

Report No.: SZEM141000572401

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FCC REPORT

Application No: SZEM1410005724RF

Applicant: Sky Light Imaging Limited **Manufacturer:** Sky Light Imaging Limited

Factory: Sky Light Electronic (ShenZhen) Limited

Product Name: Car Camcorder

Model No.(EUT): MPC03G

Add Model No.: MPC03, MPC03P, MPC03A, MPC03B, MPC03C

Trade Mark: MOTOR+

FCC ID: 2ABT4MPC03G

Standards: 47 CFR Part 15, Subpart C (2013)

Date of Receipt: 2014-10-21

Date of Test: 2014-10-22 to 2014-11-17

Date of Issue: 2014-11-21

Test Result: PASS *

. * In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Jack Zhang EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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2 Version

| Revision Record | | | | | | |
|-----------------|---------|------------|----------|----------|--|--|
| Version | Chapter | Date | Modifier | Remark | | |
| 00 | | 2014-11-21 | | Original | | |
| | | | | | | |
| | | | | | | |

| Authorized for issue by: | | |
|--------------------------|-------------------------------|------------|
| Tested By | Gren Zhou | 2014-11-17 |
| | (Owen Zhou) /Project Engineer | Date |
| Prepared By | Link Liang | 2014-11-21 |
| | (Link Liang) /Clerk | Date |
| Checked By | Emen-Li | 2014-12-01 |
| | (Emen Li) /Reviewer | Date |

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3 Test Summary

| Test Item | Test Requirement | Test method | Result |
|---|--|-------------------------|--------|
| Antenna Requirement | 47 CFR Part 15, Subpart C Section 15.203/15.247 (c) | ANSI C63.10 2009 | PASS |
| AC Power Line Conducted Emission | 47 CFR Part 15, Subpart C Section 15.207 | ANSI C63.10 2009 | PASS |
| Conducted Peak Output Power | 47 CFR Part 15, Subpart C Section 15.247 (b)(3) | KDB558074 D01 v03r02 | PASS |
| 6dB Occupied Bandwidth | 47 CFR Part 15, Subpart C Section 15.247 (a)(2) | KDB558074 D01 v03r02 | PASS |
| Power Spectral Density | 47 CFR Part 15, Subpart C Section 15.247 (e) | KDB558074 D01 v03r02 | PASS |
| Band-edge for RF Conducted Emissions | 47 CFR Part 15, Subpart C Section 15.247(d) | KDB558074 D01 v03r02 | PASS |
| RF Conducted Spurious Emissions | 47 CFR Part 15, Subpart C Section 15.247(d) | KDB558074 D01 v03r02 | PASS |
| Radiated Spurious Emissions | 47 CFR Part 15, Subpart C Section 15.205/15.209 | ANSI C63.10 2009 | PASS |
| Restricted bands around fundamental frequency (Radiated Emission) | 47 CFR Part 15, Subpart C Section 15.205/15.209 | ANSI C63.10 2009 | PASS |

Remark:

Model No.: MPC03G, MPC03, MPC03P, MPC03A, MPC03B, MPC03C

Only the Model MPC03G was tested, since the electrical circuit design, layout, components used and internalwiring were identical for all above models. Only different on appearance, model number and brand name.

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5 General Information

5.1 Client Information

| Applicant: | Sky Light Imaging Limited |
|--------------------------|---|
| Address of Applicant: | Rm. 1009 Kwong Sang Hong Centre, 151-153 Hoi Bun Road, Kwun Tong, Kowloon, Hong Kong |
| Manufacturer: | Sky Light Imaging Limited |
| Address of Manufacturer: | Rm. 1009 Kwong Sang Hong Centre, 151-153 Hoi Bun Road, Kwun Tong, Kowloon, Hong Kong |
| Factory: | Sky Light Electronic (ShenZhen) Limited |
| Address of Factory: | Floor 1-2 No.1 Building, No.5 and 6 Building, JinBi Industrial Area, HuangTian, BaoAn, Shenzhen, China. |

5.2 General Description of EUT

| - | |
|---------------------------------------|---|
| Product Name: | Car Camcorder |
| Model No.: | MPC03G, MPC03, MPC03P, MPC03A, MPC03B, MPC03C |
| Trade Mark: | MOTOR+ |
| Operation Frequency: | IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz |
| Channel Numbers: | IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels |
| Channel Separation: | 5MHz |
| Type of Modulation: | IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) |
| , , , , , , , , , , , , , , , , , , , | IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK) |
| | IEEE for 802.11n(HT20): OFDM (64QAM, 16QAM, |
| | QPSK,BPSK) |
| Sample Type: | Fixed production |
| Test Power Grade: | 15 (manufacturer declare) |
| Test Software of EUT: | art.exe (manufacturer declare) |
| Antenna Type and Gain: | Type: Integral |
| | Gain:-1.31dBi |
| Battery: | 185mAh Li-ion polymer |
| EUT power supply: | DC in |
| Test Voltage: | DC 12V~24V |
| DC IN Cable: | 500cm |
| USB Cable: | 100cm |

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| Operation Frequency each of channel(802.11b/g/n HT20) | | | | | | | |
|---|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 1 | 2412MHz | 4 | 2427MHz | 7 | 2442MHz | 10 | 2457MHz |
| 2 | 2417MHz | 5 | 2432MHz | 8 | 2447MHz | 11 | 2462MHz |
| 3 | 2422MHz | 6 | 2437MHz | 9 | 2452MHz | | |

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For 802.11b/g/n (HT20):

| Channel | Frequency |
|---------------------|-----------|
| The Lowest channel | 2412MHz |
| The Middle channel | 2437MHz |
| The Highest channel | 2462MHz |



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5.3 Test Environment and Mode

| Operating Environment: | Operating Environment: | | | | |
|------------------------|---|--|--|--|--|
| Temperature: | 25.0 °C | | | | |
| Humidity: | 50 % RH | | | | |
| Atmospheric Pressure: | 1010 mbar | | | | |
| Test mode: | | | | | |
| TX mode: | Keep the EUT transmitting with modulation | | | | |

5.4 Description of Support Units

The EUT has been tested independent unit.

5.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

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SGS-CSTC Standards Technical Services Ltd.

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5.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

VCCI

The 10m Semi-anechoic chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

• FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

• Industry Canada (IC)

Two 3m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1 & 4620C-2.

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.



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5.10 Equipment List

| | Conducted Emission | | | | | |
|------|---------------------------------------|--|---------------------|------------------|---------------------------|--|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Due date (yyyy-mm-dd) | |
| 1 | Shielding Room | ZhongYu Electron | GB-88 | SEL0042 | 2015-06-10 | |
| 2 | LISN | Rohde & Schwarz | ENV216 | SEL0152 | 2015-10-24 | |
| 3 | LISN | ETS-LINDGREN | 3816/2 | SEL0021 | 2015-05-16 | |
| 4 | 8 Line ISN | Fischer Custom Communications Inc. | FCC-TLISN- T8-02 | SEL0162 | 2015-08-30 | |
| 5 | 4 Line ISN | Fischer Custom Communications Inc. | FCC-TLISN- T4-02 | SEL0163 | 2015-08-30 | |
| 6 | 2 Line ISN | Fischer Custom Communications Inc. | FCC-TLISN- T2-02 | SEL0164 | 2015-08-30 | |
| 7 | EMI Test Receiver | Rohde & Schwarz | ESCI | SEL0022 | 2015-05-16 | |
| 8 | Coaxial Cable | SGS | N/A | SEL0025 | 2015-05-29 | |
| 9 | DC Power Supply | Zhao Xin | RXN-305D | SEL0117 | 2015-10-24 | |
| 10 | Humidity/ Temperature Indicator | Shanhai Qixiang | ZJ1-2B | SEL0103 | 2015-10-24 | |
| 11 | Barometer | Chang Chun | DYM3 | SEL0088 | 2015-05-16 | |



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| | RE in Chamber | | | | | | |
|------|------------------------------------|--|-----------|------------------|---------------------------|--|--|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Due date (yyyy-mm-dd) | | |
| 1 | 3m Semi-Anechoic Chamber | ETS-LINDGREN | N/A | SEL0017 | 2015-06-10 | | |
| 2 | EMI Test Receiver | Agilent Technologies | N9038A | SEL0312 | 2015-09-16 | | |
| 3 | EMI Test software | AUDIX | E3 | SEL0050 | N/A | | |
| 4 | BiConiLog Antenna (26-3000MHz) | ETS-LINDGREN | 3142C | SEL0015 | 2015-10-24 | | |
| 5 | Double-ridged horn (1-18GHz) | ETS-LINDGREN | 3117 | SEL0006 | 2015-10-24 | | |
| 6 | Horn Antenna (18-26GHz) | ETS-LINDGREN | 3160 | SEL0076 | 2015-10-24 | | |
| 7 | Pre-amplifier (0.1-1300MHz) | Agilent Technologies | 8447D | SEL0053 | 2015-05-16 | | |
| 8 | Pre-Amplifier (0.1-26.5GHz) | Compliance Directions Systems Inc. | PAP-0126 | SEL0168 | 2015-10-24 | | |
| 9 | Coaxial cable | SGS | N/A | SEL0027 | 2015-05-29 | | |
| 10 | Coaxial cable | SGS | N/A | SEL0189 | 2015-05-29 | | |
| 11 | Coaxial cable | SGS | N/A | SEL0121 | 2015-05-29 | | |
| 12 | Coaxial cable | SGS | N/A | SEL0178 | 2015-05-29 | | |
| 13 | Band filter | Amindeon | 82346 | SEL0094 | 2015-05-16 | | |
| 14 | Barometer | Chang Chun | DYM3 | SEL0088 | 2015-05-16 | | |
| 15 | DC Power Supply | Zhao Xin | RXN-305D | SEL0117 | 2015-10-24 | | |
| 16 | Humidity/ Temperature Indicator | Shanhai Qixiang | ZJ1-2B | SEL0103 | 2015-10-24 | | |
| 17 | Signal Generator (10M-27GHz) | Rohde & Schwarz | SMR27 | SEL0067 | 2015-05-16 | | |
| 18 | Signal Generator | Rohde & Schwarz | SMY01 | SEL0155 | 2015-10-24 | | |
| 19 | Loop Antenna | Beijing Daze | ZN30401 | SEL0203 | 2015-06-04 | | |

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| | RF connected test | | | | |
|------|---------------------------------------|-------------------------|-----------|------------------|---------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Due date (yyyy-mm-dd) |
| 1 | DC Power Supply | Zhao Xin | RXN-305D | SEL0117 | 2015-10-24 |
| 2 | Humidity/ Temperature Indicator | HYGRO | ZJ1-2B | SEL0033 | 2015-10-24 |
| 3 | Spectrum Analyzer | Rohde & Schwarz | FSP | SEL0154 | 2015-10-24 |
| 4 | Coaxial cable | SGS | N/A | SEL0178 | 2015-05-29 |
| 5 | Coaxial cable | SGS | N/A | SEL0179 | 2015-05-29 |
| 6 | Barometer | ChangChun | DYM3 | SEL0088 | 2015-05-16 |
| 7 | Signal Generator | Rohde & Schwarz | SML03 | SEL0068 | 2015-05-16 |
| 8 | Band filter | amideon | 82346 | SEL0094 | 2015-05-16 |
| 9 | POWER METER | R&S | NRVS | SEL0144 | 2015-10-24 |
| 10 | Attenuator | Beijin feihang taida | TST-2-6dB | SEL0205 | 2015-05-16 |
| 11 | Power Divider(splitter) | Agilent Technologies | 11636B | SEL0130 | 2015-10-24 |

Note: The calibration interval is one year, all the instruments are valid.



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6 Test results and Measurement Data

6.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

15.203 requirement:

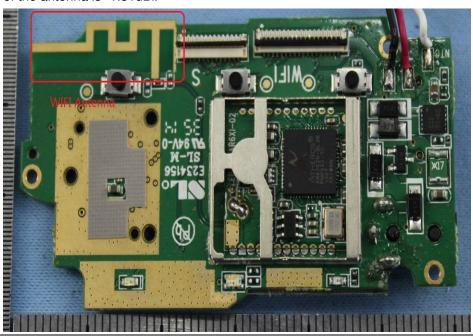
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -1.31dBi.



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6.2 Conducted Peak Output Power

| Test Requirement: | 47 CFR Part 15C Section 15.247 (b)(3) | |
|------------------------|---|--|
| Test Method: | KDB558074 D01 v03r02 | |
| Test Setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark: | |
| | Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer. | |
| Test Instruments: | Refer to section 5.10 for details | |
| Exploratory Test Mode: | Transmitting mode | |
| Final Test Mode: | Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; | |
| | 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20). | |
| Limit: | 30dBm | |
| Test Results: | Pass | |

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Measurement Data

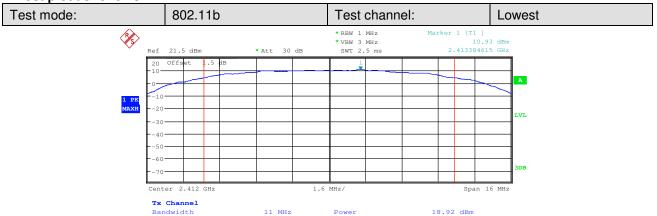
| 802.11b mode | | | |
|-------------------|-------------------------|-------------|--------|
| Test channel | Peak Output Power (dBm) | Limit (dBm) | Result |
| Lowest | 18.92 | 30.00 | Pass |
| Middle | 19.59 | 30.00 | Pass |
| Highest | 19.42 | 30.00 | Pass |
| | 802.11g mode | | |
| Test channel | Peak Output Power (dBm) | Limit (dBm) | Result |
| Lowest | 18.66 | 30.00 | Pass |
| Middle | 19.83 | 30.00 | Pass |
| Highest | 19.37 | 30.00 | Pass |
| 802.11n(HT20)mode | | | |
| Test channel | Peak Output Power (dBm) | Limit (dBm) | Result |
| Lowest | 17.26 | 30.00 | Pass |
| Middle | 17.24 | 30.00 | Pass |
| Highest | 16.71 | 30.00 | Pass |



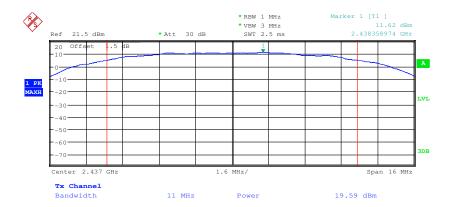
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Test plot as follows:







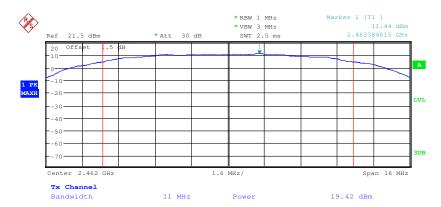
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Test mode: 802.11b Test channel: Highest

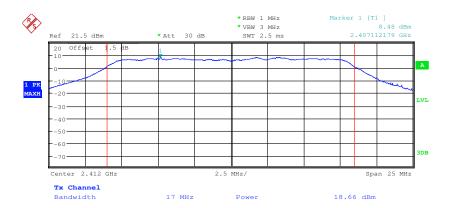




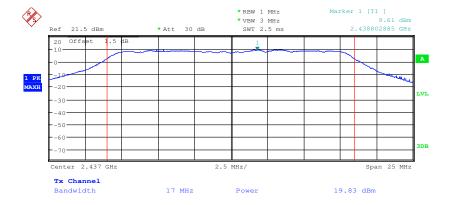
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Test mode: 802.11g Test channel: Lowest



Test mode: 802.11g Test channel: Middle



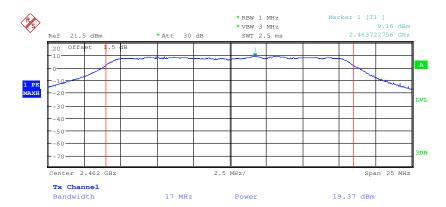
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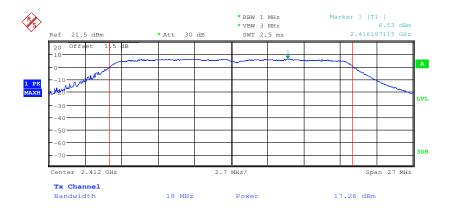
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Test mode: 802.11g Test channel: Highest







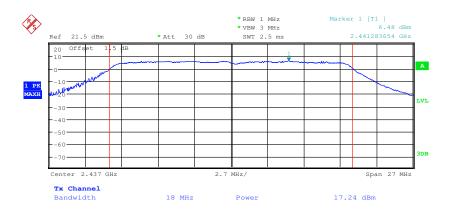
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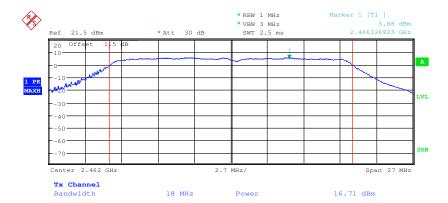
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Test mode: 802.11n(HT20) Test channel: Middle







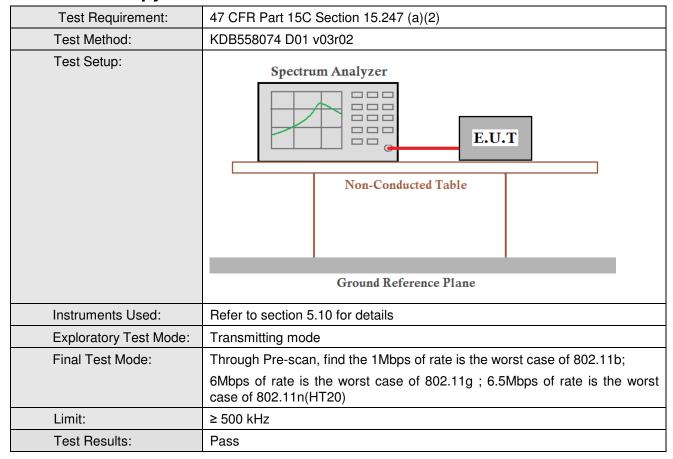
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6.3 6dB Occupy Bandwidth



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Measurement Data

| Measurement Data | | | |
|------------------|----------------------------|-------------|--------|
| 802.11b mode | | | |
| Test channel | 6dB Occupy Bandwidth (MHz) | Limit (kHz) | Result |
| Lowest | 10.048 | ≥500 | Pass |
| Middle | 10.000 | ≥500 | Pass |
| Highest | 10.048 | ≥500 | Pass |
| | 802.11g mode | | |
| Test channel | 6dB Occupy Bandwidth (MHz) | Limit (kHz) | Result |
| Lowest | 16.538 | ≥500 | Pass |
| Middle | 16.538 | ≥500 | Pass |
| Highest | 16.538 | ≥500 | Pass |
| | 802.11n(HT20) mode | | |
| Test channel | 6dB Occupy Bandwidth (MHz) | Limit (kHz) | Result |
| Lowest | 17.644 | ≥500 | Pass |
| Middle | 17.644 | ≥500 | Pass |
| Highest | 17.644 | ≥500 | Pass |



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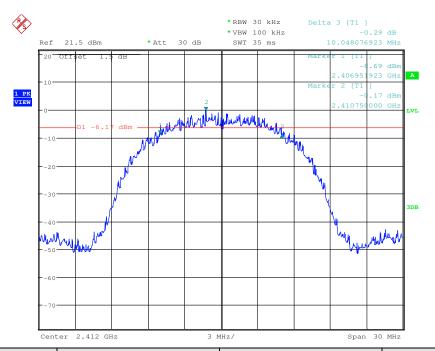


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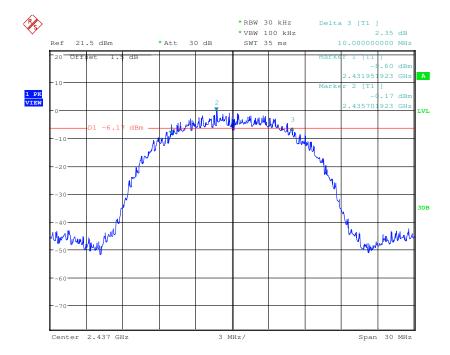
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Test plot as follows:





Test mode: 802.11b Test channel: Middle



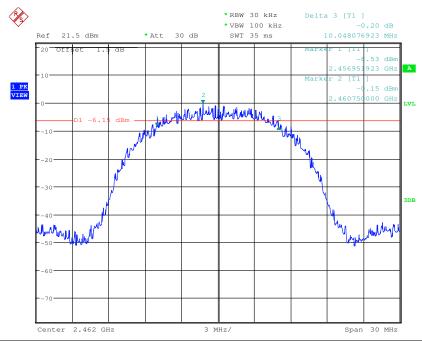
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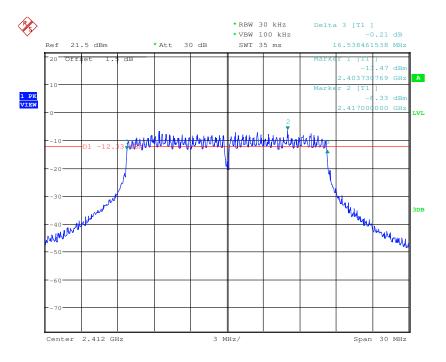
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Test mode: 802.11b Test channel: Highest



Test mode: 802.11g Test channel: Lowest



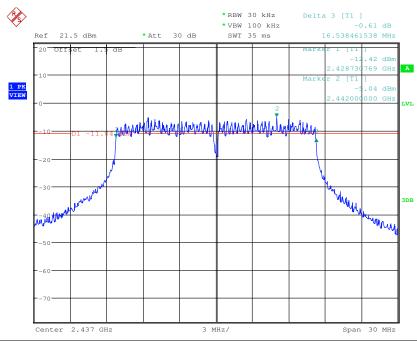
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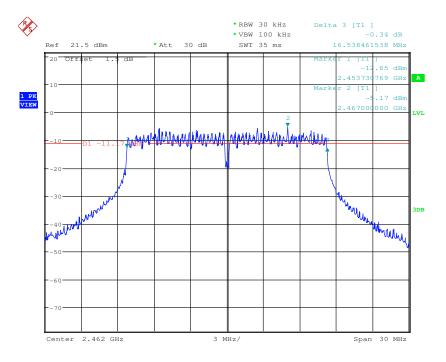
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Test mode: 802.11g Test channel: Middle







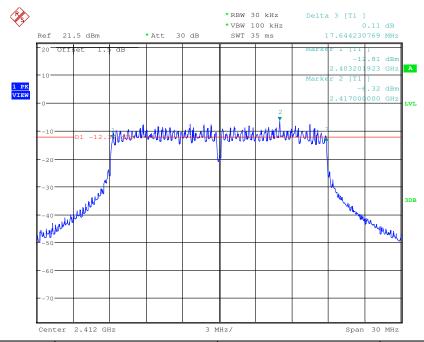
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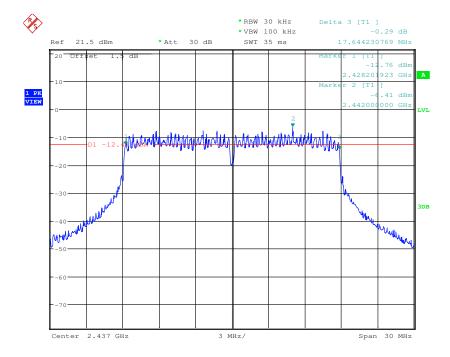
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Test mode: 802.11n(HT20) Test channel: Lowest



Test mode: 802.11n(HT20) Test channel: Middle



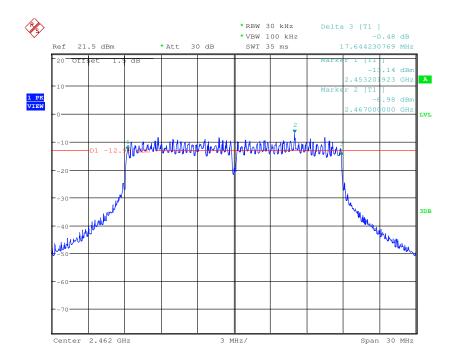
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Test mode: 802.11n(HT20) Test channel: Highest



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6.4 Power Spectral Density

| Test Requirement: | 47 CFR Part 15C Section 15.247 (e) | |
|------------------------|---|--|
| Test Method: | KDB558074 D01 v03r02 | |
| Test Setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark: | |
| | Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer. | |
| Test Instruments: | Refer to section 5.10 for details | |
| Exploratory Test Mode: | Transmitting mode | |
| Final Test Mode: | Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; | |
| | 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n (HT20) | |
| Limit: | ≤8.00dBm | |
| Test Results: | Pass | |

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Measurement Data

| Measurement Data | | | |
|------------------|------------------------------|-------------|--------|
| 802.11b mode | | | |
| Test channel | Power Spectral Density (dBm) | Limit (dBm) | Result |
| Lowest | -10.84 | ≤8.00 | Pass |
| Middle | -10.16 | ≤8.00 | Pass |
| Highest | -10.32 | ≤8.00 | Pass |
| | 802.11g mode | | |
| Test channel | Power Spectral Density (dBm) | Limit (dBm) | Result |
| Lowest | -15.94 | ≤8.00 | Pass |
| Middle | -15.27 | ≤8.00 | Pass |
| Highest | -15.95 | ≤8.00 | Pass |
| | 802.11n(HT20) mode | | |
| Test channel | Power Spectral Density (dBm) | Limit (dBm) | Result |
| Lowest | -17.27 | ≤8.00 | Pass |
| Middle | -16.21 | ≤8.00 | Pass |
| Highest | -16.90 | ≤8.00 | Pass |

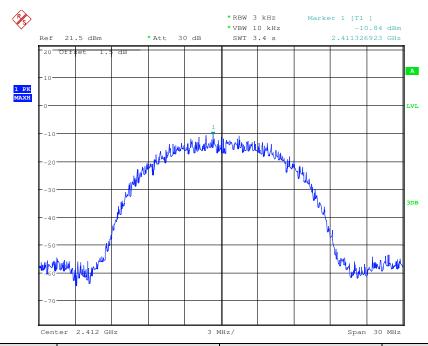


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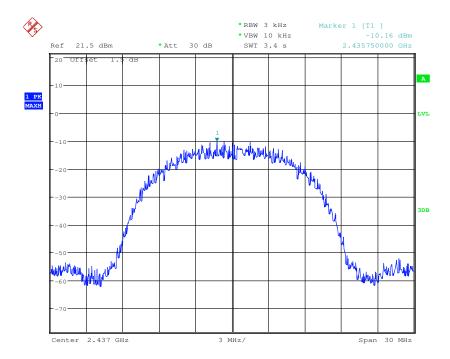
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



Test mode: 802.11b Test channel: Middle



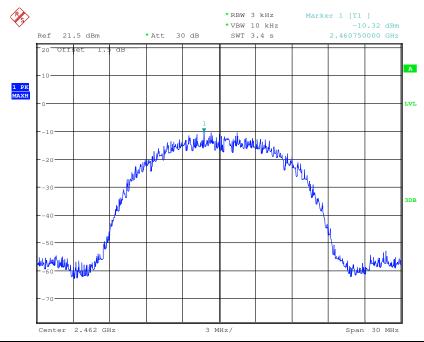
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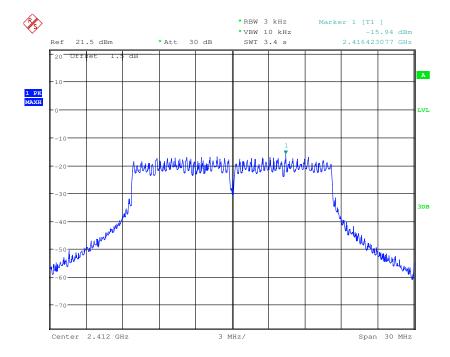
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Test mode: 802.11b Test channel: Highest



Test mode: 802.11g Test channel: Lowest



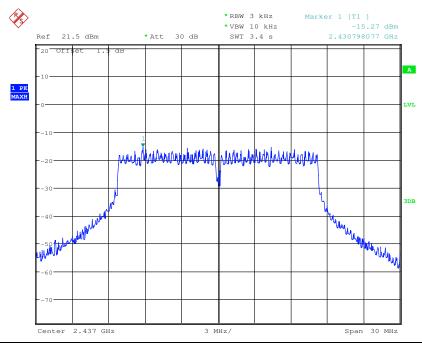
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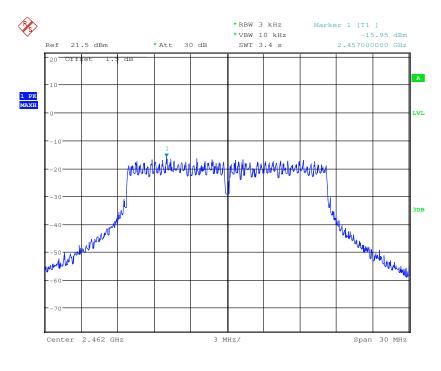
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Test mode: 802.11g Test channel: Middle



Test mode: 802.11g Test channel: Highest





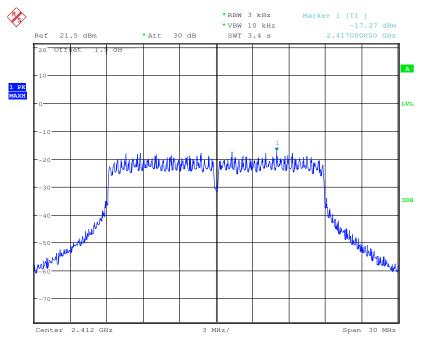
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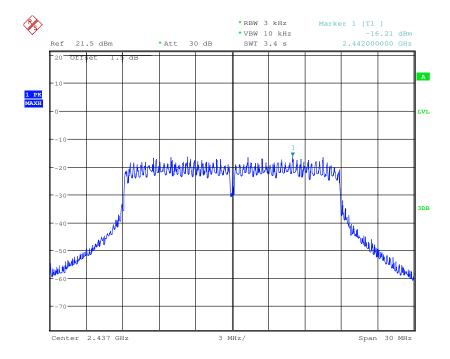
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Test mode: 802.11n(HT20) Test channel: Lowest



Test mode: 802.11n(HT20) Test channel: Middle



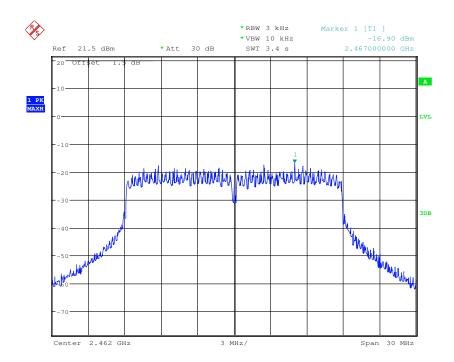
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Test mode: 802.11n(HT20) Test channel: Highest



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6.5 Band-edge for RF Conducted Emissions

| Test Requirement: | 47 CFR Part 15C Section 15.247 (d) | |
|------------------------|---|--|
| Test Method: | KDB558074 D01 v03r02 | |
| Test Setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer. | |
| Exploratory Test Mode: | Transmitting mode | |
| Final Test Mode: | Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; | |
| | 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20). | |
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. | |
| Instruments Used: | Refer to section 5.10 for details | |
| Test Results: | Pass | |

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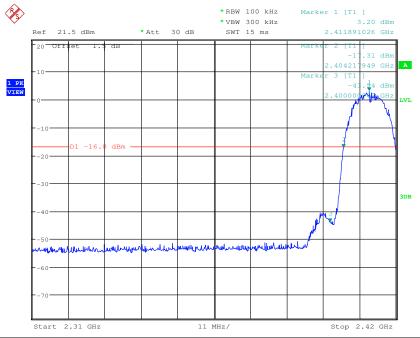


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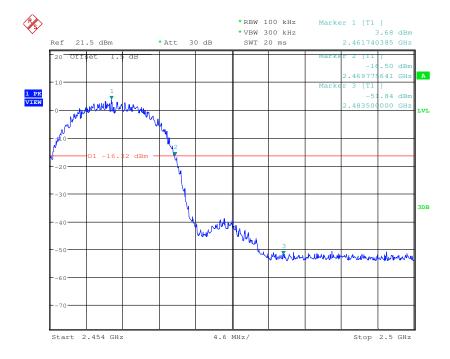
Page: 35 of 93

Test plot as follows:

Test mode: 802.11b Test channel: Lowest







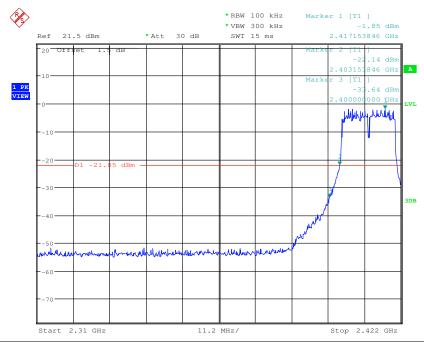
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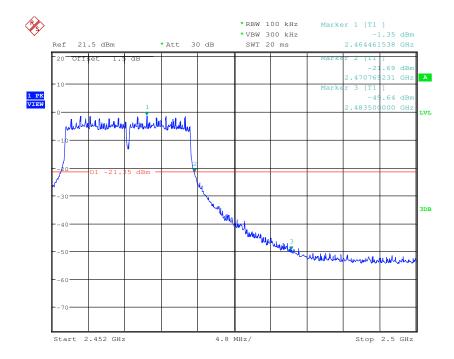
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Test mode: 802.11g Test channel: Lowest







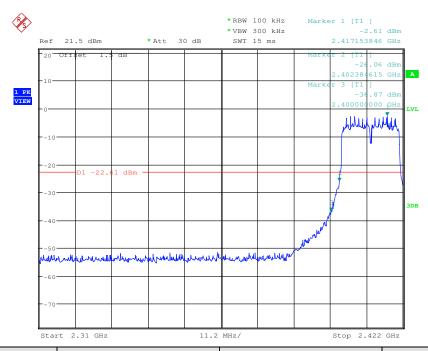
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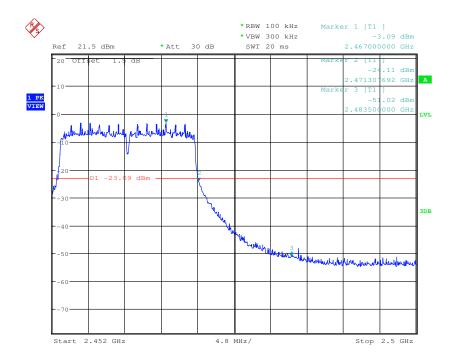
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Test mode: 802.11n(HT20) Test channel: Lowest



Test mode: 802.11n(HT20) Test channel: Highest



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6.6 RF Conducted Spurious Emissions

| Test Requirement: | 47 CFR Part 15C Section 15.247 (d) |
|------------------------|---|
| Test Method: | KDB558074 D01 v03r02 |
| Test Setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer. |
| Exploratory Test Mode: | Transmitting mode |
| Final Test Mode: | Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20) |
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. |
| Instruments Used: | Refer to section 5.10 for details |
| Test Results: | Pass |

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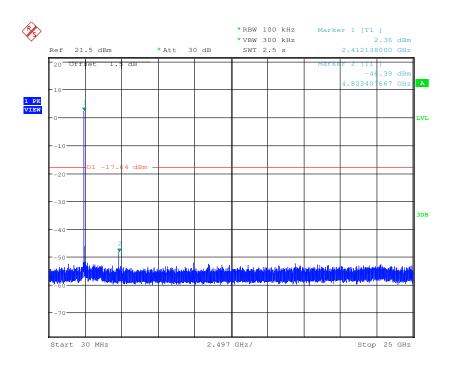


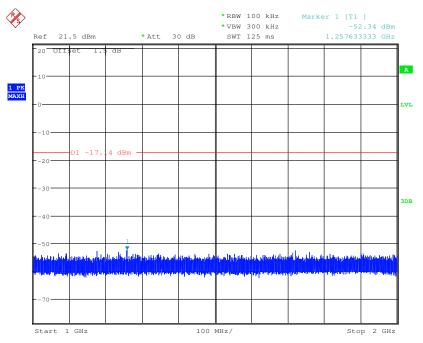
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



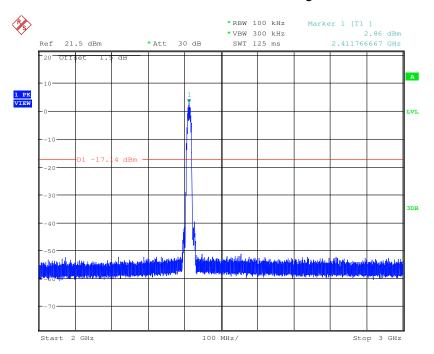


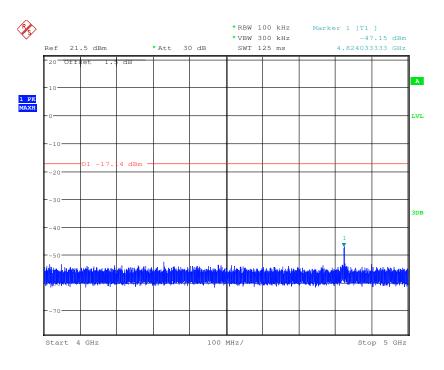
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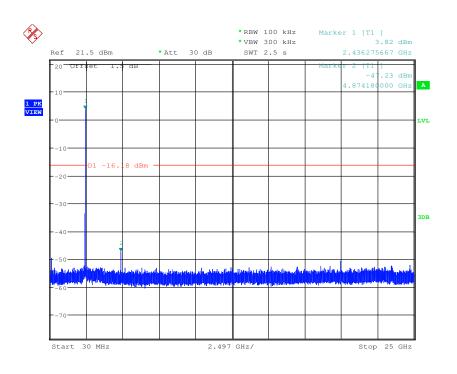
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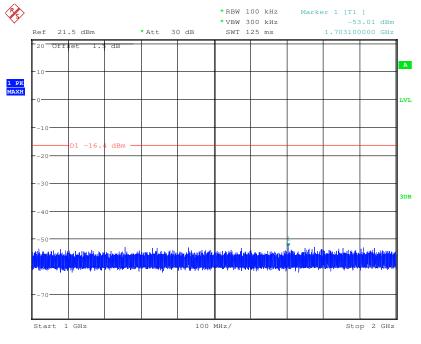


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Test mode: 802.11b Test channel: Middle





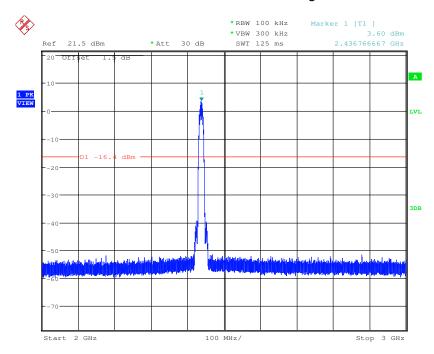


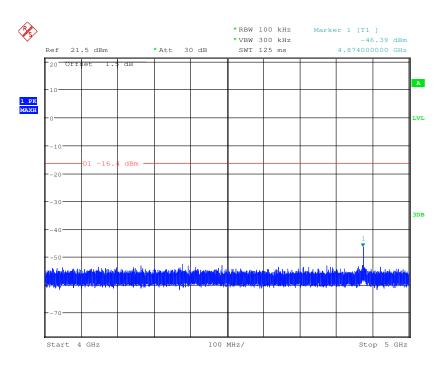
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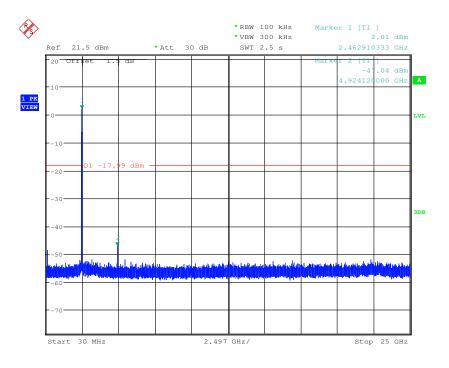
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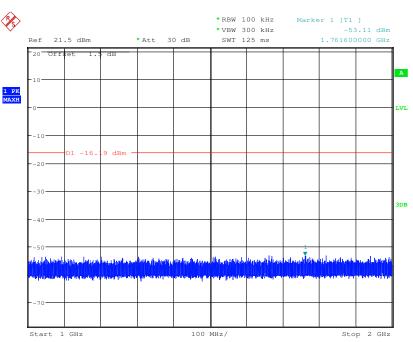


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Test mode: 802.11b Test channel: Highest



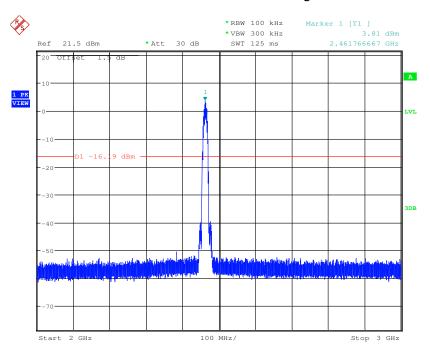


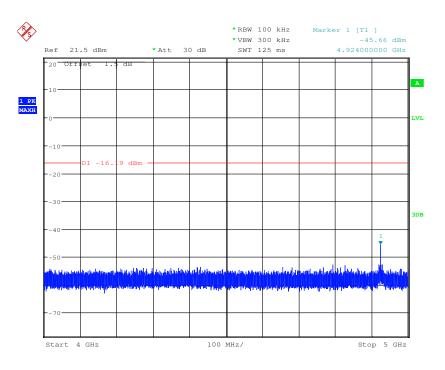
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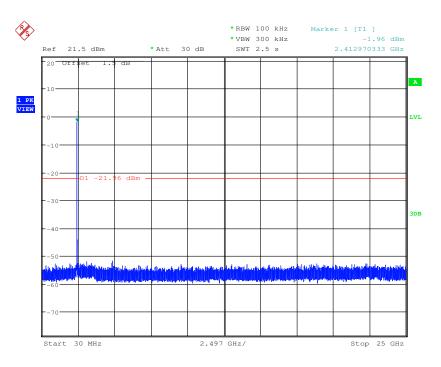
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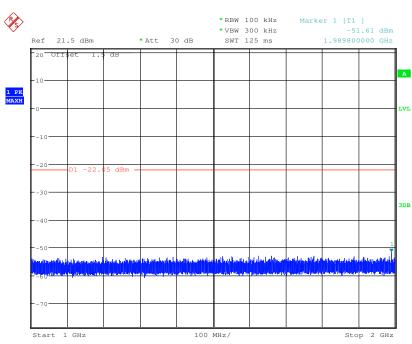


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Test mode: 802.11g Test channel: Lowest



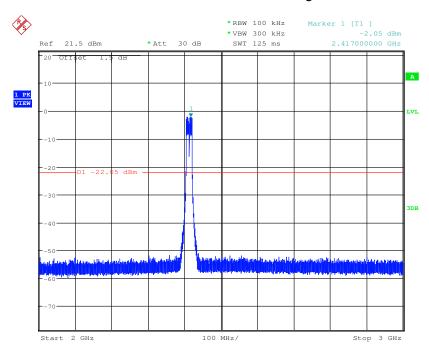


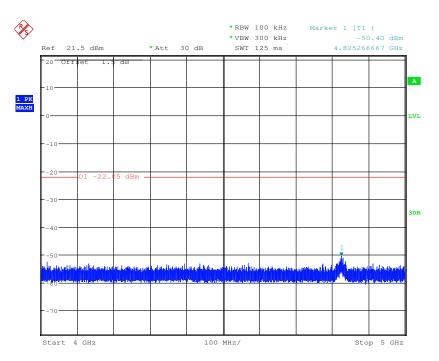
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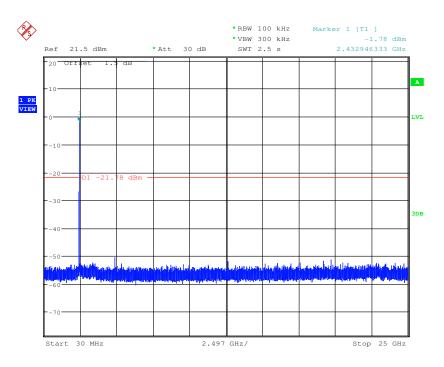
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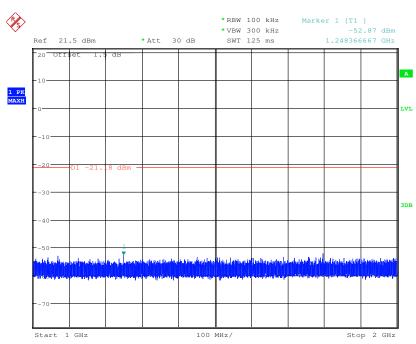


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Test mode: 802.11g Test channel: Middle



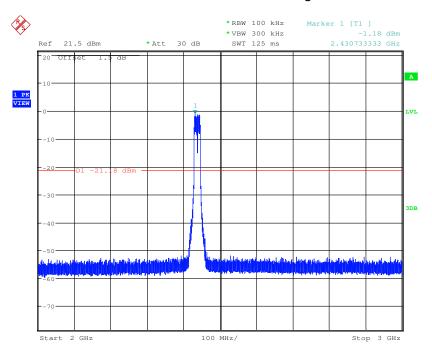


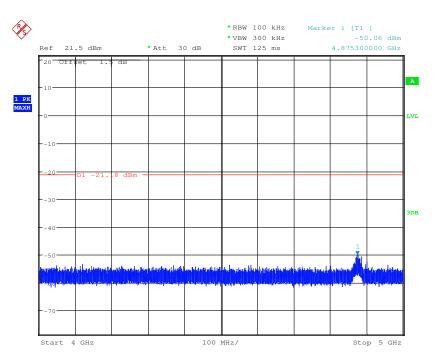
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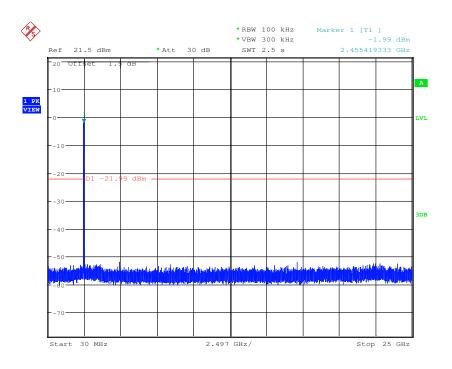
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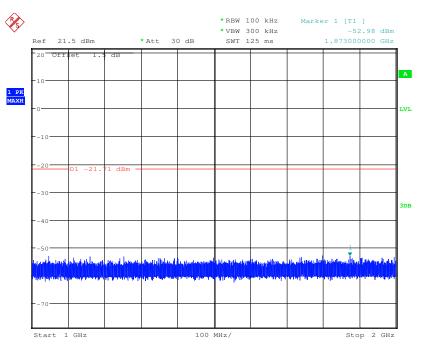


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Test mode: 802.11g Test channel: Highest



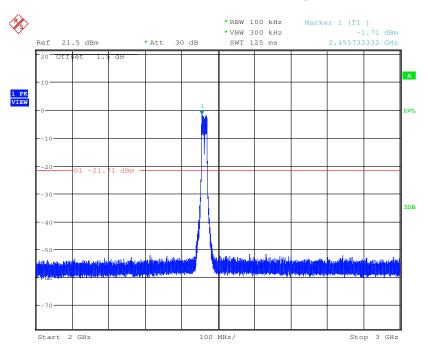


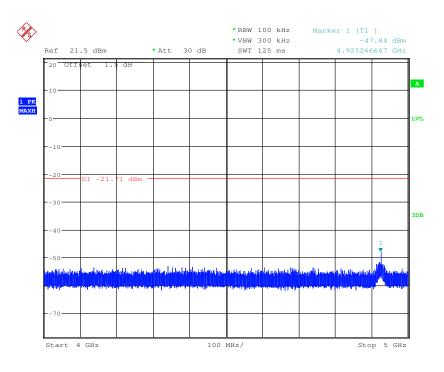
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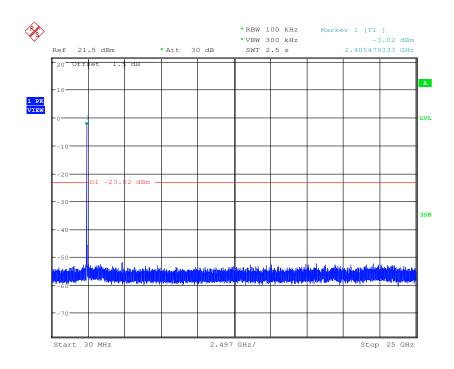
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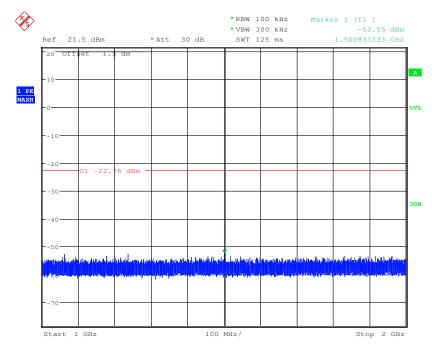


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Test mode: 802.11n(HT20) Test channel: Lowest





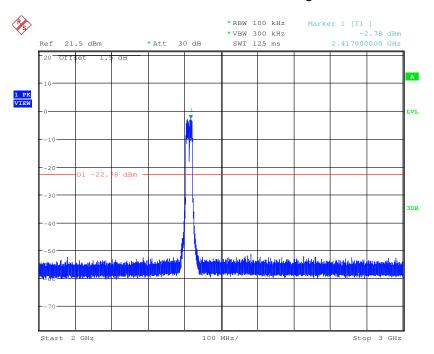


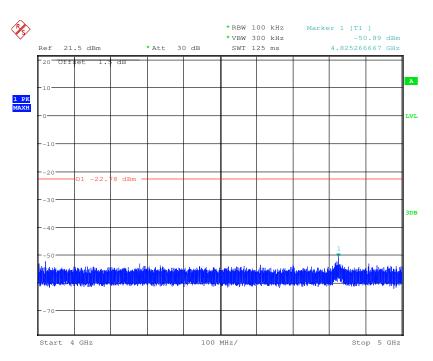
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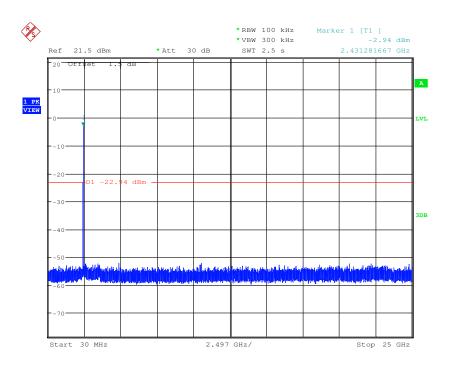
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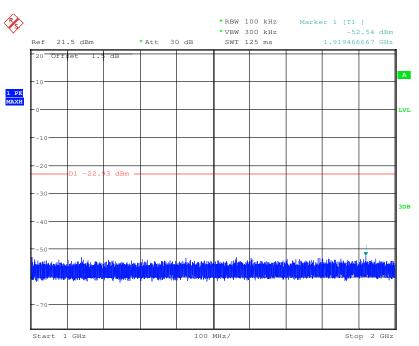


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Test mode: 802.11n(HT20) Test channel: Middle



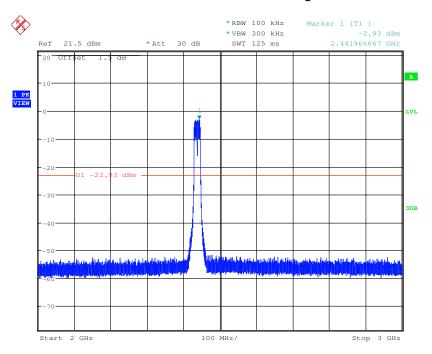


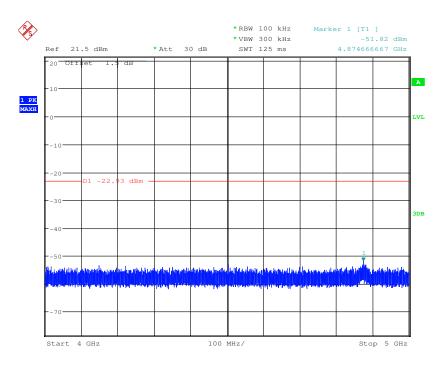
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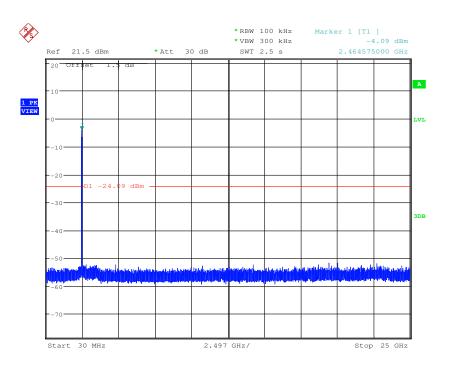
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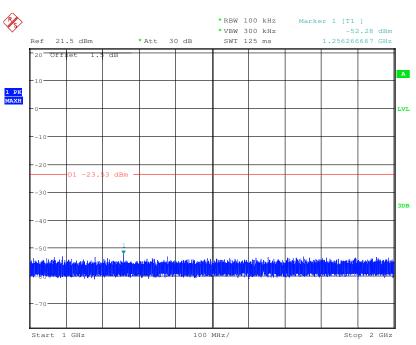


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Test mode: 802.11n(HT20) Test channel: Highest



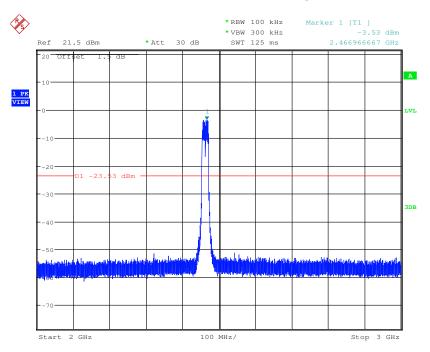


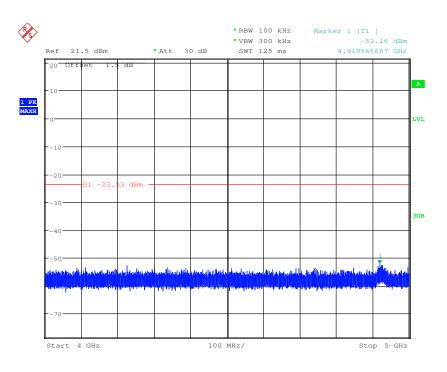
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Remark:

Pretest 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o) ,The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.



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6.7 Radiated Spurious Emissions

| Test Requirement: | 47 CFR Part 15C Section 15.209 and 15.205 | | | | | | | | |
|-------------------|---|----------------------------------|-------------------|------------|--------------------------|--|--|--|--|
| Test Method: | ANSI C63.10 2009 | | | | | | | | |
| Test Site: | Measurement Distance: 3m (Semi-Anechoic Chamber) | | | | | | | | |
| Receiver Setup: | Frequency | Detector | RBW | VBW | Remark | | | | |
| | 0.009MHz-0.090MHz | Peak | 10kHz | 30kHz | Peak | | | | |
| | 0.009MHz-0.090MHz | Average | 10kHz | 30kHz | Average | | | | |
| | 0.090MHz-0.110MHz | Quasi-peak | 10kHz | 30kHz | Quasi-peak | | | | |
| | 0.110MHz-0.490MHz | Peak | 10kHz | 30kHz | Peak | | | | |
| | 0.110MHz-0.490MHz | Average | 10kHz | 30kHz | Average | | | | |
| | 0.490MHz -30MHz | Quasi-peak | 10kHz | 30kHz | Quasi-peak | | | | |
| | 30MHz-1GHz | Quasi-peak | 100 kHz | 300kHz | Quasi-peak | | | | |
| | Above 1GHz | Peak | 1MHz | 3MHz | Peak | | | | |
| | Above IGHZ | Peak | 1MHz | 10Hz | Average | | | | |
| Limit: | Frequency | Field strength (microvolt/meter) | Limit (dBuV/m) | Remark | Measurement distance (m) | | | | |
| | 0.009MHz-0.490MHz | 2400/F(kHz) | - | - | 300 | | | | |
| | 0.490MHz-1.705MHz | 24000/F(kHz) | - | - | 30 | | | | |
| | 1.705MHz-30MHz | 30 | - | - | 30 | | | | |
| | 30MHz-88MHz | 100 | 40.0 | Quasi-peak | 3 | | | | |
| | 88MHz-216MHz | 150 | 43.5 | Quasi-peak | 3 | | | | |
| | 216MHz-960MHz | 200 | 46.0 | Quasi-peak | 3 | | | | |
| | 960MHz-1GHz | 500 | 54.0 | Quasi-peak | 3 | | | | |
| | Above 1GHz | 500 | 54.0 | Average | 3 | | | | |
| | Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device. | | | | | | | | |

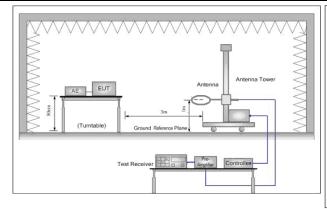
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Test Setup:



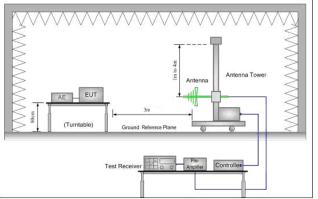


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

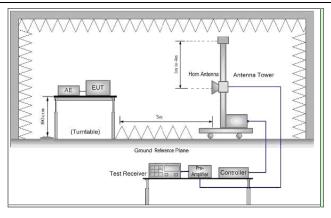


Figure 3. Above 1 GHz

Test Procedure:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average

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| | method as specified and then reported in a data sheet. | | | |
|------------------------|--|--|--|--|
| | g. Test the EUT in the lowest channel ,the middle channel ,the Highest channel | | | |
| | h. Repeat above procedures until all frequencies measured was complete. | | | |
| Exploratory Test Mode: | Transmitting mode | | | |
| Final Test Mode: | Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20). | | | |
| | And 1Mbps of rate is the worst case of 802.11b ,802.11g,802.11n(HT20) on 30MHz~1GHz Only the worst case is recorded in the report. | | | |
| Instruments Used: | Refer to section 5.10 for details | | | |
| Test Results: | Pass | | | |

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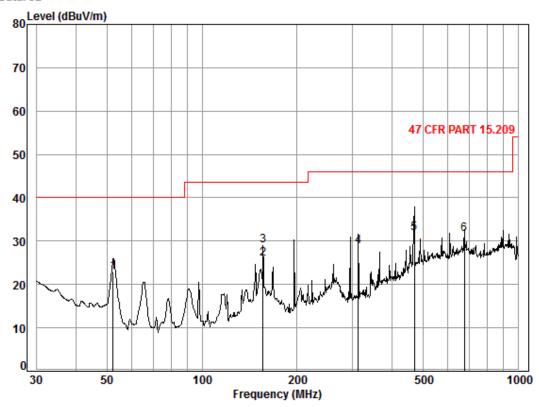
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6.7.1 Radiated emission below 1GHz

| 30MHz~1GHz (QP) | | |
|-----------------|--------------|----------|
| Test mode: | Transmitting | Vertical |





Condition: 47 CFR PART 15.209 3m 3142C Vertical

Job No. : 5724CR Test mode: TX mode

| | Freq | | | Preamp Factor | | | | Over Limit |
|---|--------|------|-------|------------------|-------|--------|--------|---------------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 52.39 | 0.80 | 8.34 | 27.28 | 41.09 | 22.95 | 40.00 | -17.05 |
| 2 | 155.91 | 1.33 | 9.35 | 26.88 | 42.24 | 26.04 | 43.50 | -17.46 |
| 3 | 155.91 | 1.33 | 9.35 | 26.88 | 45.24 | 29.04 | 43.50 | -14.46 |
| 4 | 312.18 | 1.94 | 14.34 | 26.50 | 38.93 | 28.71 | 46.00 | -17.29 |
| 5 | 468.88 | 2.49 | 17.58 | 27.54 | 39.32 | 31.85 | 46.00 | -14.15 |
| 6 | 675.21 | 2.85 | 21.40 | 27.44 | 34.82 | 31.63 | 46.00 | -14.37 |



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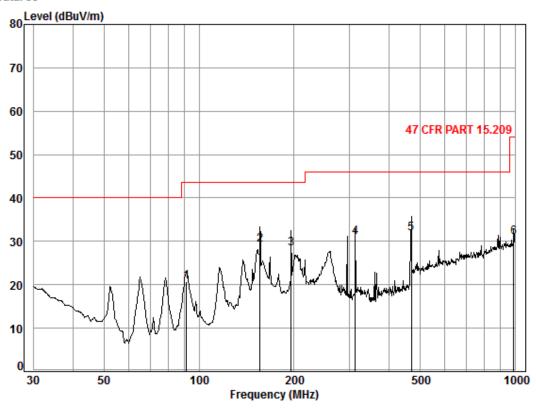


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| Test mode: | Transmitting | Horizontal |
|------------|--------------|------------|
|------------|--------------|------------|

Data: 53



Condition: 47 CFR PART 15.209 3m 3142C Horizontal

Job No. : 5724CR Test mode: TX mode

| | Frea | | | Preamp Factor | | | | Over |
|---|--------|------|--------|------------------|-------|--------|--------|--------|
| | rreq | LUSS | ractor | ractor | rever | rever | LINE | LIMITC |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 91.17 | 1.11 | 8.75 | 27.21 | 38.14 | 20.79 | 43.50 | -22.71 |
| 2 | 155.91 | 1.33 | 9.36 | 26.88 | 45.49 | 29.30 | 43.50 | -14.20 |
| 3 | 195.82 | 1.39 | 10.16 | 26.71 | 43.58 | 28.42 | 43.50 | -15.08 |
| 4 | 312.18 | 1.94 | 14.35 | 26.50 | 41.07 | 30.86 | 46.00 | -15.14 |
| 5 | 468.88 | 2.49 | 17.58 | 27.54 | 39.23 | 31.76 | 46.00 | -14.24 |
| 6 | 989.54 | 3.69 | 23.88 | 26.37 | 29.78 | 30.98 | 54.00 | -23.02 |

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6.7.2 Transmitter emission above 1GHz

| Test mode: | 802 | .11b | Test ch | annel: | Lowest | Remark | : | Peak |
|-----------------|-----------------------|-----------------------------|--------------------------|-------------------------|-------------------|------------------------|-----------------------|--------------|
| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 3855.338 | 6.77 | 33.25 | 38.89 | 44.73 | 45.86 | 74 | -28.14 | Vertical |
| 4824.000 | 6.46 | 34.72 | 39.24 | 45.95 | 47.89 | 74 | -26.11 | Vertical |
| 6220.550 | 8.03 | 36.05 | 39.16 | 47.03 | 51.95 | 74 | -22.05 | Vertical |
| 7236.000 | 8.96 | 35.60 | 39.06 | 45.95 | 51.45 | 74 | -22.55 | Vertical |
| 9648.000 | 9.97 | 37.45 | 37.91 | 43.11 | 52.62 | 74 | -21.38 | Vertical |
| 11708.900 | 10.48 | 38.41 | 38.57 | 43.50 | 53.82 | 74 | -20.18 | Vertical |
| 3773.328 | 6.81 | 33.13 | 38.86 | 46.07 | 47.15 | 74 | -26.85 | Horizontal |
| 4824.000 | 6.46 | 34.72 | 39.24 | 47.05 | 48.99 | 74 | -25.01 | Horizontal |
| 6310.358 | 8.01 | 35.94 | 39.15 | 46.77 | 51.57 | 74 | -22.43 | Horizontal |
| 7236.000 | 8.96 | 35.60 | 39.06 | 46.51 | 52.01 | 74 | -21.99 | Horizontal |
| 9648.000 | 9.97 | 37.45 | 37.91 | 43.33 | 52.84 | 74 | -21.16 | Horizontal |
| 12578.890 | 11.03 | 39.25 | 39.19 | 41.90 | 52.99 | 74 | -21.01 | Horizontal |

| Test mode: | 802 | .11b | Test ch | annel: | Middle | Remark | : | Peak |
|--------------------|-----------------------|-----------------------------|--------------------------|-------------------------|-------------------|------------------------|-----------------------|--------------|
| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 3996.000 | 6.69 | 33.49 | 38.95 | 45.81 | 47.04 | 74 | -26.96 | Vertical |
| 4874.000 | 6.57 | 34.77 | 39.26 | 47.10 | 49.18 | 74 | -24.82 | Vertical |
| 6265.293 | 8.02 | 36.00 | 39.16 | 47.02 | 51.88 | 74 | -22.12 | Vertical |
| 7311.000 | 9.06 | 35.52 | 39.06 | 46.25 | 51.77 | 74 | -22.23 | Vertical |
| 9748.000 | 9.91 | 37.76 | 37.85 | 42.18 | 52.00 | 74 | -22.00 | Vertical |
| 12179.670 | 10.88 | 38.93 | 38.85 | 42.06 | 53.02 | 74 | -20.98 | Vertical |
| 3910.999 | 6.74 | 33.35 | 38.92 | 45.07 | 46.24 | 74 | -27.76 | Horizontal |
| 4874.000 | 6.57 | 34.77 | 39.26 | 46.09 | 48.17 | 74 | -25.83 | Horizontal |
| 6198.299 | 8.04 | 36.08 | 39.16 | 46.48 | 51.44 | 74 | -22.56 | Horizontal |
| 7311.000 | 9.06 | 35.52 | 39.06 | 46.00 | 51.52 | 74 | -22.48 | Horizontal |
| 9748.000 | 9.91 | 37.76 | 37.85 | 41.98 | 51.80 | 74 | -22.20 | Horizontal |
| 12578.890 | 11.03 | 39.25 | 39.19 | 42.00 | 53.09 | 74 | -20.91 | Horizontal |

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| Test mode: | 802 | .11b | Test ch | annel: | Highest | Remark | : | Peak |
|-----------------|-----------------------|-----------------------------|--------------------------|-------------------------|-------------------|------------------------|-----------------------|--------------|
| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 3897.008 | 6.74 | 33.32 | 38.91 | 45.88 | 47.03 | 74 | -26.97 | Vertical |
| 4924.000 | 6.68 | 34.82 | 39.28 | 46.30 | 48.52 | 74 | -25.48 | Vertical |
| 6242.882 | 8.03 | 36.03 | 39.16 | 46.95 | 51.85 | 74 | -22.15 | Vertical |
| 7386.000 | 9.16 | 35.44 | 39.05 | 46.13 | 51.68 | 74 | -22.32 | Vertical |
| 9848.000 | 9.85 | 38.06 | 37.79 | 41.84 | 51.96 | 74 | -22.04 | Vertical |
| 12444.380 | 11.28 | 39.21 | 39.07 | 41.88 | 53.30 | 74 | -20.70 | Vertical |
| 4010.345 | 6.67 | 33.53 | 38.95 | 45.72 | 46.97 | 74 | -27.03 | Horizontal |
| 4924.000 | 6.68 | 34.82 | 39.28 | 46.83 | 49.05 | 74 | -24.95 | Horizontal |
| 6023.128 | 8.07 | 36.27 | 39.18 | 46.28 | 51.44 | 74 | -22.56 | Horizontal |
| 7386.000 | 9.16 | 35.44 | 39.05 | 46.40 | 51.95 | 74 | -22.05 | Horizontal |
| 9848.000 | 9.85 | 38.06 | 37.79 | 42.65 | 52.77 | 74 | -21.23 | Horizontal |
| 12489.060 | 11.34 | 39.22 | 39.11 | 42.13 | 53.58 | 74 | -20.42 | Horizontal |

| Test mode: | 802 | .11g | Test ch | annel: | Lowest | Remark | | Peak |
|-----------------|-----------------------|-----------------------------|--------------------------|-------------------------|-------------------|------------------------|-----------------------|--------------|
| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 3666.690 | 6.87 | 33.05 | 38.81 | 45.35 | 46.46 | 74 | -27.54 | Vertical |
| 4824.000 | 6.46 | 34.72 | 39.24 | 46.50 | 48.44 | 74 | -25.56 | Vertical |
| 5916.169 | 7.95 | 36.14 | 39.19 | 46.70 | 51.60 | 74 | -22.40 | Vertical |
| 7236.000 | 8.96 | 35.60 | 39.06 | 46.24 | 51.74 | 74 | -22.26 | Vertical |
| 9648.000 | 9.97 | 37.45 | 37.91 | 42.06 | 51.57 | 74 | -22.43 | Vertical |
| 12444.380 | 11.28 | 39.21 | 39.07 | 41.64 | 53.06 | 74 | -20.94 | Vertical |
| 3855.338 | 6.77 | 33.25 | 38.89 | 45.27 | 46.40 | 74 | -27.60 | Horizontal |
| 4824.000 | 6.46 | 34.72 | 39.24 | 45.86 | 47.80 | 74 | -26.20 | Horizontal |
| 6132.021 | 8.05 | 36.15 | 39.17 | 46.75 | 51.78 | 74 | -22.22 | Horizontal |
| 7236.000 | 8.96 | 35.60 | 39.06 | 45.81 | 51.31 | 74 | -22.69 | Horizontal |
| 9648.000 | 9.97 | 37.45 | 37.91 | 42.42 | 51.93 | 74 | -22.07 | Horizontal |
| 12399.870 | 11.21 | 39.20 | 39.04 | 42.14 | 53.51 | 74 | -20.49 | Horizontal |

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| Test mode: | 802 | .11g | Test ch | annel: | Middle | Remark | : | Peak |
|-----------------|-----------------------|-----------------------------|--------------------------|-------------------------|-------------------|------------------------|-----------------------|--------------|
| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 3897.008 | 6.74 | 33.32 | 38.91 | 45.46 | 46.61 | 74 | -27.39 | Vertical |
| 4874.000 | 6.57 | 34.77 | 39.26 | 46.45 | 48.53 | 74 | -25.47 | Vertical |
| 6088.229 | 8.06 | 36.20 | 39.17 | 46.71 | 51.80 | 74 | -22.20 | Vertical |
| 7311.000 | 9.06 | 35.52 | 39.06 | 46.13 | 51.65 | 74 | -22.35 | Vertical |
| 9748.000 | 9.91 | 37.76 | 37.85 | 42.47 | 52.29 | 74 | -21.71 | Vertical |
| 12489.060 | 11.34 | 39.22 | 39.11 | 41.79 | 53.24 | 74 | -20.76 | Vertical |
| 3910.999 | 6.74 | 33.35 | 38.92 | 45.10 | 46.27 | 74 | -27.73 | Horizontal |
| 4874.000 | 6.57 | 34.77 | 39.26 | 46.46 | 48.54 | 74 | -25.46 | Horizontal |
| 6023.128 | 8.07 | 36.27 | 39.18 | 46.97 | 52.13 | 74 | -21.87 | Horizontal |
| 7311.000 | 9.06 | 35.52 | 39.06 | 45.83 | 51.35 | 74 | -22.65 | Horizontal |
| 9748.000 | 9.91 | 37.76 | 37.85 | 42.00 | 51.82 | 74 | -22.18 | Horizontal |
| 12179.670 | 10.88 | 38.93 | 38.85 | 42.83 | 53.79 | 74 | -20.21 | Horizontal |

| Test mode: | 802 | .11g | Test ch | annel: | Highest | Remarl | K : | Peak |
|--------------------|-----------------------|-----------------------------|--------------------------|-------------------------|-------------------|------------------------|-----------------------|--------------|
| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 3814.113 | 6.79 | 33.18 | 38.88 | 45.51 | 46.60 | 74 | -27.40 | Vertical |
| 4924.000 | 6.68 | 34.82 | 39.28 | 46.34 | 48.56 | 74 | -25.44 | Vertical |
| 5958.723 | 8.02 | 36.22 | 39.19 | 46.38 | 51.43 | 74 | -22.57 | Vertical |
| 7386.000 | 9.16 | 35.44 | 39.05 | 45.97 | 51.52 | 74 | -22.48 | Vertical |
| 9848.000 | 9.85 | 38.06 | 37.79 | 42.32 | 52.44 | 74 | -21.56 | Vertical |
| 12223.390 | 10.95 | 38.98 | 38.89 | 42.17 | 53.21 | 74 | -20.79 | Vertical |
| 3910.999 | 6.74 | 33.35 | 38.92 | 45.90 | 47.07 | 74 | -26.93 | Horizontal |
| 4924.000 | 6.68 | 34.82 | 39.28 | 46.70 | 48.92 | 74 | -25.08 | Horizontal |
| 6198.299 | 8.04 | 36.08 | 39.16 | 46.65 | 51.61 | 74 | -22.39 | Horizontal |
| 7386.000 | 9.16 | 35.44 | 39.05 | 45.47 | 51.02 | 74 | -22.98 | Horizontal |
| 9848.000 | 9.85 | 38.06 | 37.79 | 42.75 | 52.87 | 74 | -21.13 | Horizontal |
| 12399.870 | 11.21 | 39.20 | 39.04 | 41.87 | 53.24 | 74 | -20.76 | Horizontal |

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| Test mode: | 802 | 802.11n(H20) | | annel: | Lowest | Remark: | | Peak |
|-----------------|-----------------------|-----------------------------|--------------------------|-------------------------|-------------------|------------------------|-----------------------|--------------|
| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 3800.469 | 6.80 | 33.15 | 38.87 | 46.08 | 47.16 | 74 | -26.84 | Vertical |
| 4824.000 | 6.46 | 34.72 | 39.24 | 46.58 | 48.52 | 74 | -25.48 | Vertical |
| 6088.229 | 8.06 | 36.20 | 39.17 | 46.89 | 51.98 | 74 | -22.02 | Vertical |
| 7236.000 | 8.96 | 35.60 | 39.06 | 46.54 | 52.04 | 74 | -21.96 | Vertical |
| 9648.000 | 9.97 | 37.45 | 37.91 | 42.33 | 51.84 | 74 | -22.16 | Vertical |
| 12223.390 | 10.95 | 38.98 | 38.89 | 42.21 | 53.25 | 74 | -20.75 | Vertical |
| 3413.093 | 7.13 | 32.79 | 38.70 | 45.77 | 46.99 | 74 | -27.01 | Horizontal |
| 4824.000 | 6.46 | 34.72 | 39.24 | 46.58 | 48.52 | 74 | -25.48 | Horizontal |
| 5811.109 | 7.79 | 35.93 | 39.20 | 46.84 | 51.36 | 74 | -22.64 | Horizontal |
| 7236.000 | 8.96 | 35.60 | 39.06 | 46.42 | 51.92 | 74 | -22.08 | Horizontal |
| 9648.000 | 9.97 | 37.45 | 37.91 | 42.49 | 52.00 | 74 | -22.00 | Horizontal |
| 12179.670 | 10.88 | 38.93 | 38.85 | 42.70 | 53.66 | 74 | -20.34 | Horizontal |

| Test mode: | 802 | .11n(H20) | Test ch | annel: | Middle | Remark: | | Peak |
|-----------------|-----------------------|-----------------------------|--------------------------|-------------------------|-------------------|------------------------|-----------------------|--------------|
| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 3614.506 | 6.90 | 33.01 | 38.79 | 45.32 | 46.44 | 74 | -27.56 | Vertical |
| 4874.000 | 6.57 | 34.77 | 39.26 | 46.52 | 48.60 | 74 | -25.40 | Vertical |
| 5937.408 | 7.98 | 36.18 | 39.19 | 47.55 | 52.52 | 74 | -21.48 | Vertical |
| 7311.000 | 9.06 | 35.52 | 39.06 | 46.63 | 52.15 | 74 | -21.85 | Vertical |
| 9748.000 | 9.91 | 37.76 | 37.85 | 42.73 | 52.55 | 74 | -21.45 | Vertical |
| 12444.380 | 11.28 | 39.21 | 39.07 | 42.47 | 53.89 | 74 | -20.11 | Vertical |
| 3437.643 | 7.09 | 32.82 | 38.71 | 45.34 | 46.54 | 74 | -27.46 | Horizontal |
| 4874.000 | 6.57 | 34.77 | 39.26 | 46.50 | 48.58 | 74 | -25.42 | Horizontal |
| 6333.012 | 8.01 | 35.91 | 39.15 | 46.71 | 51.48 | 74 | -22.52 | Horizontal |
| 7311.000 | 9.06 | 35.52 | 39.06 | 46.16 | 51.68 | 74 | -22.32 | Horizontal |
| 9748.000 | 9.91 | 37.76 | 37.85 | 42.44 | 52.26 | 74 | -21.74 | Horizontal |
| 12489.060 | 11.34 | 39.22 | 39.11 | 41.65 | 53.10 | 74 | -20.90 | Horizontal |

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| Test mode: | 80 | 2.11n(H20) | Test ch | annel: | Highest | Remark | Remark: | |
|--------------------|-----------------------|-----------------------------|--------------------------|-------------------------|-------------------|------------------------|-----------------------|--------------|
| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 3910.999 | 6.74 | 33.35 | 38.92 | 45.60 | 46.77 | 74 | -27.23 | Vertical |
| 4924.000 | 6.68 | 34.82 | 39.28 | 46.31 | 48.53 | 74 | -25.47 | Vertical |
| 5811.109 | 7.79 | 35.93 | 39.20 | 47.29 | 51.81 | 74 | -22.19 | Vertical |
| 7386.000 | 9.16 | 35.44 | 39.05 | 45.68 | 51.23 | 74 | -22.77 | Vertical |
| 9848.000 | 9.85 | 38.06 | 37.79 | 42.86 | 52.98 | 74 | -21.02 | Vertical |
| 11317.000 | 10.35 | 38.14 | 38.38 | 43.74 | 53.85 | 74 | -20.15 | Vertical |
| 3786.875 | 6.80 | 33.14 | 38.86 | 45.10 | 46.18 | 74 | -27.82 | Horizontal |
| 4924.000 | 6.68 | 34.82 | 39.28 | 47.02 | 49.24 | 74 | -24.76 | Horizontal |
| 6176.127 | 8.04 | 36.11 | 39.17 | 46.33 | 51.31 | 74 | -22.69 | Horizontal |
| 7386.000 | 9.16 | 35.44 | 39.05 | 45.86 | 51.41 | 74 | -22.59 | Horizontal |
| 9848.000 | 9.85 | 38.06 | 37.79 | 42.10 | 52.22 | 74 | -21.78 | Horizontal |
| 12444.380 | 11.28 | 39.21 | 39.07 | 41.61 | 53.03 | 74 | -20.97 | Horizontal |

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 - Final Test Level = Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

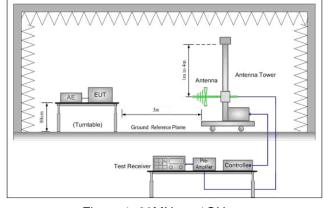


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6.8 Restricted bands around fundamental frequency

| Test Requirement: | 47 CFR Part 15C Section 15.209 and 15.205 | | | | | | | | |
|-------------------|---|--|------------------|--|--|--|--|--|--|
| Test Method: | ANSI C63.10 2009 | ANSI C63.10 2009 | | | | | | | |
| Test Site: | Measurement Distance: 3m | Measurement Distance: 3m (Semi-Anechoic Chamber) | | | | | | | |
| Limit: | Frequency | Limit (dBuV/m @3m) | Remark | | | | | | |
| | 30MHz-88MHz | 40.0 | Quasi-peak Value | | | | | | |
| | 88MHz-216MHz | 43.5 | Quasi-peak Value | | | | | | |
| | 216MHz-960MHz | 46.0 | Quasi-peak Value | | | | | | |
| | 960MHz-1GHz | 54.0 | Quasi-peak Value | | | | | | |
| | Above 1CUz | 54.0 | Average Value | | | | | | |
| | Above 1GHz | 74.0 | Peak Value | | | | | | |
| Test Setup: | | | | | | | | | |



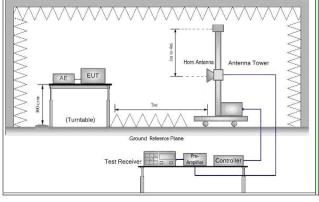


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

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| the ground at a 3 360 degrees to c b. The EUT was se antenna, which we tower. | acced on the top of a rotating table 0.8 meters above 3 meter semi-anechoic camber. The table was rotated determine the position of the highest radiation. Let 3 meters away from the interference-receiving was mounted on the top of a variable-height antenna light is varied from one meter to four meters above the mine the maximum value of the field strength. Both | | | |
|---|---|--|--|--|
| antenna, which v tower. | was mounted on the top of a variable-height antenna ght is varied from one meter to four meters above the nine the maximum value of the field strength. Both | | | |
| | nine the maximum value of the field strength. Both | | | |
| ground to determ | ertical polarizations of the antenna are set to make the | | | |
| and then the ante | cted emission, the EUT was arranged to its worst case tenna was tuned to heights from 1 meter to 4 meters at table was turned from 0 degrees to 360 degrees to m reading. | | | |
| | r system was set to Peak Detect Function and vidth with Maximum Hold Mode. | | | |
| frequency to sho restricted bands. | at the end of the restricted band closest to the transmit ow compliance. Also measure any emissions in the . Save the spectrum analyzer plot. Repeat for each ulation for lowest and highest channel | | | |
| g. Test the EUT in | the lowest channel , the Highest channel | | | |
| h. Repeat above pr complete. | rocedures until all frequencies measured was | | | |
| Exploratory Test Mode: Transmitting mode | | | | |
| 6Mbps of rate is the | Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20) .Only the worst case is recorded in the report. | | | |
| Instruments Used: Refer to section 5.10 |) for details | | | |
| Test Results: Pass | | | | |



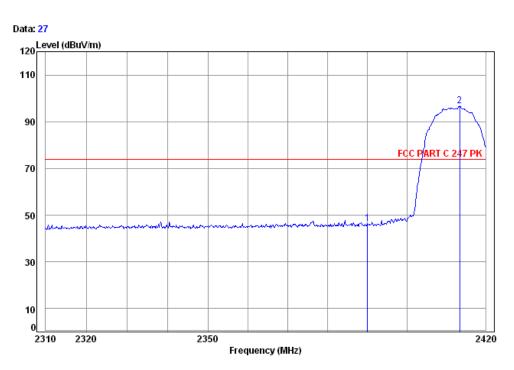
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Test plot as follows:

802.11b

| Worse case mode: | Test channel: | Lowest | Remark: | Peak | Vertical | l |
|------------------|---------------|--------|---------|------|----------|---|
|------------------|---------------|--------|---------|------|----------|---|



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

eut : 5724CR

mode : b 2412 Bandedge

Cable Ant Preamp Read Limit 0∨er Freq Loss Factor Factor Le∨el Level Limit Line dBuV dBuV/m dBuV/m MHz dΒ dB/m dB 2390.00 4.90 32.35 38.46 47.62 46.41 74.00 -27.59 2413.37 4.93 32.41 38.46 97.83 96.71 74.00 22.71

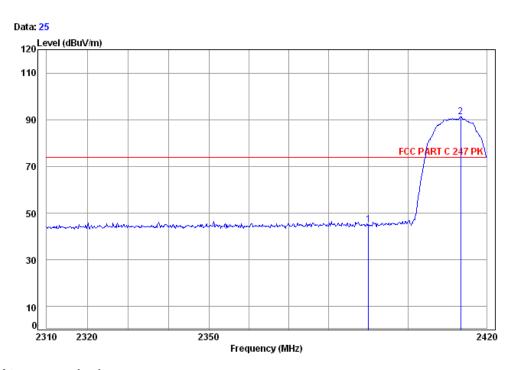
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| Worse case mode: | Test channel: | Lowest | Remark: | Peak | Horizontal |
|------------------|---------------|--------|---------|------|------------|
| | | | | | |



Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

eut : 5724CR

mode : b 2412 Bandedge

Ant Preamp 0ver Cable Read limit Loss Factor Factor Freq Level Level Line Limit MHz dΒ dBuV dBuV/m dBuV/m dB/m 74.00 -28.81 1 2390.00 4.90 32.35 38.46 46.40 45.19 4.93 32.41 38.46 92.34 91.22 74.00 17.22 2413.37



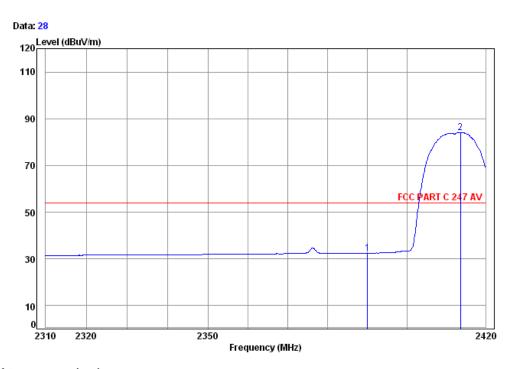
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| Worse case mode: | Test channel: | Lowest | Remark: | Average | Vertical |
|------------------|---------------|--------|---------|---------|----------|
| | | | | | |



Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

eut : 5724CR

mode : b 2412 Bandedge

| | | Cable | Ant | Preamp | Read | | Limit | 0∨er |
|------|---------|-------|--------|--------|-------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Le∨el | Le∨el | Line | Limit |
| _ | | | | | | | | |
| | MHz | dB | dB/m | dB | dBu∀ | dBuV/m | dBuV/m | dB |
| | | | | | | | | |
| 1 | 2390.00 | 4.90 | 32.35 | 38.46 | 33.74 | 32.53 | 54.00 | -21.47 |
| 2 pp | 2413.59 | 4.93 | 32.41 | 38.46 | 85.24 | 84.12 | 54.00 | 30.12 |

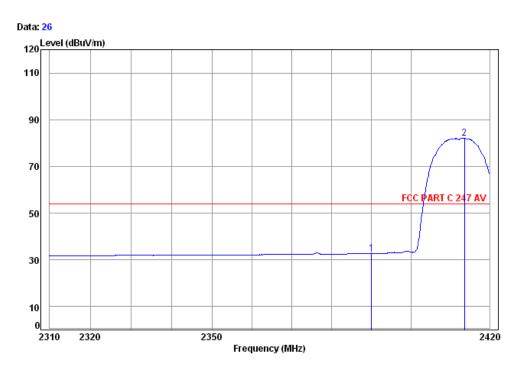
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| ١ | Worse case mode: | Test channel: | Lowest | Remark: | Average | Horizontal |
|---|------------------|---------------|--------|---------|---------|------------|
| | | | | | | |



Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

eut : 5724CR

mode : b 2412 Bandedge

| | | Cable | Ant | Preamp | Read | | Limit | 0∨er |
|------|---------|-------|--------|--------|-------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Le∨el | Level | Line | Limit |
| _ | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| | | | | | | | | |
| 1 | 2390.00 | 4.90 | 32.35 | 38.46 | 33.92 | 32.71 | 54.00 | -21.29 |
| 2 pp | 2413.59 | 4.93 | 32.41 | 38.46 | 83.19 | 82.07 | 54.00 | 28.07 |

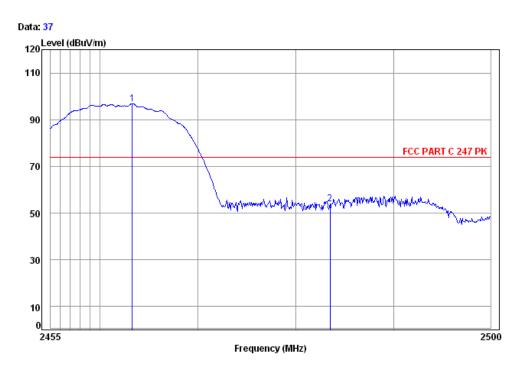
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|--|



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

eut : 5724CR

mode : b 2462 Bandedge

| | Freq | | | Preamp Factor | | | | |
|------|--------------------|----|------|------------------|------|--------|--------|----|
| - | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 pp | 2463.31 2483.50 | | | | | | | |

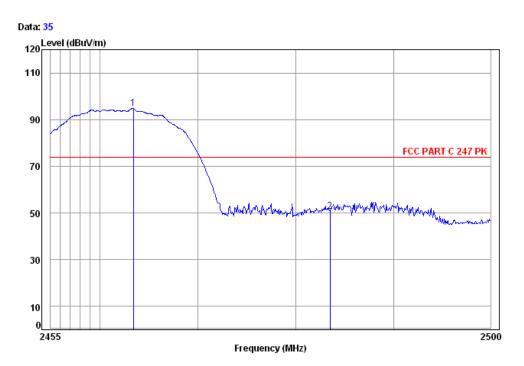
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| Worse case mode: | Test channel: | Highest | Remark: | Peak | Horizontal |
|------------------|---------------|---------|---------|------|------------|
| | | 1 9 | | | |



Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

eut : 5724CR

mode : b 2462 Bandedge

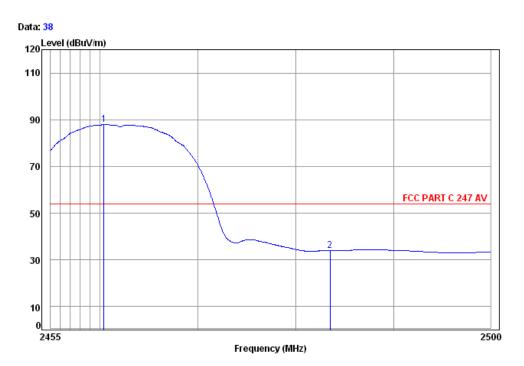
Cable Ant Preamp Limit 0ver Read Loss Factor Factor Limit Level Level Line MHz dBuV dBuV/m dBuV/m dΒ dB/m 2463.40 5.00 32.43 38.46 95.79 94.76 74.00 20.76 5.03 32.44 38.47 51.67 50.67 74.00 -23.33



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| Worse case mode: | Test channel: | Highest | Remark: | Average | Vertical |
|------------------|---------------|---------|---------|---------|----------|
| | | | | | |



Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

eut : 5724CR

mode : b 2462 Bandedge

Ant Preamp 0ver Cable Read limit Loss Factor Factor Limit Freq Level Level Line MHz dBuV dBuV/m dBuV/m dB dB/m 2460.40 5.00 32.43 38.46 88.90 87.87 54.00 33.87 5.03 32.44 38.47 34.99 33.99 54.00 -20.01 2483.50

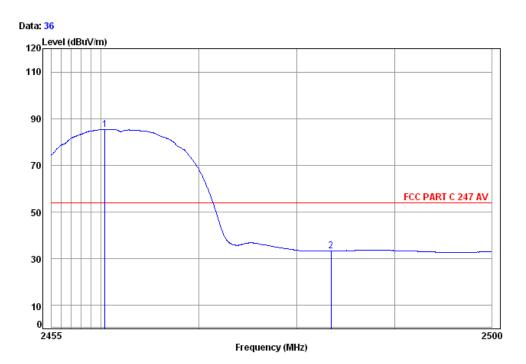
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| Worse case mode: | Test channel: | Highest | Remark: | Average | Horizontal |
|------------------|---------------|---------|---------|---------|------------|
| | | 3 | | | |



Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

eut : 5724CR

mode : b 2462 Bandedge

Ant Preamp 0∨er Cable Read Limit Loss Factor Factor Limit Freq Level Level Line MHz dB/m dBuV dBuV/m dBuV/m dΒ 2460.40 86.37 85.34 54.00 31.34 5.00 32.43 38.46 2483.50 5.03 32.44 38.47 34.40 33.40 54.00 -20.60

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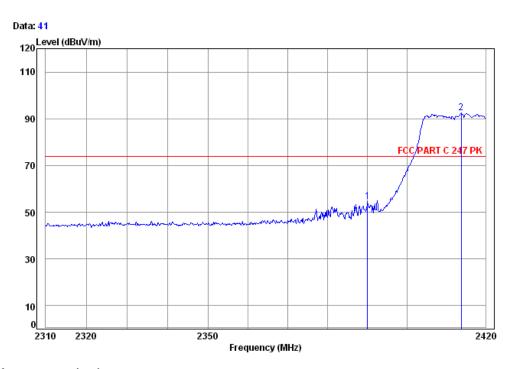


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802.11g

| Worse case mode: | Test channel: | Lowest | Remark: | Peak | Vertical |
|------------------|-------------------|--------|----------|-------|------------|
| Worse dase mode. | i cot oriaririor. | LOWCSI | riomant. | i can | V CI tioai |



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

eut : 5724CR

mode : g 2412 Bandedge

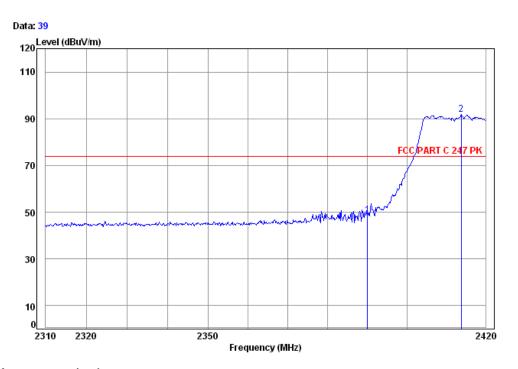
| | Freq | Cable Ant Freq Loss Factor | | | | | | | |
|-----------|--------------------|-------------------------------|------|----|------|--------|--------|----|--|
| - | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 2 pp | 2390.00 2413.82 | | | | | | | | |



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| Worse case mode: | Test channel: | Lowest | Remark: | Peak | Horizontal |
|------------------|---------------|--------|---------|------|------------|
| | | | | | |



Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

eut : 5724CR

mode : g 2412 Bandedge

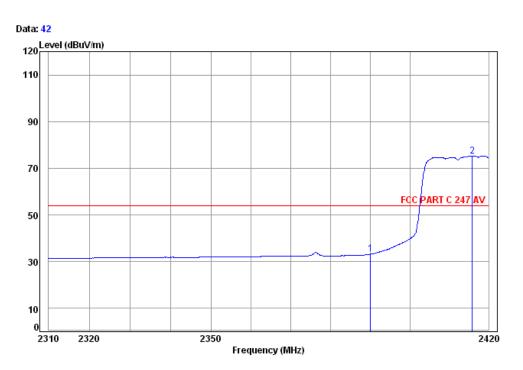
Ant Preamp Cable Read limit Over Loss Factor Factor Freq Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m 38.46 49.91 48.70 74.00 -25.30 1 2390.00 4.90 32.35 2 pp 2413.82 4.93 32.42 38.46 93.02 91.91 74.00 17.91



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| Worse case mode: | Test channel: | Lowest | Remark: | Average | Vertical |
|------------------|---------------|--------|---------|---------|----------|
|------------------|---------------|--------|---------|---------|----------|



Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

eut : 5724CR

mode : g 2412 Bandedge

Cable Ant Preamp Read Limit 0∨er Loss Factor Factor Limit Level Level MHz dBuV dBuV/m dBuV/m dΒ dB/m 2390.00 4.90 32.35 38.46 34.44 33.23 54.00 -20.77 2415.84 4.94 32.42 38.46 76.43 75.33 54.00 21.33

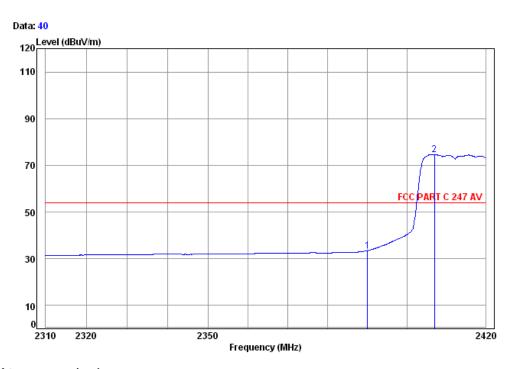
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| ١ | Worse case mode: | Test channel: | Lowest | Remark: | Average | Horizontal |
|---|------------------|---------------|--------|---------|---------|------------|
| | | | | | | |



Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

eut : 5724CR

mode : g 2412 Bandedge

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Limit Freq Level Level Line MHz dBuV dBuV/m dBuV/m dΒ dB/m 2390.00 4.90 32.35 38.46 34.67 54.00 -20.54 1 33.46 2406.98 4.92 32.41 38.46 75.82 74.69 54.00 20.69

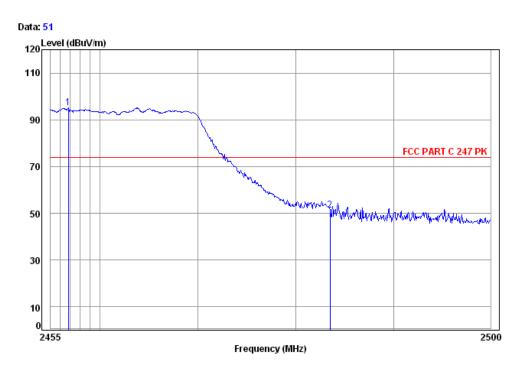




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|--|



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

eut : 5724CR

mode : g 2462 Bandedge

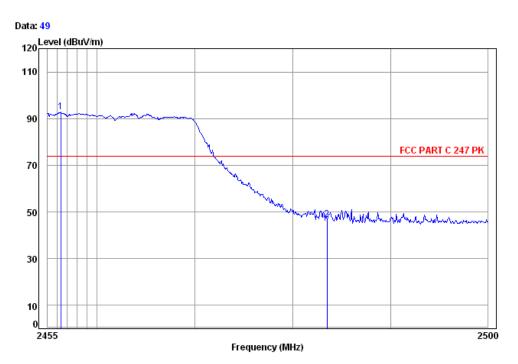
| | | Cable | Ant | Preamp | Read | | Limit | 0∨er |
|------|---------|-------|--------|--------|-------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Le∨el | Level | Line | Limit |
| _ | | | | | | | | |
| _ | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| | | | | | | | - | |
| 1 pp | 2456.78 | 4.99 | 32.43 | 38.46 | 96.18 | 95.14 | 74.00 | 21.14 |
| 2 | 2483.50 | 5.03 | 32.44 | 38.47 | 52.38 | 51.38 | 74.00 | -22.62 |



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|--|



Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

eut : 5724CR

mode : g 2462 Bandedge

Cable Ant Preamp Limit 0∨er Read Loss Factor Factor Level Limit Level MHz dBuV dBuV/m dBuV/m dΒ dB/m 2456.34 4.99 32.43 38.46 93.78 92.74 74.00 18.74 5.03 32.44 38.47 47.80 46.80 74.00 -27.20

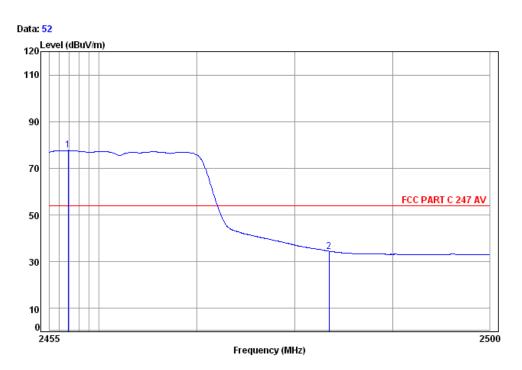
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| Worse case mode: | Test channel: | Highest | Remark: | Average | Vertical |
|------------------|---------------|---------|---------|---------|----------|
| | | | | | |



Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

eut : 5724CR

mode : g 2462 Bandedge

Ant Preamp Limit 0ver Cable Read Loss Factor Factor Limit Level Level Line MHz dBuV dBuV/m dBuV/m dΒ dB/m 2456.87 4.99 32.43 38.46 78.70 77.66 54.00 23.66 2483.50 5.03 32.44 38.47 35.50 34.50 54.00 -19.50

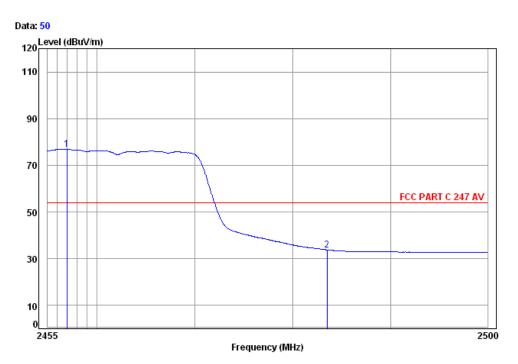
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| Worse case mode: | Test channel: | Highest | Remark: | Average | Horizontal |
|------------------|---------------|---------|---------|---------|------------|
| | | 3 | | | |



Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

eut : 5724CR

mode : g 2462 Bandedge

Ant Preamp Limit 0ver Cable Read Loss Factor Factor Limit Level Level Line MHz dBuV dBuV/m dBuV/m dΒ dB/m 2456.96 4.99 32.43 38.46 77.86 76.82 54.00 22.82 2483.50 5.03 32.44 38.47 34.78 33.78 54.00 -20.22

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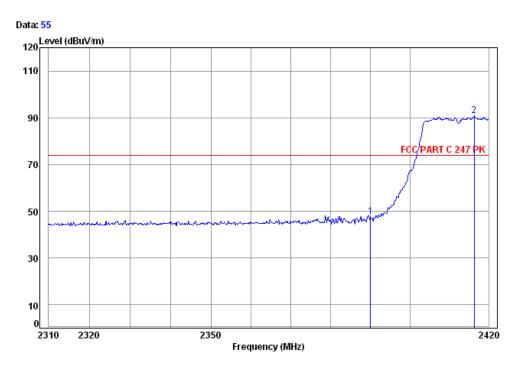


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802.11n(H20)

| Worse case mode: | Test channel: | Lowest | Remark: | Peak | Vertical |
|------------------|---------------|--------|---------|------|----------|
|------------------|---------------|--------|---------|------|----------|



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

eut : 5724CR

mode : n(HT20) 2412 Bandedge

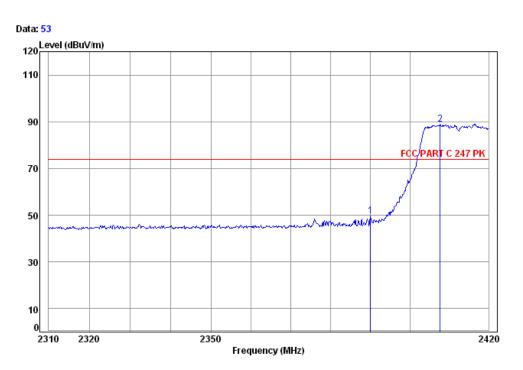
Cable Ant Preamp Read Over limit Loss Factor Factor Freq Level Level Line Limit MHz dBuV dBuV/m dBuV/m dΒ dB/m 1 2390.00 4.90 32.35 38.46 49.00 47.79 74.00 -26.21 2 pp 2416.29 4.94 32.42 38.46 91.85 90.75 74.00 16.75



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| Worse case mode: | Test channel: | Lowest | Remark: | Peak | Horizontal |
|------------------|---------------|--------|---------|------|------------|
| | | | | | |



Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

eut : 5724CR

mode : n(HT20) 2412 Bandedge

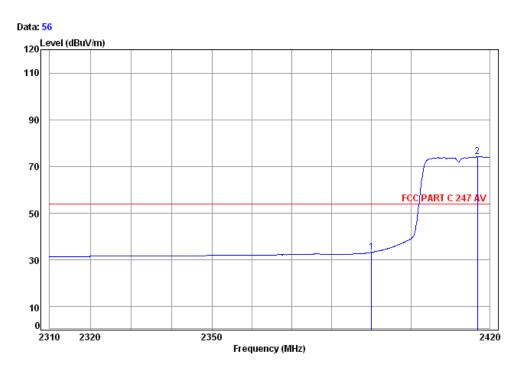
Cable Ant Preamp Read limit Over Loss Factor Factor Freq Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m 4.90 32.35 38.46 50.94 49.73 74.00 -24.27 1 2390.00 4.93 32.41 38.46 90.12 89.00 74.00 15.00 2 pp 2407.65



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| Worse case mode: | Test channel: | Lowest | Remark: | Average | Vertical |
|------------------|---------------|--------|---------|---------|----------|
| | | | | | |



Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

eut : 5724CR

mode : n(HT20) 2412 Bandedge

Cable Ant Preamp Read limit Over Loss Factor Factor Freq Level Level Line Limit MHz dBuV dBuV/m dBuV/m dΒ dB/m 1 2390.00 4.90 32.35 38.46 34.49 33.28 54.00 -20.72 4.94 32.42 38.46 75.25 74.15 54.00 20.15 2 pp 2416.96

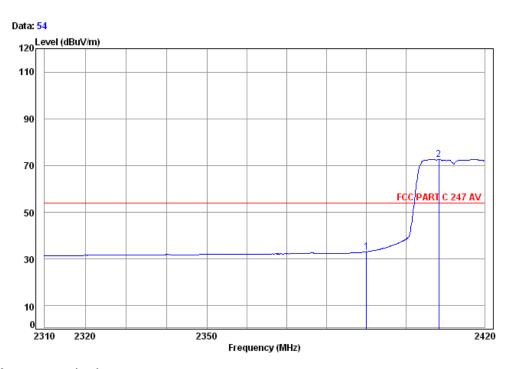
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| Worse case mode: | Test channel: | Lowest | Remark: | Average | Horizontal |
|------------------|---------------|--------|---------|---------|------------|
| | | | | | |



Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

eut : 5724CR

mode : n(HT20) 2412 Bandedge

Cable Ant Preamp Over Read limit Loss Factor Factor Freq Level Level Line Limit MHz dBuV dBuV/m dBuV/m dΒ dB/m 1 2390.00 4.90 32.35 38.46 34.34 33.13 54.00 -20.87 4.93 32.41 38.46 73.79 72.67 54.00 18.67 2 pp 2408.32

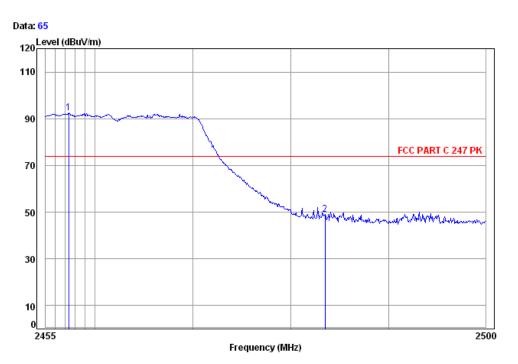
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| Worse case mode: | Test channel: | Highest | Remark: | Peak | Vertical |
|------------------|---------------|---------|---------|------|----------|
| | | 1 9 | | | |



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

eut : 5724CR

mode : n(HT20) 2462 Bandedge

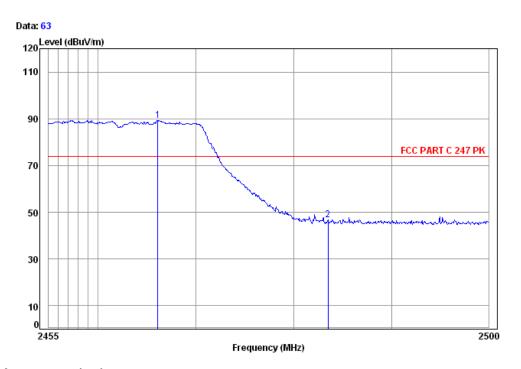
Ant Preamp Cable 0ver Read limit Loss Factor Factor Limit Freq Level Level Line MHz dBuV dBuV/m dBuV/m dB dB/m 2457.37 4.99 32.43 38.46 93.42 92.38 74.00 18.38 5.03 32.44 38.47 50.07 49.07 74.00 -24.93 2483.50



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| Worse case mode: | Test channel: | Highest | Remark: | Peak | Horizontal |
|------------------|---------------|---------|---------|------|------------|
| | | 1 9 | | | |



Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

eut : 5724CR

mode : n(HT20) 2462 Bandedge

Cable. Ant Preamp Over Read limit Loss Factor Factor Freq Level Level Line Limit MHz dBuV dBuV/m dBuV/m dΒ dB/m 2466.08 5.00 32.43 38.46 90.40 89.37 74.00 15.37 2483.50 5.03 32.44 38.47 47.63 46.63 74.00 -27.37

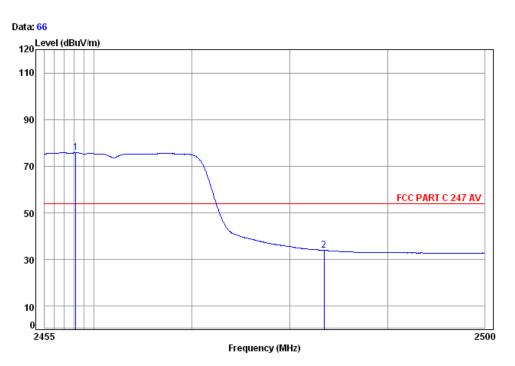




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| Worse case mode: | Test channel: | Highest | Remark: | Average | Vertical |
|------------------|---------------|---------|---------|---------|----------|
| | | 1 | | | |



Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

eut : 5724CR

mode : n(HT20) 2462 Bandedge

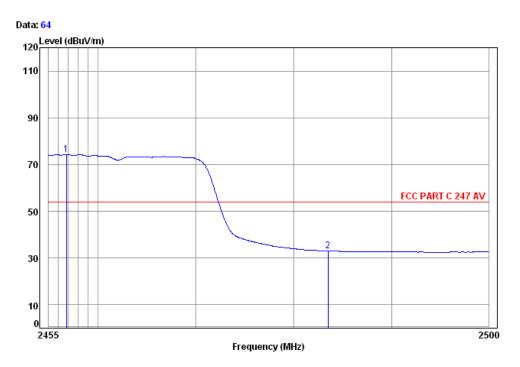
Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Limit MHz dBuV dBuV/m dBuV/m dΒ dB/m 2458.17 4.99 32.43 38.46 76.85 75.81 54.00 21.81 5.03 32.44 38.47 34.93 33.93 54.00 -20.07



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| Worse case mode: | Test channel: | Highest | Remark: | Average | Horizontal |
|------------------|---------------|---------|---------|---------|------------|
| | | 3 | | | |



Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

eut : 5724CR

mode : n(HT20) 2462 Bandedge

| | Freq | | | Preamp Factor | | | | |
|-----------|--------------------|----|------|------------------|------|--------|--------|----|
| _ | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 pp 2 | 2456.78 2483.50 | | | | | | | |

Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

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