

1-4F, Huafeng Science Park, Xin'an Sixth Road, 82th District,
Bao'an, Shenzhen, China.
Telephone: +86-755-29451282,
Fax: +86-755-22639141

Report No.: EBO1511082-E274
Page: 1 of 63

FCC Report (WIFI)

Applicant: EKEN GROUP LIMITED

Address of Applicant: Room 2511-2512, Meilan Business Center, Qianjin Two Road, Xixiang, Baoan District, Shenzhen, China

Equipment Under Test (EUT)

Product Name: ACTION CAMERA

Model No.: H3, A7, A8, A9, W9, G1, G2, G3, G4, G5, G6, G7, G8, G9, H1, H2, H4, H5, H6, H7, H8, H9, I1, I2, I3, I4, I5, I6, I7, I8, I9, N1, N2, N3, N4, N5, N6, N7, N8, N9, M1, M2, M3, M4, M5, M6, M7, M8, M9, K1, K2, K3, K4, K5, K6, K7, K8, K9, R1, R2, R3, R4, R5, R6, R7, R8, R9

FCC ID: 2ADDG-H3

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247:2014

Date of sample receipt: November 23, 2015

Date of Test: November 23, 2015 To December 8, 2015

Date of report issued: December 8, 2015

Test Result : PASS *

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

Authorized Signature:

Kevin Yu
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the EBO product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. 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 EBO International Electrical Approvals or testing done by EBO International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by EBO International Electrical Approvals in writing.

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2 Version

| Version No. | Date | Description |
|-------------|------------------|-------------|
| 00 | December 8, 2015 | Original |
| | | |
| | | |
| | | |
| | | |

Prepared By:

Date:

December 8, 2015

Project Engineer

Check By:

Date:

December 8, 2015

Reviewer

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4 Test Summary

| Test Item | Section in CFR 47 | Result |
|----------------------------------|-------------------|--------|
| Antenna requirement | 15.203/15.247 (c) | Pass |
| AC Power Line Conducted Emission | 15.207 | Pass |
| Conducted Peak Output Power | 15.247 (b)(3) | Pass |
| Channel Bandwidth | 15.247 (a)(2) | Pass |
| Power Spectral Density | 15.247 (e) | Pass |
| Band Edge | 15.247(d) | Pass |
| Spurious Emission | 15.205/15.209 | Pass |

Pass: The EUT complies with the essential requirements in the standard.

Remark : All test are according to ANSI C63.10-2013 and ANSI C63.4-2014.

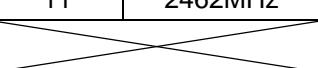
5 General Information

5.1 Client Information

| | |
|--------------------------|--|
| Applicant: | EKEN GROUP LIMITED |
| Address of Applicant: | Room 2511-2512, Meilan Business Center, Qianjin Two Road, Xixiang, Baoan District, Shenzhen, China |
| Manufacturer: | EKEN GROUP LIMITED |
| Address of Manufacturer: | Room 2511-2512, Meilan Business Center, Qianjin Two Road, Xixiang, Baoan District, Shenzhen, China |

5.2 General Description of EUT

| | |
|------------------------|--|
| Product Name: | ACTION CAMERA |
| Model No.: | H3, A7, A8, A9, W9, G1, G2, G3, G4, G5, G6, G7, G8, G9, H1, H2, H4, H5, H6, H7, H8, H9, I1, I2, I3, I4, I5, I6, I7, I8, I9, N1, N2, N3, N4, N5, N6, N7, N8, N9, M1, M2, M3, M4, M5, M6, M7, M8, M9, K1, K2, K3, K4, K5, K6, K7, K8, K9, R1, R2, R3, R4, R5, R6, R7, R8, R9 |
| Test Model No.: | H3 |
| Operation Frequency: | 802.11b/802.11g/802.11n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz |
| Channel numbers: | 802.11b/802.11g /802.11n(HT20): 11 802.11n(HT40): 7 |
| Channel separation: | 5MHz |
| Modulation technology: | 802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n(H20)/802.11n(H40): Orthogonal Frequency Division Multiplexing (OFDM) |
| Antenna Type: | Integral Antenna |
| Antenna gain: | 2dBi (declare by Applicant) |
| Power supply: | DC 5V == 1A Or DC 3.7V, 1050mAh Li-ion Battery Adapter: Model:ZXT-051000E Input:100-240V~, 50/60Hz, 0.4A Output:5V == 1A |

| Operation Frequency each of channel | | | | | | | |
|--|-----------|---------|-----------|---------|-----------|---|-----------|
| 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:

| Test channel | Frequency (MHz) | |
|---------------------|-------------------------------|---------------|
| | 802.11b/802.11g/802.11n(HT20) | 802.11n(HT40) |
| Lowest channel | 2412MHz | 2422MHz |
| Middle channel | 2437MHz | 2437MHz |
| Highest channel | 2462MHz | 2452MHz |

5.3 Test mode

| | |
|--|---|
| Transmitting mode | Keep the EUT in continuously transmitting mode (<i>dutycycle >98%</i>) |
| <i>Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.</i> | |

| | | | | | | | | | | |
|---|---------|---------|---------------|---------------|---------------|-----------|-------|-------|---------|--------|
| 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. | | | | | | | | | | |
| <table border="1"> <tr> <td>Mode</td> <td>802.11b</td> <td>802.11g</td> <td>802.11n(HT20)</td> <td>802.11n(HT40)</td> </tr> <tr> <td>Data rate</td> <td>1Mbps</td> <td>6Mbps</td> <td>6.5Mbps</td> <td>13Mbps</td> </tr> </table> | Mode | 802.11b | 802.11g | 802.11n(HT20) | 802.11n(HT40) | Data rate | 1Mbps | 6Mbps | 6.5Mbps | 13Mbps |
| Mode | 802.11b | 802.11g | 802.11n(HT20) | 802.11n(HT40) | | | | | | |
| Data rate | 1Mbps | 6Mbps | 6.5Mbps | 13Mbps | | | | | | |

5.4 Description of Support Units

| |
|------|
| None |
|------|

5.5 Test Facility

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

- **FCC —Registration No.: 600491**

Global United Technology 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 files. Registration 600491, June 28, 2013.

- **Industry Canada (IC) —Registration No.: 9079A-2**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, June 26, 2013.

5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China

6 Test Instruments list

| Radiated Emission: | | | | | | |
|--------------------|-------------------------------|-----------------------------|-----------------------------|---------------|---------------------|-------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1 | 3m Semi- Anechoic Chamber | ZhongYu Electron | 9.2(L)*6.2(W)* 6.4(H) | GTS250 | Mar. 29 2014 | Mar. 28 2016 |
| 2 | Control Room | ZhongYu Electron | 6.2(L)*2.5(W)* 2.4(H) | GTS251 | N/A | N/A |
| 3 | Spectrum Analyzer | Agilent | E4440A | GTS533 | July 08 2015 | July 07 2016 |
| 4 | EMI Test Receiver | Rohde & Schwarz | ESU26 | GTS203 | July 08 2015 | July 07 2016 |
| 5 | BiConiLog Antenna | SCHWARZBECK MESS-ELEKTRONIK | VULB9163 | GTS214 | July 08 2015 | July 07 2016 |
| 6 | Double -ridged waveguide horn | SCHWARZBECK MESS-ELEKTRONIK | 9120D-829 | GTS208 | July 08 2015 | July 07 2016 |
| 7 | Horn Antenna | ETS-LINDGREN | 3160 | GTS217 | Mar. 27 2015 | Mar. 26 2016 |
| 8 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A |
| 9 | Coaxial Cable | GTS | N/A | GTS213 | Mar. 27 2015 | Mar. 26 2016 |
| 10 | Coaxial Cable | GTS | N/A | GTS211 | Mar. 27 2015 | Mar. 26 2016 |
| 11 | Coaxial Cable | GTS | N/A | GTS210 | Mar. 27 2015 | Mar. 26 2016 |
| 12 | Coaxial Cable | GTS | N/A | GTS212 | Mar. 27 2015 | Mar. 26 2016 |
| 13 | Amplifier(100kHz-3GHz) | HP | 8347A | GTS204 | July 08 2015 | July 07 2016 |
| 14 | Amplifier(2GHz-20GHz) | HP | 8349B | GTS206 | July 08 2015 | July 07 2016 |
| 15 | Amplifier (18-26GHz) | Rohde & Schwarz | AFS33-18002 650-30-8P-44 | GTS218 | July 08 2015 | July 07 2016 |
| 16 | Band filter | Amindeon | 82346 | GTS219 | Mar. 27 2015 | Mar. 26 2016 |
| 17 | Power Meter | Anritsu | ML2495A | GTS540 | July 08 2015 | July 07 2016 |
| 18 | Power Sensor | Anritsu | MA2411B | GTS541 | July 08 2015 | July 07 2016 |

| Conducted Emission: | | | | | | |
|---------------------|-------------------|-----------------------------|----------------------|---------------|---------------------|-------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1 | Shielding Room | ZhongYu Electron | 7.0(L)x3.0(W)x3.0(H) | GTS264 | July 08 2015 | July 07 2016 |
| 2 | EMI Test Receiver | Rohde & Schwarz | ESCS30 | GTS223 | July 08 2015 | July 07 2016 |
| 3 | 10dB Pulse Limita | Rohde & Schwarz | N/A | GTS224 | July 08 2015 | July 07 2016 |
| 4 | Coaxial Switch | ANRITSU CORP | MP59B | GTS225 | July 08 2015 | July 07 2016 |
| 5 | LISN | SCHWARZBECK MESS-ELEKTRONIK | NSLK 8127 | GTS226 | July 08 2015 | July 07 2016 |
| 6 | Coaxial Cable | GTS | N/A | GTS227 | July 08 2015 | July 07 2016 |
| 7 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A |

| General used equipment: | | | | | | |
|-------------------------|----------------|--------------|-----------|---------------|---------------------|-------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1 | Barometer | ChangChun | DYM3 | GTS257 | July 08 2015 | July 07 2016 |

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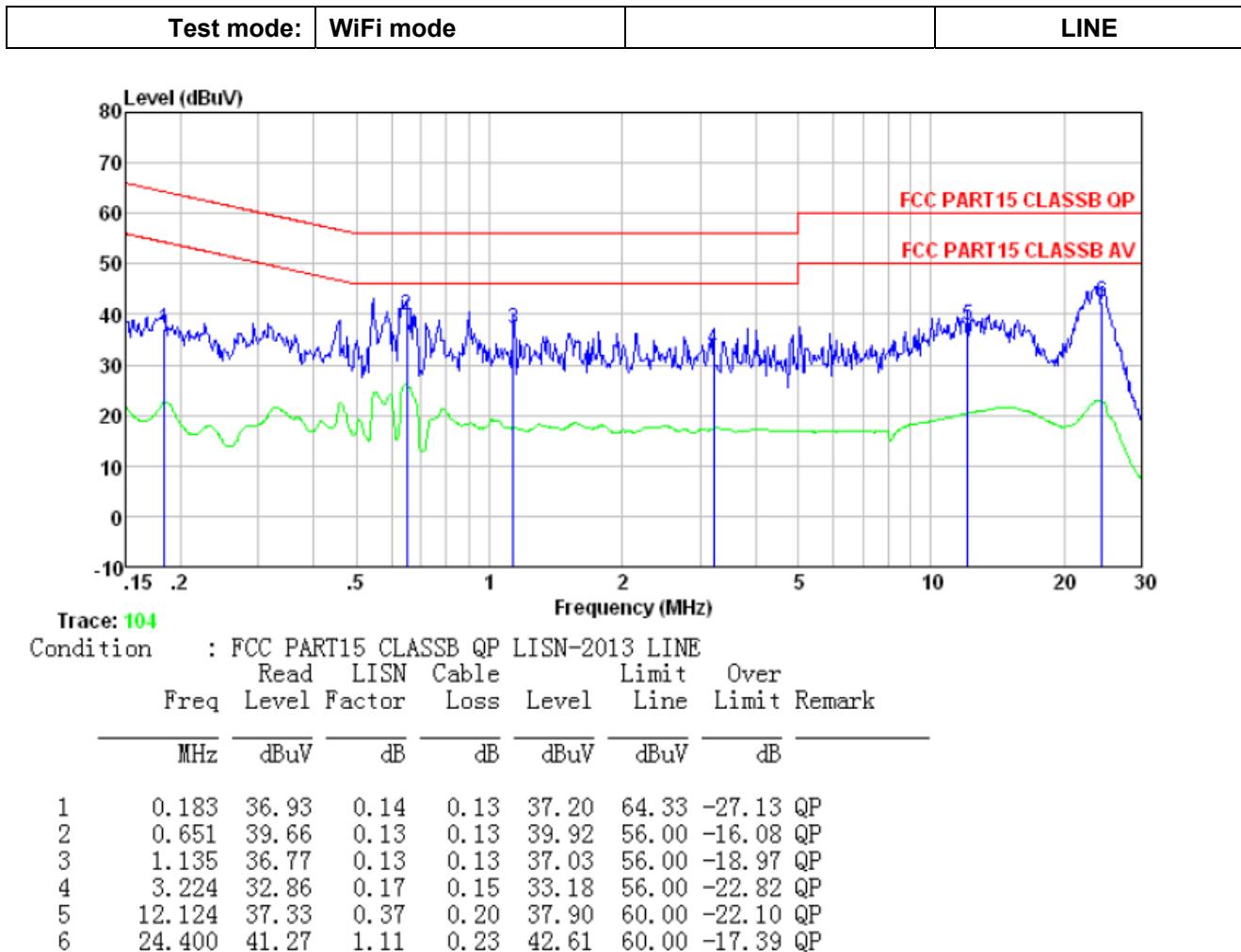
7 Test results and Measurement Data

7.1 Antenna requirement

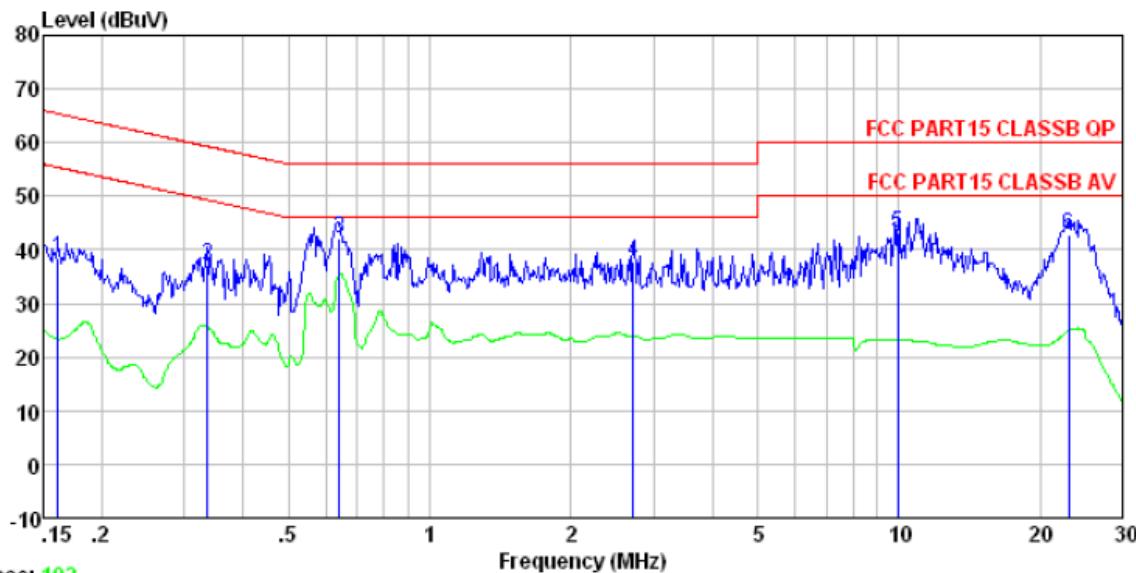
| | |
|--|-------------------------------------|
| Standard requirement: | FCC Part15 C Section 15.203 /247(c) |
| 15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently 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(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi. | |
| E.U.T Antenna: <i>The antenna is integral antenna, the best case gain of the antenna is 2dBi</i> | |

7.2 Conducted Emissions

| Test Requirement: | FCC Part15 C Section 15.207 | | | | | | | | | | | | | | | | |
|-----------------------|---|-----------|--|-----------------------|--------------|--|------------|---------|----------|-----------|-----------|-------|----|----|------|----|----|
| Test Method: | ANSI C63.10:2013 | | | | | | | | | | | | | | | | |
| Test Frequency Range: | 150KHz to 30MHz | | | | | | | | | | | | | | | | |
| Class / Severity: | Class B | | | | | | | | | | | | | | | | |
| Receiver setup: | RBW=9KHz, VBW=30KHz, Sweep time=auto | | | | | | | | | | | | | | | | |
| Limit: | <table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table> | | | Frequency range (MHz) | Limit (dBuV) | | Quasi-peak | Average | 0.15-0.5 | 66 to 56* | 56 to 46* | 0.5-5 | 56 | 46 | 5-30 | 60 | 50 |
| Frequency range (MHz) | Limit (dBuV) | | | | | | | | | | | | | | | | |
| | Quasi-peak | Average | | | | | | | | | | | | | | | |
| 0.15-0.5 | 66 to 56* | 56 to 46* | | | | | | | | | | | | | | | |
| 0.5-5 | 56 | 46 | | | | | | | | | | | | | | | |
| 5-30 | 60 | 50 | | | | | | | | | | | | | | | |
| | * Decreases with the logarithm of the frequency. | | | | | | | | | | | | | | | | |
| Test setup: | <p>Remark E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p> | | | | | | | | | | | | | | | | |
| Test procedure: | <ol style="list-style-type: none"> The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. | | | | | | | | | | | | | | | | |
| Test Instruments: | Refer to section 6.0 for details | | | | | | | | | | | | | | | | |
| Test mode: | Refer to section 5.3 for details | | | | | | | | | | | | | | | | |
| Test results: | Pass | | | | | | | | | | | | | | | | |

Measurement data:

| | | | |
|------------|-----------|--|---------|
| Test mode: | WiFi mode | | NEUTRAL |
|------------|-----------|--|---------|



| Condition | FCC PART15 CLASSB QP LISN-2013 NEUTRAL | | | | | | |
|-----------|--|--------|-------|-------|-------|-------|-----------|
| | Read | LISN | Cable | Limit | Over | Line | Limit |
| Freq | Level | Factor | Loss | Level | Line | Limit | Remark |
| MHz | dBuV | | dB | dB | dBuV | dBuV | dB |
| 1 | 0.162 | 38.42 | 0.07 | 0.12 | 38.61 | 65.38 | -26.77 QP |
| 2 | 0.336 | 37.16 | 0.06 | 0.10 | 37.32 | 59.31 | -21.99 QP |
| 3 | 0.641 | 41.90 | 0.07 | 0.13 | 42.10 | 56.00 | -13.90 QP |
| 4 | 2.721 | 37.52 | 0.10 | 0.15 | 37.77 | 56.00 | -18.23 QP |
| 5 | 9.966 | 42.74 | 0.24 | 0.19 | 43.17 | 60.00 | -16.83 QP |
| 6 | 23.018 | 41.80 | 0.87 | 0.23 | 42.90 | 60.00 | -17.10 QP |

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level =Receiver Read level + LISN Factor + Cable Loss
4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

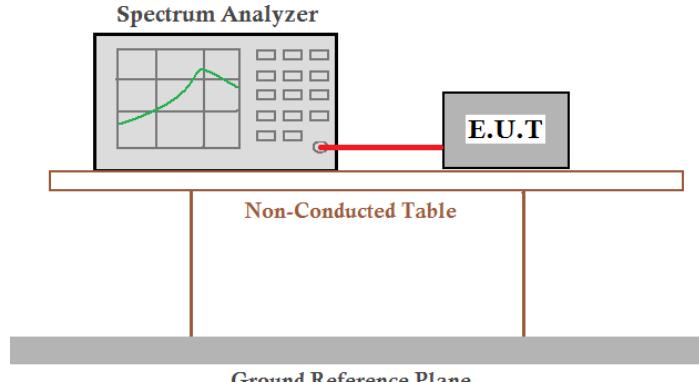
7.3 Conducted Output Power

| | |
|-------------------|--|
| Test Requirement: | FCC Part15 C Section 15.247 (b)(3) |
| Test Method: | ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03 |
| Limit: | 30dBm |
| Test setup: | <p style="text-align: center;">Power Meter</p> <p style="text-align: center;">Non-Conducted Table</p> <p style="text-align: center;">Ground Reference Plane</p> |
| Test Instruments: | Refer to section 6.0 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Pass |

Measurement Data

| Test CH | Output Power (dBm) | | | | Limit(dBm) | Result |
|---------|--------------------|---------|---------------|---------------|------------|--------|
| | 802.11b | 802.11g | 802.11n(HT20) | 802.11n(HT40) | | |
| Lowest | 8.85 | 7.29 | 7.55 | 7.15 | 30.00 | Pass |
| Middle | 8.64 | 7.37 | 7.42 | 7.21 | | |
| Highest | 8.77 | 7.23 | 7.61 | 7.09 | | |

7.4 Channel Bandwidth

| | |
|-------------------|--|
| Test Requirement: | FCC Part15 C Section 15.247 (a)(2) |
| Test Method: | ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03 |
| Limit: | >500KHz |
| Test setup: |  <p>The diagram illustrates the test setup for measuring channel bandwidth. A Spectrum Analyzer is positioned at the top left, displaying a green waveform on its screen. A red cable connects the analyzer to a gray rectangular box labeled 'E.U.T' (Equipment Under Test) located to its right. This entire assembly sits on a light-colored rectangular table labeled 'Non-Conducted Table'. Below the table is a thick horizontal bar labeled 'Ground Reference Plane'.</p> |
| Test Instruments: | Refer to section 6.0 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Pass |

Measurement Data

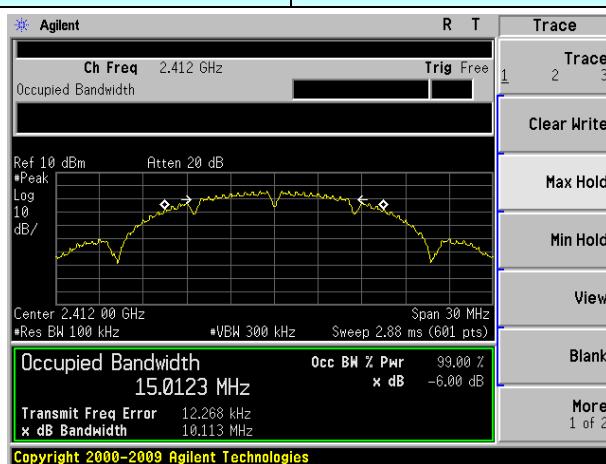
| Test CH | Channel Bandwidth (MHz) | | | | Limit(KHz) | Result |
|---------|-------------------------|---------|---------------|---------------|------------|--------|
| | 802.11b | 802.11g | 802.11n(HT20) | 802.11n(HT40) | | |
| Lowest | 10.113 | 16.617 | 17.856 | 36.562 | >500 | Pass |
| Middle | 10.113 | 16.627 | 17.869 | 36.583 | | |
| Highest | 10.116 | 16.627 | 17.859 | 36.577 | | |

Test plot as follows:

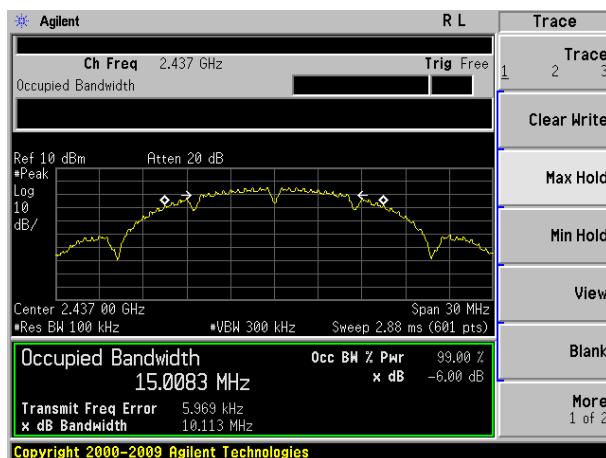
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Test mode:

802.11b



Lowest channel



Middle channel

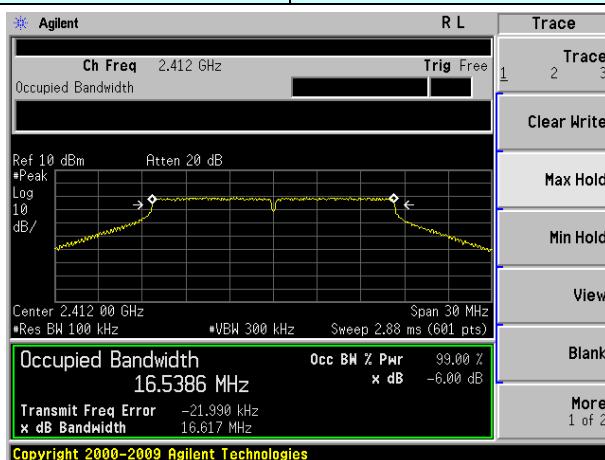


Highest channel

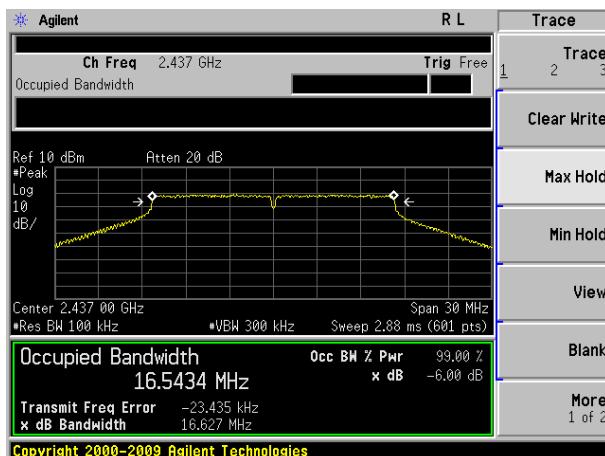
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Test mode:

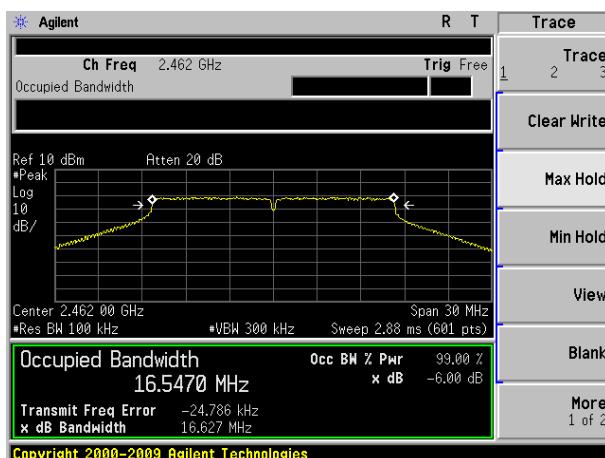
802.11g



Lowest channel



Middle channel

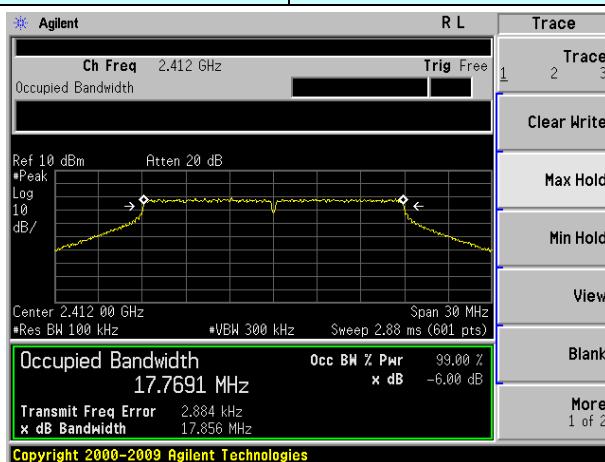


Highest channel

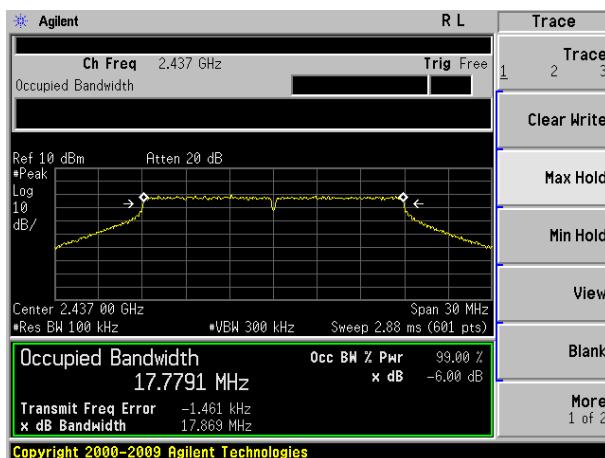
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Test mode:

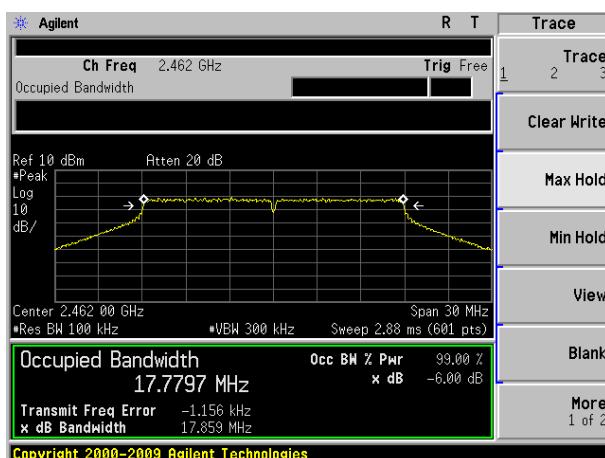
802.11n(HT20)



Lowest channel

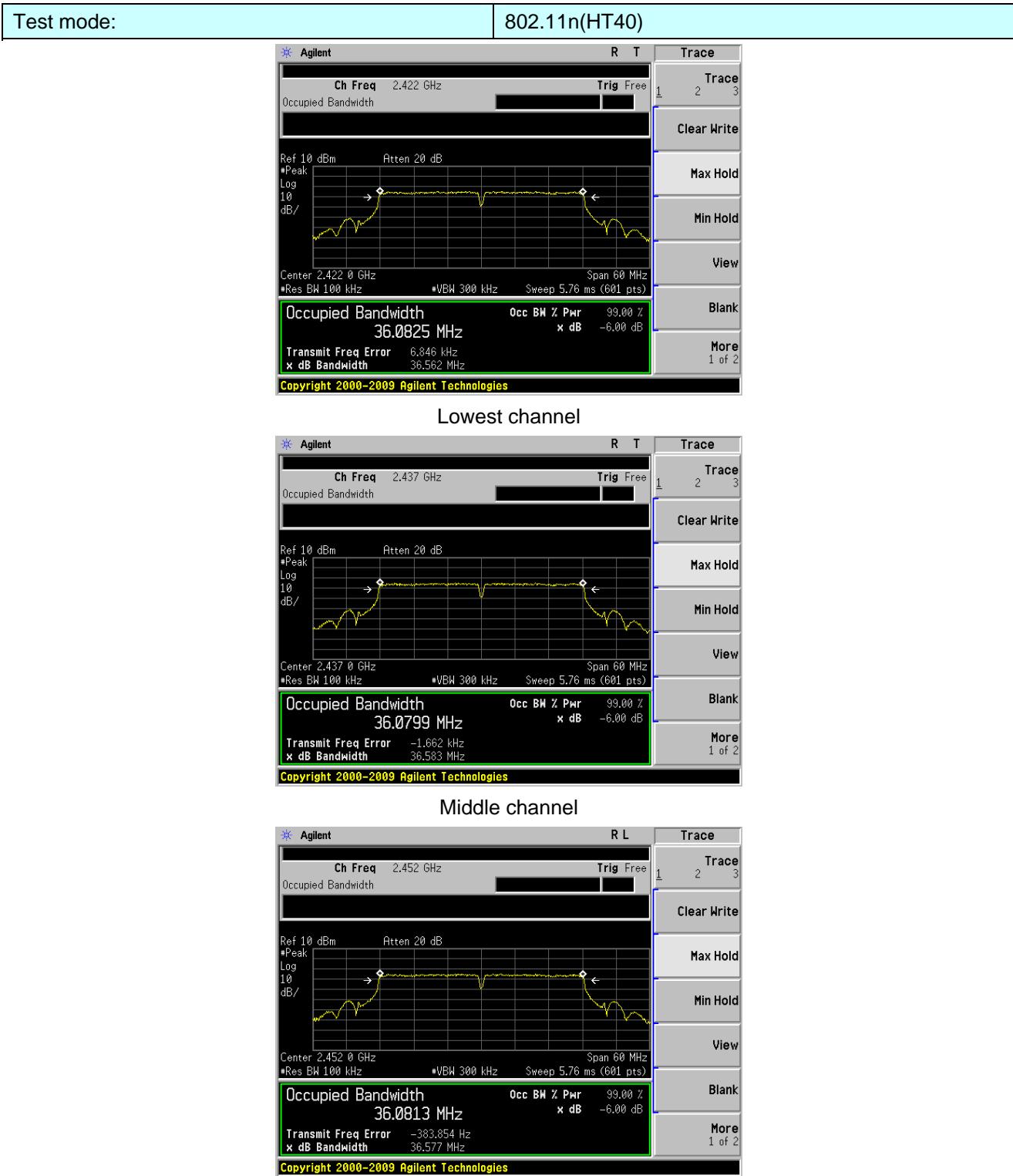


Middle channel



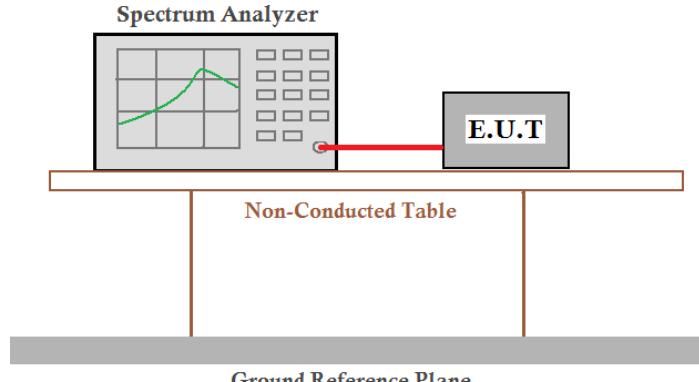
Highest channel

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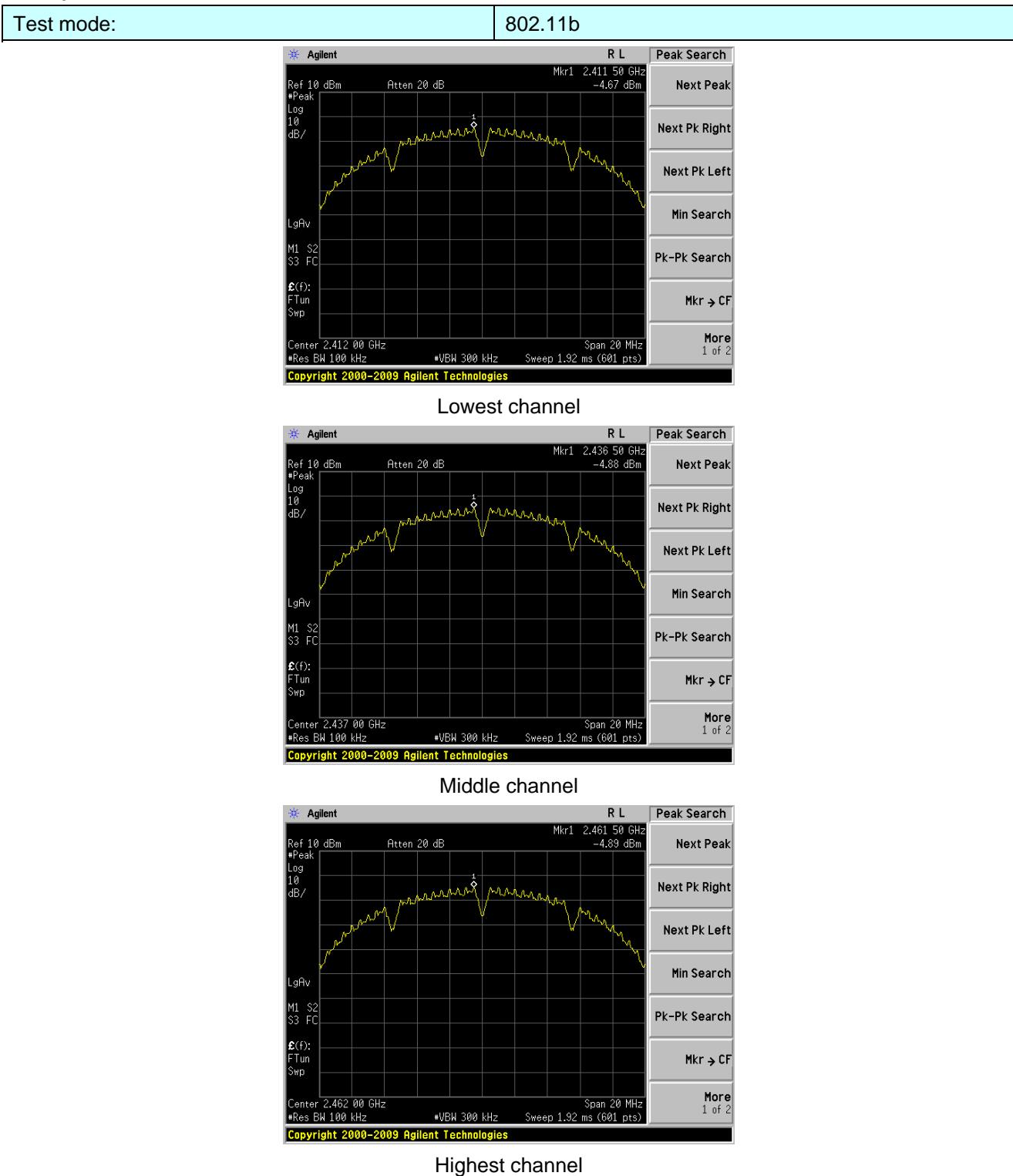
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7.5 Power Spectral Density

| | |
|-------------------|--|
| Test Requirement: | FCC Part15 C Section 15.247 (e) |
| Test Method: | ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03 |
| Limit: | 8dBm |
| Test setup: |  <p>The diagram illustrates the test setup for Power Spectral Density. A Spectrum Analyzer is connected to the E.U.T (Equipment Under Test) via a cable. The E.U.T is placed on a Non-Conducted Table. The entire assembly sits on a Ground Reference Plane.</p> |
| Test Instruments: | Refer to section 6.0 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Pass |

Measurement Data

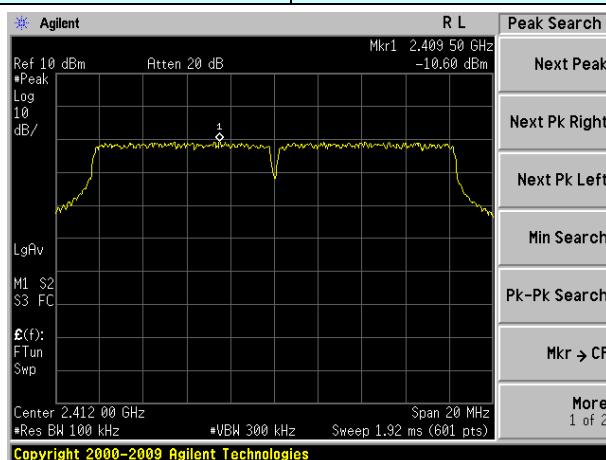
| Test CH | Power Spectral Density (dBm) | | | | Limit(dBm/3kHz) | Result |
|---------|------------------------------|---------|---------------|---------------|-----------------|--------|
| | 802.11b | 802.11g | 802.11n(HT20) | 802.11n(HT40) | | |
| Lowest | -4.67 | -10.60 | -11.10 | -14.75 | 8.00 | Pass |
| Middle | -4.88 | -10.77 | -10.73 | -14.77 | | |
| Highest | -4.89 | -11.10 | -11.06 | -14.97 | | |

Test plot as follows:

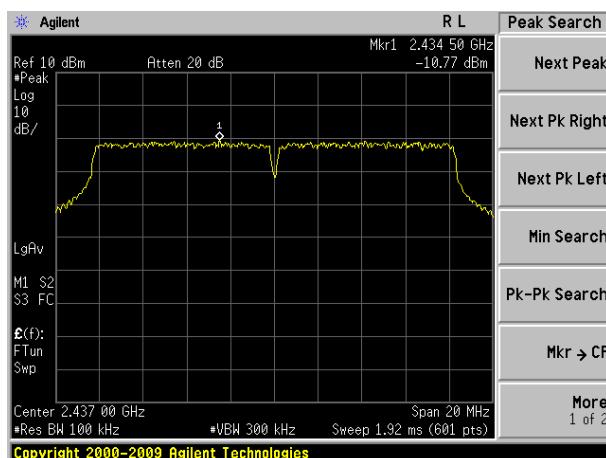
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Test mode:

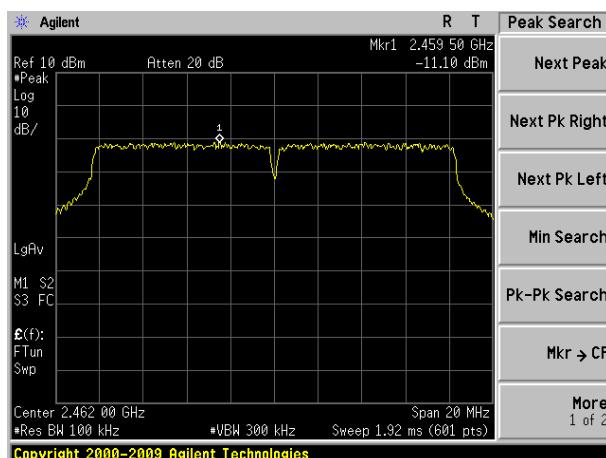
802.11g



Lowest channel



Middle channel

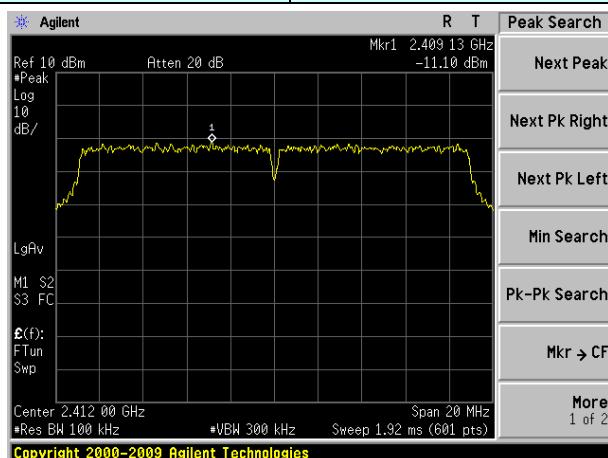


Highest channel

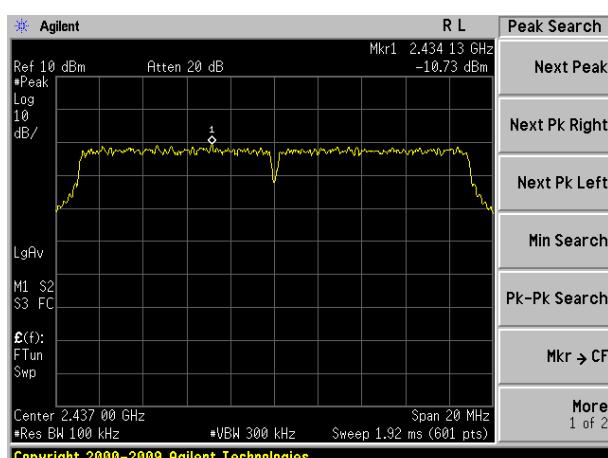
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Test mode:

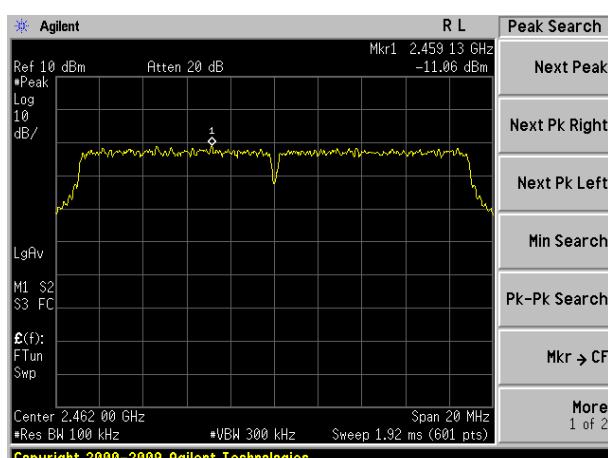
802.11n(HT20)



Lowest channel



Middle channel

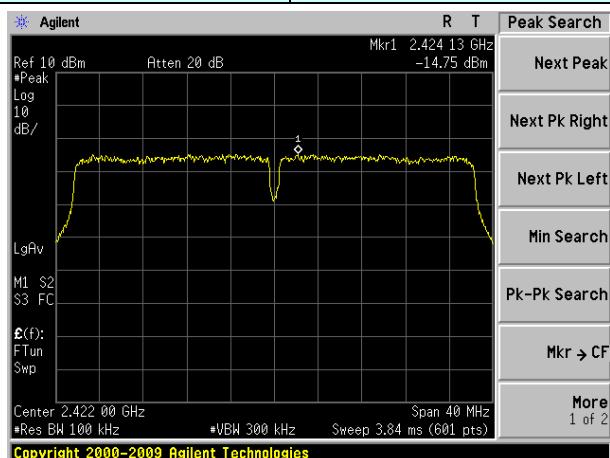


Highest channel

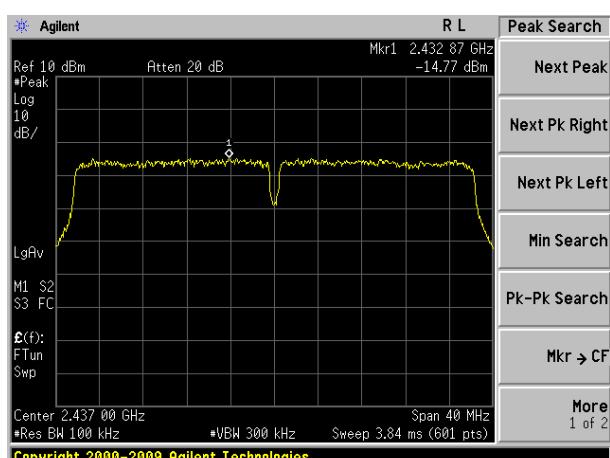
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Test mode:

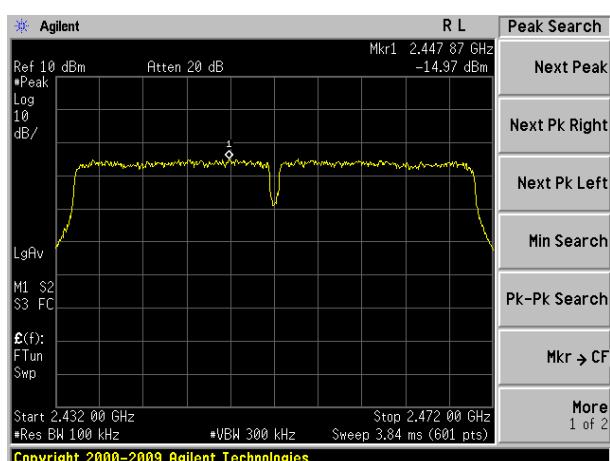
802.11n(HT40)



Lowest channel



Middle channel

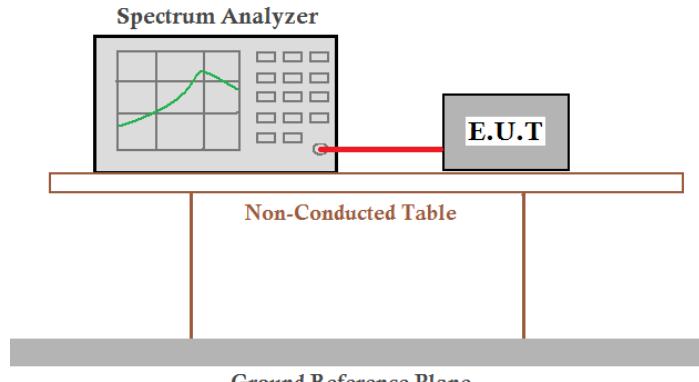


Highest channel

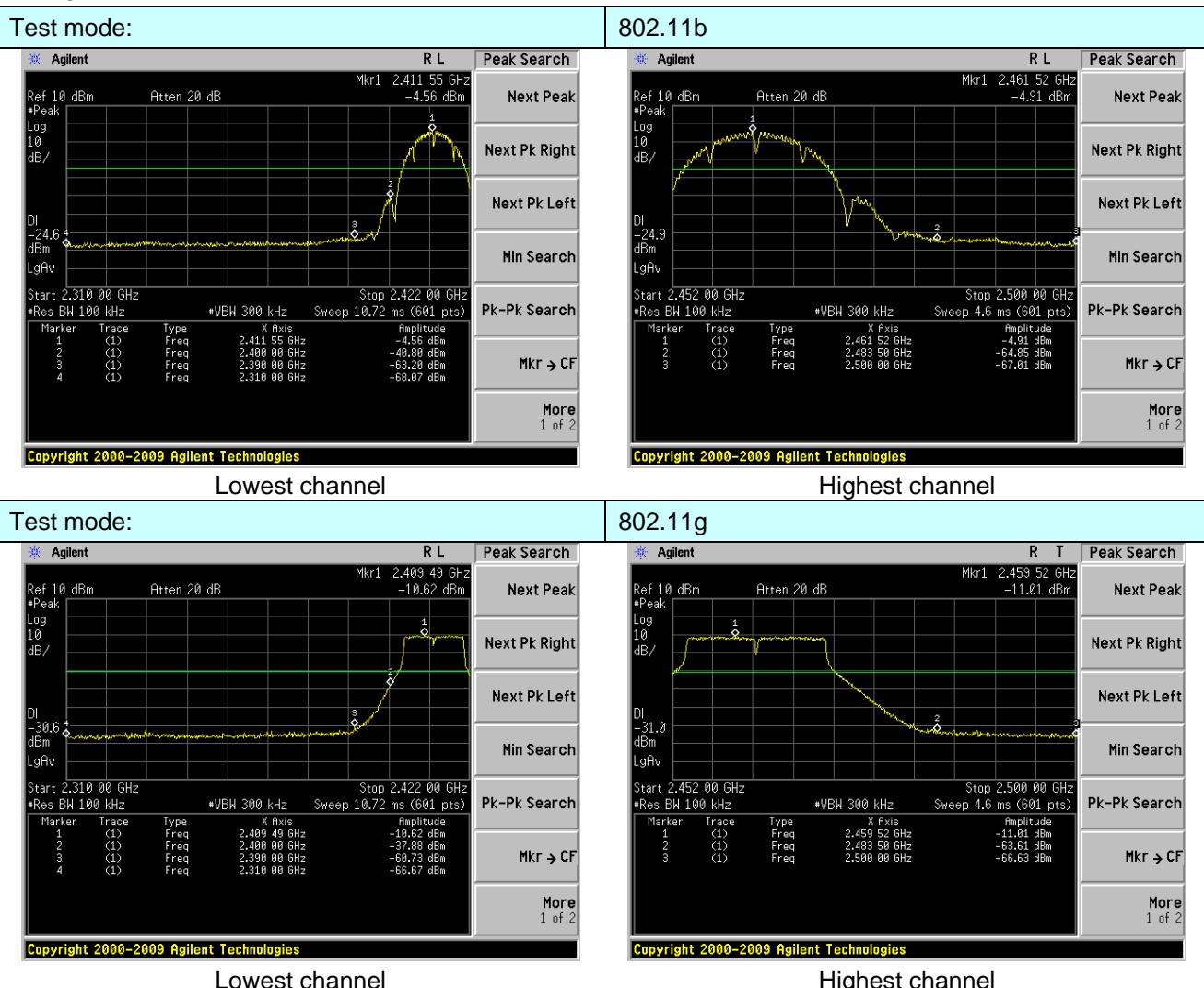
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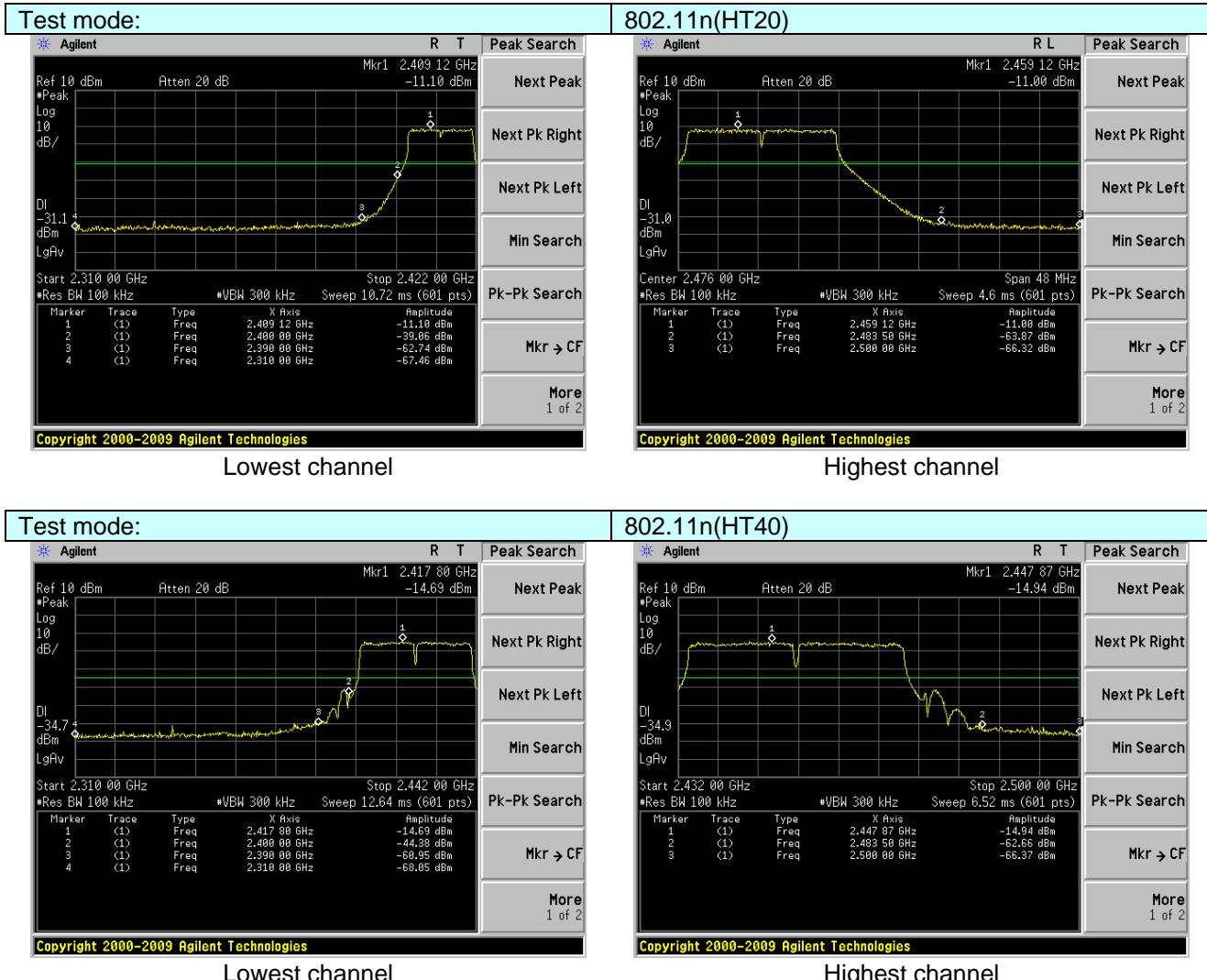
7.6 Band edges

7.6.1 Conducted Emission Method

| | |
|-------------------|---|
| Test Requirement: | FCC Part15 C Section 15.247 (d) |
| Test Method: | ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03 |
| 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 30 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 setup: |  |
| Test Instruments: | Refer to section 6.0 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Pass |

Test plot as follows:





7.6.2 Radiated Emission Method

| | | | | | | | |
|-----------------------|--|----------|--------------------|------|---------|--|--|
| Test Requirement: | FCC Part15 C Section 15.209 and 15.205 | | | | | | |
| Test Method: | ANSI C63.10:2013 | | | | | | |
| Test Frequency Range: | All of the restrict bands were tested, only the worst band's (2390MHz to 2500MHz) data was showed. | | | | | | |
| Test site: | Measurement Distance: 3m | | | | | | |
| Receiver setup: | Frequency | Detector | RBW | VBW | Value | | |
| | Above 1GHz | Peak | 1MHz | 3MHz | Peak | | |
| | | RMS | 1MHz | 3MHz | Average | | |
| Limit: | Frequency | | Limit (dBuV/m @3m) | | Value | | |
| | Above 1GHz | | 54.00 | | Average | | |
| | | | 74.00 | | Peak | | |
| Test setup: | | | | | | | |
| Test Procedure: | <ol style="list-style-type: none"> The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 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 horizontal and vertical polarizations of the antenna are set to make the measurement. 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 and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report. | | | | | | |
| Test Instruments: | Refer to section 6.0 for details | | | | | | |
| Test mode: | Refer to section 5.3 for details | | | | | | |

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| | |
|---------------|------|
| Test results: | Pass |
|---------------|------|

Measurement data:

Remark: The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.

| | | | |
|------------|---------|---------------|--------|
| Test mode: | 802.11b | Test channel: | Lowest |
|------------|---------|---------------|--------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2390.00 | 51.62 | 27.59 | 5.38 | 34.01 | 50.58 | 74.00 | -23.42 | Horizontal |
| 2400.00 | 60.63 | 27.58 | 5.39 | 34.01 | 59.59 | 74.00 | -14.41 | Horizontal |
| 2390.00 | 53.30 | 27.59 | 5.38 | 34.01 | 52.26 | 74.00 | -21.74 | Vertical |
| 2400.00 | 62.42 | 27.58 | 5.39 | 34.01 | 61.38 | 74.00 | -12.62 | Vertical |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2390.00 | 38.39 | 27.59 | 5.38 | 34.01 | 37.35 | 54.00 | -16.65 | Horizontal |
| 2400.00 | 46.68 | 27.58 | 5.39 | 34.01 | 45.64 | 54.00 | -8.36 | Horizontal |
| 2390.00 | 40.21 | 27.59 | 5.38 | 34.01 | 39.17 | 54.00 | -14.83 | Vertical |
| 2400.00 | 47.81 | 27.58 | 5.39 | 34.01 | 46.77 | 54.00 | -7.23 | Vertical |

| | | | |
|------------|---------|---------------|---------|
| Test mode: | 802.11b | Test channel: | Highest |
|------------|---------|---------------|---------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2483.50 | 52.27 | 27.53 | 5.47 | 33.92 | 51.35 | 74.00 | -22.65 | Horizontal |
| 2500.00 | 48.10 | 27.55 | 5.49 | 29.93 | 51.21 | 74.00 | -22.79 | Horizontal |
| 2483.50 | 54.52 | 27.53 | 5.47 | 33.92 | 53.60 | 74.00 | -20.40 | Vertical |
| 2500.00 | 50.61 | 27.55 | 5.49 | 29.93 | 53.72 | 74.00 | -20.28 | Vertical |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2483.50 | 38.75 | 27.53 | 5.47 | 33.92 | 37.83 | 54.00 | -16.17 | Horizontal |
| 2500.00 | 34.86 | 27.55 | 5.49 | 29.93 | 37.97 | 54.00 | -16.03 | Horizontal |
| 2483.50 | 40.70 | 27.53 | 5.47 | 33.92 | 39.78 | 54.00 | -14.22 | Vertical |

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| | | | | | | | | |
|---------|-------|-------|------|-------|-------|-------|--------|----------|
| 2500.00 | 36.74 | 27.55 | 5.49 | 29.93 | 39.85 | 54.00 | -14.15 | Vertical |
|---------|-------|-------|------|-------|-------|-------|--------|----------|

Remark:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

| | | | |
|------------|---------|---------------|--------|
| Test mode: | 802.11g | Test channel: | Lowest |
|------------|---------|---------------|--------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2390.00 | 50.25 | 27.59 | 5.38 | 34.01 | 49.21 | 74.00 | -24.79 | Horizontal |
| 2400.00 | 58.79 | 27.58 | 5.39 | 34.01 | 57.75 | 74.00 | -16.25 | Horizontal |
| 2390.00 | 51.83 | 27.59 | 5.38 | 34.01 | 50.79 | 74.00 | -23.21 | Vertical |
| 2400.00 | 60.21 | 27.58 | 5.39 | 34.01 | 59.17 | 74.00 | -14.83 | Vertical |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2390.00 | 37.41 | 27.59 | 5.38 | 34.01 | 36.37 | 54.00 | -17.63 | Horizontal |
| 2400.00 | 45.56 | 27.58 | 5.39 | 34.01 | 44.52 | 54.00 | -9.48 | Horizontal |
| 2390.00 | 39.12 | 27.59 | 5.38 | 34.01 | 38.08 | 54.00 | -15.92 | Vertical |
| 2400.00 | 46.57 | 27.58 | 5.39 | 34.01 | 45.53 | 54.00 | -8.47 | Vertical |

| | | | |
|------------|---------|---------------|---------|
| Test mode: | 802.11g | Test channel: | Highest |
|------------|---------|---------------|---------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2483.50 | 50.31 | 27.53 | 5.47 | 33.92 | 49.39 | 74.00 | -24.61 | Horizontal |
| 2500.00 | 46.58 | 27.55 | 5.49 | 29.93 | 49.69 | 74.00 | -24.31 | Horizontal |
| 2483.50 | 52.28 | 27.53 | 5.47 | 33.92 | 51.36 | 74.00 | -22.64 | Vertical |
| 2500.00 | 48.83 | 27.55 | 5.49 | 29.93 | 51.94 | 74.00 | -22.06 | Vertical |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2483.50 | 37.57 | 27.53 | 5.47 | 33.92 | 36.65 | 54.00 | -17.35 | Horizontal |
| 2500.00 | 33.94 | 27.55 | 5.49 | 29.93 | 37.05 | 54.00 | -16.95 | Horizontal |
| 2483.50 | 39.39 | 27.53 | 5.47 | 33.92 | 38.47 | 54.00 | -15.53 | Vertical |
| 2500.00 | 35.76 | 27.55 | 5.49 | 29.93 | 38.87 | 54.00 | -15.13 | Vertical |

Remark:

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1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

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

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2390.00 | 49.93 | 27.59 | 5.38 | 34.01 | 48.89 | 74.00 | -25.11 | Horizontal |
| 2400.00 | 58.37 | 27.58 | 5.39 | 34.01 | 57.33 | 74.00 | -16.67 | Horizontal |
| 2390.00 | 51.49 | 27.59 | 5.38 | 34.01 | 50.45 | 74.00 | -23.55 | Vertical |
| 2400.00 | 59.70 | 27.58 | 5.39 | 34.01 | 58.66 | 74.00 | -15.34 | Vertical |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2390.00 | 37.19 | 27.59 | 5.38 | 34.01 | 36.15 | 54.00 | -17.85 | Horizontal |
| 2400.00 | 45.30 | 27.58 | 5.39 | 34.01 | 44.26 | 54.00 | -9.74 | Horizontal |
| 2390.00 | 38.87 | 27.59 | 5.38 | 34.01 | 37.83 | 54.00 | -16.17 | Vertical |
| 2400.00 | 46.29 | 27.58 | 5.39 | 34.01 | 45.25 | 54.00 | -8.75 | Vertical |

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

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2483.50 | 49.85 | 27.53 | 5.47 | 33.92 | 48.93 | 74.00 | -25.07 | Horizontal |
| 2500.00 | 46.23 | 27.55 | 5.49 | 29.93 | 49.34 | 74.00 | -24.66 | Horizontal |
| 2483.50 | 51.76 | 27.53 | 5.47 | 33.92 | 50.84 | 74.00 | -23.16 | Vertical |
| 2500.00 | 48.41 | 27.55 | 5.49 | 29.93 | 51.52 | 74.00 | -22.48 | Vertical |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2483.50 | 37.29 | 27.53 | 5.47 | 33.92 | 36.37 | 54.00 | -17.63 | Horizontal |
| 2500.00 | 33.72 | 27.55 | 5.49 | 29.93 | 36.83 | 54.00 | -17.17 | Horizontal |
| 2483.50 | 39.08 | 27.53 | 5.47 | 33.92 | 38.16 | 54.00 | -15.84 | Vertical |
| 2500.00 | 35.53 | 27.55 | 5.49 | 29.93 | 38.64 | 54.00 | -15.36 | Vertical |

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1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

| | | | |
|------------|---------------|---------------|--------|
| Test mode: | 802.11n(HT40) | Test channel: | Lowest |
|------------|---------------|---------------|--------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2390.00 | 48.98 | 27.59 | 5.38 | 34.01 | 47.94 | 74.00 | -26.06 | Horizontal |
| 2400.00 | 57.09 | 27.58 | 5.39 | 34.01 | 56.05 | 74.00 | -17.95 | Horizontal |
| 2390.00 | 50.47 | 27.59 | 5.38 | 34.01 | 49.43 | 74.00 | -24.57 | Vertical |
| 2400.00 | 58.17 | 27.58 | 5.39 | 34.01 | 57.13 | 74.00 | -16.87 | Vertical |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2390.00 | 36.51 | 27.59 | 5.38 | 34.01 | 35.47 | 54.00 | -18.53 | Horizontal |
| 2400.00 | 44.51 | 27.58 | 5.39 | 34.01 | 43.47 | 54.00 | -10.53 | Horizontal |
| 2390.00 | 38.11 | 27.59 | 5.38 | 34.01 | 37.07 | 54.00 | -16.93 | Vertical |
| 2400.00 | 45.43 | 27.58 | 5.39 | 34.01 | 44.39 | 54.00 | -9.61 | Vertical |

| | | | |
|------------|---------------|---------------|---------|
| Test mode: | 802.11n(HT40) | Test channel: | Highest |
|------------|---------------|---------------|---------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2483.50 | 48.49 | 27.53 | 5.47 | 33.92 | 47.57 | 74.00 | -26.43 | Horizontal |
| 2500.00 | 45.17 | 27.55 | 5.49 | 29.93 | 48.28 | 74.00 | -25.72 | Horizontal |
| 2483.50 | 50.20 | 27.53 | 5.47 | 33.92 | 49.28 | 74.00 | -24.72 | Vertical |
| 2500.00 | 47.17 | 27.55 | 5.49 | 29.93 | 50.28 | 74.00 | -23.72 | Vertical |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2483.50 | 36.47 | 27.53 | 5.47 | 33.92 | 35.55 | 54.00 | -18.45 | Horizontal |
| 2500.00 | 33.08 | 27.55 | 5.49 | 29.93 | 36.19 | 54.00 | -17.81 | Horizontal |
| 2483.50 | 38.18 | 27.53 | 5.47 | 33.92 | 37.26 | 54.00 | -16.74 | Vertical |
| 2500.00 | 34.86 | 27.55 | 5.49 | 29.93 | 37.97 | 54.00 | -16.03 | Vertical |

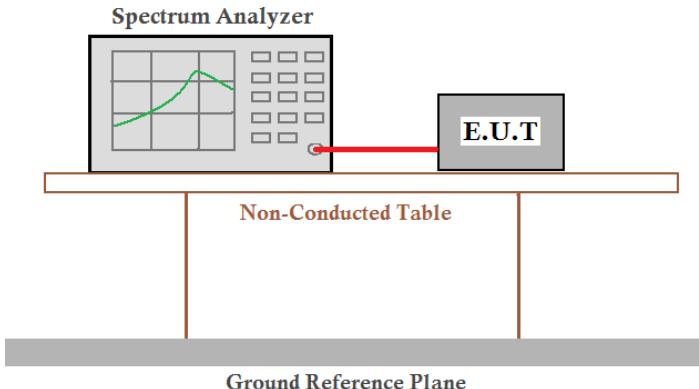
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1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

7.7 Spurious Emission

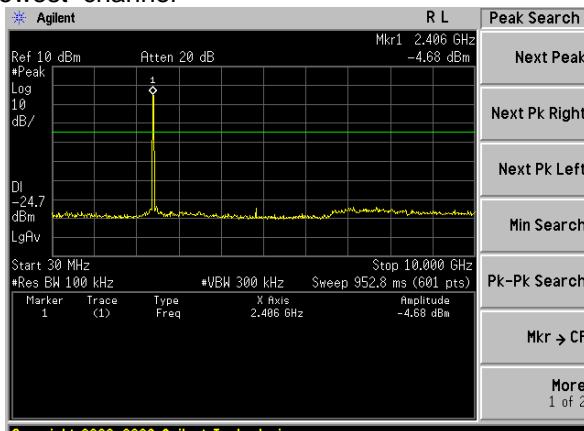
7.7.1 Conducted Emission Method

| | |
|-------------------|---|
| Test Requirement: | FCC Part15 C Section 15.247 (d) |
| Test Method: | ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03 |
| 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 setup: |  |
| Test Instruments: | Refer to section 6.0 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Pass |

Test plot as follows:

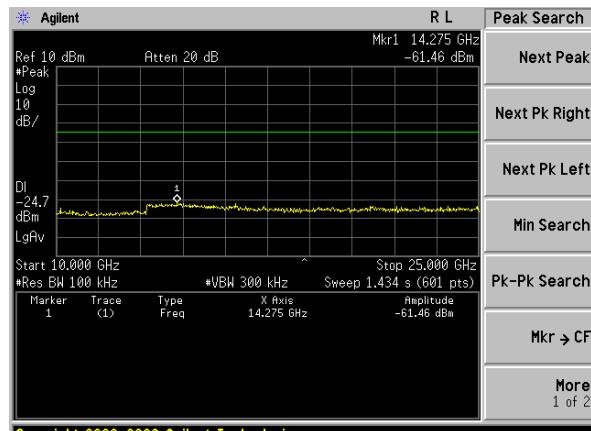
Test mode:

802.11b

Lowest channel

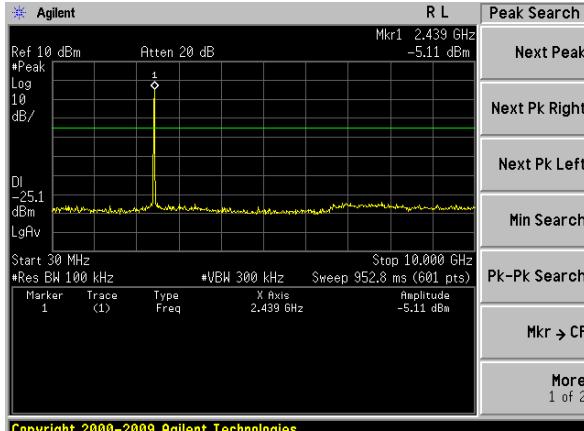
Copyright 2000-2009 Agilent Technologies

30MHz~10GHz



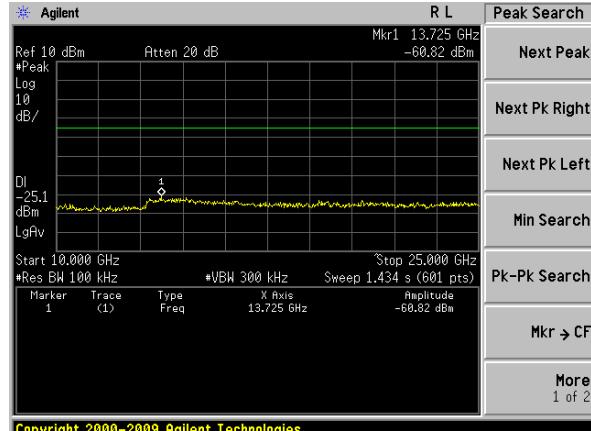
Copyright 2000-2009 Agilent Technologies

10GHz~25GHz

Middle channel

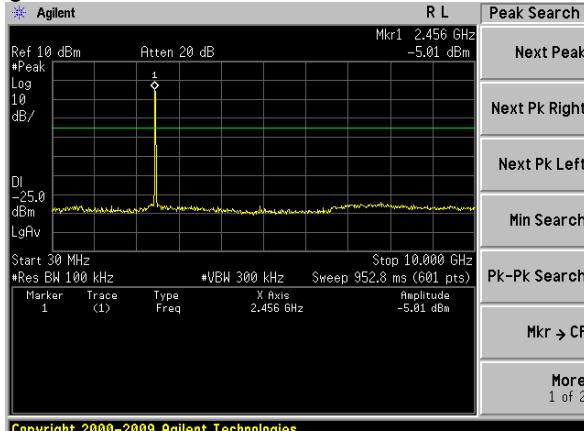
Copyright 2000-2009 Agilent Technologies

30MHz~10GHz



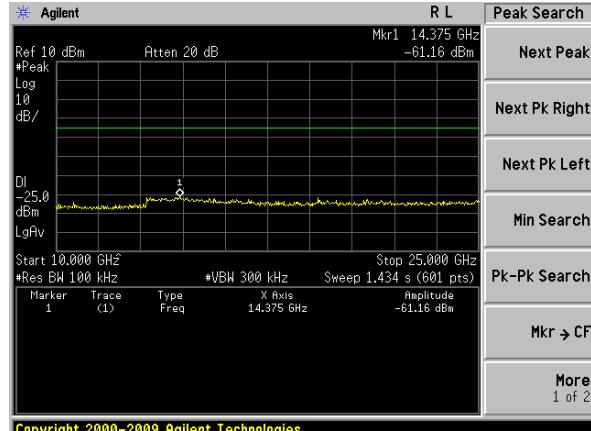
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10GHz~25GHz

Highest channel

Copyright 2000-2009 Agilent Technologies

30MHz~10GHz



Copyright 2000-2009 Agilent Technologies

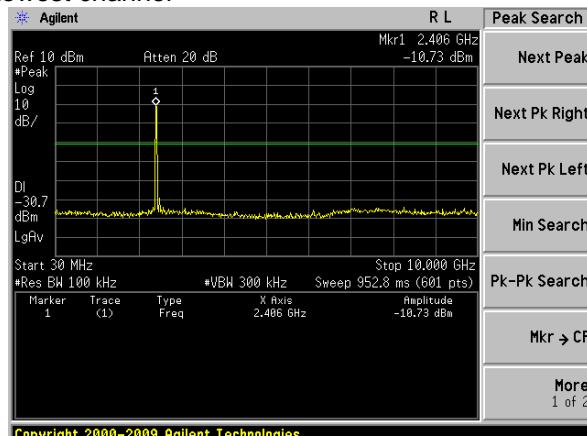
10GHz~25GHz

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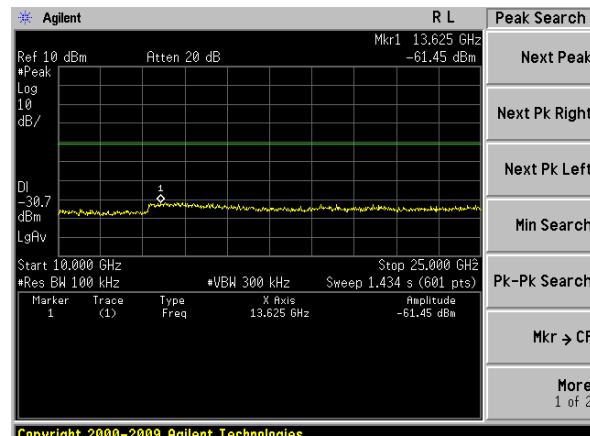
Test mode:

802.11g

Lowest channel

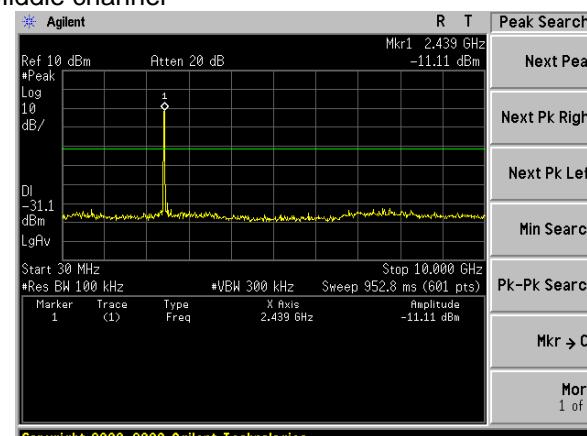


30MHz~10GHz

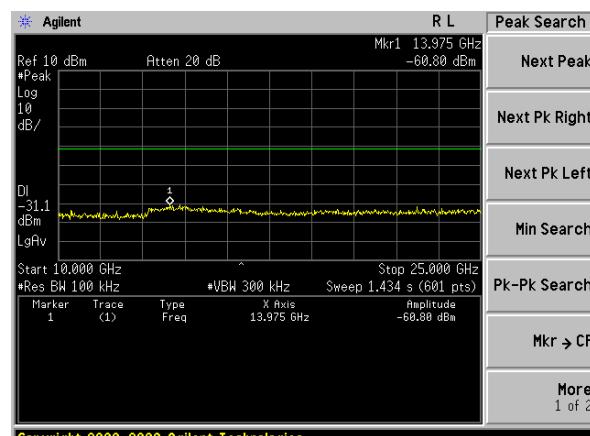


10GHz~25GHz

Middle channel

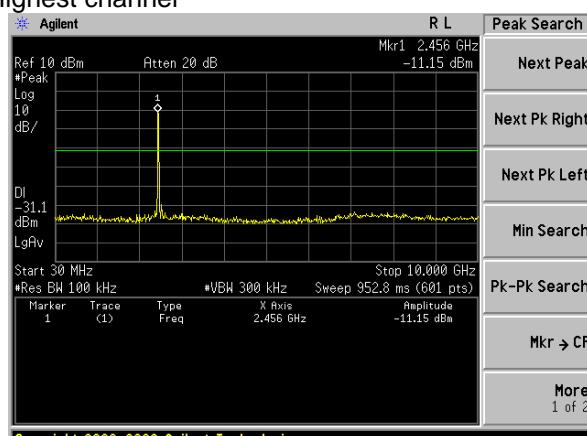


30MHz~10GHz

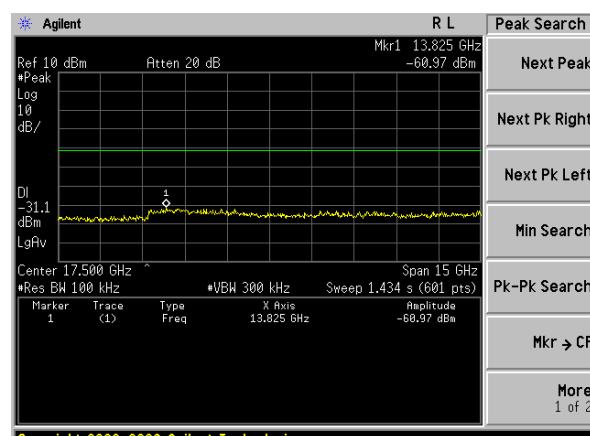


10GHz~25GHz

Highest channel



30MHz~10GHz

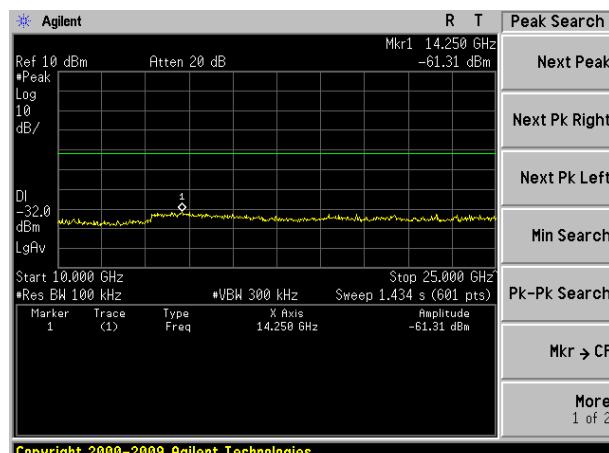
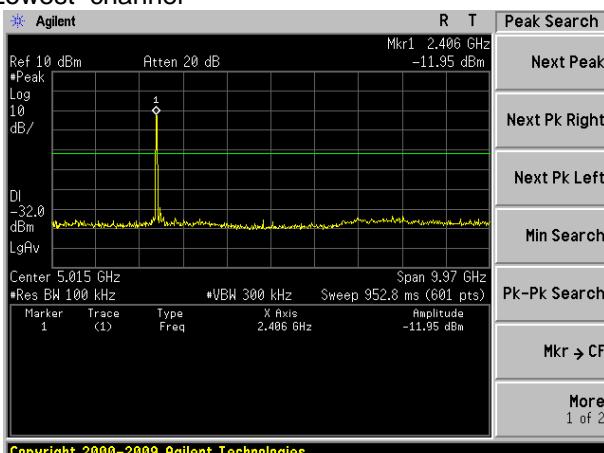


10GHz~25GHz

Test mode:

802.11n(HT20)

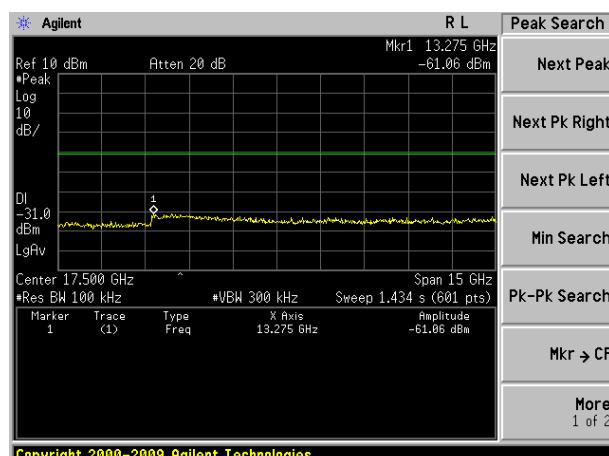
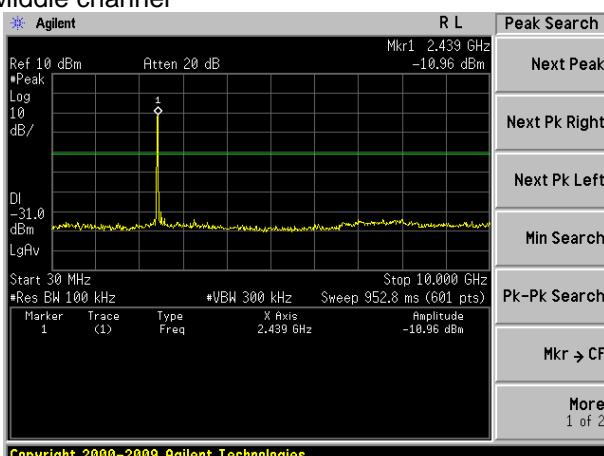
Lowest channel



30MHz~10GHz

10GHz~25GHz

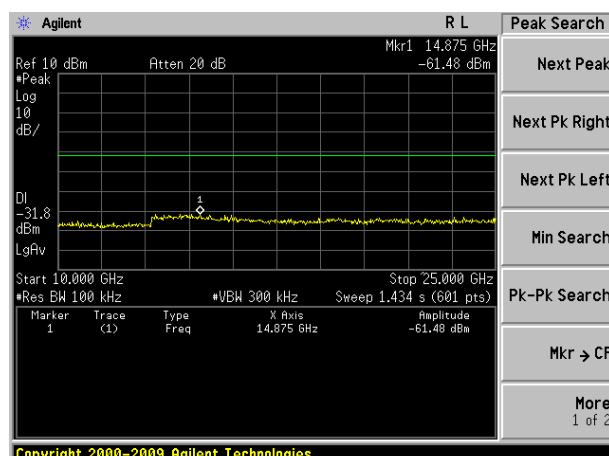
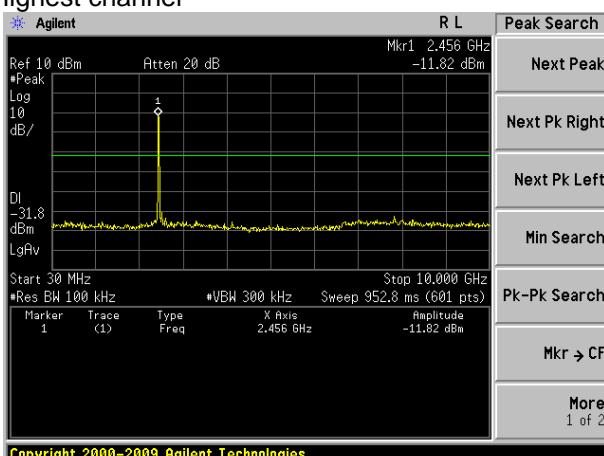
Middle channel



30MHz~10GHz

10GHz~25GHz

Highest channel



30MHz~10GHz

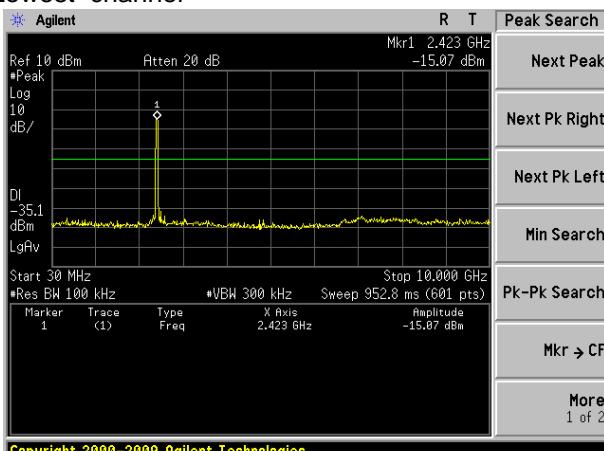
10GHz~25GHz

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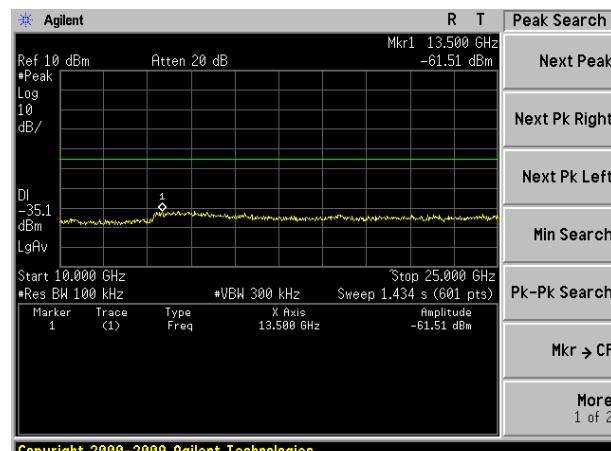
Test mode:

802.11n(HT40)

Lowest channel



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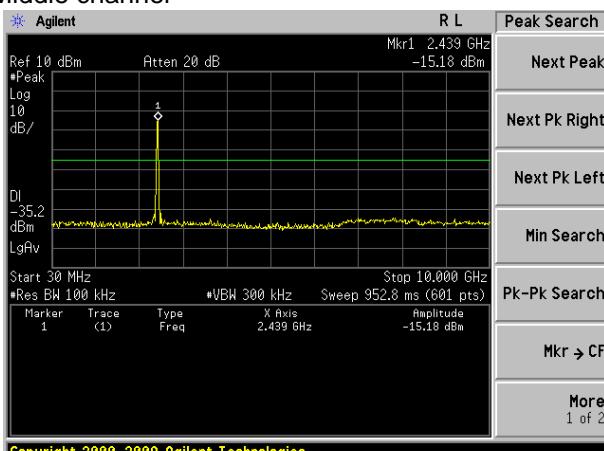


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30MHz~10GHz

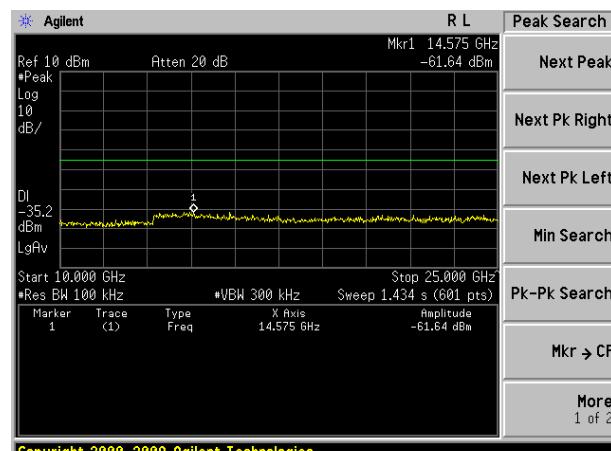
10GHz~25GHz

Middle channel



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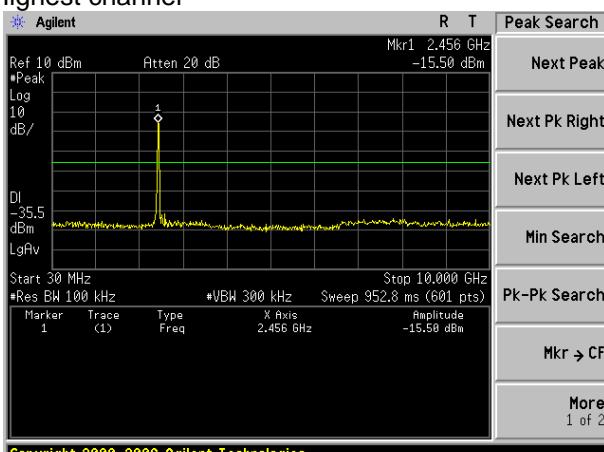
30MHz~10GHz



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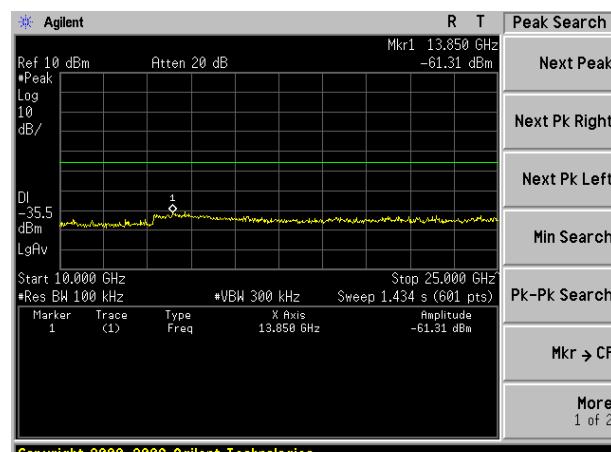
10GHz~25GHz

Highest channel



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30MHz~10GHz



Copyright 2000-2009 Agilent Technologies

10GHz~25GHz

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7.7.2 Radiated Emission Method

| | | | | | | | |
|-----------------------|-----------------------------|--------------------|--------|------------|------------|--|--|
| Test Requirement: | FCC Part15 C Section 15.209 | | | | | | |
| Test Method: | ANSI C63.10:2013 | | | | | | |
| Test Frequency Range: | 30MHz to 25GHz | | | | | | |
| Test site: | Measurement Distance: 3m | | | | | | |
| Receiver setup: | Frequency | Detector | RBW | VBW | Value | | |
| | 30MHz-1GHz | Quasi-peak | 120KHz | 300KHz | Quasi-peak | | |
| | Above 1GHz | Peak | 1MHz | 3MHz | Peak | | |
| Limit: | RMS | 1MHz | 1MHz | 3MHz | Average | | |
| | Frequency | Limit (dBuV/m @3m) | | Value | | | |
| | 30MHz-88MHz | 40.00 | | Quasi-peak | | | |
| | 88MHz-216MHz | 43.50 | | Quasi-peak | | | |
| | 216MHz-960MHz | 46.00 | | Quasi-peak | | | |
| | 960MHz-1GHz | 54.00 | | Quasi-peak | | | |
| | Above 1GHz | 54.00 | | Average | 74.00 | | |
| Test setup: | Below 1GHz | | | | | | |
| | | | | | | | |
| Above 1GHz | | | | | | | |

| | |
|-------------------|--|
| | |
| Test Procedure: | <ol style="list-style-type: none"> 1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. 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 and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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. 7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report. |
| Test Instruments: | Refer to section 6.0 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Pass |

Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

Measurement Data**■ Below 1GHz**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 30.53 | 48.35 | 14.33 | 0.56 | 32.06 | 31.18 | 40.00 | -8.82 | Vertical |
| 53.51 | 47.99 | 15.08 | 0.80 | 31.95 | 31.92 | 40.00 | -8.08 | Vertical |
| 86.20 | 46.09 | 12.74 | 1.08 | 31.73 | 28.18 | 40.00 | -11.82 | Vertical |
| 175.65 | 55.18 | 11.36 | 1.72 | 32.07 | 36.19 | 43.50 | -7.31 | Vertical |
| 249.43 | 48.17 | 14.07 | 2.12 | 32.16 | 32.20 | 46.00 | -13.80 | Vertical |
| 742.26 | 38.39 | 21.34 | 4.24 | 31.25 | 32.72 | 46.00 | -13.28 | Vertical |
| 55.81 | 45.54 | 14.97 | 0.82 | 31.95 | 29.38 | 40.00 | -10.62 | Horizontal |
| 68.39 | 49.91 | 11.34 | 0.93 | 31.89 | 30.29 | 40.00 | -9.71 | Horizontal |
| 119.02 | 50.80 | 12.69 | 1.35 | 31.85 | 32.99 | 43.50 | -10.51 | Horizontal |
| 175.65 | 56.69 | 11.36 | 1.72 | 32.07 | 37.70 | 43.50 | -5.80 | Horizontal |
| 249.43 | 53.84 | 14.07 | 2.12 | 32.16 | 37.87 | 46.00 | -8.13 | Horizontal |
| 287.99 | 51.95 | 14.84 | 2.31 | 32.18 | 36.92 | 46.00 | -9.08 | Horizontal |

■ Above 1GHz

| | | | |
|------------|---------|---------------|--------|
| Test mode: | 802.11b | Test channel: | Lowest |
|------------|---------|---------------|--------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4824.00 | 39.45 | 31.79 | 8.62 | 32.10 | 47.76 | 74.00 | -26.24 | Vertical |
| 7236.00 | 33.68 | 36.19 | 11.68 | 31.97 | 49.58 | 74.00 | -24.42 | Vertical |
| 9648.00 | 32.33 | 38.07 | 14.16 | 31.56 | 53.00 | 74.00 | -21.00 | Vertical |
| 12060.00 | * | | | | | 74.00 | | Vertical |
| 14472.00 | * | | | | | 74.00 | | Vertical |
| 16884.00 | * | | | | | 74.00 | | Vertical |
| 4824.00 | 38.25 | 31.79 | 8.62 | 32.10 | 46.56 | 74.00 | -27.44 | Horizontal |
| 7236.00 | 33.50 | 36.19 | 11.68 | 31.97 | 49.40 | 74.00 | -24.60 | Horizontal |
| 9648.00 | 31.94 | 38.07 | 14.16 | 31.56 | 52.61 | 74.00 | -21.39 | Horizontal |
| 12060.00 | * | | | | | 74.00 | | Horizontal |
| 14472.00 | * | | | | | 74.00 | | Horizontal |
| 16884.00 | * | | | | | 74.00 | | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4824.00 | 28.60 | 31.79 | 8.62 | 32.10 | 36.91 | 54.00 | -17.09 | Vertical |
| 7236.00 | 22.57 | 36.19 | 11.68 | 31.97 | 38.47 | 54.00 | -15.53 | Vertical |
| 9648.00 | 22.69 | 38.07 | 14.16 | 31.56 | 43.36 | 54.00 | -10.64 | Vertical |
| 12060.00 | * | | | | | 54.00 | | Vertical |
| 14472.00 | * | | | | | 54.00 | | Vertical |
| 16884.00 | * | | | | | 54.00 | | Vertical |
| 4824.00 | 27.83 | 31.79 | 8.62 | 32.10 | 36.14 | 54.00 | -17.86 | Horizontal |
| 7236.00 | 22.10 | 36.19 | 11.68 | 31.97 | 38.00 | 54.00 | -16.00 | Horizontal |
| 9648.00 | 21.70 | 38.07 | 14.16 | 31.56 | 42.37 | 54.00 | -11.63 | Horizontal |
| 12060.00 | * | | | | | 54.00 | | Horizontal |
| 14472.00 | * | | | | | 54.00 | | Horizontal |
| 16884.00 | * | | | | | 54.00 | | Horizontal |

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- "*", means this data is the too weak instrument of signal is unable to test.

| | | | |
|------------|---------|---------------|--------|
| Test mode: | 802.11b | Test channel: | Middle |
|------------|---------|---------------|--------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4874.00 | 38.65 | 31.85 | 8.66 | 32.12 | 47.04 | 74.00 | -26.96 | Vertical |
| 7311.00 | 33.85 | 36.37 | 11.71 | 31.91 | 50.02 | 74.00 | -23.98 | Vertical |
| 9748.00 | 33.42 | 38.27 | 14.25 | 31.56 | 54.38 | 74.00 | -19.62 | Vertical |
| 12185.00 | * | | | | | 74.00 | | Vertical |
| 14622.00 | * | | | | | 74.00 | | Vertical |
| 17059.00 | * | | | | | 74.00 | | Vertical |
| 4874.00 | 39.24 | 31.85 | 8.66 | 32.12 | 47.63 | 74.00 | -26.37 | Horizontal |
| 7311.00 | 32.54 | 36.37 | 11.71 | 31.91 | 48.71 | 74.00 | -25.29 | Horizontal |
| 9748.00 | 33.33 | 38.27 | 14.25 | 31.56 | 54.29 | 74.00 | -19.71 | Horizontal |
| 12185.00 | * | | | | | 74.00 | | Horizontal |
| 14622.00 | * | | | | | 74.00 | | Horizontal |
| 17059.00 | * | | | | | 74.00 | | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4874.00 | 29.56 | 31.85 | 8.66 | 32.12 | 37.95 | 54.00 | -16.05 | Vertical |
| 7311.00 | 22.18 | 36.37 | 11.71 | 31.91 | 38.35 | 54.00 | -15.65 | Vertical |
| 9748.00 | 22.68 | 38.27 | 14.25 | 31.56 | 43.64 | 54.00 | -10.36 | Vertical |
| 12185.00 | * | | | | | 54.00 | | Vertical |
| 14622.00 | * | | | | | 54.00 | | Vertical |
| 17059.00 | * | | | | | 54.00 | | Vertical |
| 4874.00 | 29.39 | 31.85 | 8.66 | 32.12 | 37.78 | 54.00 | -16.22 | Horizontal |
| 7311.00 | 21.64 | 36.37 | 11.71 | 31.91 | 37.81 | 54.00 | -16.19 | Horizontal |
| 9748.00 | 23.06 | 38.27 | 14.25 | 31.56 | 44.02 | 54.00 | -9.98 | Horizontal |
| 12185.00 | * | | | | | 54.00 | | Horizontal |
| 14622.00 | * | | | | | 54.00 | | Horizontal |
| 17059.00 | * | | | | | 54.00 | | Horizontal |

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “**”, means this data is the too weak instrument of signal is unable to test.

| | | | |
|------------|---------|---------------|---------|
| Test mode: | 802.11b | Test channel: | Highest |
|------------|---------|---------------|---------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4924.00 | 43.68 | 31.90 | 8.70 | 32.15 | 52.13 | 74.00 | -21.87 | Vertical |
| 7386.00 | 34.20 | 36.49 | 11.76 | 31.83 | 50.62 | 74.00 | -23.38 | Vertical |
| 9848.00 | 36.48 | 38.62 | 14.31 | 31.77 | 57.64 | 74.00 | -16.36 | Vertical |
| 12310.00 | * | | | | | 74.00 | | Vertical |
| 14772.00 | * | | | | | 74.00 | | Vertical |
| 17234.00 | * | | | | | 74.00 | | Vertical |
| 4924.00 | 43.17 | 31.90 | 8.70 | 32.15 | 51.62 | 74.00 | -22.38 | Horizontal |
| 7386.00 | 33.20 | 36.49 | 11.76 | 31.83 | 49.62 | 74.00 | -24.38 | Horizontal |
| 9848.00 | 32.70 | 38.62 | 14.31 | 31.77 | 53.86 | 74.00 | -20.14 | Horizontal |
| 12310.00 | * | | | | | 74.00 | | Horizontal |
| 14772.00 | * | | | | | 74.00 | | Horizontal |
| 17234.00 | * | | | | | 74.00 | | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4924.00 | 34.68 | 31.90 | 8.70 | 32.15 | 43.13 | 54.00 | -10.87 | Vertical |
| 7386.00 | 24.15 | 36.49 | 11.76 | 31.83 | 40.57 | 54.00 | -13.43 | Vertical |
| 9848.00 | 25.01 | 38.62 | 14.31 | 31.77 | 46.17 | 54.00 | -7.83 | Vertical |
| 12310.00 | * | | | | | 54.00 | | Vertical |
| 14772.00 | * | | | | | 54.00 | | Vertical |
| 17234.00 | * | | | | | 54.00 | | Vertical |
| 4924.00 | 33.59 | 31.90 | 8.70 | 32.15 | 42.04 | 54.00 | -11.96 | Horizontal |
| 7386.00 | 22.61 | 36.49 | 11.76 | 31.83 | 39.03 | 54.00 | -14.97 | Horizontal |
| 9848.00 | 21.97 | 38.62 | 14.31 | 31.77 | 43.13 | 54.00 | -10.87 | Horizontal |
| 12310.00 | * | | | | | 54.00 | | Horizontal |
| 14772.00 | * | | | | | 54.00 | | Horizontal |
| 17234.00 | * | | | | | 54.00 | | Horizontal |

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “**”, means this data is the too weak instrument of signal is unable to test.

| | | | |
|------------|---------|---------------|--------|
| Test mode: | 802.11g | Test channel: | lowest |
|------------|---------|---------------|--------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4824.00 | 38.13 | 31.79 | 8.62 | 32.10 | 46.44 | 74.00 | -27.56 | Vertical |
| 7236.00 | 32.85 | 36.19 | 11.68 | 31.97 | 48.75 | 74.00 | -25.25 | Vertical |
| 9648.00 | 31.74 | 38.07 | 14.16 | 31.56 | 52.41 | 74.00 | -21.59 | Vertical |
| 12060.00 | * | | | | | 74.00 | | Vertical |
| 14472.00 | * | | | | | 74.00 | | Vertical |
| 16884.00 | * | | | | | 74.00 | | Vertical |
| 4824.00 | 37.13 | 31.79 | 8.62 | 32.10 | 45.44 | 74.00 | -28.56 | Horizontal |
| 7236.00 | 32.77 | 36.19 | 11.68 | 31.97 | 48.67 | 74.00 | -25.33 | Horizontal |
| 9648.00 | 31.39 | 38.07 | 14.16 | 31.56 | 52.06 | 74.00 | -21.94 | Horizontal |
| 12060.00 | * | | | | | 74.00 | | Horizontal |
| 14472.00 | * | | | | | 74.00 | | Horizontal |
| 16884.00 | * | | | | | 74.00 | | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4824.00 | 27.38 | 31.79 | 8.62 | 32.10 | 35.69 | 54.00 | -18.31 | Vertical |
| 7236.00 | 21.76 | 36.19 | 11.68 | 31.97 | 37.66 | 54.00 | -16.34 | Vertical |
| 9648.00 | 22.12 | 38.07 | 14.16 | 31.56 | 42.79 | 54.00 | -11.21 | Vertical |
| 12060.00 | * | | | | | 54.00 | | Vertical |
| 14472.00 | * | | | | | 54.00 | | Vertical |
| 16884.00 | * | | | | | 54.00 | | Vertical |
| 4824.00 | 26.79 | 31.79 | 8.62 | 32.10 | 35.10 | 54.00 | -18.90 | Horizontal |
| 7236.00 | 21.39 | 36.19 | 11.68 | 31.97 | 37.29 | 54.00 | -16.71 | Horizontal |
| 9648.00 | 21.17 | 38.07 | 14.16 | 31.56 | 41.84 | 54.00 | -12.16 | Horizontal |
| 12060.00 | * | | | | | 54.00 | | Horizontal |
| 14472.00 | * | | | | | 54.00 | | Horizontal |
| 16884.00 | * | | | | | 54.00 | | Horizontal |

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “**”, means this data is the too weak instrument of signal is unable to test.

| | | | |
|------------|---------|---------------|--------|
| Test mode: | 802.11g | Test channel: | Middle |
|------------|---------|---------------|--------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4874.00 | 37.56 | 31.85 | 8.66 | 32.12 | 45.95 | 74.00 | -28.05 | Vertical |
| 7311.00 | 33.16 | 36.37 | 11.71 | 31.91 | 49.33 | 74.00 | -24.67 | Vertical |
| 9748.00 | 32.92 | 38.27 | 14.25 | 31.56 | 53.88 | 74.00 | -20.12 | Vertical |
| 12185.00 | * | | | | | 74.00 | | Vertical |
| 14622.00 | * | | | | | 74.00 | | Vertical |
| 17059.00 | * | | | | | 74.00 | | Vertical |
| 4874.00 | 38.32 | 31.85 | 8.66 | 32.12 | 46.71 | 74.00 | -27.29 | Horizontal |
| 7311.00 | 31.94 | 36.37 | 11.71 | 31.91 | 48.11 | 74.00 | -25.89 | Horizontal |
| 9748.00 | 32.87 | 38.27 | 14.25 | 31.56 | 53.83 | 74.00 | -20.17 | Horizontal |
| 12185.00 | * | | | | | 74.00 | | Horizontal |
| 14622.00 | * | | | | | 74.00 | | Horizontal |
| 17059.00 | * | | | | | 74.00 | | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4874.00 | 28.55 | 31.85 | 8.66 | 32.12 | 36.94 | 54.00 | -17.06 | Vertical |
| 7311.00 | 21.51 | 36.37 | 11.71 | 31.91 | 37.68 | 54.00 | -16.32 | Vertical |
| 9748.00 | 22.21 | 38.27 | 14.25 | 31.56 | 43.17 | 54.00 | -10.83 | Vertical |
| 12185.00 | * | | | | | 54.00 | | Vertical |
| 14622.00 | * | | | | | 54.00 | | Vertical |
| 17059.00 | * | | | | | 54.00 | | Vertical |
| 4874.00 | 28.52 | 31.85 | 8.66 | 32.12 | 36.91 | 54.00 | -17.09 | Horizontal |
| 7311.00 | 21.06 | 36.37 | 11.71 | 31.91 | 37.23 | 54.00 | -16.77 | Horizontal |
| 9748.00 | 22.62 | 38.27 | 14.25 | 31.56 | 43.58 | 54.00 | -10.42 | Horizontal |
| 12185.00 | * | | | | | 54.00 | | Horizontal |
| 14622.00 | * | | | | | 54.00 | | Horizontal |
| 17059.00 | * | | | | | 54.00 | | Horizontal |

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “**”, means this data is the too weak instrument of signal is unable to test.

| | | | |
|------------|---------|---------------|---------|
| Test mode: | 802.11g | Test channel: | Highest |
|------------|---------|---------------|---------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4924.00 | 41.79 | 31.90 | 8.70 | 32.15 | 50.24 | 74.00 | -23.76 | Vertical |
| 7386.00 | 33.01 | 36.49 | 11.76 | 31.83 | 49.43 | 74.00 | -24.57 | Vertical |
| 9848.00 | 35.63 | 38.62 | 14.31 | 31.77 | 56.79 | 74.00 | -17.21 | Vertical |
| 12310.00 | * | | | | | 74.00 | | Vertical |
| 14772.00 | * | | | | | 74.00 | | Vertical |
| 17234.00 | * | | | | | 74.00 | | Vertical |
| 4924.00 | 41.58 | 31.90 | 8.70 | 32.15 | 50.03 | 74.00 | -23.97 | Horizontal |
| 7386.00 | 32.16 | 36.49 | 11.76 | 31.83 | 48.58 | 74.00 | -25.42 | Horizontal |
| 9848.00 | 31.91 | 38.62 | 14.31 | 31.77 | 53.07 | 74.00 | -20.93 | Horizontal |
| 12310.00 | * | | | | | 74.00 | | Horizontal |
| 14772.00 | * | | | | | 74.00 | | Horizontal |
| 17234.00 | * | | | | | 74.00 | | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4924.00 | 32.95 | 31.90 | 8.70 | 32.15 | 41.40 | 54.00 | -12.60 | Vertical |
| 7386.00 | 23.00 | 36.49 | 11.76 | 31.83 | 39.42 | 54.00 | -14.58 | Vertical |
| 9848.00 | 24.19 | 38.62 | 14.31 | 31.77 | 45.35 | 54.00 | -8.65 | Vertical |
| 12310.00 | * | | | | | 54.00 | | Vertical |
| 14772.00 | * | | | | | 54.00 | | Vertical |
| 17234.00 | * | | | | | 54.00 | | Vertical |
| 4924.00 | 32.10 | 31.90 | 8.70 | 32.15 | 40.55 | 54.00 | -13.45 | Horizontal |
| 7386.00 | 21.60 | 36.49 | 11.76 | 31.83 | 38.02 | 54.00 | -15.98 | Horizontal |
| 9848.00 | 21.22 | 38.62 | 14.31 | 31.77 | 42.38 | 54.00 | -11.62 | Horizontal |
| 12310.00 | * | | | | | 54.00 | | Horizontal |
| 14772.00 | * | | | | | 54.00 | | Horizontal |
| 17234.00 | * | | | | | 54.00 | | Horizontal |

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “**”, means this data is the too weak instrument of signal is unable to test.

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

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4824.00 | 38.86 | 31.79 | 8.62 | 32.10 | 47.17 | 74.00 | -26.83 | Vertical |
| 7236.00 | 33.31 | 36.19 | 11.68 | 31.97 | 49.21 | 74.00 | -24.79 | Vertical |
| 9648.00 | 32.07 | 38.07 | 14.16 | 31.56 | 52.74 | 74.00 | -21.26 | Vertical |
| 12060.00 | * | | | | | 74.00 | | Vertical |
| 14472.00 | * | | | | | 74.00 | | Vertical |
| 16884.00 | * | | | | | 74.00 | | Vertical |
| 4824.00 | 37.76 | 31.79 | 8.62 | 32.10 | 46.07 | 74.00 | -27.93 | Horizontal |
| 7236.00 | 33.18 | 36.19 | 11.68 | 31.97 | 49.08 | 74.00 | -24.92 | Horizontal |
| 9648.00 | 31.70 | 38.07 | 14.16 | 31.56 | 52.37 | 74.00 | -21.63 | Horizontal |
| 12060.00 | * | | | | | 74.00 | | Horizontal |
| 14472.00 | * | | | | | 74.00 | | Horizontal |
| 16884.00 | * | | | | | 74.00 | | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4824.00 | 28.06 | 31.79 | 8.62 | 32.10 | 36.37 | 54.00 | -17.63 | Vertical |
| 7236.00 | 22.21 | 36.19 | 11.68 | 31.97 | 38.11 | 54.00 | -15.89 | Vertical |
| 9648.00 | 22.44 | 38.07 | 14.16 | 31.56 | 43.11 | 54.00 | -10.89 | Vertical |
| 12060.00 | * | | | | | 54.00 | | Vertical |
| 14472.00 | * | | | | | 54.00 | | Vertical |
| 16884.00 | * | | | | | 54.00 | | Vertical |
| 4824.00 | 27.37 | 31.79 | 8.62 | 32.10 | 35.68 | 54.00 | -18.32 | Horizontal |
| 7236.00 | 21.78 | 36.19 | 11.68 | 31.97 | 37.68 | 54.00 | -16.32 | Horizontal |
| 9648.00 | 21.47 | 38.07 | 14.16 | 31.56 | 42.14 | 54.00 | -11.86 | Horizontal |
| 12060.00 | * | | | | | 54.00 | | Horizontal |
| 14472.00 | * | | | | | 54.00 | | Horizontal |
| 16884.00 | * | | | | | 54.00 | | Horizontal |

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. ** means this data is the too weak instrument of signal is unable to test.

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

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4874.00 | 38.17 | 31.85 | 8.66 | 32.12 | 46.56 | 74.00 | -27.44 | Vertical |
| 7311.00 | 33.54 | 36.37 | 11.71 | 31.91 | 49.71 | 74.00 | -24.29 | Vertical |
| 9748.00 | 33.20 | 38.27 | 14.25 | 31.56 | 54.16 | 74.00 | -19.84 | Vertical |
| 12185.00 | * | | | | | 74.00 | | Vertical |
| 14622.00 | * | | | | | 74.00 | | Vertical |
| 17059.00 | * | | | | | 74.00 | | Vertical |
| 4874.00 | 38.83 | 31.85 | 8.66 | 32.12 | 47.22 | 74.00 | -26.78 | Horizontal |
| 7311.00 | 32.28 | 36.37 | 11.71 | 31.91 | 48.45 | 74.00 | -25.55 | Horizontal |
| 9748.00 | 33.13 | 38.27 | 14.25 | 31.56 | 54.09 | 74.00 | -19.91 | Horizontal |
| 12185.00 | * | | | | | 74.00 | | Horizontal |
| 14622.00 | * | | | | | 74.00 | | Horizontal |
| 17059.00 | * | | | | | 74.00 | | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4874.00 | 29.11 | 31.85 | 8.66 | 32.12 | 37.50 | 54.00 | -16.50 | Vertical |
| 7311.00 | 21.88 | 36.37 | 11.71 | 31.91 | 38.05 | 54.00 | -15.95 | Vertical |
| 9748.00 | 22.47 | 38.27 | 14.25 | 31.56 | 43.43 | 54.00 | -10.57 | Vertical |
| 12185.00 | * | | | | | 54.00 | | Vertical |
| 14622.00 | * | | | | | 54.00 | | Vertical |
| 17059.00 | * | | | | | 54.00 | | Vertical |
| 4874.00 | 29.00 | 31.85 | 8.66 | 32.12 | 37.39 | 54.00 | -16.61 | Horizontal |
| 7311.00 | 21.38 | 36.37 | 11.71 | 31.91 | 37.55 | 54.00 | -16.45 | Horizontal |
| 9748.00 | 22.86 | 38.27 | 14.25 | 31.56 | 43.82 | 54.00 | -10.18 | Horizontal |
| 12185.00 | * | | | | | 54.00 | | Horizontal |
| 14622.00 | * | | | | | 54.00 | | Horizontal |
| 17059.00 | * | | | | | 54.00 | | Horizontal |

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. "", means this data is the too weak instrument of signal is unable to test.

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

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4924.00 | 42.84 | 31.90 | 8.70 | 32.15 | 51.29 | 74.00 | -22.71 | Vertical |
| 7386.00 | 33.68 | 36.49 | 11.76 | 31.83 | 50.10 | 74.00 | -23.90 | Vertical |
| 9848.00 | 36.11 | 38.62 | 14.31 | 31.77 | 57.27 | 74.00 | -16.73 | Vertical |
| 12310.00 | * | | | | | 74.00 | | Vertical |
| 14772.00 | * | | | | | 74.00 | | Vertical |
| 17234.00 | * | | | | | 74.00 | | Vertical |
| 4924.00 | 42.46 | 31.90 | 8.70 | 32.15 | 50.91 | 74.00 | -23.09 | Horizontal |
| 7386.00 | 32.74 | 36.49 | 11.76 | 31.83 | 49.16 | 74.00 | -24.84 | Horizontal |
| 9848.00 | 32.35 | 38.62 | 14.31 | 31.77 | 53.51 | 74.00 | -20.49 | Horizontal |
| 12310.00 | * | | | | | 74.00 | | Horizontal |
| 14772.00 | * | | | | | 74.00 | | Horizontal |
| 17234.00 | * | | | | | 74.00 | | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4924.00 | 33.92 | 31.90 | 8.70 | 32.15 | 42.37 | 54.00 | -11.63 | Vertical |
| 7386.00 | 23.64 | 36.49 | 11.76 | 31.83 | 40.06 | 54.00 | -13.94 | Vertical |
| 9848.00 | 24.65 | 38.62 | 14.31 | 31.77 | 45.81 | 54.00 | -8.19 | Vertical |
| 12310.00 | * | | | | | 54.00 | | Vertical |
| 14772.00 | * | | | | | 54.00 | | Vertical |
| 17234.00 | * | | | | | 54.00 | | Vertical |
| 4924.00 | 32.93 | 31.90 | 8.70 | 32.15 | 41.38 | 54.00 | -12.62 | Horizontal |
| 7386.00 | 22.16 | 36.49 | 11.76 | 31.83 | 38.58 | 54.00 | -15.42 | Horizontal |
| 9848.00 | 21.64 | 38.62 | 14.31 | 31.77 | 42.80 | 54.00 | -11.20 | Horizontal |
| 12310.00 | * | | | | | 54.00 | | Horizontal |
| 14772.00 | * | | | | | 54.00 | | Horizontal |
| 17234.00 | * | | | | | 54.00 | | Horizontal |

Remark:

- 1 Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2 “*”, means this data is the too weak instrument of signal is unable to test.

| | | | | | | |
|------------|---------------|--|---------------|--------|--|--|
| Test mode: | 802.11n(HT40) | | Test channel: | Lowest | | |
|------------|---------------|--|---------------|--------|--|--|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4844.00 | 37.05 | 31.81 | 8.63 | 32.11 | 45.38 | 74.00 | -28.62 | Vertical |
| 7266.00 | 32.16 | 36.28 | 11.69 | 31.94 | 48.19 | 74.00 | -25.81 | Vertical |
| 9688.00 | 31.25 | 38.13 | 14.21 | 31.52 | 52.07 | 74.00 | -21.93 | Vertical |
| 12060.00 | * | | | | | 74.00 | | Vertical |
| 14472.00 | * | | | | | 74.00 | | Vertical |
| 16884.00 | * | | | | | 74.00 | | Vertical |
| 4844.00 | 36.22 | 31.81 | 8.63 | 32.11 | 44.55 | 74.00 | -29.45 | Horizontal |
| 7266.00 | 32.17 | 36.28 | 11.69 | 31.94 | 48.20 | 74.00 | -25.80 | Horizontal |
| 9688.00 | 30.94 | 38.13 | 14.21 | 31.52 | 51.76 | 74.00 | -22.24 | Horizontal |
| 12060.00 | * | | | | | 74.00 | | Horizontal |
| 14472.00 | * | | | | | 74.00 | | Horizontal |
| 16884.00 | * | | | | | 74.00 | | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4844.00 | 26.38 | 31.81 | 8.63 | 32.11 | 34.71 | 54.00 | -19.29 | Vertical |
| 7266.00 | 21.10 | 36.28 | 11.69 | 31.94 | 37.13 | 54.00 | -16.87 | Vertical |
| 9688.00 | 21.65 | 38.13 | 14.21 | 31.52 | 42.47 | 54.00 | -11.53 | Vertical |
| 12060.00 | * | | | | | 54.00 | | Vertical |
| 14472.00 | * | | | | | 54.00 | | Vertical |
| 16884.00 | * | | | | | 54.00 | | Vertical |
| 4844.00 | 25.93 | 31.81 | 8.63 | 32.11 | 34.26 | 54.00 | -19.74 | Horizontal |
| 7266.00 | 20.81 | 36.28 | 11.69 | 31.94 | 36.84 | 54.00 | -17.16 | Horizontal |
| 9688.00 | 20.74 | 38.13 | 14.21 | 31.52 | 41.56 | 54.00 | -12.44 | Horizontal |
| 12060.00 | * | | | | | 54.00 | | Horizontal |
| 14472.00 | * | | | | | 54.00 | | Horizontal |
| 16884.00 | * | | | | | 54.00 | | Horizontal |

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. **, means this data is the too weak instrument of signal is unable to test.

| | | | | | | | |
|------------|---------------|--|--|---------------|--------|--|--|
| Test mode: | 802.11n(HT40) | | | Test channel: | Middle | | |
|------------|---------------|--|--|---------------|--------|--|--|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4874.00 | 36.66 | 31.85 | 8.66 | 32.12 | 45.05 | 74.00 | -28.95 | Vertical |
| 7311.00 | 32.59 | 36.37 | 11.71 | 31.91 | 48.76 | 74.00 | -25.24 | Vertical |
| 9748.00 | 32.52 | 38.27 | 14.25 | 31.56 | 53.48 | 74.00 | -20.52 | Vertical |
| 12185.00 | * | | | | | 74.00 | | Vertical |
| 14622.00 | * | | | | | 74.00 | | Vertical |
| 17059.00 | * | | | | | 74.00 | | Vertical |
| 4874.00 | 37.56 | 31.85 | 8.66 | 32.12 | 45.95 | 74.00 | -28.05 | Horizontal |
| 7311.00 | 31.45 | 36.37 | 11.71 | 31.91 | 47.62 | 74.00 | -26.38 | Horizontal |
| 9748.00 | 32.50 | 38.27 | 14.25 | 31.56 | 53.46 | 74.00 | -20.54 | Horizontal |
| 12185.00 | * | | | | | 74.00 | | Horizontal |
| 14622.00 | * | | | | | 74.00 | | Horizontal |
| 17059.00 | * | | | | | 74.00 | | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4874.00 | 27.73 | 31.85 | 8.66 | 32.12 | 36.12 | 54.00 | -17.88 | Vertical |
| 7311.00 | 20.97 | 36.37 | 11.71 | 31.91 | 37.14 | 54.00 | -16.86 | Vertical |
| 9748.00 | 21.82 | 38.27 | 14.25 | 31.56 | 42.78 | 54.00 | -11.22 | Vertical |
| 12185.00 | * | | | | | 54.00 | | Vertical |
| 14622.00 | * | | | | | 54.00 | | Vertical |
| 17059.00 | * | | | | | 54.00 | | Vertical |
| 4874.00 | 27.81 | 31.85 | 8.66 | 32.12 | 36.20 | 54.00 | -17.80 | Horizontal |
| 7311.00 | 20.58 | 36.37 | 11.71 | 31.91 | 36.75 | 54.00 | -17.25 | Horizontal |
| 9748.00 | 22.26 | 38.27 | 14.25 | 31.56 | 43.22 | 54.00 | -10.78 | Horizontal |
| 12185.00 | * | | | | | 54.00 | | Horizontal |
| 14622.00 | * | | | | | 54.00 | | Horizontal |
| 17059.00 | * | | | | | 54.00 | | Horizontal |

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- "*", means this data is the too weak instrument of signal is unable to test.

| | | | | | | |
|------------|---------------|--|---------------|---------|--|--|
| Test mode: | 802.11n(HT40) | | Test channel: | Highest | | |
|------------|---------------|--|---------------|---------|--|--|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4904.00 | 40.25 | 31.88 | 8.68 | 32.13 | 48.68 | 74.00 | -25.32 | Vertical |
| 7356.00 | 32.04 | 36.45 | 11.75 | 31.86 | 48.38 | 74.00 | -25.62 | Vertical |
| 9808.00 | 34.94 | 38.43 | 14.29 | 31.68 | 55.98 | 74.00 | -18.02 | Vertical |
| 12310.00 | * | | | | | 74.00 | | Vertical |
| 14772.00 | * | | | | | 74.00 | | Vertical |
| 17234.00 | * | | | | | 74.00 | | Vertical |
| 4904.00 | 40.28 | 31.88 | 8.68 | 32.13 | 48.71 | 74.00 | -25.29 | Horizontal |
| 7356.00 | 31.31 | 36.45 | 11.75 | 31.86 | 47.65 | 74.00 | -26.35 | Horizontal |
| 9808.00 | 31.27 | 38.43 | 14.29 | 31.68 | 52.31 | 74.00 | -21.69 | Horizontal |
| 12310.00 | * | | | | | 74.00 | | Horizontal |
| 14772.00 | * | | | | | 74.00 | | Horizontal |
| 17234.00 | * | | | | | 74.00 | | Horizontal |

Average value:

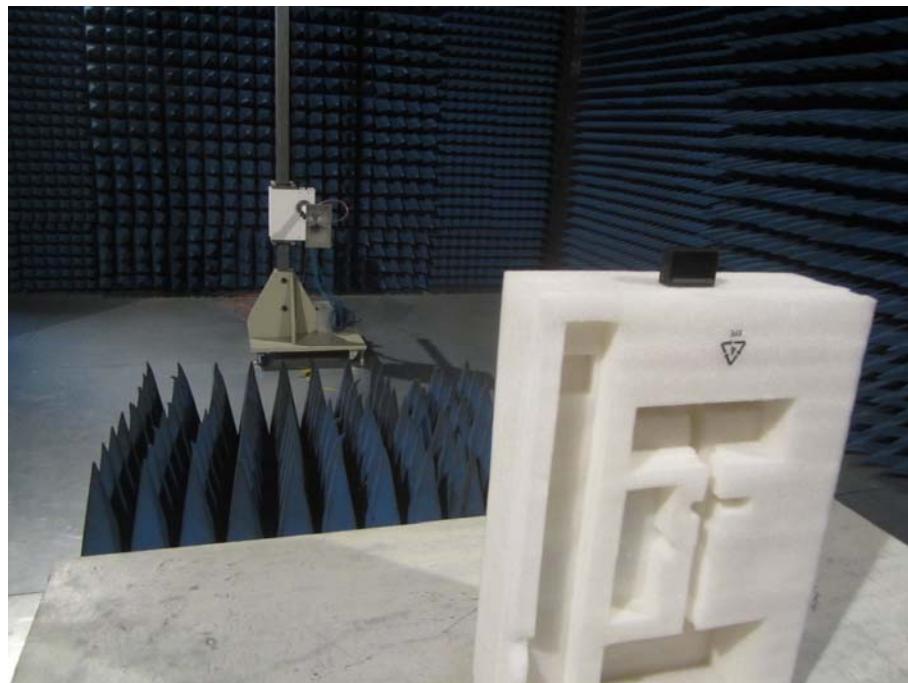
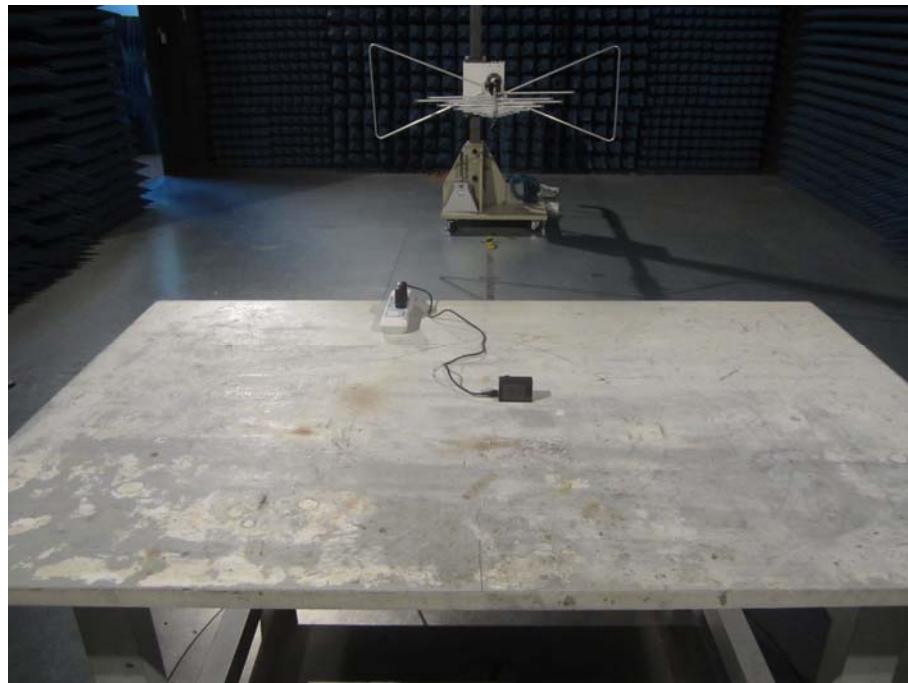
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4904.00 | 31.53 | 31.88 | 8.68 | 32.13 | 39.96 | 54.00 | -14.04 | Vertical |
| 7356.00 | 22.05 | 36.45 | 11.75 | 31.86 | 38.39 | 54.00 | -15.61 | Vertical |
| 9808.00 | 23.52 | 38.43 | 14.29 | 31.68 | 44.56 | 54.00 | -9.44 | Vertical |
| 12310.00 | * | | | | | 54.00 | | Vertical |
| 14772.00 | * | | | | | 54.00 | | Vertical |
| 17234.00 | * | | | | | 54.00 | | Vertical |
| 4904.00 | 30.88 | 31.88 | 8.68 | 32.13 | 39.31 | 54.00 | -14.69 | Horizontal |
| 7356.00 | 20.77 | 36.45 | 11.75 | 31.86 | 37.11 | 54.00 | -16.89 | Horizontal |
| 9808.00 | 20.60 | 38.43 | 14.29 | 31.68 | 41.64 | 54.00 | -12.36 | Horizontal |
| 12310.00 | * | | | | | 54.00 | | Horizontal |
| 14772.00 | * | | | | | 54.00 | | Horizontal |
| 17234.00 | * | | | | | 54.00 | | Horizontal |

Remark:

- 1 Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2 “*”, means this data is the too weak instrument of signal is unable to test.

8 Test Setup Photo

Radiated Emission



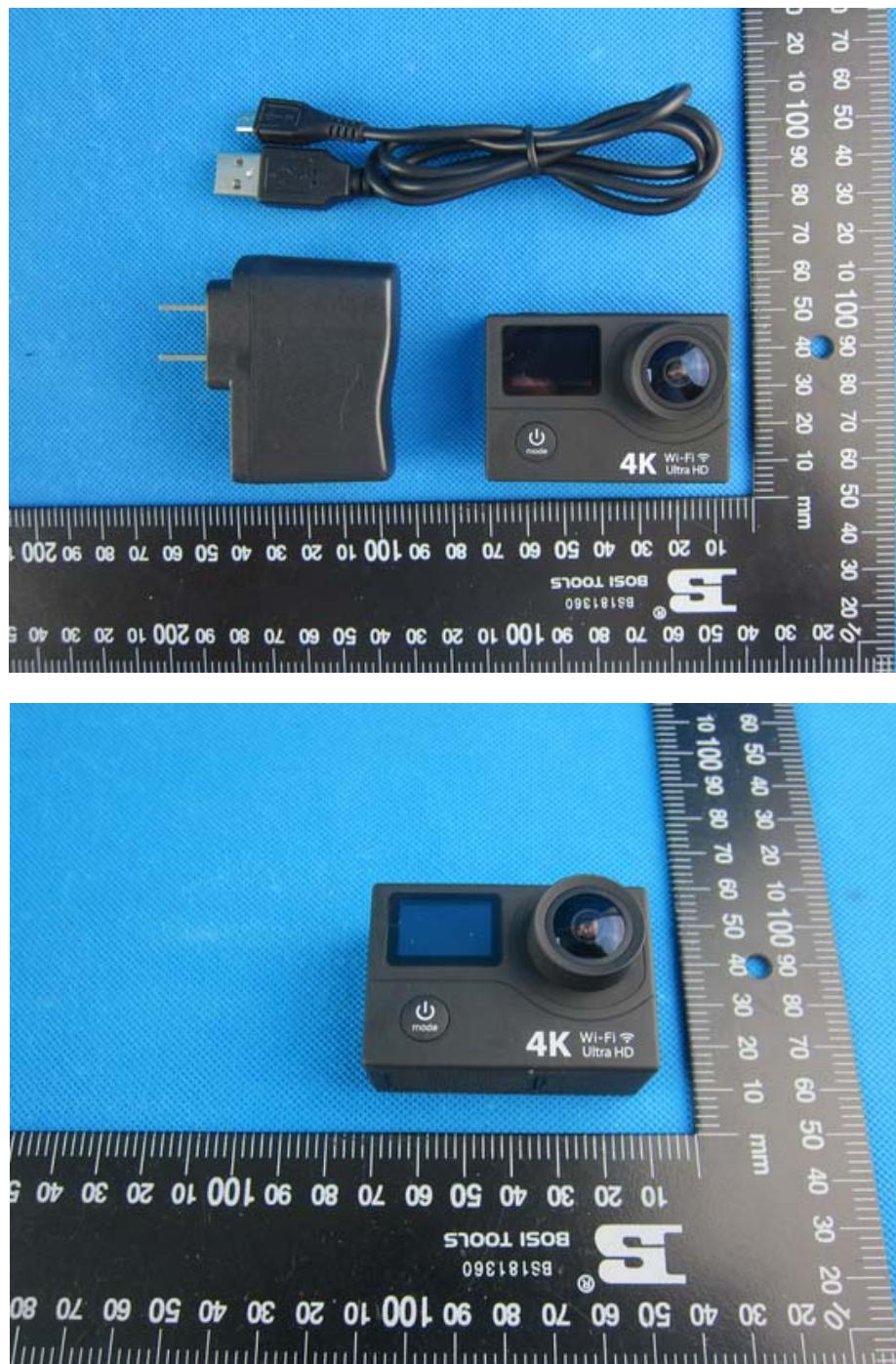
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Conducted Emission

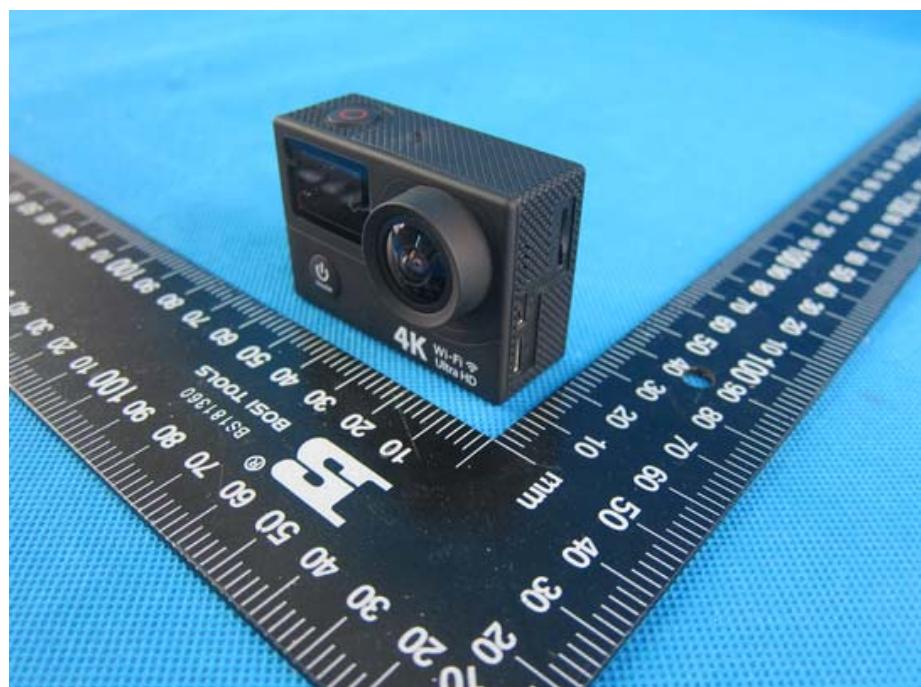
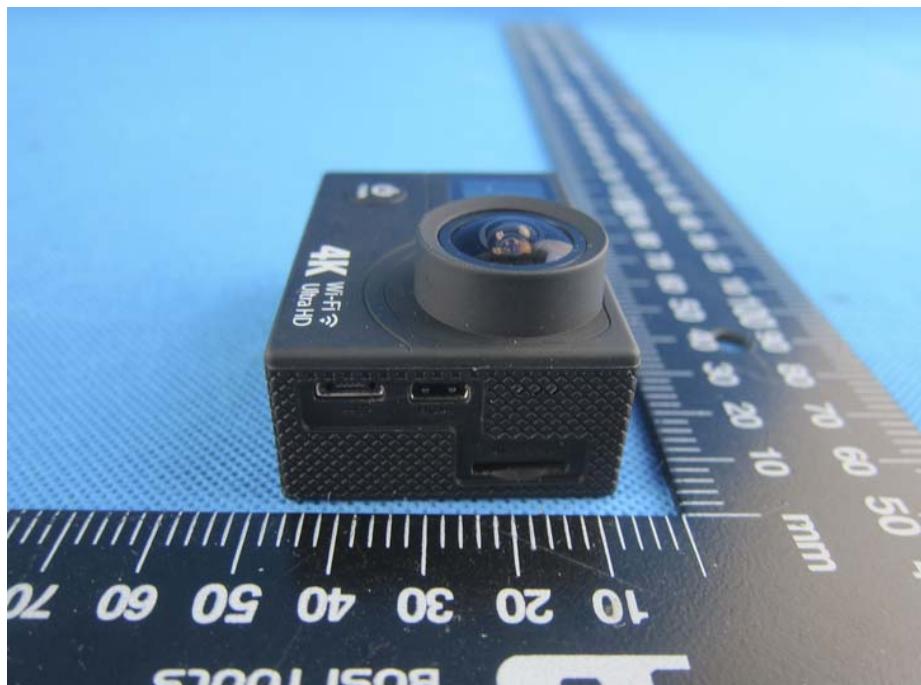


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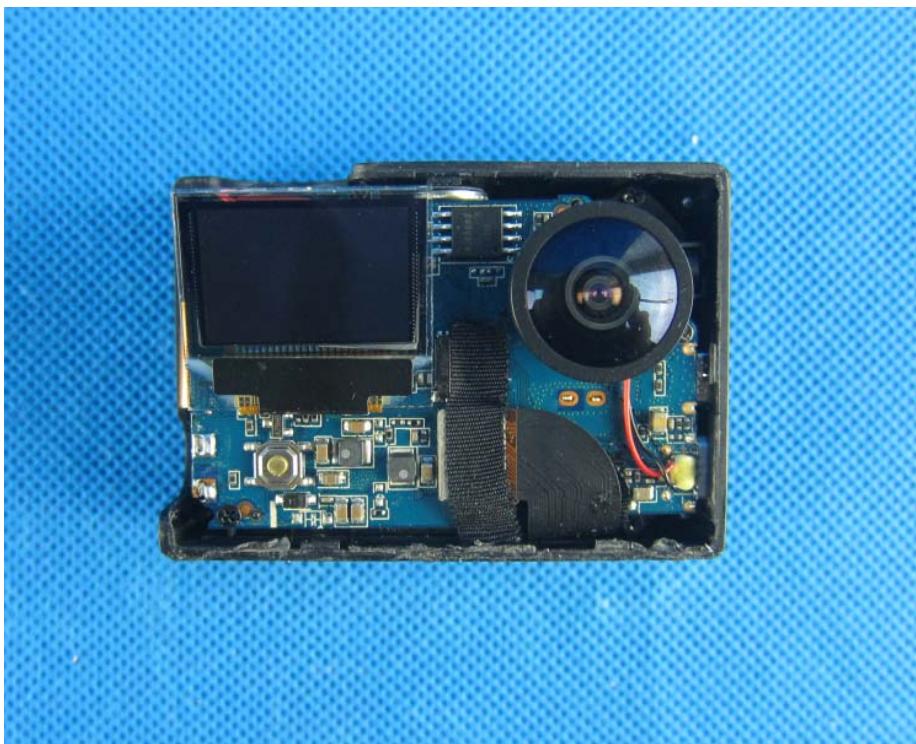
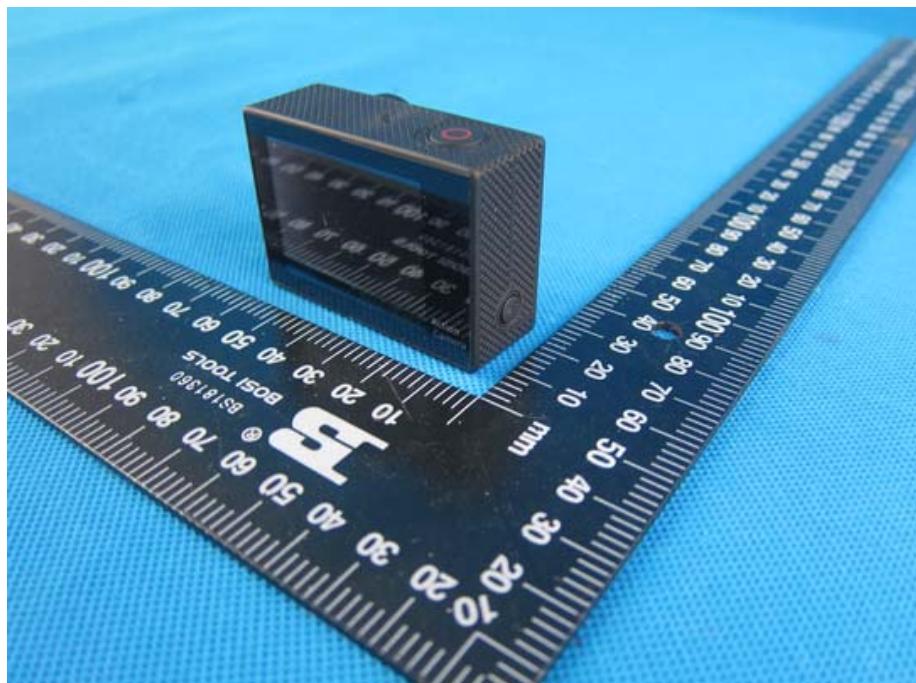
9 EUT Constructional Details



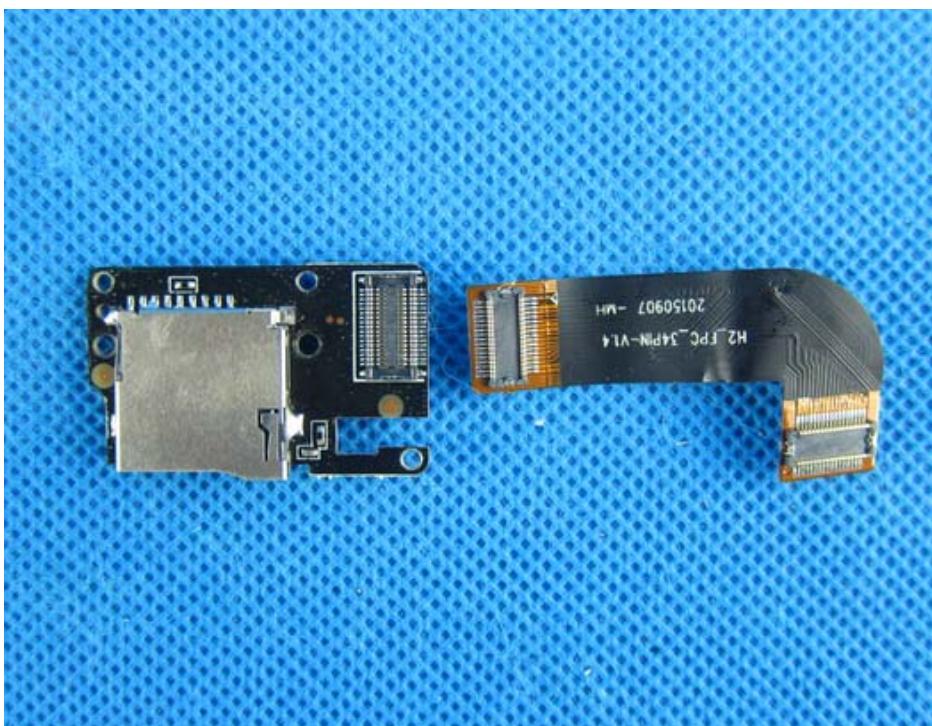
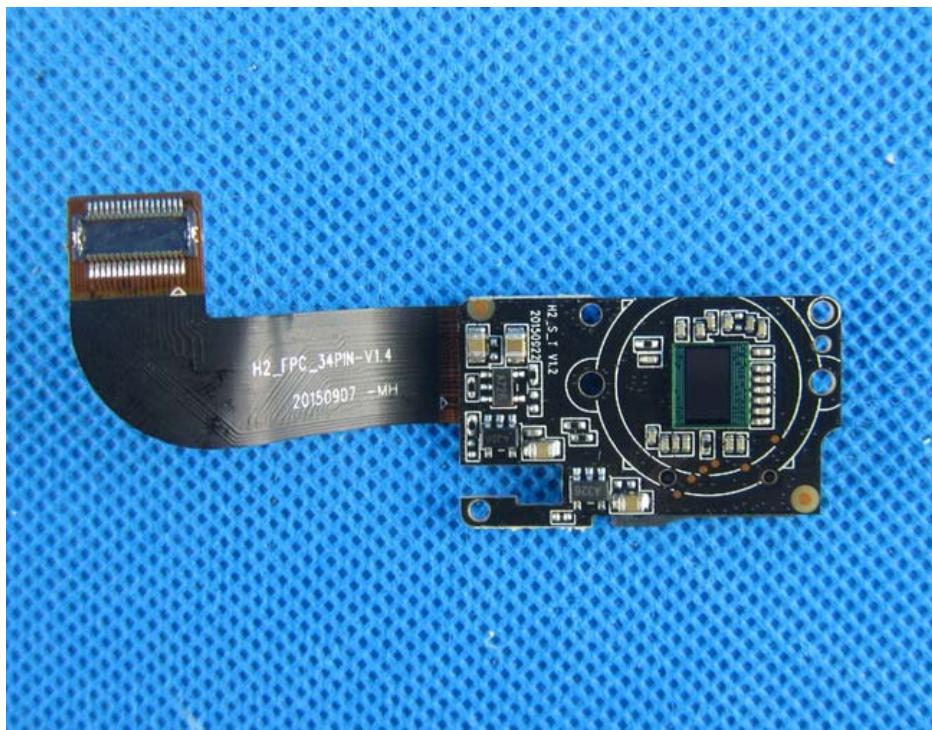
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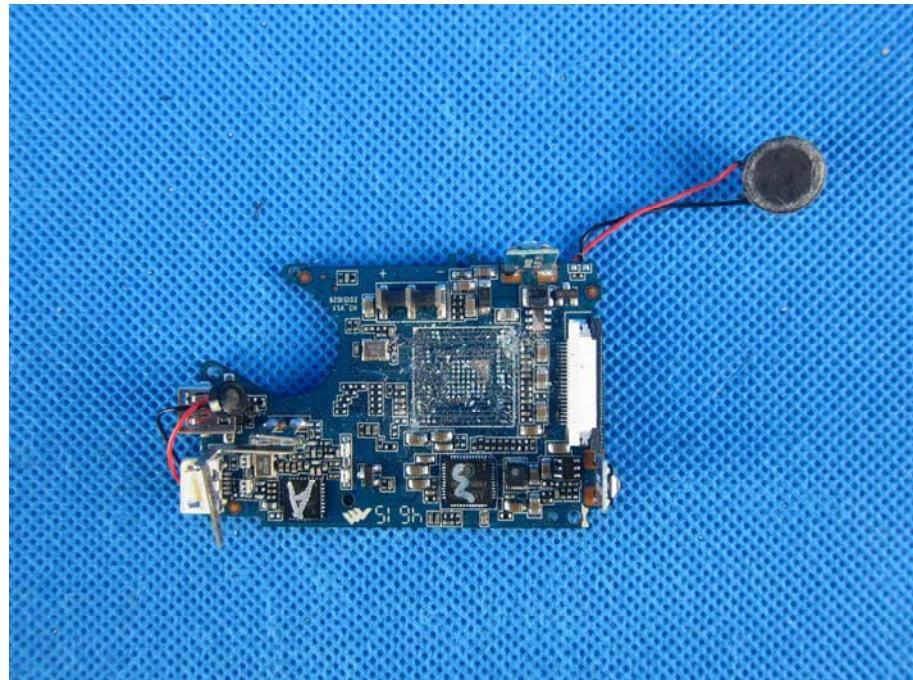
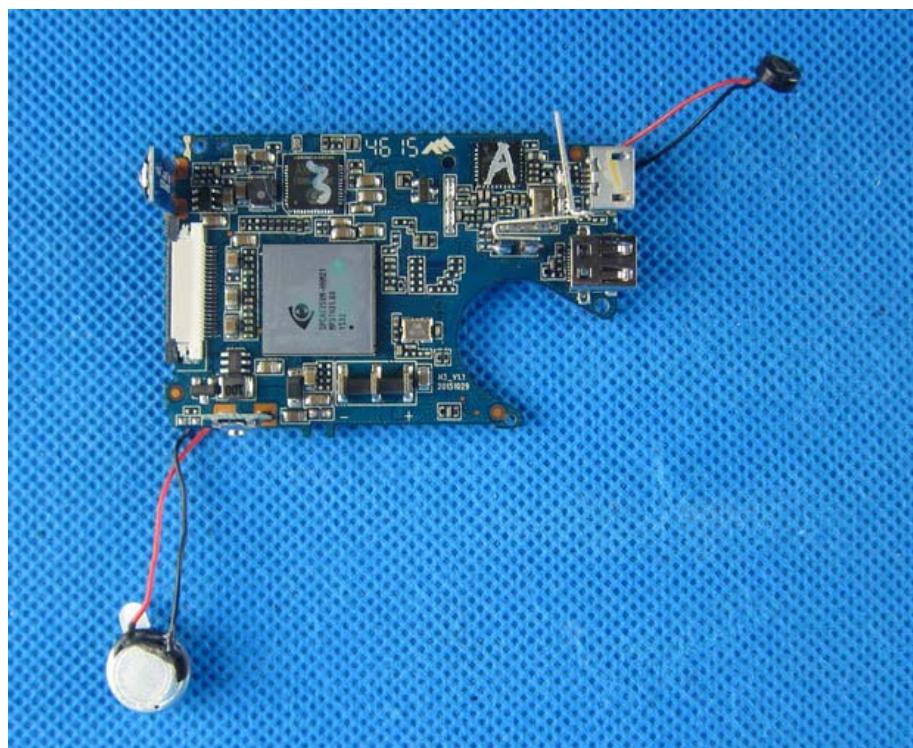
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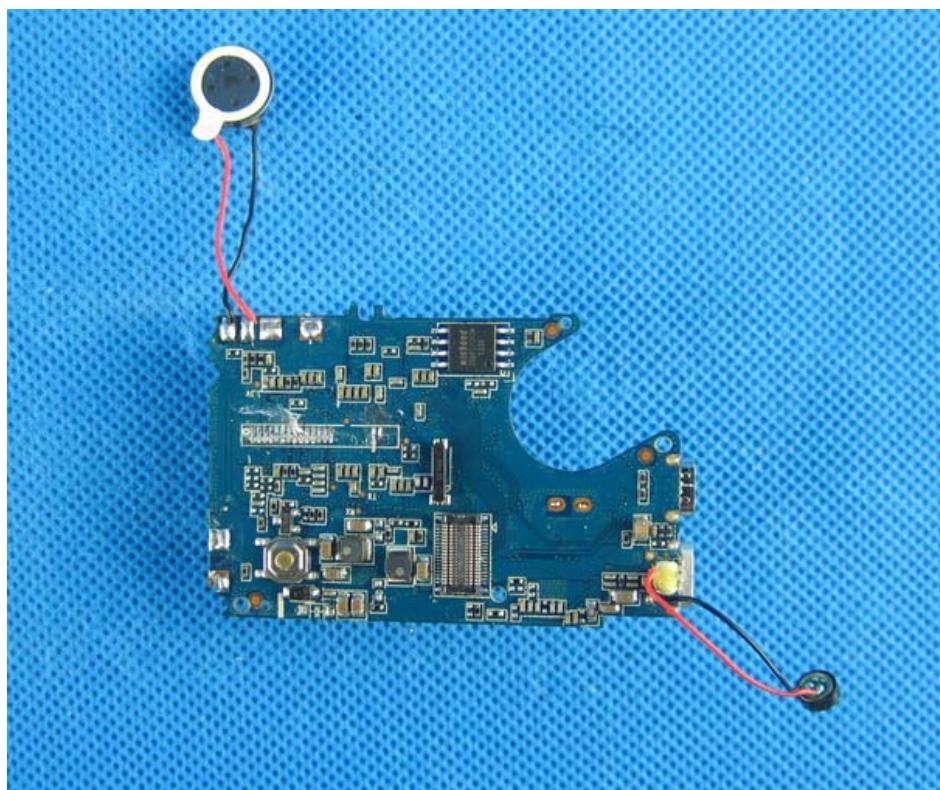
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