





Product 4G Intelligent Gateway

Trade mark N/A X2 Model/Type reference N/A **Serial Number**

Report Number EED32P80040001

FCC ID : 2AG6GX2

Date of Issue Mar. 09, 2023

Test Standards : 47 CFR Part 15 Subpart C

Test result : PASS

Prepared for:

Hongdian Corporation Tower A, Hongdian Building, 100 Huabao Road, Pinghu, Longgang District, Shenzhen, China

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

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Mar. 09, 2023

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Report No.: EED32P80040001



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3 Version

| Version No. Date Description | | | 9 | |
|------------------------------|---------------|--------|----------|-------|
| 00 | Mar. 09, 2023 | | Original | |
| | ** | 10 | Con | /*> |
| (| (2) | (6,20) | (67) | (6,1) |











































































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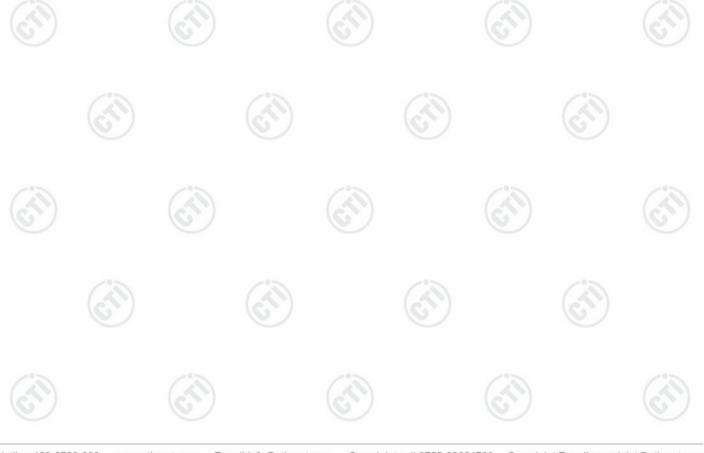
4 Test Summary

| + 103t Gaillillary | | (48) | |
|---|---|---------|--|
| Test Item | Test Requirement | Result | |
| Antenna Requirement | 47 CFR Part 15 Subpart C Section 15.203/15.247 (c) | PASS | |
| AC Power Line Conducted Emission | 47 CFR Part 15 Subpart C Section 15.207 | PASS | |
| DTS Bandwidth | 47 CFR Part 15 Subpart C Section 15.247 (a)(2) | PASS | |
| Maximum Conducted Output Power | 47 CFR Part 15 Subpart C Section 15.247 (b)(3) | PASS | |
| Maximum Power Spectral Density | 47 CFR Part 15 Subpart C Section 15.247 (e) | PASS | |
| Band edge measurements | 47 CFR Part 15 Subpart C Section 15.247(d) | PASS | |
| Conducted Spurious Emissions | 47 CFR Part 15 Subpart C Section 15.247(d) | PASS | |
| Radiated Spurious Emission & Restricted bands | 47 CFR Part 15 Subpart C Section 15.205/15.209 | PASS | |
| | | 1 4 4 1 | |

Remark:

This product has two antenna schemes, please see the product photo, and we have tested both.

Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.







General Information

5.1 Client Information

| Applicant: | Hongdian Corporation |
|--------------------------|---|
| Address of Applicant: | Tower A, Hongdian Building, 100 Huabao Road, Pinghu, Longgang District, Shenzhen, China |
| Manufacturer: | Hongdian Corporation |
| Address of Manufacturer: | Tower A, Hongdian Building, 100 Huabao Road, Pinghu, Longgang District, Shenzhen, China |
| Factory: | Hongdian Corporation |
| Address of Factory: | Tower A, Hongdian Building, 100 Huabao Road, Pinghu, Longgang District, Shenzhen, China |

5.2 General Description of EUT

| Product Name: | 4G Intelligent Gateway | , | | | |
|-----------------------|--|---------------------------------------|--|--|--|
| Model No.: | X2 | | | | |
| Trade mark: | N/A | | | | |
| Product Type: | ☐ Mobile ☐ Portal | ble 🛮 Fix Location | | | |
| Operation Frequency: | IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(HT40): 2422MHz to 2452MHz | | | | |
| Modulation Type: | IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g:OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40): OFDM (64QAM, 16QAM,QPSK,BPSK) | | | | |
| Number of Channel: | IEEE 802.11b/g, IEEE IEEE 802.11n HT40: 7 | 802.11n HT20: 11 Channels Channels | | | |
| Channel Separation: | 5MHz | | | | |
| Antenna Type: | External Antenna | | | | |
| Antenna Gain: | Antenna schemes 1: | Ant1: 2.76dBi, Ant2: 2.76dBi | | | |
| | Antenna schemes 2: | Ant1: 2.09dBi , Ant2: 2.21dBi | | | |
| Power Supply: | DC12V,3A | | | | |
| Test Voltage: | DC12V | | | | |
| Sample Received Date: | Jan. 10, 2023 | | | | |
| Sample tested Date: | Jan. 10, 2023 to Feb. 0 | 03, 2023 | | | |















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| Channel | Frequency | Channel | Frequency | Channel | Frequ | iency | Channel | Frequency |
|-----------|--------------|--------------|----------------|----------|-------|----------|---------|-----------|
| 1 | 2412MHz | 4 | 2427MHz | 7 | 2442 | MHz | 10 | 2457MHz |
| 2 | 2417MHz | 5 | 2432MHz | 8 | 2447 | MHz | 11 | 2462MHz |
| 3 | 2422MHz | 6 | 2437MHz | 9 | 2452 | MHz | | 6, |
| Operation | Frequency ea | ch of channe | el (802.11n HT | 40) | | | , | |
| Channel | l Frequ | ency | Channel | Frequenc | су | Chan | nel f | requency |
| 3 | 2422 | MHz | 6 | 2437MH | lz | 9 2452MH | | 2452MHz |
| 4 | 2427 | MHz | 7 | 2442MH | lz | | | |
| 5 | 2432 | MHz | 8 | 2447MH | lz | | | |

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:

802.11b/g/n (HT20)

| Channel | Frequency |
|---------------------|-----------|
| The lowest channel | 2412MHz |
| The middle channel | 2437MHz |
| The highest channel | 2462MHz |

802.11n (HT40)

| Channel | Frequency |
|---------------------|-----------|
| The lowest channel | 2422MHz |
| The middle channel | 2437MHz |
| The highest channel | 2452MHz |





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5.3 Test Configuration

| EUT Test Software Setti | ngs: | | |
|--------------------------------|--|--------------------------------|---------|
| Software: | qdart | _0_ | -0- |
| EUT Power Grade: | Default | (41) | (20) |
| Lice test coffware to set th | o lowest frequency, the middle frequency | oney and the highest frequence | ny koon |

Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.

Test Mode:

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

| Mode | Data rate |
|---------------|-----------|
| 802.11b | 1Mbps |
| 802.11g | 6Mbps |
| 802.11n(HT20) | 6.5Mbps |
| 802.11n(HT40) | 13.5Mbps |

According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(HT20) and 6.5Mbps for 802.11n(HT40).





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5.4 Test Environment

| Oper | rating Environment | : | | | | | |
|------|--------------------|------------|---------|------|---------|------|-------|
| Radi | ated Spurious Emi | ssions: | | | | | |
| Temp | perature: | 22~25.0 °C | (21) | | (41) | | (41) |
| Humi | idity: | 50~55 % RH | (0) | | (0) | | 6 |
| Atmo | spheric Pressure: | 1010mbar | | | | | |
| Cond | ducted Emissions: | | | | | | |
| Temp | perature: | 22~25.0 °C | | (2) | | (30) | |
| Humi | idity: | 50~55 % RH | | (0,) | | (0,) | |
| Atmo | spheric Pressure: | 1010mbar | | | | | |
| RF C | onducted: | | | | | | |
| Temp | perature: | 22~25.0 °C | | | (3) | | |
| Humi | idity: | 50~55 % RH | (6.2) | | (6,7,2) | | (6,2) |
| Atmo | spheric Pressure: | 1010mbar | | | | | |

5.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) support equipment

| Description | Manufacturer | Model No. | Certification | Supplied by |
|---------------|--|--------------|---------------|-------------|
| AC/DC adapter | Shenzhen Boshenggao Technology CO LTD | BSG-1203000 | ccc | Client |
| Notebook | Lenovo | ThinkBook 14 | FCC | СТІ |

5.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164







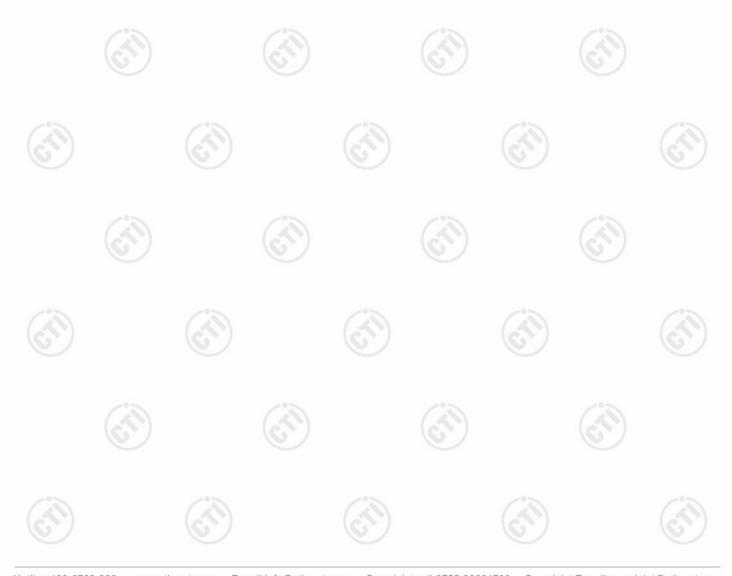






5.7 Measurement Uncertainty (95% confidence levels, k=2)

| No. | Item | Measurement Uncertainty | | |
|-----|---------------------------------|--|--|--|
| 1 | Radio Frequency | 7.9 x 10 ⁻⁸ | | |
| 2 | DE power conducted | 0.46dB (30MHz-1GHz) | | |
| 2 | RF power, conducted | 0.55dB (1GHz-40GHz) | | |
| | | 3.3dB (9kHz-30MHz) | | |
| 3 | Dadiated Spurious emission test | 4.3dB (30MHz-1GHz) 4.5dB (1GHz-18GHz) | | |
| 3 | Radiated Spurious emission test | | | |
| (P) | | 3.4dB (18GHz-40GHz) | | |
| 9/ | Conduction emission | 3.5dB (9kHz to 150kHz) | | |
| 4 | Conduction emission | 3.1dB (150kHz to 30MHz) | | |
| 5 | Temperature test | 0.64°C | | |
| 6 | Humidity test | 3.8% | | |
| 7 | DC power voltages | 0.026% | | |





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6 Equipment List

| | RF test system | | | | | | | |
|---|------------------------|------------------------|----------------------------|---------------------------|-------------------------------|--|--|--|
| Equipment | Manufacturer | Manufacturer Model No. | | Cal. Date (mm-dd-yyyy) | Cal. Due date (mm-dd-yyyy) | | | |
| Communication tset set | R&S | CMW500 | 107929 | 07-06-2022 | 07-05-2023 | | | |
| Signal Generator | R&S | SMBV100A | 1407.6004K02- 262149-CV | 09-09-2022 | 09-08-2023 | | | |
| Spectrum Analyzer | R&S | FSV40 | 101200 | 08-01-2022 | 07-31-2023 | | | |
| RF control unit(power unit) | MWRF-test | MW100-RFCB | MW220620CTI-42 | 07-06-2022 | 07-05-2023 | | | |
| high-low temperature test chamber | Dong Guang Qin Zhuo | LK-80GA | QZ20150611879 | 12-19-2022 | 12-18-2023 | | | |
| Temperature/ Humidity Indicator | biaozhi | HM10 | 1804186 | 06-16-2022 | 06-15-2023 | | | |
| BT&WI-FI Automatic test software | MWRF-test | MTS 8310 | 2.0.0.0 | (A) | (3) | | | |

| | Conducted disturbance Test | | | | | | | | |
|---------------------------------|----------------------------|-----------------------------|--------|---------------------------|-------------------------------|--|--|--|--|
| Equipment | Manufacturer | Manufacturer Model No. Seri | | Cal. date (mm-dd-yyyy) | Cal. Due date (mm-dd-yyyy) | | | | |
| Receiver | R&S | ESCI | 100435 | 05-06-2022 | 05-05-2023 | | | | |
| Temperature/ Humidity Indicator | Defu | TH128 | 1 | | (3) | | | | |
| LISN | R&S | ENV216 | 100098 | 09-27-2022 | 09-26-2023 | | | | |
| Barometer | changchun | DYM3 | 1188 | | | | | | |
| Capacitive voltage probe | Schwarzbeck | CVP 9222C | 00124 | 07-13-2022 | 07-12-2023 | | | | |
| ISN | TESEQ | ISN T800 | 30297 | 12-29-2022 | 12-28-2023 | | | | |







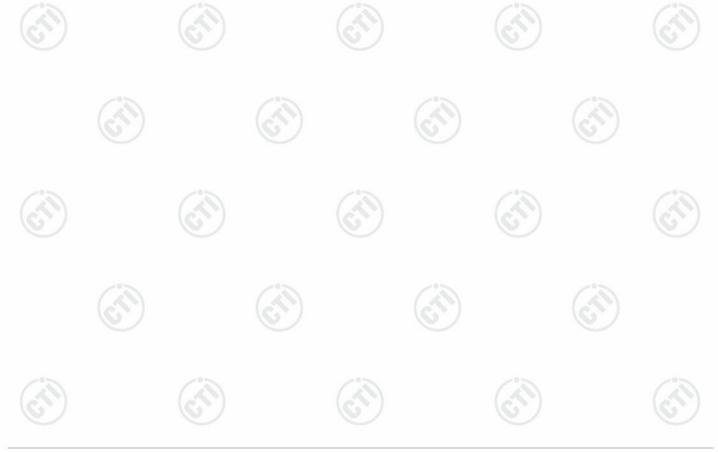






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| | 3M Semi-an | echoic Chamber (2) | - Radiated distu | ırbance Test | |
|--------------------------------|--------------|--------------------|------------------|--------------|------------|
| Equipment | Manufacturer | Model | Serial No. | Cal. Date | Due Date |
| 3M Chamber & | -0- | | | -0 | -05 |
| Accessory | TDK | SAC-3 | | 05-22-2022 | 05-21-2025 |
| Equipment | | | | | 6 |
| Receiver | R&S | ESCI7 | 100938-003 | 09-28-2022 | 09-27-2023 |
| TRILOG Broadband Antenna | schwarzbeck | VULB 9163 | 9163-618 | 05-22-2022 | 05-21-2025 |
| Loop Antenna | Schwarzbeck | FMZB 1519B | 1519B-076 | 04-15-2021 | 04-14-2024 |
| Microwave Preamplifier | Tonscend | EMC051845SE | 980380 | 12-23-2022 | 12-22-2023 |
| Multi device Controller | maturo | NCD/070/10711112 | | | |
| Horn Antenna | ETS-LINGREN | BBHA 9120D | 9120D-1869 | 04/15/2021 | 04/14/2024 |
| Microwave Preamplifier | Agilent | 8449B | 3008A02425 | 06/20/2022 | 06/19/2023 |





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| | | C.O. | | / | 10.5 | |
|--------------------------------|------------------------|-------------------|---------------|---------------------------|---------------|--|
| | | 3M full-anechoi | c Chamber | | | |
| Equipment | Manufacturer Model No. | | Serial Number | Cal. Date (mm-dd-yyyy) | Cal. Due date | |
| RSE Automatic | JS Tonscend | JS36-RSE | 10166 | | 6 | |
| Receiver | Keysight | N9038A | MY57290136 | 03-01-2022 | 02-28-2023 | |
| Spectrum Analyzer | Keysight | N9020B | MY57111112 | 03-01-2022 | 02-28-2023 | |
| Spectrum Analyzer | Keysight | N9030B | MY57140871 | 03-01-2022 | 02-28-2023 | |
| TRILOG Broadband Antenna | Schwarzbeck | VULB 9163 | 9163-1148 | 04-28-2021 | 04-27-2024 | |
| Horn Antenna | Schwarzbeck | BBHA 9170 | 9170-832 | 04-15-2021 | 04-14-2024 | |
| Horn Antenna | ETS-LINDGREN | 3117 | 57407 | 07-04-2021 | 07-03-2024 | |
| Preamplifier | EMCI | EMC184055SE | 980597 | 04-20-2022 | 04-19-2023 | |
| Preamplifier | EMCI | EMC001330 | 980563 | 04-13-2022 | 04-12-2023 | |
| Preamplifier | JS Tonscend | TAP-011858 | AP21B806112 | 07-29-2022 | 07-28-2023 | |
| Communication test set | R&S | CMW500 | 102898 | 12-23-2022 | 12-22-2023 | |
| Temperature/ | biaozhi | GM1360 | EE1186631 | 02-21-2022 | 02-20-2023 | |
| Fully Anechoic Chamber | TDK | FAC-3 | | 01-09-2021 | 01-08-2024 | |
| Cable line | Times | SFT205-NMSM-2.50M | 394812-0001 | (| <u> </u> | |
| Cable line | Times | SFT205-NMSM-2.50M | 394812-0002 | | | |
| Cable line | Times | SFT205-NMSM-2.50M | 394812-0003 | Ci- | - 0 | |
| Cable line | Times | SFT205-NMSM-2.50M | 393495-0001 | (C) | (6) | |
| Cable line | Times | EMC104-NMNM-1000 | SN160710 | | | |
| Cable line | Times | SFT205-NMSM-3.00M | 394813-0001 | / | 63 | |
| Cable line | Times | SFT205-NMNM-1.50M | 381964-0001 | (| シ | |
| Cable line | Times | SFT205-NMSM-7.00M | 394815-0001 | | | |
| Cable line | Times | HF160-KMKM-3.00M | 393493-0001 | | (2 | |
| | 10.3 | 1 10 10 11 | | 10.3 | | |





7 Test results and Measurement Data

7.1 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: Please see Internal photos

The antenna is External antenna. The best case gain of the antenna please refer to the section 5.2.





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7.2 AC Power Line Conducted Emissions

| 1.2 | AC POWEI LINE | onauctea Emission | | (25) |
|-----|-----------------------|---|--|---|
| | Test Requirement: | 47 CFR Part 15C Section 15.3 | 207 | |
| | Test Method: | ANSI C63.10: 2013 | | |
| | Test Frequency Range: | 150kHz to 30MHz | | |
| | Receiver setup: | RBW=9 kHz, VBW=30 kHz, S | weep time=auto | |
| | Limit: | Frequency range (MHz) | Limit (c | lBuV) |
| | | 1 requeries runge (WH12) | Quasi-peak | Average |
| | | 0.15-0.5 | 66 to 56* | 56 to 46* |
| | | 0.5-5 | 56 | 46 |
| | | 5-30 | 60 | 50 |
| | Test Setup: | * Decreases with the logarithr | n of the frequency. | |
| | | Shielding Room EUT AC Mains LISN1 | AE LISN2 AC Mai | Test Receiver |
| \$ | Test Procedure: | The mains terminal disturb | pance voltage test was | s conducted in a shielded |
| | | impedance. The power connected to a second LIS plane in the same way a multiple socket outlet strip single LISN provided the r 3) The tabletop EUT was plane | letwork) which provides cables of all other SN 2, which was bonder as the LISN 1 for the was used to connect reating of the LISN was reaced upon a non-metal and for floor-standing a round reference plane. | is a $50\Omega/50\mu\text{H} + 5\Omega$ linear units of the EUT were at to the ground reference unit being measured. A multiple power cables to a not exceeded. A above the rrangement, the EUT was |
| | | the EUT shall be 0.4 m vertical ground reference reference plane. The LISI unit under test and bor mounted on top of the gro | from the vertical group plane was bonded on 1 was placed 0.8 m aded to a ground refund reference plane. To all the EUT. At was at least 0.8 m from the must be changed at the control of the second of the control of th | and reference plane. The to the horizontal ground from the boundary of the ference plane for LISNs his distance was between All other units of the EUT m the LISN 2. ve positions of equipment |
| 2 | Test Mode: | All modes were tested, only the 802.11b was recorded in the i | | hannel of 1Mbps for |



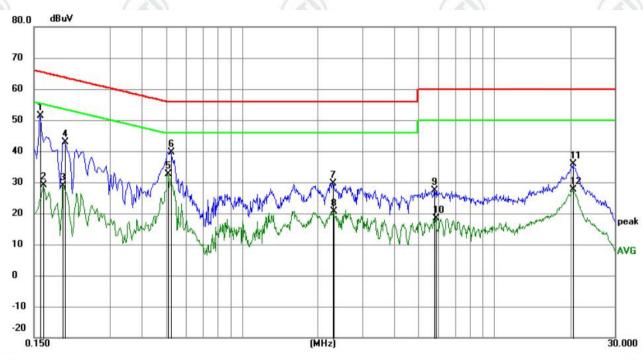
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| Test Results: | Pass | | | |
|---------------|------|--|--|--|
|---------------|------|--|--|--|

Measurement Data

Antenna schemes 1:

Live line:

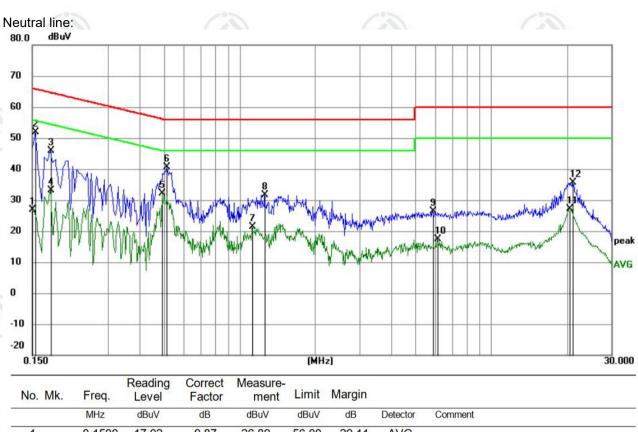


| No. Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|---------|---------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | 0.1590 | 41.43 | 9.87 | 51.30 | 65.52 | -14.22 | QP | |
| 2 | 0.1635 | 19.29 | 9.87 | 29.16 | 55.28 | -26.12 | AVG | |
| 3 | 0.1949 | 19.02 | 9.87 | 28.89 | 53.83 | -24.94 | AVG | |
| 4 | 0.1995 | 33.13 | 9.87 | 43.00 | 63.63 | -20.63 | QP | |
| 5 * | 0.5100 | 22.60 | 9.96 | 32.56 | 46.00 | -13.44 | AVG | |
| 6 | 0.5234 | 29.65 | 9.98 | 39.63 | 56.00 | -16.37 | QP | |
| 7 | 2.2919 | 19.86 | 9.79 | 29.65 | 56.00 | -26.35 | QP | |
| 8 | 2.3189 | 10.87 | 9.79 | 20.66 | 46.00 | -25.34 | AVG | |
| 9 | 5.7975 | 17.55 | 9.78 | 27.33 | 60.00 | -32.67 | QP | |
| 10 | 5.8470 | 8.60 | 9.78 | 18.38 | 50.00 | -31.62 | AVG | |
| 11 | 20.5215 | 25.87 | 9.97 | 35.84 | 60.00 | -24.16 | QP | |
| 12 | 20.5215 | 17.70 | 9.97 | 27.67 | 50.00 | -22.33 | AVG | |
| | | | | | | | | |

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.







| No. | Mk. | Freq. | Level | Factor | ment | Limit | Margin | | |
|-----|-----|---------|-------|--------|-------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | | 0.1500 | 17.02 | 9.87 | 26.89 | 56.00 | -29.11 | AVG | |
| 2 | * | 0.1544 | 41.98 | 9.87 | 51.85 | 65.76 | -13.91 | QP | |
| 3 | | 0.1770 | 35.89 | 9.87 | 45.76 | 64.63 | -18.87 | QP | |
| 4 | | 0.1770 | 23.38 | 9.87 | 33.25 | 54.63 | -21.38 | AVG | |
| 5 | | 0.4920 | 22.08 | 9.95 | 32.03 | 46.13 | -14.10 | AVG | |
| 6 | | 0.5144 | 30.77 | 9.97 | 40.74 | 56.00 | -15.26 | QP | |
| 7 | | 1.1219 | 11.58 | 9.83 | 21.41 | 46.00 | -24.59 | AVG | |
| 8 | | 1.2614 | 21.83 | 9.82 | 31.65 | 56.00 | -24.35 | QP | |
| 9 | | 5.8515 | 16.48 | 9.78 | 26.26 | 60.00 | -33.74 | QP | |
| 10 | | 6.0900 | 7.67 | 9.79 | 17.46 | 50.00 | -32.54 | AVG | |
| 11 | | 20.4090 | 17.20 | 9.97 | 27.17 | 50.00 | -22.83 | AVG | |
| 12 | 1 | 21.0390 | 25.59 | 9.98 | 35.57 | 60.00 | -24.43 | QP | |

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.











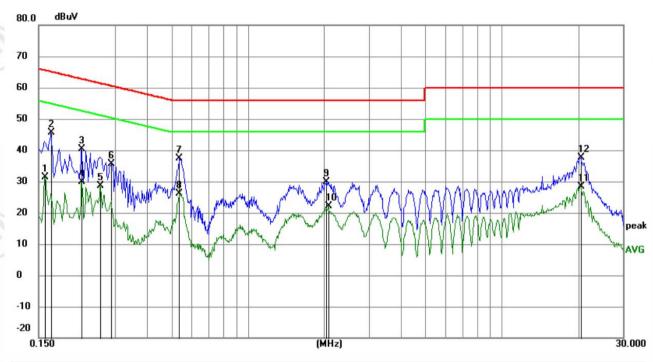




Measurement Data

Antenna schemes 2:

Live line:



| No. Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|---------|---------|------------------|-------------------|------------------|-------|--------|----------|---------|
| S- | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | 0.1590 | 21.51 | 9.87 | 31.38 | 55.52 | -24.14 | AVG | |
| 2 | 0.1680 | 35.83 | 9.87 | 45.70 | 65.06 | -19.36 | QP | |
| 3 | 0.2220 | 30.51 | 9.91 | 40.42 | 62.74 | -22.32 | QP | |
| 4 | 0.2220 | 19.86 | 9.91 | 29.77 | 52.74 | -22.97 | AVG | |
| 5 | 0.2625 | 18.58 | 10.00 | 28.58 | 51.35 | -22.77 | AVG | |
| 6 | 0.2895 | 25.47 | 10.05 | 35.52 | 60.54 | -25.02 | QP | |
| 7 * | 0.5369 | 27.51 | 9.99 | 37.50 | 56.00 | -18.50 | QP | |
| 8 | 0.5369 | 16.23 | 9.99 | 26.22 | 46.00 | -19.78 | AVG | |
| 9 | 2.0400 | 20.14 | 9.79 | 29.93 | 56.00 | -26.07 | QP | |
| 10 | 2.0803 | 12.42 | 9.79 | 22.21 | 46.00 | -23.79 | AVG | |
| 11 | 20.4720 | 18.51 | 9.97 | 28.48 | 50.00 | -21.52 | AVG | |
| 12 | 20.4945 | 27.77 | 9.97 | 37.74 | 60.00 | -22.26 | QP | |

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.





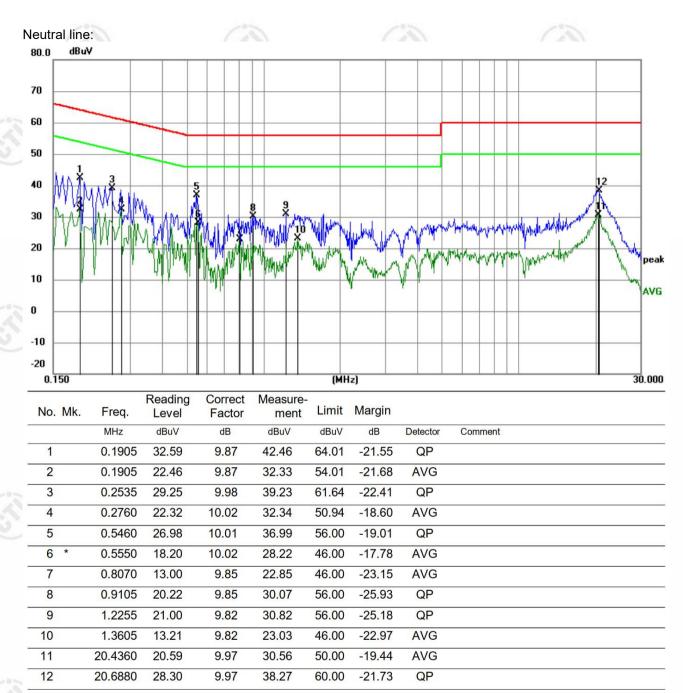












- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.









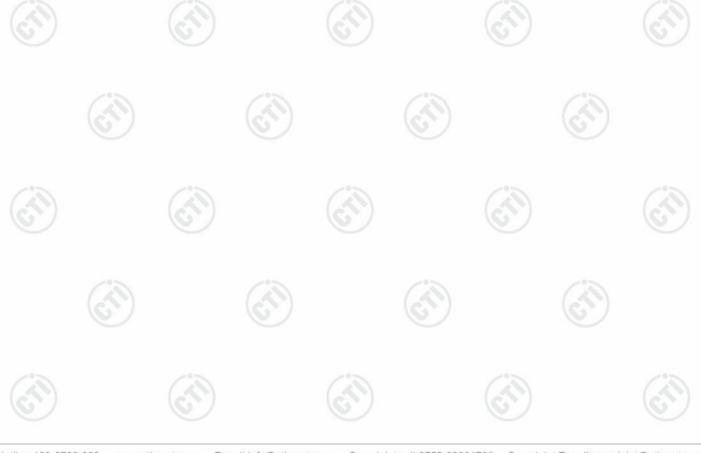




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7.3 Maximum Conducted Output Power

| Test Requirement: | 47 CFR Part 15C Section 15.247 (b)(3) |
|-------------------|---|
| Test Method: | ANSI C63.10 2013 |
| Test Setup: | |
| | Control Computer Computer Computer Computer Control Control Power Power Power Power Supply Table RF test System Instrument Instrument |
| Test Procedure: | PKPM1 Peak power meter measurement The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector. |
| Limit: | 30dBm |
| Test Mode: | Refer to clause 5.3 |
| Test Results: | Refer to Appendix 2.4G WIFI |





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7.4 DTS Bandwidth

| 10.0 | 164 / 164 / | | | | | | |
|-------------------|--|--|--|--|--|--|--|
| Test Requirement: | 47 CFR Part 15C Section 15.247 (a)(2) | | | | | | |
| Test Method: | ANSI C63.10 2013 | | | | | | |
| Test Setup: | | | | | | | |
| | Control Control Power Supply Table RF test System RSystem Instrument | | | | | | |
| | Remark: Offset=Cable loss+ attenuation factor. | | | | | | |
| Test Procedure: | a) Set RBW = 100 kHz. b) Set the VBW ≥[3 × RBW]. c) Detector = peak. d) Trace mode = max hold. e) Sweep = auto couple. f) Allow the trace to stabilize. g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission. | | | | | | |
| Limit: | ≥ 500 kHz | | | | | | |
| Test Mode: | Refer to clause 5.3 | | | | | | |
| Test Results: | Refer to Appendix 2.4G WIFI | | | | | | |
| | | | | | | | |







7.5 Maximum Power Spectral Density

| Test Requirement: 47 CFR Part 15C Section 15.247 (e) Test Method: ANSI C63.10 2013 | |
|--|---------------------|
| | |
| T 101 | |
| Test Setup: | |
| Control Computer Power P | |
| Remark: Offset=Cable loss+ attenuation factor. | |
| a) Set analyzer center frequency to DTS channel center to b) Set the span to 1.5 times the DTS bandwidth. c) Set the RBW to 3 kHz < RBW < 100 kHz. d) Set the VBW > [3 × RBW]. e) Detector = peak. f) Sweep time = auto couple. g) Trace mode = max hold. h) Allow trace to fully stabilize. i) Use the peak marker function to determine the maximulation within the RBW. j) If measured value exceeds requirement, then reduce than 3 kHz) and repeat. | mum amplitude level |
| Limit: ≤8.00dBm/3kHz | |
| Test Mode: Refer to clause 5.3 | |
| Test Results: Refer to Appendix 2.4G WIFI | |

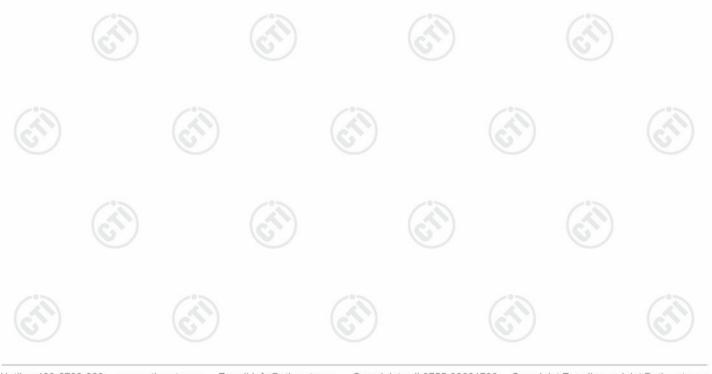






7.6 Band Edge Measurements and Conducted Spurious Emission

| Test Requirement: | 47 CFR Part 15C Section 15.247 (d) |
|-------------------|---|
| Test Method: | ANSI C63.10 2013 |
| Test Setup: | Control Computer Power Supply Power Pool Table RF test System System Instrument |
| | Remark: Offset=Cable loss+ attenuation factor. |
| Test Procedure: | a) Set RBW = 100KHz. b) Set VBW = 300KHz. c) Sweep time = auto couple. d) Detector = peak. e) Trace mode = max hold. f) Allow trace to fully stabilize. g) Use peak marker function to determine the peak amplitude level. |
| 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. |
| Test Mode: | Refer to clause 5.3 |
| Test Results: | Refer to Appendix 2.4G WIFI |
| | Test Method: Test Setup: Test Procedure: Limit: Test Mode: |

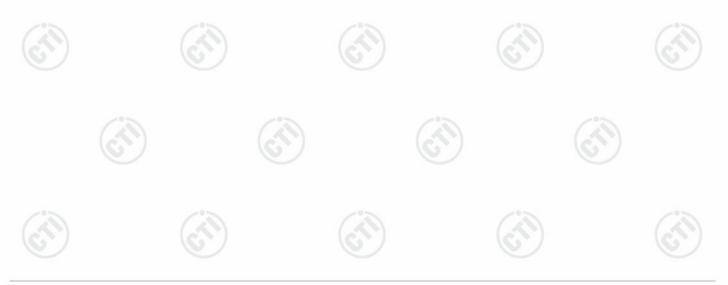






7.7 Radiated Spurious Emission & Restricted bands

| 160.00 | 100 | | 100 | | 160,0 | |
|-------------------|--|--------------|--------------------------------|------------------------|--------------|---------------------------|
| Test Requirement: | 47 CFR Part 15C Secti | on 1 | 5.209 and 15 | .205 | | |
| Test Method: | ANSI C63.10 2013 | | | | | |
| Test Site: | Measurement Distance | : 3m | n (Semi-Anech | noic Cham | ber) | -51 |
| Receiver Setup: | Frequency | 10 | Detector | RBW | VBW | Remark |
| | 0.009MHz-0.090MH | Peak | 10kHz | 30kHz | Peak | |
| | 0.009MHz-0.090MH | lz | Average | 10kHz | 30kHz | Average |
| | 0.090MHz-0.110MH | lz | Quasi-peak | 10kHz | 30kHz | Quasi-peak |
| | 0.110MHz-0.490MH | lz | Peak | 10kHz | 30kHz | Peak |
| | 0.110MHz-0.490MH | lz | Average | 10kHz | 30kHz | Average |
| | 0.490MHz -30MHz | | Quasi-peak | 10kHz | 30kHz | Quasi-peak |
| | 30MHz-1GHz | | Quasi-peak | 100 kH | z 300kHz | Quasi-peak |
| | Above 4015 | | Peak | 1MHz | 3MHz | Peak |
| | Above 1GHz | Peak | | 1MHz | 10kHz | Average |
| Limit: | Frequency | 1 | eld strength crovolt/meter) | Limit (dBuV/m) | Remark | Measuremer distance (m |
| | 0.009MHz-0.490MHz | 2 | 400/F(kHz) | - | -/05 | 300 |
| | 0.490MHz-1.705MHz | 24 | 1000/F(kHz) | - | (A) | 30 |
| | 1.705MHz-30MHz | | 30 | - | -6 | 30 |
| | 30MHz-88MHz | | 100 | 40.0 | Quasi-peak | 3 |
| | 88MHz-216MHz | | 150 | 43.5 | Quasi-peak | 3 |
| | 216MHz-960MHz | 10 | 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), frequency emissions is limit applicable to the expeak emission level radius. | 20c equip | dB above the oment under t | maximum est. This p | permitted av | erage emission |





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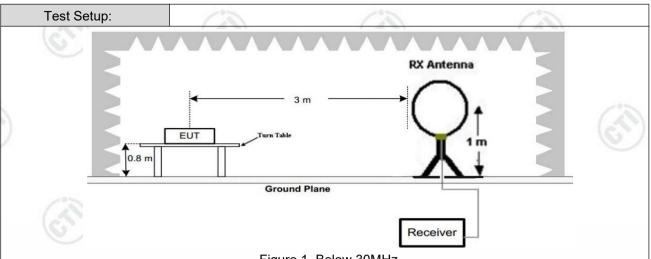
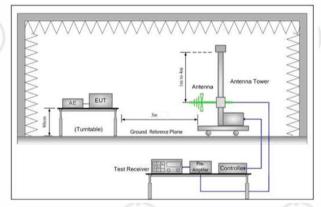


Figure 1. Below 30MHz



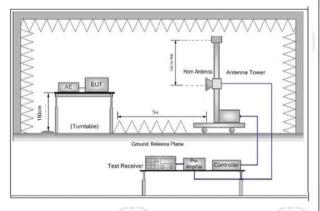


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

Test Procedure:

- 1) Below 1G: 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
 - 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 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.

Note: For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both



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| Test Results: | Pass |
|---------------|--|
| Test Mode: | Refer to clause 5.3 |
| | i. Repeat above procedures until all frequencies measured was complete. |
| | h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. |
| | g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz) |
| | 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 method as specified and then reported in a data sheet. |
| | e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. |
| | 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. |
| | horizontal and vertical polarizations of the antenna are set to make the measurement. |





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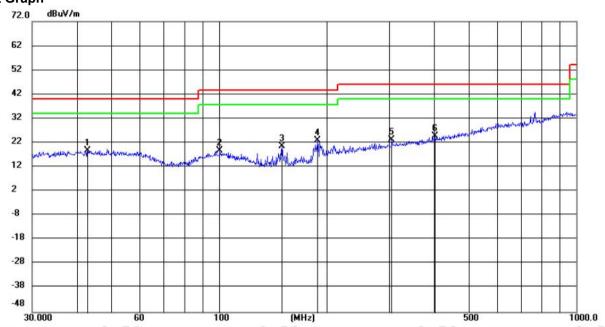
Radiated Spurious Emission below 1GHz:

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case lowest channel of 1Mbps for 802.11b was recorded in the report.

Antenna schemes 1:

Horizontal:

Test Graph



| No. Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | Antenna Height | Table Degree | |
|---------|----------|------------------|-------------------|------------------|--------|--------|----------|-------------------|-----------------|---------|
| | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | 42.8997 | 4.31 | 14.45 | 18.76 | 40.00 | -21.24 | QP | 100 | 341 | |
| 2 | 100.5806 | 4.67 | 13.97 | 18.64 | 43.50 | -24.86 | QP | 200 | 47 | |
| 3 | 150.0108 | 10.33 | 10.08 | 20.41 | 43.50 | -23.09 | QP | 200 | 218 | |
| 4 * | 189.0743 | 11.18 | 11.70 | 22.88 | 43.50 | -20.62 | QP | 200 | 356 | |
| 5 | 304.6099 | 6.01 | 17.35 | 23.36 | 46.00 | -22.64 | QP | 100 | 238 | |
| 6 | 403.2500 | 5.36 | 19.46 | 24.82 | 46.00 | -21.18 | QP | 200 | 356 | |

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Measurement =Reading Level+ Correct Factor .
- 3. Margin = Measurement- Limit .
- 4.Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low, , so only the above harmonics had be en displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

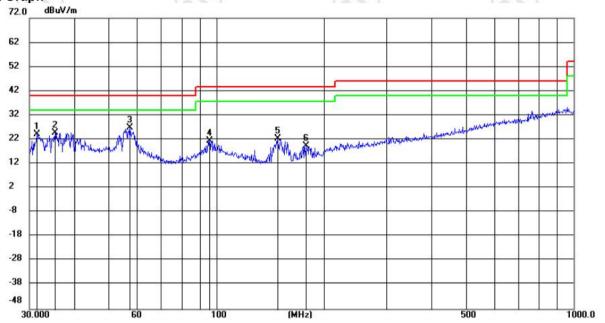






Vertical:

Test Graph



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | Antenna Height | Table Degree | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|-------------------|-----------------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 31.5095 | 11.04 | 13.03 | 24.07 | 40.00 | -15.93 | QP | 100 | 124 | |
| 2 | | 35.3750 | 11.06 | 13.71 | 24.77 | 40.00 | -15.23 | QP | 100 | 145 | |
| 3 | * | 57.3923 | 12.96 | 13.75 | 26.71 | 40.00 | -13.29 | QP | 100 | 0 | |
| 4 | | 95.7622 | 8.08 | 13.47 | 21.55 | 43.50 | -21.95 | QP | 200 | 4 | |
| 5 | | 148.4410 | 12.42 | 9.93 | 22.35 | 43.50 | -21.15 | QP | 100 | 114 | |
| 6 | | 178.1327 | 8.13 | 11.29 | 19.42 | 43.50 | -24.08 | QP | 100 | 103 | |

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Measurement =Reading Level+ Correct Factor .
- 3. Margin = Measurement-Limit.
- 4.Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low, , so only the above harmonics had be en displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB belo w the limit need not be reported.













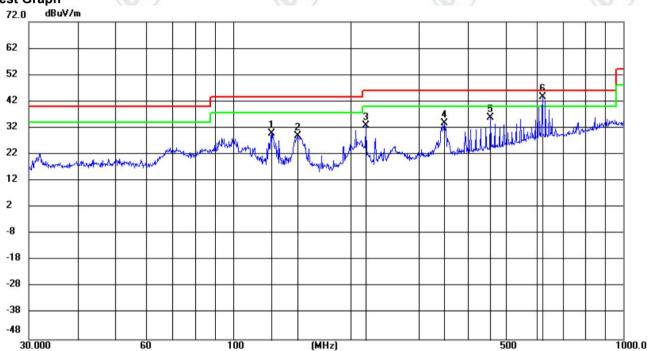






Horizontal:

Test Graph



| No. MI | k. Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | Antenna Height | Table Degree | |
|--------|----------|------------------|-------------------|------------------|--------|--------|----------|-------------------|-----------------|---------|
| | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | 125.4457 | 19.42 | 10.35 | 29.77 | 43.50 | -13.73 | peak | 200 | 74 | |
| 2 | 146.3734 | 19.24 | 9.74 | 28.98 | 43.50 | -14.52 | peak | 200 | 115 | |
| 3 | 219.0753 | 18.51 | 14.44 | 32.95 | 46.00 | -13.05 | peak | 100 | 326 | |
| 4 | 348.0274 | 15.43 | 18.27 | 33.70 | 46.00 | -12.30 | peak | 100 | 30 | |
| 5 | 457.5073 | 15.20 | 20.63 | 35.83 | 46.00 | -10.17 | peak | 200 | 95 | |
| 6 * | 620.7096 | 19.55 | 24.18 | 43.73 | 46.00 | -2.27 | peak | 100 | 146 | |
| | | | | | | | | | | |

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Measurement =Reading Level+ Correct Factor.
- 3. Margin = Measurement-Limit.
- 4.Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low, , so only the above harmonics had be en displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

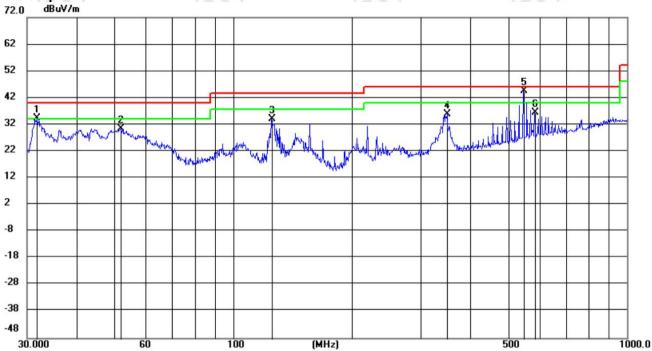






Vertical:





| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | Antenna Height | Table Degree | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|-------------------|-----------------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | ļ | 31.8427 | 21.34 | 13.08 | 34.42 | 40.00 | -5.58 | peak | 100 | 196 | |
| 2 | | 51.8430 | 16.39 | 14.14 | 30.53 | 40.00 | -9.47 | peak | 100 | 4 | |
| 3 | | 125.0066 | 23.57 | 10.43 | 34.00 | 43.50 | -9.50 | peak | 100 | 40 | |
| 4 | | 349.2500 | 17.48 | 18.31 | 35.79 | 46.00 | -10.21 | peak | 100 | 60 | |
| 5 | * | 545.1826 | 22.02 | 22.67 | 44.69 | 46.00 | -1.31 | peak | 100 | 113 | |
| 6 | | 582.7425 | 12.76 | 23.60 | 36.36 | 46.00 | -9.64 | peak | 100 | 113 | |

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Measurement =Reading Level+ Correct Factor .
- 3. Margin = Measurement- Limit .
- 4.Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low, , so only the above harmonics had be en displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB belo w the limit need not be reported.















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Radiated Spurious Emission above 1GHz:

Remark: Through Pre-scan, for 20MHz Occupied Bandwidth, 802.11 b mode was the worst case; for 40MHz Occupied Bandwidth, 802.11 n(HT40) mode was the worst case; only the worst case of antenna 1 was in the report.

Antenna schemes 1:

| Mode | : : | | 802.11 b Tran | smitting | | Channe | el: | 2412MH | Z |
|------|----------------|--------|----------------|-------------------|-------------------|-------------|--------|----------|--------|
| NO | Freq. [MHz] | Factor | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 1346.0346 | 1.22 | 40.77 | 41.99 | 74.00 | 32.01 | PASS | Н | PK |
| 2 | 1771.0771 | 3.18 | 39.74 | 42.92 | 74.00 | 31.08 | PASS | Н | PK |
| 3 | 4824.1216 | -16.22 | 58.52 | 42.30 | 74.00 | 31.70 | PASS | Н | PK |
| 4 | 7889.326 | -10.96 | 51.90 | 40.94 | 74.00 | 33.06 | PASS | Н | PK |
| 5 | 12032.6022 | -5.45 | 51.88 | 46.43 | 74.00 | 27.57 | PASS | Н | PK |
| 6 | 16970.9314 | 2.72 | 48.13 | 50.85 | 74.00 | 23.15 | PASS | Н | PK |
| 7 | 1402.2402 | 1.39 | 40.04 | 41.43 | 74.00 | 32.57 | PASS | V | PK |
| 8 | 1928.4928 | 4.18 | 39.56 | 43.74 | 74.00 | 30.26 | PASS | V | PK |
| 9 | 3666.0444 | -20.08 | 58.24 | 38.16 | 74.00 | 35.84 | PASS | V | PK |
| 10 | 4824.1216 | -16.22 | 57.70 | 41.48 | 74.00 | 32.52 | PASS | V | PK |
| 11 | 9232.4155 | -7.91 | 51.42 | 43.51 | 74.00 | 30.49 | PASS | V | PK |
| 12 | 14321.7548 | -0.08 | 49.86 | 49.78 | 74.00 | 24.22 | PASS | V | PK |

| Mode | : | | 802.11 b Tran | smitting | Channe | el: | 2437MHz | | |
|------|-------------------------|--------|----------------|-------------------|-------------------|-------------|---------|----------|--------|
| NO | NO Freq. Fact [MHz] [dB | | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 1313.2313 | 1.10 | 40.20 | 41.30 | 74.00 | 32.70 | PASS | Н | PK |
| 2 | 1893.2893 | 3.98 | 38.72 | 42.70 | 74.00 | 31.30 | PASS | Н | PK |
| 3 | 3666.0444 | -20.08 | 57.32 | 37.24 | 74.00 | 36.76 | PASS | Н | PK |
| 4 | 6250.2167 | -13.06 | 52.34 | 39.28 | 74.00 | 34.72 | PASS | Н | PK |
| 5 | 10372.4915 | -6.33 | 50.90 | 44.57 | 74.00 | 29.43 | PASS | Н | PK |
| 6 | 14372.7582 | 0.77 | 47.89 | 48.66 | 74.00 | 25.34 | PASS | Н | PK |
| 7 | 1240.6241 | 0.90 | 40.73 | 41.63 | 74.00 | 32.37 | PASS | V | PK |
| 8 | 1807.2807 | 3.34 | 39.47 | 42.81 | 74.00 | 31.19 | PASS | V | PK |
| 9 | 3361.0241 | -20.05 | 59.28 | 39.23 | 74.00 | 34.77 | PASS | V | PK |
| 10 | 5500.1667 | -14.51 | 54.08 | 39.57 | 74.00 | 34.43 | PASS | V | PK |
| 11 | 9062.4042 | -8.60 | 50.65 | 42.05 | 74.00 | 31.95 | PASS | V | PK |
| 12 | 13683.7122 | -1.75 | 49.61 | 47.86 | 74.00 | 26.14 | PASS | V | PK |













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|------|----|------|----|---|--|

| | Mode | : | | 802.11 b Tran | smitting | | Channe | el: | 2462MH | Z | |
|---|------|----------------|----------------|----------------|-------------------|-------------------|-------------|--------|----------|--------|--|
| | NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark | |
| 3 | 1 | 1347.4347 | 1.22 | 39.78 | 41.00 | 74.00 | 33.00 | PASS | Н | PK | |
| 1 | 2 | 1848.8849 | 3.64 | 39.17 | 42.81 | 74.00 | 31.19 | PASS | Н | PK | |
| | 3 | 4035.069 | -18.64 | 57.18 | 38.54 | 74.00 | 35.46 | PASS | Н | PK | |
| | 4 | 5636.1757 | -14.14 | 53.09 | 38.95 | 74.00 | 35.05 | PASS | Н | PK | |
| | 5 | 8783.3856 | -9.58 | 51.15 | 41.57 | 74.00 | 32.43 | PASS | Н | PK | |
| | 6 | 13778.7186 | -1.66 | 49.04 | 47.38 | 74.00 | 26.62 | PASS | Н | PK | |
| | 7 | 1362.2362 | 1.26 | 40.08 | 41.34 | 74.00 | 32.66 | PASS | V | PK | |
| | 8 | 2003.7004 | 4.57 | 38.42 | 42.99 | 74.00 | 31.01 | PASS | V | PK | |
| | 9 | 3667.0445 | -20.07 | 59.29 | 39.22 | 74.00 | 34.78 | PASS | V | PK | |
| | 10 | 5366.1577 | -14.63 | 55.21 | 40.58 | 74.00 | 33.42 | PASS | V | PK | |
| | 11 | 9204.4136 | -7.88 | 51.43 | 43.55 | 74.00 | 30.45 | PASS | V | PK | |
| | 12 | 14401.7601 | 1.19 | 47.71 | 48.90 | 74.00 | 25.10 | PASS | V | PK | |

| Mode | : | | 802.11 n(HT4 | 0) Transmitti | ng | Channe | el: | 2422 | 2MHz |
|------|----------------|----------------|----------------|-------------------|-------------------|-------------|--------|----------|--------|
| NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 1435.8436 | 1.42 | 40.42 | 41.84 | 74.00 | 32.16 | PASS | Н | PK |
| 2 | 2087.1087 | 4.84 | 38.65 | 43.49 | 74.00 | 30.51 | PASS | Н | PK |
| 3 | 4041.0694 | -18.60 | 57.58 | 38.98 | 74.00 | 35.02 | PASS | Н | PK |
| 4 | 5732.1821 | -13.81 | 53.38 | 39.57 | 74.00 | 34.43 | PASS | Н | PK |
| 5 | 9273.4182 | -7.93 | 50.64 | 42.71 | 74.00 | 31.29 | PASS | Н | PK |
| 6 | 14384.759 | 0.96 | 47.49 | 48.45 | 74.00 | 25.55 | PASS | Н | PK |
| 7 | 1346.8347 | 1.22 | 39.53 | 40.75 | 74.00 | 33.25 | PASS | V | PK |
| 8 | 1890.8891 | 3.96 | 39.63 | 43.59 | 74.00 | 30.41 | PASS | V | PK |
| 9 | 3353.0235 | -20.01 | 59.79 | 39.78 | 74.00 | 34.22 | PASS | V | PK |
| 10 | 4844.1229 | -16.22 | 56.52 | 40.30 | 74.00 | 33.70 | PASS | V | PK |
| 11 | 7750.3167 | -11.21 | 52.36 | 41.15 | 74.00 | 32.85 | PASS | V | PK |
| 12 | 12003.6002 | -5.27 | 52.02 | 46.75 | 74.00 | 27.25 | PASS | V | PK |













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| _ | | 20% | | 20% | | | 20% | | | |
|---|------|----------------|----------------|-------------------|-------------------|-------------------|-------------|--------|----------|--------|
| | Mode | : | | 802.11 n(HT4 | 0) Transmitti | ng | Channe | el: | 243 | 7MHz |
| | NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| | 1 | 1149.4149 | 0.83 | 41.68 | 42.51 | 74.00 | 31.49 | PASS | Н | PK |
| 3 | 2 | 1844.8845 | 3.62 | 39.50 | 43.12 | 74.00 | 30.88 | PASS | Н | PK |
| | 3 | 4031.0687 | -18.68 | 57.60 | 38.92 | 74.00 | 35.08 | PASS | Н | PK |
| | 4 | 6042.2028 | -13.04 | 52.79 | 39.75 | 74.00 | 34.25 | PASS | Н | PK |
| | 5 | 9243.4162 | -7.91 | 51.08 | 43.17 | 74.00 | 30.83 | PASS | Н | PK |
| | 6 | 12008.6006 | -5.30 | 53.22 | 47.92 | 74.00 | 26.08 | PASS | Н | PK |
| | 7 | 1330.233 | 1.16 | 40.05 | 41.21 | 74.00 | 32.79 | PASS | V | PK |
| | 8 | 1772.6773 | 3.19 | 39.38 | 42.57 | 74.00 | 31.43 | PASS | V | PK |
| | 9 | 3667.0445 | -20.07 | 56.78 | 36.71 | 74.00 | 37.29 | PASS | V | PK |
| | 10 | 4874.1249 | -16.21 | 55.30 | 39.09 | 74.00 | 34.91 | PASS | V | PK |
| | 11 | 9295.4197 | -7.95 | 51.62 | 43.67 | 74.00 | 30.33 | PASS | V | PK |
| 6 | 12 | 14396.7598 | 1.17 | 47.67 | 48.84 | 74.00 | 25.16 | PASS | V | PK |

| Mode | : | | 802.11 n(HT40) Transmitting | | | Channe | el: | 2452MHz | |
|------|----------------|----------------|-----------------------------|-------------------|-------------------|-------------|--------|----------|--------|
| NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 1313.0313 | 1.10 | 40.05 | 41.15 | 74.00 | 32.85 | PASS | Н | PK |
| 2 | 1723.6724 | 3.02 | 39.37 | 42.39 | 74.00 | 31.61 | PASS | Н | PK |
| 3 | 3861.0574 | -19.15 | 55.68 | 36.53 | 74.00 | 37.47 | PASS | Н | PK |
| 4 | 6347.2231 | -12.89 | 52.56 | 39.67 | 74.00 | 34.33 | PASS | Н | PK |
| 5 | 9206.4138 | -7.88 | 51.29 | 43.41 | 74.00 | 30.59 | PASS | Н | PK |
| 6 | 12008.6006 | -5.30 | 52.54 | 47.24 | 74.00 | 26.76 | PASS | Н | PK |
| 7 | 1280.6281 | 1.01 | 40.53 | 41.54 | 74.00 | 32.46 | PASS | V | PK |
| 8 | 2073.7074 | 4.79 | 39.90 | 44.69 | 74.00 | 29.31 | PASS | V | PK |
| 9 | 3666.0444 | -20.08 | 58.33 | 38.25 | 74.00 | 35.75 | PASS | V | PK |
| 10 | 5374.1583 | -14.61 | 54.69 | 40.08 | 74.00 | 33.92 | PASS | V | PK |
| 11 | 8830.3887 | -9.38 | 51.48 | 42.10 | 74.00 | 31.90 | PASS | V | PK |
| 12 | 11860.5907 | -5.94 | 52.40 | 46.46 | 74.00 | 27.54 | PASS | V | PK |

- 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 1GHz to 25GHz, the disturbance above 10GHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.













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Antenna schemes 2:

| Mode | ə: | | 802.11 b Trar | nsmitting | | Channe | el: | 2412MH | Z |
|------|----------------|----------------|----------------|-------------------|-------------------|-------------|--------|----------|--------|
| NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 1183.4183 | 0.80 | 40.78 | 41.58 | 74.00 | 32.42 | PASS | Н | PK |
| 2 | 1914.6915 | 4.11 | 39.45 | 43.56 | 74.00 | 30.44 | PASS | Н | PK |
| 3 | 4031.0687 | -18.68 | 56.58 | 37.90 | 74.00 | 36.10 | PASS | Н | PK |
| 4 | 4824.1216 | -16.22 | 58.07 | 41.85 | 74.00 | 32.15 | PASS | Н | PK |
| 5 | 7344.2896 | -11.61 | 52.76 | 41.15 | 74.00 | 32.85 | PASS | Н | PK |
| 6 | 11969.598 | -5.42 | 51.50 | 46.08 | 74.00 | 27.92 | PASS | Н | PK |
| 7 | 1219.2219 | 0.85 | 40.72 | 41.57 | 74.00 | 32.43 | PASS | V | PK |
| 8 | 1824.6825 | 3.46 | 39.62 | 43.08 | 74.00 | 30.92 | PASS | V | PK |
| 9 | 4824.1216 | -16.22 | 56.01 | 39.79 | 74.00 | 34.21 | PASS | V | PK |
| 10 | 7402.2935 | -11.50 | 52.56 | 41.06 | 74.00 | 32.94 | PASS | V | PK |
| 11 | 11995.5997 | -5.27 | 52.31 | 47.04 | 74.00 | 26.96 | PASS | V | PK |
| 12 | 16388.8926 | -0.23 | 50.66 | 50.43 | 74.00 | 23.57 | PASS | V | PK |

| Mode | : | | 802.11 b Trar | nsmitting | | Channe | el: | 2437MH: | Z |
|------|----------------|----------------|----------------|-------------------|-------------------|-------------|--------|----------|--------|
| NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 1190.419 | 0.80 | 40.23 | 41.03 | 74.00 | 32.97 | PASS | Н | PK |
| 2 | 1884.0884 | 3.91 | 39.02 | 42.93 | 74.00 | 31.07 | PASS | Н | PK |
| 3 | 4036.0691 | -18.64 | 56.93 | 38.29 | 74.00 | 35.71 | PASS | Н | PK |
| 4 | 7664.311 | -11.11 | 52.15 | 41.04 | 74.00 | 32.96 | PASS | Н | PK |
| 5 | 9318.4212 | -7.95 | 51.15 | 43.20 | 74.00 | 30.80 | PASS | Н | PK |
| 6 | 13763.7176 | -1.68 | 50.31 | 48.63 | 74.00 | 25.37 | PASS | Н | PK |
| 7 | 1295.2295 | 1.05 | 40.63 | 41.68 | 74.00 | 32.32 | PASS | V | PK |
| 8 | 2005.3005 | 4.57 | 38.68 | 43.25 | 74.00 | 30.75 | PASS | V | PK |
| 9 | 3667.0445 | -20.07 | 57.82 | 37.75 | 74.00 | 36.25 | PASS | V | PK |
| 10 | 6320.2213 | -12.91 | 52.74 | 39.83 | 74.00 | 34.17 | PASS | V | PK |
| 11 | 9300.42 | -7.95 | 51.77 | 43.82 | 74.00 | 30.18 | PASS | V | PK |
| 12 | 13762.7175 | -1.68 | 50.04 | 48.36 | 74.00 | 25.64 | PASS | V | PK |













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| Mode | e : | | 802.11 b Tran | smitting | | Channe | el: | 2462MH: | Z |
|------|----------------|----------------|-------------------|-------------------|-------------------|-------------|--------|----------|--------|
| NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 1415.0415 | 1.41 | 40.21 | 41.62 | 74.00 | 32.38 | PASS | Н | PK |
| 2 | 1986.0986 | 4.48 | 38.59 | 43.07 | 74.00 | 30.93 | PASS | Н | PK |
| 3 | 4039.0693 | -18.62 | 57.18 | 38.56 | 74.00 | 35.44 | PASS | Н | PK |
| 4 | 6693.2462 | -12.50 | 53.07 | 40.57 | 74.00 | 33.43 | PASS | Н | PK |
| 5 | 9169.4113 | -8.12 | 51.74 | 43.62 | 74.00 | 30.38 | PASS | Н | PK |
| 6 | 13746.7164 | -1.70 | 49.99 | 48.29 | 74.00 | 25.71 | PASS | Н | PK |
| 7 | 1363.2363 | 1.27 | 39.87 | 41.14 | 74.00 | 32.86 | PASS | V | PK |
| 8 | 1985.2985 | 4.47 | 38.05 | 42.52 | 74.00 | 31.48 | PASS | V | PK |
| 9 | 3666.0444 | -20.08 | 56.56 | 36.48 | 74.00 | 37.52 | PASS | V | PK |
| 10 | 5367.1578 | -14.63 | 53.60 | 38.97 | 74.00 | 35.03 | PASS | V | PK |
| 11 | 7764.3176 | -11.26 | 52.52 | 41.26 | 74.00 | 32.74 | PASS | V | PK |
| 12 | 13359.6906 | -3.06 | 49.80 | 46.74 | 74.00 | 27.26 | PASS | V | PK |

| Mode | : | | 802.11 n(HT40) Transmitting | | | Channe | el: | 2422MHz | |
|------|----------------|----------------|-----------------------------|-------------------|-------------------|-------------|--------|----------|--------|
| NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 1239.2239 | 0.90 | 40.48 | 41.38 | 74.00 | 32.62 | PASS | Н | PK |
| 2 | 1862.4862 | 3.75 | 39.04 | 42.79 | 74.00 | 31.21 | PASS | Н | PK |
| 3 | 4037.0691 | -18.63 | 57.24 | 38.61 | 74.00 | 35.39 | PASS | Н | PK |
| 4 | 6328.2219 | -12.90 | 53.12 | 40.22 | 74.00 | 33.78 | PASS | Н | PK |
| 5 | 9209.414 | -7.88 | 51.09 | 43.21 | 74.00 | 30.79 | PASS | Н | PK |
| 6 | 14385.7591 | 0.99 | 48.05 | 49.04 | 74.00 | 24.96 | PASS | Н | PK |
| 7 | 1299.2299 | 1.06 | 39.66 | 40.72 | 74.00 | 33.28 | PASS | V | PK |
| 8 | 1825.4825 | 3.47 | 38.76 | 42.23 | 74.00 | 31.77 | PASS | V | PK |
| 9 | 3666.0444 | -20.08 | 59.03 | 38.95 | 74.00 | 35.05 | PASS | V | PK |
| 10 | 5769.1846 | -13.68 | 53.05 | 39.37 | 74.00 | 34.63 | PASS | V | PK |
| 11 | 9784.4523 | -7.44 | 51.21 | 43.77 | 74.00 | 30.23 | PASS | V | PK |
| 12 | 14358.7572 | 0.54 | 47.85 | 48.39 | 74.00 | 25.61 | PASS | V | PK |













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| | _0_ | | _0_ | | | 70- | | | |
|------|----------------|---------------|---------------|-------------------|-------------------|-------------|--------|----------|--------|
| Mode | : | | 802.11 n(HT40 |) Transmitting | | Channe | el: | 2437MHz | |
| NO | Freq. [MHz] | Facto [dB] | | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 1276.0276 | 1.00 | 41.01 | 42.01 | 74.00 | 31.99 | PASS | Н | PK |
| 2 | 1706.2706 | 2.96 | 39.78 | 42.74 | 74.00 | 31.26 | PASS | Н | PK |
| 3 | 4042.0695 | -18.59 | 9 56.75 | 38.16 | 74.00 | 35.84 | PASS | Н | PK |
| 4 | 5977.1985 | -13.1 | 1 52.79 | 39.68 | 74.00 | 34.32 | PASS | Н | PK |
| 5 | 9205.4137 | -7.88 | 52.09 | 44.21 | 74.00 | 29.79 | PASS | Н | PK |
| 6 | 14410.7607 | 1.07 | 47.91 | 48.98 | 74.00 | 25.02 | PASS | Н | PK |
| 7 | 1295.2295 | 1.05 | 40.71 | 41.76 | 74.00 | 32.24 | PASS | V | PK |
| 8 | 1874.2874 | 3.84 | 38.89 | 42.73 | 74.00 | 31.27 | PASS | V | PK |
| 9 | 4034.0689 | -18.65 | 5 56.40 | 37.75 | 74.00 | 36.25 | PASS | V | PK |
| 10 | 5364.1576 | -14.64 | 4 54.29 | 39.65 | 74.00 | 34.35 | PASS | V | PK |
| 11 | 9203.4136 | -7.88 | 51.52 | 43.64 | 74.00 | 30.36 | PASS | V | PK |
| 12 | 13732.7155 | -1.72 | 49.66 | 47.94 | 74.00 | 26.06 | PASS | V | PK |

| Mode | : | | 802.11 n(HT40 |) Transmitting | | Channe | el: | 2452MHz | |
|------|----------------|----------------|------------------------|-------------------|-------------------|-------------|--------|----------|--------|
| NO | Freq. [MHz] | Factor [dB] | r Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 1220.022 | 0.85 | 40.23 | 41.08 | 74.00 | 32.92 | PASS | Н | PK |
| 2 | 1676.8677 | 2.79 | 40.64 | 43.43 | 74.00 | 30.57 | PASS | Н | PK |
| 3 | 3853.0569 | -19.17 | 55.90 | 36.73 | 74.00 | 37.27 | PASS | Н | PK |
| 4 | 4828.1219 | -16.22 | 55.56 | 39.34 | 74.00 | 34.66 | PASS | Н | PK |
| 5 | 7811.3208 | -11.32 | 52.83 | 41.51 | 74.00 | 32.49 | PASS | Н | PK |
| 6 | 11771.5848 | -6.15 | 52.08 | 45.93 | 74.00 | 28.07 | PASS | Н | PK |
| 7 | 1256.0256 | 0.95 | 40.02 | 40.97 | 74.00 | 33.03 | PASS | V | PK |
| 8 | 1746.2746 | 3.10 | 39.58 | 42.68 | 74.00 | 31.32 | PASS | V | PK |
| 9 | 3667.0445 | -20.07 | 7 57.94 | 37.87 | 74.00 | 36.13 | PASS | V | PK |
| 10 | 5373.1582 | -14.62 | 2 54.17 | 39.55 | 74.00 | 34.45 | PASS | V | PK |
| 11 | 9796.4531 | -7.39 | 51.27 | 43.88 | 74.00 | 30.12 | PASS | V | PK |
| 12 | 14393.7596 | 1.11 | 46.92 | 48.03 | 74.00 | 25.97 | PASS | V | PK |

- 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 1GHz to 25GHz, the disturbance above 10GHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.













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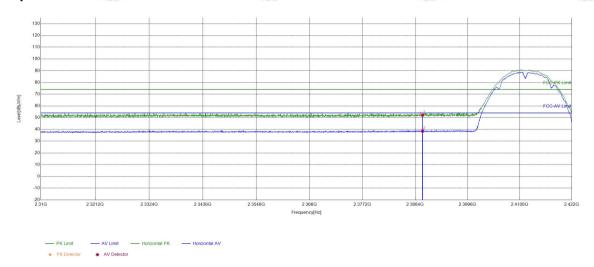
Restricted bands:

Remark:All modes were tested, only the worst case ant1 and ant2 transmit simultaneously was recorded in the report.

Antenna schemes 1:

Test plot as follows:

| Test_Mode | 802.11 b Transmitting | Test_Frequency | 2412MHz |
|-----------|--------------------------|----------------|---------|
| Remark | | | 6 |



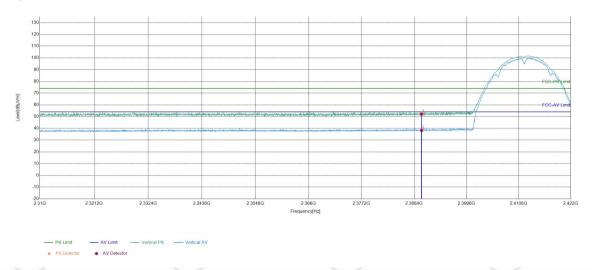
| Suspected List | | | | | | | | | |
|----------------|----------------|----------------|-------------------|-------------------|-------------------|----------------|--------|------------|--------|
| NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 2390 | 13.75 | 38.43 | 52.18 | 74.00 | 21.82 | PASS | Horizontal | PK |
| 2 | 2390 | 13.75 | 24.76 | 38.51 | 54.00 | 15.49 | PASS | Horizontal | AV |





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| Test_Mode | 802.11 b Transmitting | Test_Frequency | 2412MHz |
|-----------|--------------------------|----------------|---------|
| Remark | (| (iii | |



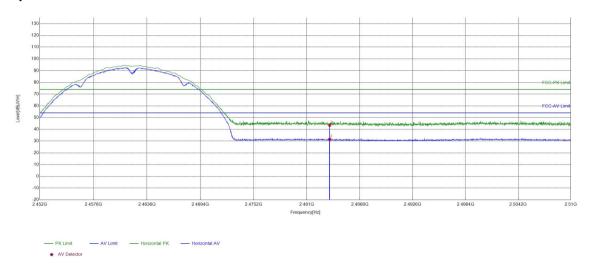
| | Suspected List | | | | | | | | | |
|-----|----------------|----------------|----------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
| 100 | NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| | 1 | 2390 | 13.75 | 38.44 | 52.19 | 74.00 | 21.81 | PASS | Vertical | PK |
| | 2 | 2390 | 13.75 | 24.50 | 38.25 | 54.00 | 15.75 | PASS | Vertical | AV |





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| Test_Mode | 802.11 b Transmitting | Test_Frequency | 2462MHz |
|-----------|--------------------------|----------------|---------|
| Remark | (| in (iii | |



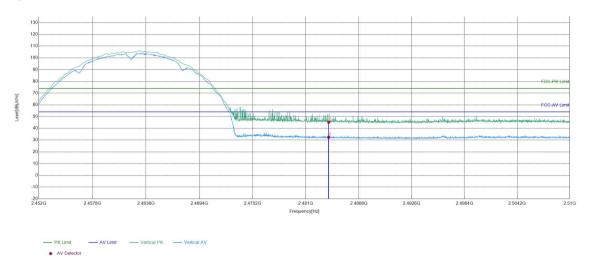
| | Suspected List | | | | | | | | | |
|-----|----------------|----------------|----------------|-------------------|-------------------|-------------------|----------------|--------|------------|--------|
| 100 | NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| | 1 | 2483.5 | 6.57 | 36.96 | 43.53 | 74.00 | 30.47 | PASS | Horizontal | PK |
| | 2 | 2483.5 | 6.57 | 24.92 | 31.49 | 54.00 | 22.51 | PASS | Horizontal | AV |





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| Test_Mode | 802.11 b Transmitting | Test_Frequency | 2462MHz |
|-----------|--------------------------|----------------|---------|
| Remark | (| (6) | (is |



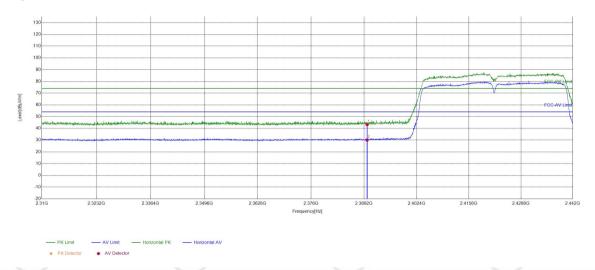
| | Suspected List | | | | | | | | | |
|-----|----------------|----------------|----------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
| 100 | NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| | 1 | 2483.5 | 6.57 | 38.71 | 45.28 | 74.00 | 28.72 | PASS | Vertical | PK |
| | 2 | 2483.5 | 6.57 | 25.89 | 32.46 | 54.00 | 21.54 | PASS | Vertical | AV |







| Test_Mode | 802.11 n(HT40) Transmitting | Test_Frequency | 2422MHz |
|-----------|--------------------------------|----------------|---------|
| Remark | C | 6 | (is |



| | Suspected List | | | | | | | | | |
|-----|----------------|----------------|----------------|-------------------|-------------------|-------------------|----------------|--------|------------|--------|
| 100 | NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| | 1 | 2390 | 5.77 | 37.46 | 43.23 | 74.00 | 30.77 | PASS | Horizontal | PK |
| | 2 | 2390 | 5.77 | 24.26 | 30.03 | 54.00 | 23.97 | PASS | Horizontal | AV |

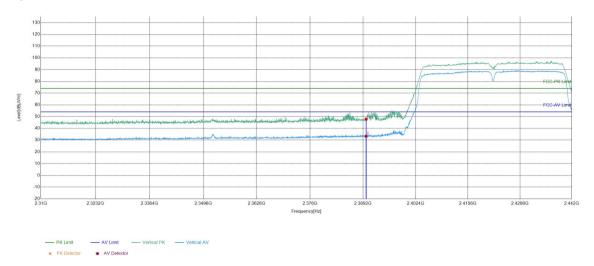




Report No.: EED32P80040001



| Test_Mode | 802.11 n(HT40) Transmitting | Test_Frequency | 2422MHz | |
|-----------|--------------------------------|----------------|---------|---|
| Remark | (| P | (in) | (|



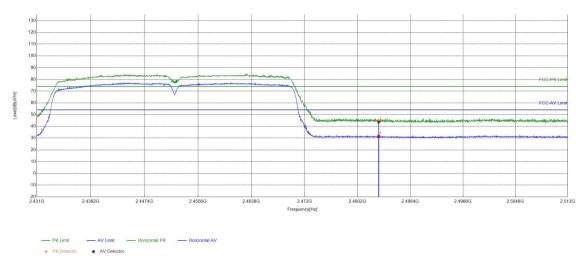
| Suspected List | | | | | | | | | | |
|----------------|----|----------------|----------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
| 100 | NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| | 1 | 2390 | 5.77 | 42.11 | 47.88 | 74.00 | 26.12 | PASS | Vertical | PK |
| | 2 | 2390 | 5.77 | 27.52 | 33.29 | 54.00 | 20.71 | PASS | Vertical | AV |



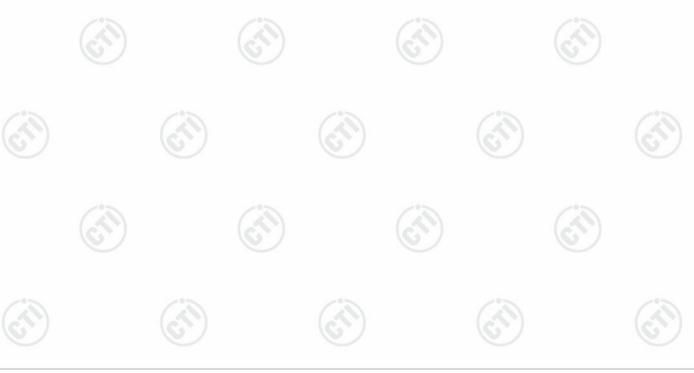


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| Test_Mode | 802.11 n(HT40) Transmitting | Test_Frequency | 2452MHz |
|-----------|--------------------------------|----------------|---------|
| Remark | (2 | (a) | (6) |



| Suspected List | | | | | | | | | | |
|----------------|----|----------------|----------------|-------------------|-------------------|-------------------|----------------|--------|------------|--------|
| 1000 | NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| | 1 | 2483.5 | 6.57 | 37.25 | 43.82 | 74.00 | 30.18 | PASS | Horizontal | PK |
| | 2 | 2483.5 | 6.57 | 24.87 | 31.44 | 54.00 | 22.56 | PASS | Horizontal | AV |

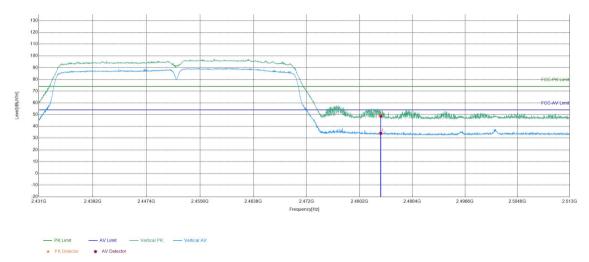




Report No.: EED32P80040001



| Test_Mode | 802.11 n(HT40) Transmitting | Test_Frequency | 2452MHz |
|-----------|--------------------------------|----------------|---------|
| Remark | (| (Ex | (iii |



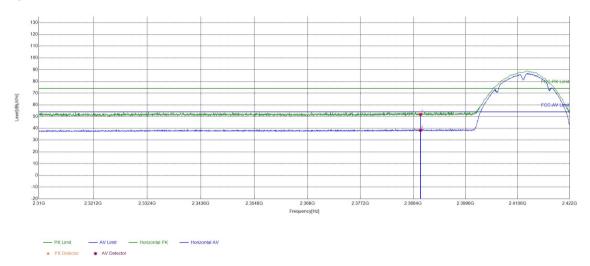
| Suspected List | | | | | | | | | | |
|----------------|----|----------------|----------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
| 1000 | NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| | 1 | 2483.5 | 6.57 | 42.18 | 48.75 | 74.00 | 25.25 | PASS | Vertical | PK |
| | 2 | 2483.5 | 6.57 | 27.49 | 34.06 | 54.00 | 19.94 | PASS | Vertical | AV |





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| Test_Mode | 802.11 b Transmitting | Test_ | Frequency | 2412MHz |
|-----------|--------------------------|-------|-----------|---------|
| Remark | | | (| |



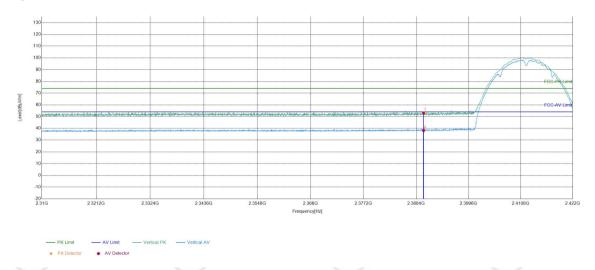
| | Suspected List | | | | | | | | | | |
|-----|----------------|----------------|----------------|-------------------|-------------------|-------------------|----------------|--------|------------|--------|--|
| 100 | NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark | |
| | 1 | 2390 | 13.75 | 38.11 | 51.86 | 74.00 | 22.14 | PASS | Horizontal | PK | |
| | 2 | 2390 | 13.75 | 24.59 | 38.34 | 54.00 | 15.66 | PASS | Horizontal | AV | |





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| Test_Mode | 802.11 b Transmitting | Test_ | Frequency | 2412MHz |
|-----------|--------------------------|-------|-----------|---------|
| Remark | | | (| |



| | Suspecte | d List | | | | | | | | |
|-----|----------|----------------|----------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
| 100 | NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| | 1 | 2390 | 13.75 | 39.45 | 53.20 | 74.00 | 20.80 | PASS | Vertical | PK |
| | 2 | 2390 | 13.75 | 24.48 | 38.23 | 54.00 | 15.77 | PASS | Vertical | AV |

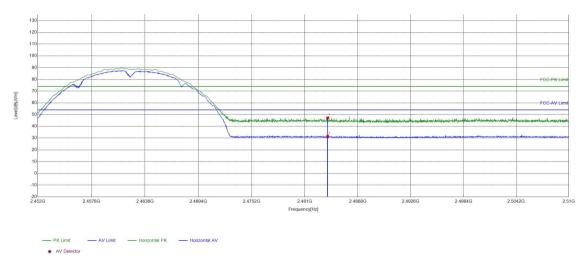




Report No.: EED32P80040001



| Test_Mode | 802.11 b Transmitting | Test_Freque | ncy | 2462MHz |
|-----------|--------------------------|-------------|-----|---------|
| Remark | | (i) | (| (ii |



| | Suspected List | | | | | | | | | | |
|-----|----------------|----------------|----------------|-------------------|-------------------|-------------------|----------------|--------|------------|--------|--|
| 100 | NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark | |
| | 1 | 2483.5 | 6.57 | 40.61 | 47.18 | 74.00 | 26.82 | PASS | Horizontal | PK | |
| | 2 | 2483.5 | 6.57 | 24.77 | 31.34 | 54.00 | 22.66 | PASS | Horizontal | AV | |

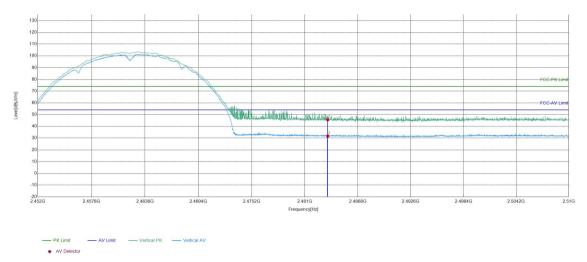








| Test_Mode | 802.11 b Transmitting | Test_Freque | ncy | 2462MHz |
|-----------|--------------------------|-------------|-----|---------|
| Remark | | | (| |



| Suspected List | | | | | | | | | | |
|----------------|----|----------------|----------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
| 100 | NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| | 1 | 2483.5 | 6.57 | 39.05 | 45.62 | 74.00 | 28.38 | PASS | Vertical | PK |
| | 2 | 2483.5 | 6.57 | 25.19 | 31.76 | 54.00 | 22.24 | PASS | Vertical | AV |

