | 39.7 | 56.0 | -16.3 | 0.397 | 13.9 | 20.9 | 34.8 | 47.9 | -13.1 |
| 0.802 | 18.8 | 20.7 | 39.5 | 56.0 | -16.5 | 0.802 | 11.1 | 20.7 | 31.8 | 46.0 | -14.2 |
| 0.397 | 18.6 | 20.9 | 39.5 | 57.9 | -18.4 | 1.060 | 11.0 | 20.6 | 31.6 | 46.0 | -14.4 |



| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) | Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|---------------|---------------------|----------------|--------------------|-----------------------|------------------------------|---------------|---------------------|----------------|--------------------|-----------------------|------------------------------|
| 0.529 | 24.3 | 20.9 | 45.2 | 56.0 | -10.8 | 0.589 | 18.8 | 20.8 | 39.6 | 46.0 | -6.4 |
| 0.589 | 24.1 | 20.8 | 44.9 | 56.0 | -11.1 | 0.529 | 18.2 | 20.9 | 39.1 | 46.0 | -6.9 |
| 0.611 | 18.9 | 20.8 | 39.7 | 56.0 | -16.3 | 0.611 | 12.2 | 20.8 | 33.0 | 46.0 | -13.0 |
| 0.805 | 18.8 | 20.7 | 39.5 | 56.0 | -16.5 | 0.664 | 11.5 | 20.8 | 32.3 | 46.0 | -13.7 |
| 0.664 | 18.2 | 20.8 | 39.0 | 56.0 | -17.0 | 0.805 | 10.5 | 20.7 | 31.2 | 46.0 | -14.8 |
| 1.060 | 18.1 | 20.6 | 38.7 | 56.0 | -17.3 | 1.060 | 9.6 | 20.6 | 30.2 | 46.0 | -15.8 |
| 1.196 | 16.3 | 20.6 | 36.9 | 56.0 | -19.1 | 1.196 | 8.8 | 20.6 | 29.4 | 46.0 | -16.6 |

AC Powerline Conducted Emissions





AC Powerline Conducted Emissions

