

TEST REPORT

Applicant: SHENZHEN FCAR TECHNOLOGY CO.,LTD

Address of Applicant: 8th floor, Chuangyi Building, No. 3025 Nanhai Ave., Nanshan, Shenzhen, Guangdong 518060, China

Manufacturer: SHENZHEN FCAR TECHNOLOGY CO.,LTD

Address of Manufacturer: 8th floor, Chuangyi Building, No. 3025 Nanhai Ave., Nanshan, Shenzhen, Guangdong 518060, China

Factory: SHENZHEN FCAR TECHNOLOGY CO.,LTD

Address of Factory: West 1st Floor, Building B, Hengchao Industrial Park, Tangtou North Ave., Bao'an, Shenzhen, Guangdong, China 518108

Equipment Under Test (EUT)

Product Name: AUTO DIAGNOSTIC SYSTEM

Model No.: F7S-W, F7S-D, F7S-G, F7S-E, F7S-R, F7S-M, F7S-P, F7S-N, E800, E801, E802, E803, E804, E805, E806, E807, E808, E809

Trade Mark: FCAR

FCC ID: 2AJDD-IDIAGSF7S2

Applicable standards: FCC CFR Title 47 Part 15 Subpart E Section 15.407

Date of sample receipt: March 27, 2020

Date of Test: March 27, 2020-April 16, 2020

Date of report issued: April 16, 2020

Test Result : PASS *

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

Authorized Signature:



Robinson Lo

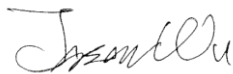
Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

2 Version

| Version No. | Date | Description |
|-------------|----------------|-------------|
| 00 | April 16, 2020 | Original |
| | | |
| | | |
| | | |
| | | |

Prepared By:



Date:

April 16, 2020

Project Engineer

Check By:



Date:

April 16, 2020

Reviewer

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4 Test Summary

| Test Item | Section in CFR 47 | Result |
|----------------------------------|----------------------------|--------|
| Antenna requirement | 15.203 | Pass |
| AC Power Line Conducted Emission | 15.207 | Pass |
| Conducted Peak Output Power | 15.407(a)(3) | Pass |
| Channel Bandwidth | 15.407(e) | Pass |
| Power Spectral Density | 15.407(a)(3) | Pass |
| Band Edge | 15.407(b)(4) | Pass |
| Spurious Emission | 15.205/15.209/15.407(b)(4) | Pass |
| Frequency Stability | 15.407(g) | Pass |

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

Remark: Test according to ANSI C63.10:2013

4.1 Measurement Uncertainty

| Test Item | Frequency Range | Measurement Uncertainty | Notes |
|----------------------------------|-----------------|-------------------------|-------|
| Radiated Emission | 30MHz-200MHz | 3.8039dB | (1) |
| Radiated Emission | 200MHz-1GHz | 3.9679dB | (1) |
| Radiated Emission | 1GHz-18GHz | 4.29dB | (1) |
| Radiated Emission | 18GHz-40GHz | 3.30dB | (1) |
| AC Power Line Conducted Emission | 0.15MHz ~ 30MHz | 3.44dB | (1) |

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

5 General Information

5.1 General Description of EUT

| | |
|---|---|
| Product Name: | AUTO DIAGNOSTIC SYSTEM |
| Model No.: | F7S-W, F7S-D, F7S-G, F7S-E, F7S-R, F7S-M, F7S-P, F7S-N, E800, E801, E802, E803, E804, E805, E806, E807, E808, E809 |
| Test Model No: | F7S-W |
| <i>Remark: All above models are identical in the same PCB layout, interior structure and electrical circuits. The differences are software version and model name for commercial purpose.</i> | |
| Serial No.: | 7W01-1611-117R-0603 |
| Hardware version: | V01.10 |
| Software version: | V18042311 |
| Test sample(s) ID: | GTS202003000223-1 |
| Sample(s) Status: | Engineer sample |
| Operation Frequency: | 802.11a/802.11n(HT20)/802.11ac(HT20) @5.8G Band: 5745MHz ~ 5825MHz 802.11n(HT40)/ 802.11ac(HT40) @ 5.8G Band: 5755MHz ~ 5795MHz 802.11ac(HT80): 5775MHz |
| Channel numbers: | 802.11a/802.11n(HT20)/802.11ac(HT20) @5.8G Band: 5 802.11n(HT40)/ 802.11ac(HT40) @ 5.8G Band: 2 802.11ac(HT80): 1 |
| Channel bandwidth: | 802.11a/802.11n(HT20)/802.11ac(HT20) : 20MHz 802.11n(HT40)/802.11ac(HT40) : 40MHz 802.11ac(HT80): 80MHz |
| Modulation technology: | 802.11a/802.11n(H20)/802.11n(H40)/802.11ac(HT20)/802.11ac(HT40) /802.11ac(HT80): Orthogonal Frequency Division Multiplexing (OFDM) |
| Antenna Type: | Integral antenna |
| Antenna gain: | 2.0 dBi(Declared by Applicant) |
| Power supply: | Adapter: Model: GME24A-120200FXR Input: AC 100-240V, 50-60Hz, 0.8A Output: DC 12V, 2A DC 3.7V, 10000mAh, 37Wh Li-ion battery |

| Operation Frequency each of channel @ 5.8G Band | | | | | | | |
|---|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 149 | 5745MHz | 153 | 5765MHz | 155 | 5775MHz | 157 | 5785MHz |
| 161 | 5805MHz | 165 | 5825MHz | | | | |

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) | | |
|-----------------|--------------------------|-----------------|-----------------|
| | 5.8G Band | | |
| | 802.11a 802.11n(HT20) | 802.11n(HT40) | 802.11ac(HT80) |
| Lowest channel | 5745 | 5755 | 5765 |
| Middle channel | 5785 | 5795 | 5775 |
| Highest channel | 5825 | 5795 | 5805 |

5.2 Test mode

| | |
|---|--|
| Transmitting mode | Keep the EUT in continuously transmitting mode |
| <i>Remark: During the test, the test voltage was tuned from AC120V to AC240V, and found that the worst case was the AC120V. 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. | |
| Mode | Data rate |
| 802.11a | 6Mbps |
| 802.11n(HT20) | 6.5Mbps |
| 802.11n(HT40) | 13Mbps |
| 802.11ac(HT20) | 6.5Mbps |
| 802.11ac(HT40) | 13.5Mbps |
| 802.11ac(HT80) | 29.3Mbps |

5.3 Description of Support Units

| |
|-------|
| None. |
|-------|

5.4 Test Facility

| |
|---|
| <p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> ● FCC —Registration No.: 381383 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 381383. ● IC —Registration No.: 9079A 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 ● NVLAP (LAB CODE:600179-0) Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0 |
|---|

5.5 Test Location

| |
|--|
| All tests were performed at: |
| <p>Global United Technology Services Co., Ltd. No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Tel: 0755-27798480 Fax: 0755-27798960</p> |

5.6 Deviation from Standards

None.

5.7 Abnormalities from Standard Conditions

None.

5.8 Additional Instructions

EUT Software Settings:

| | | | |
|--------------------|--|-----------------|--------------------|
| Mode | Special software is used. The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually. | | |
| Test Software Name | Ampak RFTTestTool,VER:5.5 | | |
| Mode | Channel | Frequency (MHz) | Soft Set |
| OFDM | CH149 | 5745 | TX level : default |
| | CH151 | 5755 | |
| | CH155 | 5775 | |
| | CH157 | 5785 | |
| | CH159 | 5795 | |
| | CH165 | 5825 | |

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 | July. 03 2015 | July. 02 2020 |
| 2 | Control Room | ZhongYu Electron | 6.2(L)*2.5(W)* 2.4(H) | GTS251 | N/A | N/A |
| 3 | EMI Test Receiver | Rohde & Schwarz | ESU26 | GTS203 | June. 26 2019 | June. 25 2020 |
| 4 | BiConiLog Antenna | SCHWARZBECK MESS-ELEKTRONIK | VULB9163 | GTS214 | June. 26 2019 | June. 25 2020 |
| 5 | Double -ridged waveguide horn | SCHWARZBECK MESS-ELEKTRONIK | BBHA 9120 D | GTS208 | June. 26 2019 | June. 25 2020 |
| 6 | Horn Antenna | ETS-LINDGREN | 3160 | GTS217 | June. 26 2019 | June. 25 2020 |
| 7 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A |
| 8 | Coaxial Cable | GTS | N/A | GTS213 | June. 26 2019 | June. 25 2020 |
| 9 | Coaxial Cable | GTS | N/A | GTS211 | June. 26 2019 | June. 25 2020 |
| 10 | Coaxial cable | GTS | N/A | GTS210 | June. 26 2019 | June. 25 2020 |
| 11 | Coaxial Cable | GTS | N/A | GTS212 | June. 26 2019 | June. 25 2020 |
| 12 | Amplifier(100kHz-3GHz) | HP | 8347A | GTS204 | June. 26 2019 | June. 25 2020 |
| 13 | Amplifier(2GHz-20GHz) | HP | 84722A | GTS206 | June. 26 2019 | June. 25 2020 |
| 14 | Amplifier (18-26GHz) | Rohde & Schwarz | AFS33-18002 650-30-8P-44 | GTS218 | June. 26 2019 | June. 25 2020 |
| 15 | Band filter | Amindeon | 82346 | GTS219 | June. 26 2019 | June. 25 2020 |
| 16 | Power Meter | Anritsu | ML2495A | GTS540 | June. 26 2019 | June. 25 2020 |
| 17 | Power Sensor | Anritsu | MA2411B | GTS541 | June. 26 2019 | June. 25 2020 |
| 18 | Wideband Radio Communication Tester | Rohde & Schwarz | CMW500 | GTS575 | June. 26 2019 | June. 25 2020 |
| 19 | Splitter | Agilent | 11636B | GTS237 | June. 26 2019 | June. 25 2020 |
| 20 | Loop Antenna | ZHINAN | ZN30900A | GTS534 | June. 26 2019 | June. 25 2020 |
| 21 | Breitband hornantenne | SCHWARZBECK | BBHA 9170 | GTS579 | Oct. 19 2019 | Oct. 18 2020 |
| 22 | Amplifier | TDK | PA-02-02 | GTS574 | Oct. 19 2019 | Oct. 18 2020 |
| 23 | Amplifier | TDK | PA-02-03 | GTS576 | Oct. 19 2019 | Oct. 18 2020 |
| 24 | PSA Series Spectrum Analyzer | Rohde & Schwarz | FSP | GTS578 | June. 26 2019 | June. 25 2020 |

| 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 | 7.3(L)x3.1(W)x2.9(H) | GTS252 | May.15 2019 | May.14 2022 |
| 2 | EMI Test Receiver | R&S | ESCI 7 | GTS552 | June. 26 2019 | June. 25 2020 |
| 3 | Coaxial Switch | ANRITSU CORP | MP59B | GTS225 | June. 26 2019 | June. 25 2020 |
| 4 | ENV216 2-L-V-NETZNACHB.DE | ROHDE&SCHWARZ | ENV216 | GTS226 | June. 26 2019 | June. 25 2020 |
| 5 | Coaxial Cable | GTS | N/A | GTS227 | N/A | N/A |
| 6 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A |
| 7 | Thermo meter | KTJ | TA328 | GTS233 | June. 26 2019 | June. 25 2020 |
| 8 | Absorbing clamp | Elektronik-Feinmechanik | MDS21 | GTS229 | June. 26 2019 | June. 25 2020 |
| 9 | ISN | SCHWARZBECK | NTFM 8158 | GTD565 | June. 26 2019 | June. 25 2020 |

| RF Conducted Test: | | | | | | |
|---------------------------|--|--------------|------------------|------------|---------------------|-------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1 | MXA Signal Analyzer | Agilent | N9020A | GTS566 | June. 26 2019 | June. 25 2020 |
| 2 | EMI Test Receiver | R&S | ESCI 7 | GTS552 | June. 26 2019 | June. 25 2020 |
| 3 | Spectrum Analyzer | Agilent | E4440A | GTS533 | June. 26 2019 | June. 25 2020 |
| 4 | MXG vector Signal Generator | Agilent | N5182A | GTS567 | June. 26 2019 | June. 25 2020 |
| 5 | ESG Analog Signal Generator | Agilent | E4428C | GTS568 | June. 26 2019 | June. 25 2020 |
| 6 | USB RF Power Sensor | DARE | RPR3006W | GTS569 | June. 26 2019 | June. 25 2020 |
| 7 | RF Switch Box | Shongyi | RFSW3003328 | GTS571 | June. 26 2019 | June. 25 2020 |
| 8 | Programmable Constant Temp & Humi Test Chamber | WEWON | WHTH-150L-40-880 | GTS572 | June. 26 2019 | June. 25 2020 |

| General used equipment: | | | | | | |
|--------------------------------|---------------------------------|--------------|-----------|---------------|---------------------|-------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1 | Humidity/ Temperature Indicator | KTJ | TA328 | GTS243 | June. 26 2019 | June. 25 2020 |
| 2 | Barometer | ChangChun | DYM3 | GTS255 | June. 26 2019 | June. 25 2020 |

7 Test results and Measurement Data

7.1 Antenna requirement

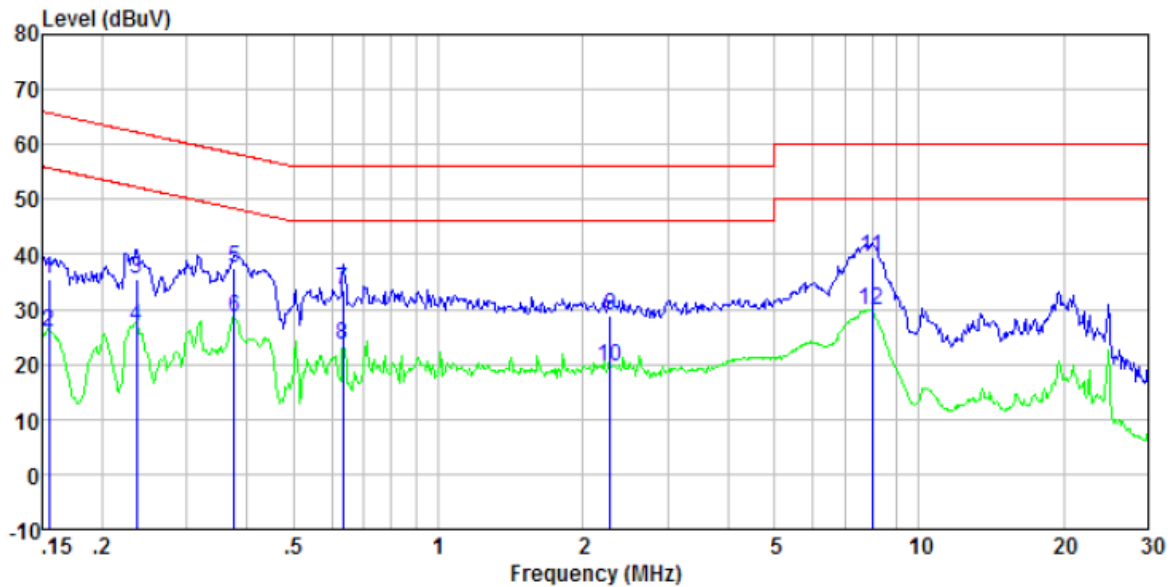
| | |
|---|-----------------------------|
| Standard requirement: | FCC Part15 C Section 15.203 |
| <i>15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached 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.</i> | |
| E.U.T Antenna: | |
| <i>The antenna is integral antenna. The best case gain of the antenna is 2.0dBi, reference to the appendix II for details.</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: | 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"> 1. 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. 2. 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). 3. 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 5.2 for details | | | | | |
| Test environment: | Temp.: | 25 °C | Humid.: | 52% | Press.: | 1012mbar |
| Test voltage: | AC 120V, 60Hz | | | | | |
| Test results: | Pass | | | | | |

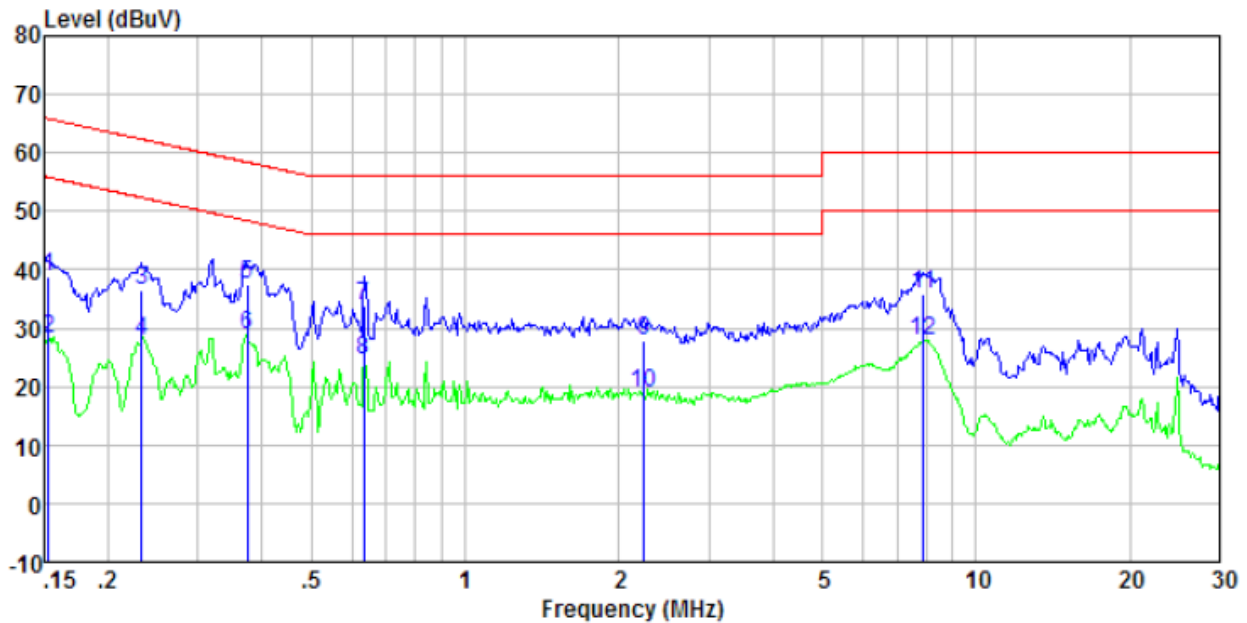
Measurement data

Line:



| Freq MHz | Reading level dBuV | LISN/ISN factor dB/m | Cable loss dB | Level dBuV | Limit level dBuV | Over limit dB | Remark |
|-------------|--------------------------|----------------------------|---------------------|---------------|------------------------|---------------------|---------|
| 0.15 | 15.14 | 20.40 | 0.07 | 35.61 | 65.74 | -30.13 | QP |
| 0.15 | 5.46 | 20.40 | 0.07 | 25.93 | 55.74 | -29.81 | Average |
| 0.24 | 14.94 | 20.40 | 0.11 | 35.45 | 62.26 | -26.81 | QP |
| 0.24 | 6.51 | 20.40 | 0.11 | 27.02 | 52.26 | -25.24 | Average |
| 0.38 | 17.10 | 20.36 | 0.10 | 37.56 | 58.34 | -20.78 | QP |
| 0.38 | 8.07 | 20.36 | 0.10 | 28.53 | 48.34 | -19.81 | Average |
| 0.63 | 13.06 | 20.28 | 0.12 | 33.46 | 56.00 | -22.54 | QP |
| 0.63 | 3.14 | 20.28 | 0.12 | 23.54 | 46.00 | -22.46 | Average |
| 2.28 | 8.64 | 20.20 | 0.18 | 29.02 | 56.00 | -26.98 | QP |
| 2.28 | -0.96 | 20.20 | 0.18 | 19.42 | 46.00 | -26.58 | Average |
| 7.98 | 19.13 | 20.20 | 0.19 | 39.52 | 60.00 | -20.48 | QP |
| 7.98 | 9.30 | 20.20 | 0.19 | 29.69 | 50.00 | -20.31 | Average |

Neutral:

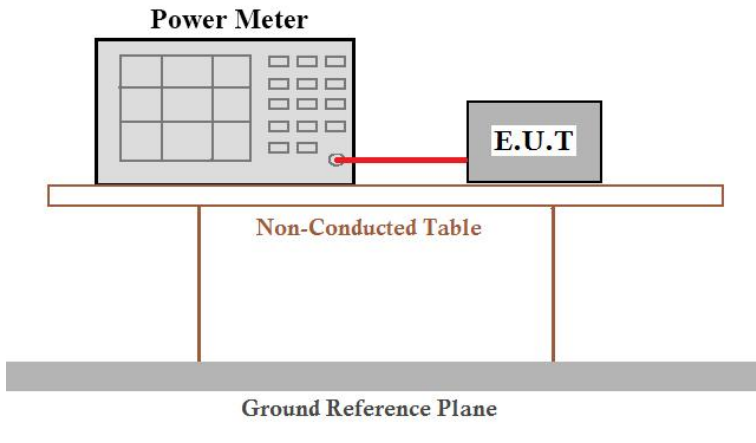


| Freq MHz | Reading level dBuV | LISN/ISN factor dB/m | Cable loss dB | Level dBuV | Limit level dBuV | Over limit dB | Remark |
|-------------|--------------------------|----------------------------|---------------------|---------------|------------------------|---------------------|---------|
| 0.15 | 18.41 | 20.40 | 0.07 | 38.88 | 65.82 | -26.94 | QP |
| 0.15 | 7.83 | 20.40 | 0.07 | 28.30 | 55.82 | -27.52 | Average |
| 0.23 | 16.07 | 20.40 | 0.11 | 36.58 | 62.35 | -25.77 | QP |
| 0.23 | 7.41 | 20.40 | 0.11 | 27.92 | 52.35 | -24.43 | Average |
| 0.38 | 17.10 | 20.36 | 0.10 | 37.56 | 58.39 | -20.83 | QP |
| 0.38 | 8.41 | 20.36 | 0.10 | 28.87 | 48.39 | -19.52 | Average |
| 0.63 | 13.48 | 20.28 | 0.12 | 33.88 | 56.00 | -22.12 | QP |
| 0.63 | 4.14 | 20.28 | 0.12 | 24.54 | 46.00 | -21.46 | Average |
| 2.24 | 7.55 | 20.20 | 0.18 | 27.93 | 56.00 | -28.07 | QP |
| 2.24 | -1.44 | 20.20 | 0.18 | 18.94 | 46.00 | -27.06 | Average |
| 7.89 | 15.45 | 20.20 | 0.19 | 35.84 | 60.00 | -24.16 | QP |
| 7.89 | 7.31 | 20.20 | 0.19 | 27.70 | 50.00 | -22.30 | Average |

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 Peak Output Power

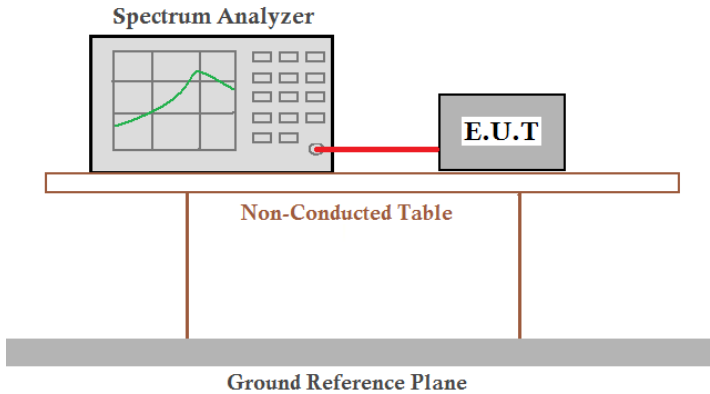
| | |
|-------------------|---|
| Test Requirement: | FCC Part15 E Section 15.407(a)(3) |
| Test Method: | ANSI C63.10:2013 and KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 |
| Limit: | 30dBm |
| Test setup: |  |
| Test Instruments: | Refer to section 6.0 for details |
| Test mode: | Refer to section 5.2 for details |
| Test results: | Pass |

Measurement Data

| Test CH | Peak Output Power (dBm) | | | | | | Limit(dBm) | Result |
|---------|-------------------------|----------------|-----------------|----------------|-----------------|-----------------|------------|--------|
| | 802.11a | 802.11n (HT20) | 802.11ac (HT20) | 802.11n (HT40) | 802.11ac (HT40) | 802.11ac (HT80) | | |
| Lowest | 10.34 | 10.14 | 10.08 | 10.41 | 10.24 | --- | 30.00 | Pass |
| Middle | 10.42 | 10.35 | 10.25 | --- | --- | 10.28 | | |
| Highest | 10.15 | 10.32 | 10.15 | 10.55 | 10.37 | --- | | |

Remark: “---“ is not applicable

7.4 Channel Bandwidth

| | |
|-------------------|---|
| Test Requirement: | FCC Part15 E Section 15.407(e) |
| Test Method: | ANSI C63.10:2013 and KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 |
| Limit: | >500KHz |
| Test setup: |  <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which is supported by a Ground Reference Plane.</p> |
| Test Instruments: | Refer to section 6.0 for details |
| Test mode: | Refer to section 5.2 for details |
| Test results: | Pass |

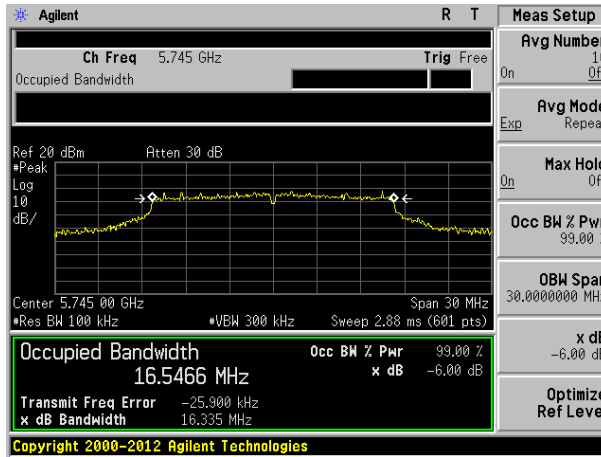
Measurement Data

| 5.8G Band | | | | | | | | |
|-----------|-------------------------|----------------|----------------|----------------|----------------|----------------|-------------|--------|
| Test CH | Channel Bandwidth (MHz) | | | | | | Limit (KHz) | Result |
| | 802.11a | 802.11n(H T20) | 802.11ac(HT20) | 802.11n(H T40) | 802.11ac(HT40) | 802.11ac(HT80) | | |
| Lowest | 16.335 | 17.126 | 17.071 | 35.421 | 35.794 | --- | >500 | Pass |
| Middle | 16.112 | 17.310 | 17.538 | --- | --- | 75.526 | | |
| Highest | 16.309 | 16.563 | 17.309 | 35.352 | 36.001 | --- | | |

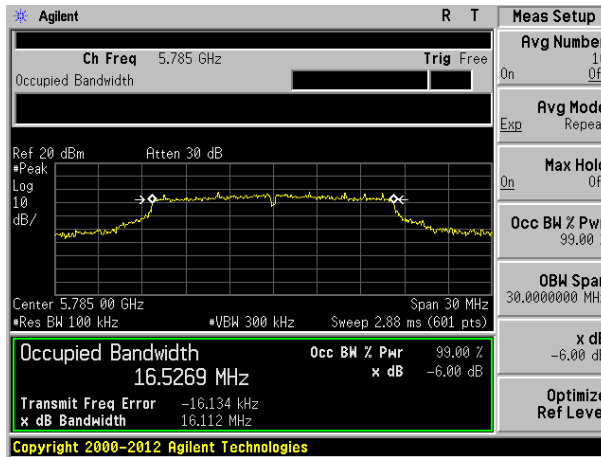
Remark: “---“ is not applicable

Test plot as follows:

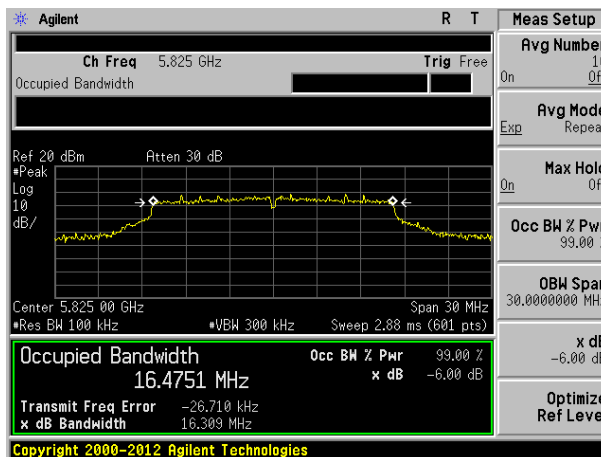
Test mode: 802.11a



Lowest channel

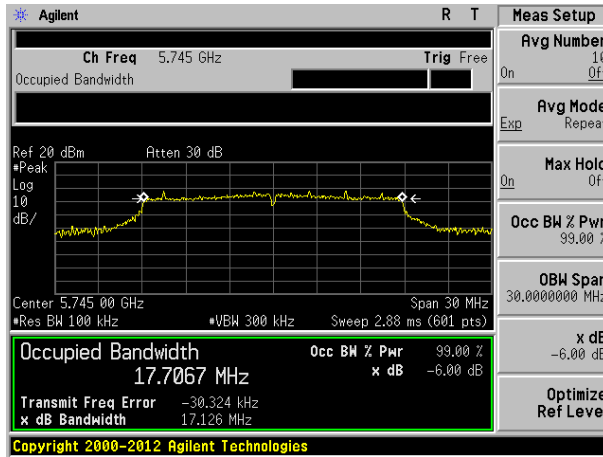


Middle channel

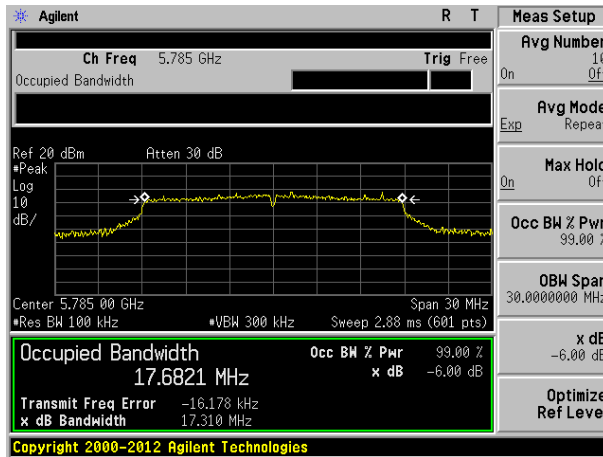


Highest channel

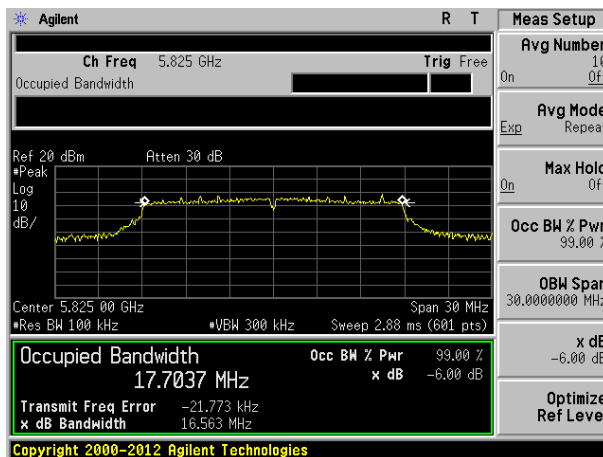
Test mode: 802.11n(HT20) @ 5.8G Band



Lowest channel

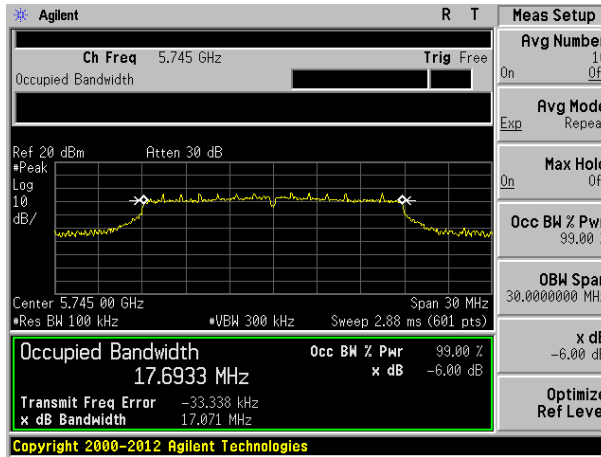


Middle channel

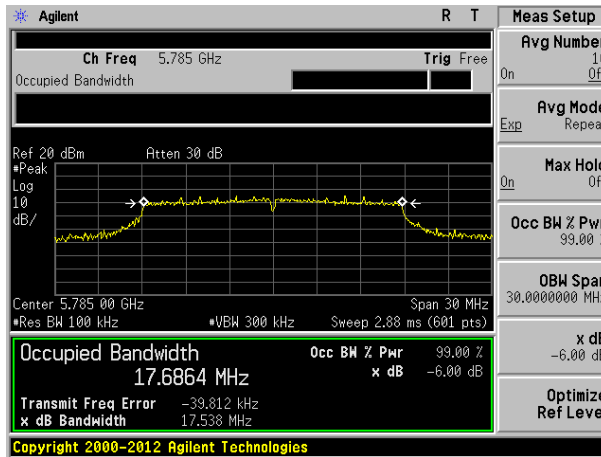


Highest channel

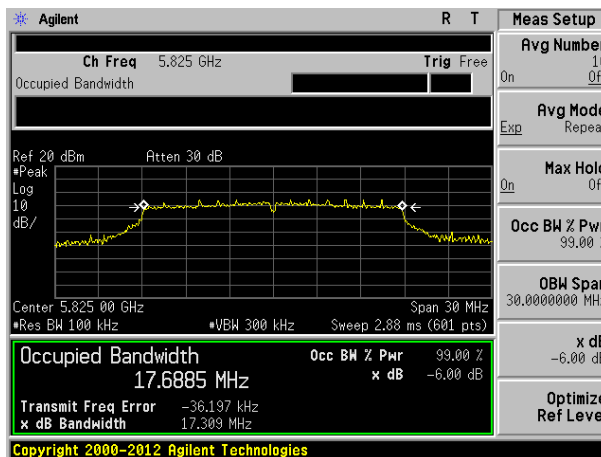
Test mode: 802.11ac(HT20) @ 5.8G Band



Lowest channel

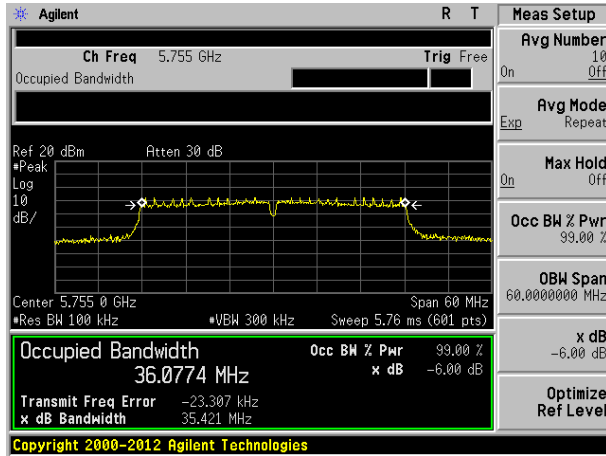


Middle channel

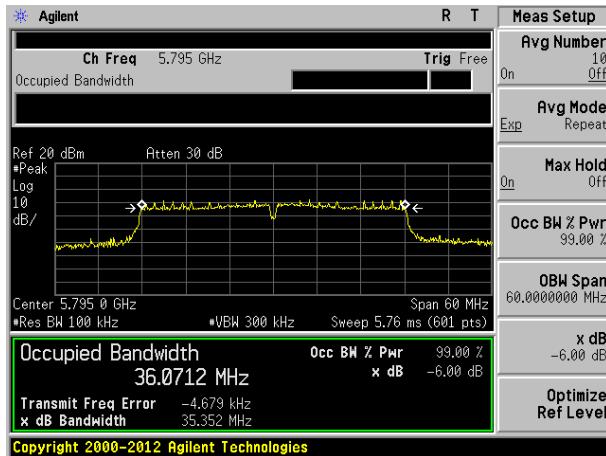


Highest channel

Test mode: 802.11n(HT40) @ 5.8G Band

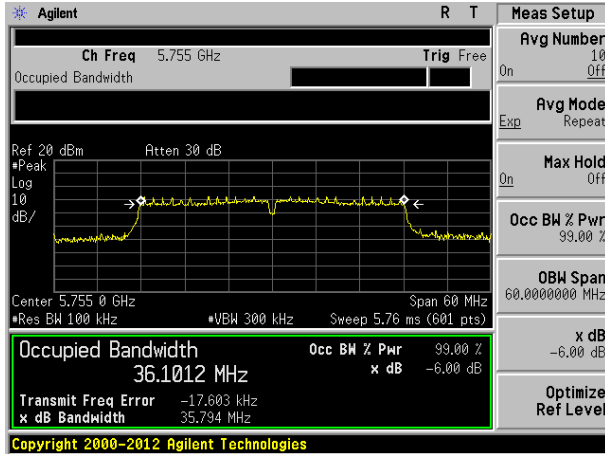


Lowest channel

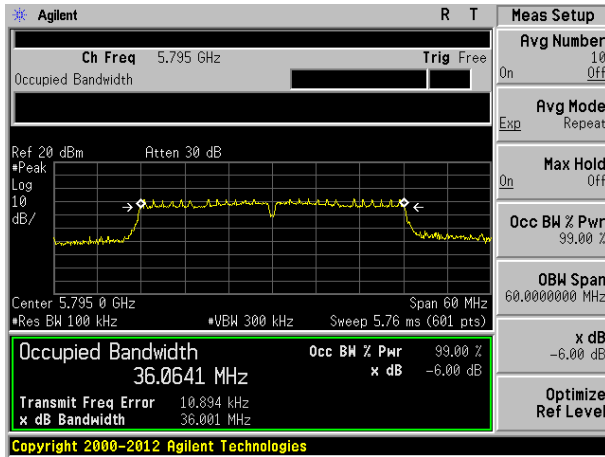


Highest channel

Test mode: 802.11ac(HT40) @ 5.8G Band

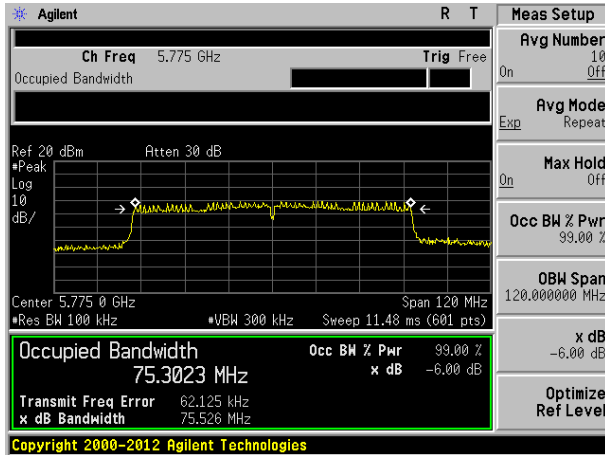


Lowest channel

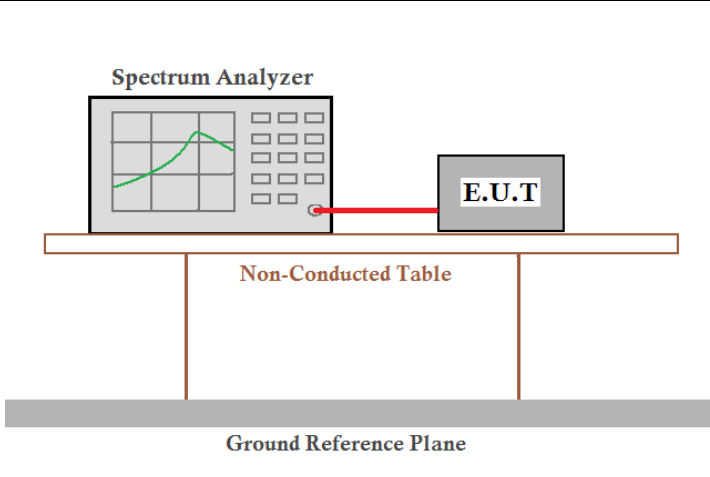


Highest channel

Test mode: 802.11ac(HT80) @ 5.8G Band



7.5 Power Spectral Density

| | |
|-------------------|---|
| Test Requirement: | FCC Part15 E Section 15.407(a)(3) |
| Test Method: | ANSI C63.10:2013 and KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 |
| Limit: | 30dBm |
| Test setup: |  |
| Test Instruments: | Refer to section 6.0 for details |
| Test mode: | Refer to section 5.2 for details |
| Test results: | Pass |

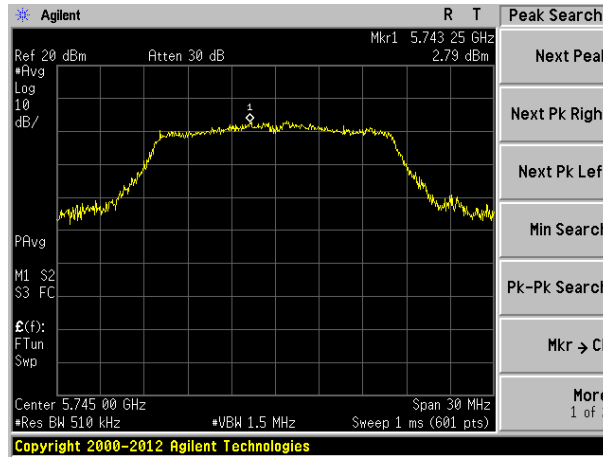
Measurement Data

| 5.8G Band | | | | | | | | |
|-----------|------------------------------|----------------|-----------------|----------------|-----------------|-----------------|--------------------|--------|
| Test CH | Power Spectral Density (dBm) | | | | | | Limit (dBm/500kHz) | Result |
| | 802.11a | 802.11n(HT 20) | 802.11ac(H T20) | 802.11n(HT 40) | 802.11ac(H T40) | 802.11ac(H T80) | | |
| Lowest | 2.79 | 2.89 | 0.12 | -3.06 | -4.05 | --- | 30.00 | Pass |
| Middle | 2.72 | 3.25 | -0.29 | --- | --- | -8.63 | | |
| Highest | 3.08 | 3.56 | -0.41 | -3.98 | -3.77 | --- | | |

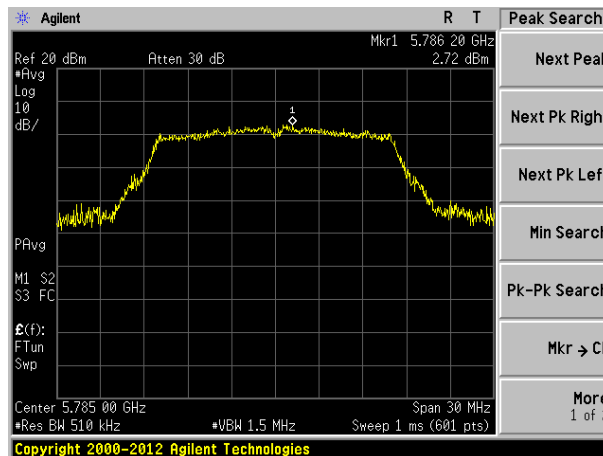
Remark: “---” is not applicable

Test plot as follows:

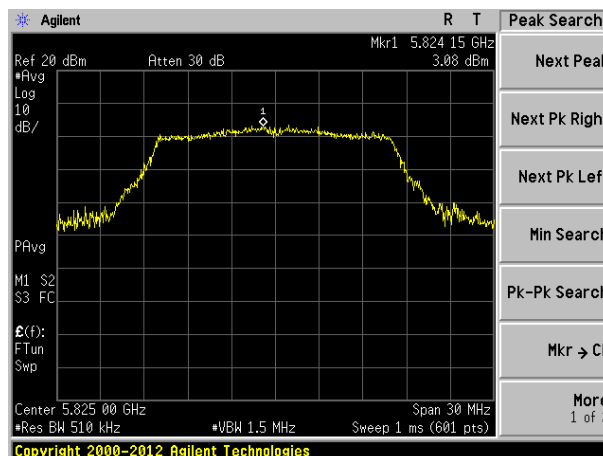
Test mode: 802.11a



Lowest channel

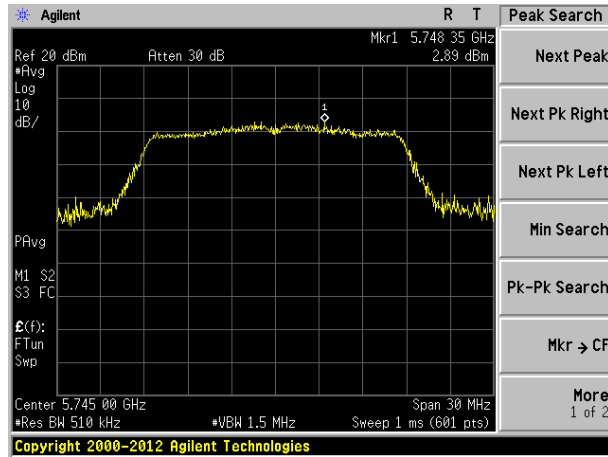


Middle channel

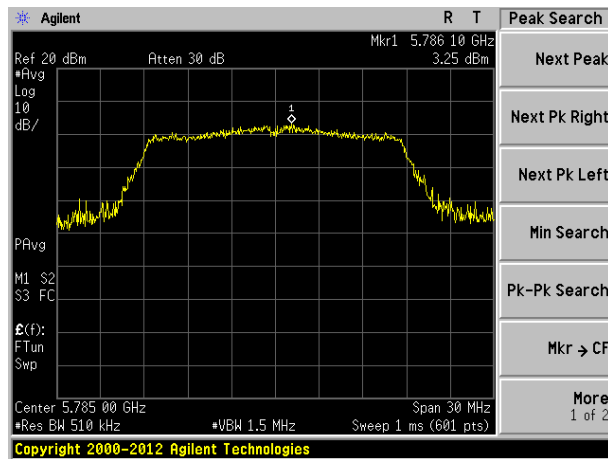


Highest channel

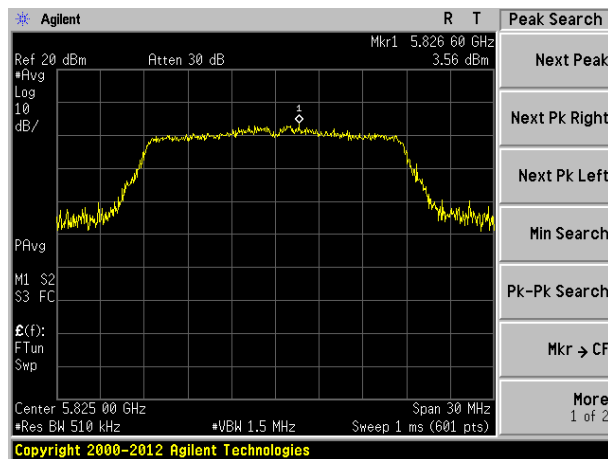
Test mode: 802.11n(HT20) @ 5.8G Band



Lowest channel

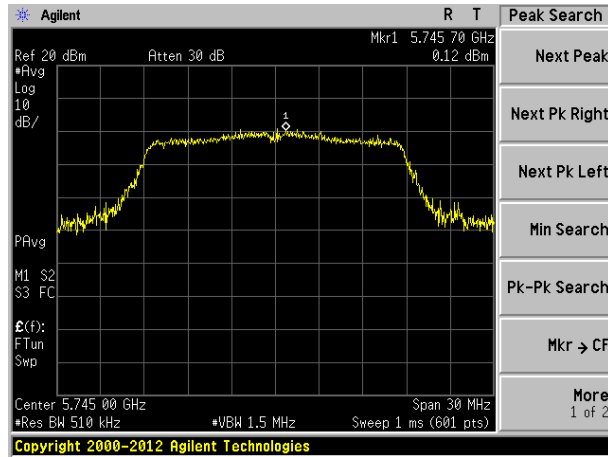


Middle channel

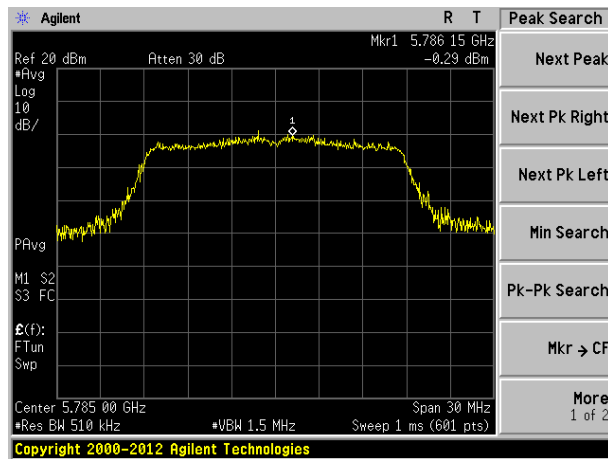


Highest channel

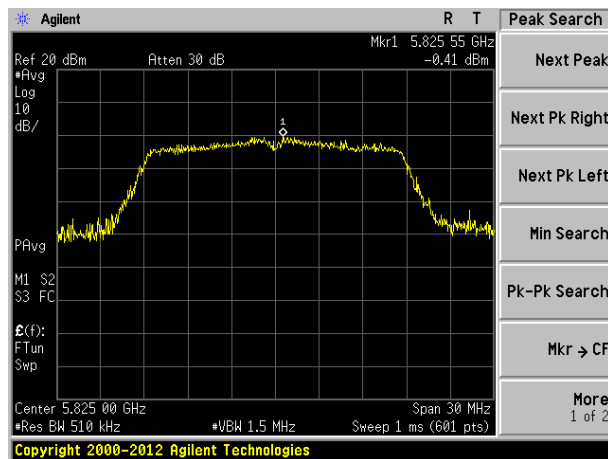
Test mode: 802.11ac(HT20)



Lowest channel

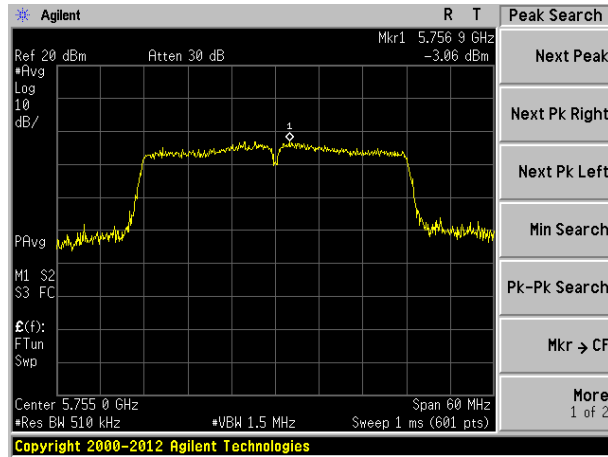


Middle channel

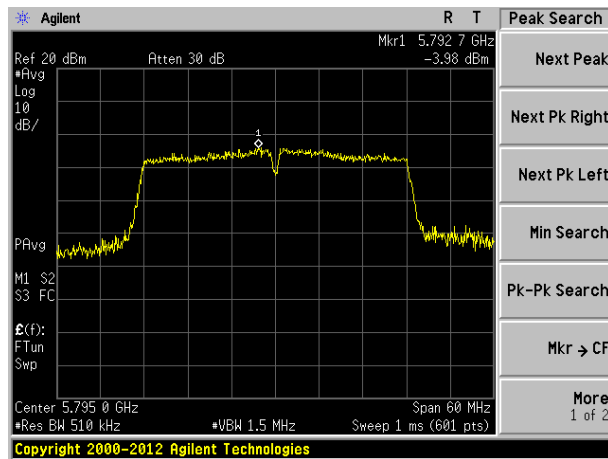


Highest channel

Test mode: 802.11n(HT40) @ 5.8G Band

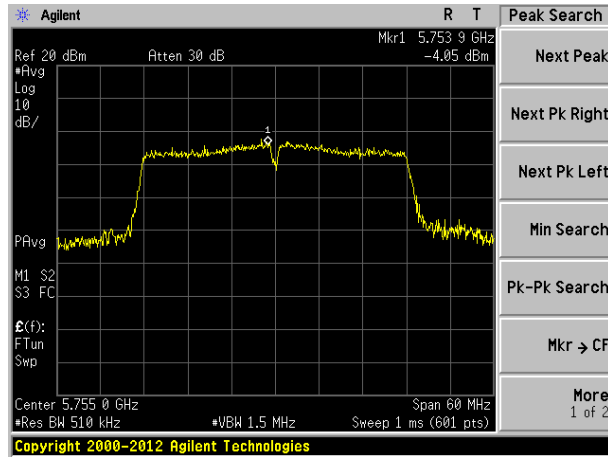


Lowest channel

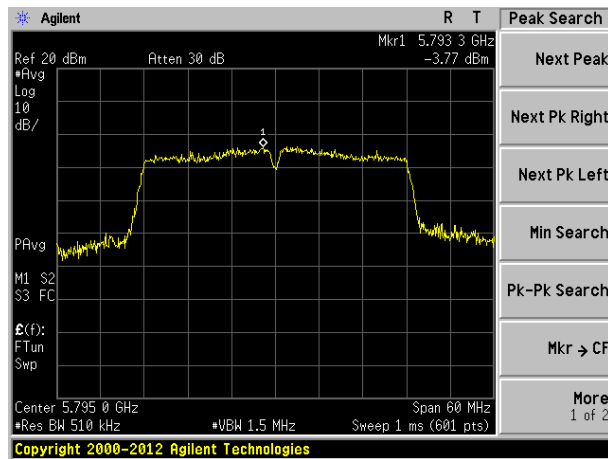


Highest channel

Test mode: 802.11ac(HT40)

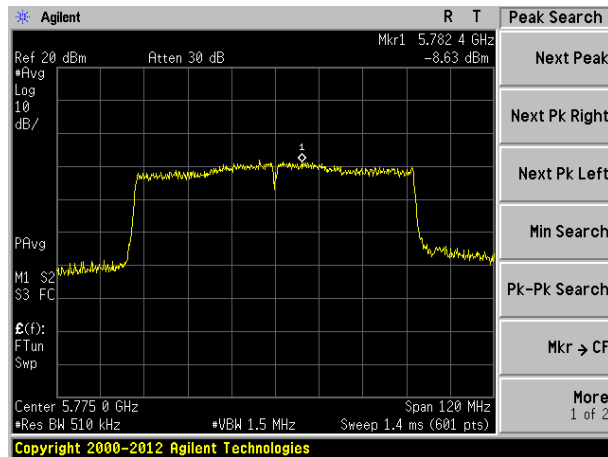


Lowest channel



Highest channel

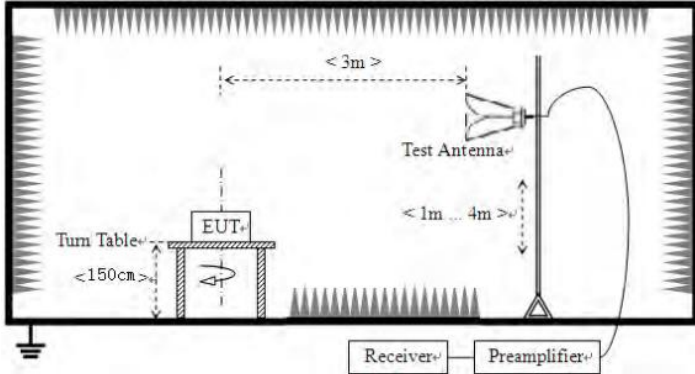
Test mode: 802.11ac(HT80)



Middle channel

7.6 Band edges

7.6.1 Radiated Emission Method

| | | | | | |
|-----------------------|---|-------------|--------------|--------------|-------------|
| Test Requirement: | FCC Part15 C Section 15.209 and 15.205 | | | | |
| Test Method: | ANSI C63.10: 2013 | | | | |
| Test Frequency Range: | 9kHz to 40GHz, only worse case is reported | | | | |
| Test site: | Measurement Distance: 3m | | | | |
| Receiver setup: | Frequency | Detector | RBW | VBW | Value |
| | Above 1GHz | Peak RMS | 1MHz 1MHz | 3MHz 3MHz | Peak RMS |
| Limit: | All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. | | | | |
| Test setup: |  | | | | |
| Test Procedure: | <ol style="list-style-type: none"> 1. 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. 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 X 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 5.2 for details |
| Test results: | Pass |

Remarks:

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.*
3. *The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.*
4. *According to KDB 789033 D02v02r01 section G) 1) d), for measurements above 1000 MHz @3m distance, the limit of field strength is computed as follows:*

$$E[\text{dBuV/m}] = \text{EIRP}[\text{dBm}] + 95.2;$$

$$E[\text{dBuV/m}] = -27 + 95.2 = 68.2\text{dBuV/m}.$$

$$E[\text{dBuV/m}] = 10 + 95.2 = 105.2\text{dBuV/m}.$$

$$E[\text{dBuV/m}] = 15.6 + 95.2 = 110.8\text{dBuV/m}.$$

$$E[\text{dBuV/m}] = 27 + 95.2 = 122.2\text{dBuV/m}$$

Measurement data:

| IEEE 802.11a | | | | | | | | |
|---------------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 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 |
| 5650.00 | 35.25 | 32.36 | 9.72 | 23.83 | 53.50 | 68.20 | -14.70 | Horizontal |
| 5700.00 | 35.63 | 32.50 | 9.79 | 23.84 | 54.08 | 68.20 | -14.12 | Horizontal |
| 5720.00 | 35.79 | 32.53 | 9.81 | 23.85 | 54.28 | 68.20 | -13.92 | Horizontal |
| 5725.00 | 39.67 | 32.53 | 9.83 | 23.86 | 58.17 | 68.20 | -10.03 | Horizontal |
| 5850.00 | 36.06 | 32.70 | 9.99 | 23.87 | 54.88 | 68.20 | -13.32 | Horizontal |
| 5855.00 | 34.11 | 32.72 | 9.99 | 23.88 | 52.94 | 68.20 | -15.26 | Horizontal |
| 5875.00 | 35.34 | 32.74 | 10.04 | 23.89 | 54.23 | 68.20 | -13.97 | Horizontal |
| 5925.00 | 35.41 | 32.80 | 10.11 | 23.90 | 54.42 | 68.20 | -13.78 | Horizontal |
| 5650.00 | 35.53 | 32.36 | 9.72 | 23.83 | 53.78 | 68.20 | -14.42 | Vertical |
| 5700.00 | 34.17 | 32.50 | 9.79 | 23.84 | 52.62 | 68.20 | -15.58 | Vertical |
| 5720.00 | 35.46 | 32.53 | 9.81 | 23.85 | 53.95 | 68.20 | -14.25 | Vertical |
| 5725.00 | 38.32 | 32.53 | 9.83 | 23.86 | 56.82 | 68.20 | -11.38 | Vertical |
| 5850.00 | 37.69 | 32.70 | 9.99 | 23.87 | 56.51 | 68.20 | -11.69 | Vertical |
| 5855.00 | 34.31 | 32.72 | 9.99 | 23.88 | 53.14 | 68.20 | -15.06 | Vertical |
| 5875.00 | 35.12 | 32.74 | 10.04 | 23.89 | 54.01 | 68.20 | -14.19 | Vertical |
| 5925.00 | 35.63 | 32.80 | 10.11 | 23.90 | 54.64 | 68.20 | -13.56 | Vertical |

| IEEE 802.11a | | | | | | | | |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 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 |
| 5650.00 | 25.12 | 32.36 | 9.72 | 23.83 | 43.37 | 54.00 | -10.63 | Horizontal |
| 5700.00 | 25.31 | 32.50 | 9.79 | 23.84 | 43.76 | 54.00 | -10.24 | Horizontal |
| 5720.00 | 24.42 | 32.53 | 9.81 | 23.85 | 42.91 | 54.00 | -11.09 | Horizontal |
| 5725.00 | 29.12 | 32.53 | 9.83 | 23.86 | 47.62 | 54.00 | -6.38 | Horizontal |
| 5850.00 | 28.42 | 32.70 | 9.99 | 23.87 | 47.24 | 54.00 | -6.76 | Horizontal |
| 5855.00 | 25.71 | 32.72 | 9.99 | 23.88 | 44.54 | 54.00 | -9.46 | Horizontal |
| 5875.00 | 24.98 | 32.74 | 10.04 | 23.89 | 43.87 | 54.00 | -10.13 | Horizontal |
| 5925.00 | 25.37 | 32.80 | 10.11 | 23.90 | 44.38 | 54.00 | -9.62 | Horizontal |
| 5650.00 | 25.16 | 32.36 | 9.72 | 23.83 | 43.41 | 54.00 | -10.59 | Vertical |
| 5700.00 | 25.44 | 32.50 | 9.79 | 23.84 | 43.89 | 54.00 | -10.11 | Vertical |
| 5720.00 | 25.46 | 32.53 | 9.81 | 23.85 | 43.95 | 54.00 | -10.05 | Vertical |
| 5725.00 | 29.13 | 32.53 | 9.83 | 23.86 | 47.63 | 54.00 | -6.37 | Vertical |
| 5850.00 | 28.52 | 32.70 | 9.99 | 23.87 | 47.34 | 54.00 | -6.66 | Vertical |
| 5855.00 | 24.89 | 32.72 | 9.99 | 23.88 | 43.72 | 54.00 | -10.28 | Vertical |
| 5875.00 | 25.07 | 32.74 | 10.04 | 23.89 | 43.96 | 54.00 | -10.04 | Vertical |
| 5925.00 | 25.39 | 32.80 | 10.11 | 23.90 | 44.40 | 54.00 | -9.60 | Vertical |

Remark:

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

| IEEE 802.11n HT20 | | | | | | | | |
|-------------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| Peak value: | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5650.00 | 35.12 | 32.36 | 9.72 | 23.83 | 53.37 | 68.20 | -14.83 | Horizontal |
| 5700.00 | 35.87 | 32.50 | 9.79 | 23.84 | 54.32 | 68.20 | -13.88 | Horizontal |
| 5720.00 | 36.02 | 32.53 | 9.81 | 23.85 | 54.51 | 68.20 | -13.69 | Horizontal |
| 5725.00 | 39.81 | 32.53 | 9.83 | 23.86 | 58.31 | 68.20 | -9.89 | Horizontal |
| 5850.00 | 37.62 | 32.70 | 9.99 | 23.87 | 56.44 | 68.20 | -11.76 | Horizontal |
| 5855.00 | 35.66 | 32.72 | 9.99 | 23.88 | 54.49 | 68.20 | -13.71 | Horizontal |
| 5875.00 | 35.17 | 32.74 | 10.04 | 23.89 | 54.06 | 68.20 | -14.14 | Horizontal |
| 5925.00 | 35.09 | 32.80 | 10.11 | 23.90 | 54.10 | 68.20 | -14.10 | Horizontal |
| 5650.00 | 35.79 | 32.36 | 9.72 | 23.83 | 54.04 | 68.20 | -14.16 | Vertical |
| 5700.00 | 35.83 | 32.50 | 9.79 | 23.84 | 54.28 | 68.20 | -13.92 | Vertical |
| 5720.00 | 34.74 | 32.53 | 9.81 | 23.85 | 53.23 | 68.20 | -14.97 | Vertical |
| 5725.00 | 38.33 | 32.53 | 9.83 | 23.86 | 56.83 | 68.20 | -11.37 | Vertical |
| 5850.00 | 37.52 | 32.70 | 9.99 | 23.87 | 56.34 | 68.20 | -11.86 | Vertical |
| 5855.00 | 35.12 | 32.72 | 9.99 | 23.88 | 53.95 | 68.20 | -14.25 | Vertical |
| 5875.00 | 35.47 | 32.74 | 10.04 | 23.89 | 54.36 | 68.20 | -13.84 | Vertical |
| 5925.00 | 34.98 | 32.80 | 10.11 | 23.90 | 53.99 | 68.20 | -14.21 | Vertical |

| IEEE 802.11n HT20 | | | | | | | | |
|-------------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 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 |
| 5650.00 | 25.36 | 32.36 | 9.72 | 23.83 | 43.61 | 54.00 | -10.39 | Horizontal |
| 5700.00 | 25.39 | 32.50 | 9.79 | 23.84 | 43.84 | 54.00 | -10.16 | Horizontal |
| 5720.00 | 25.42 | 32.53 | 9.81 | 23.85 | 43.91 | 54.00 | -10.09 | Horizontal |
| 5725.00 | 29.83 | 32.53 | 9.83 | 23.86 | 48.33 | 54.00 | -5.67 | Horizontal |
| 5850.00 | 28.11 | 32.70 | 9.99 | 23.87 | 46.93 | 54.00 | -7.07 | Horizontal |
| 5855.00 | 25.63 | 32.72 | 9.99 | 23.88 | 44.46 | 54.00 | -9.54 | Horizontal |
| 5875.00 | 25.18 | 32.74 | 10.04 | 23.89 | 44.07 | 54.00 | -9.93 | Horizontal |
| 5925.00 | 25.30 | 32.80 | 10.11 | 23.90 | 44.31 | 54.00 | -9.69 | Horizontal |
| 5650.00 | 25.09 | 32.36 | 9.72 | 23.83 | 43.34 | 54.00 | -10.66 | Vertical |
| 5700.00 | 25.44 | 32.50 | 9.79 | 23.84 | 43.89 | 54.00 | -10.11 | Vertical |
| 5720.00 | 25.39 | 32.53 | 9.81 | 23.85 | 43.88 | 54.00 | -10.12 | Vertical |
| 5725.00 | 29.37 | 32.53 | 9.83 | 23.86 | 47.87 | 54.00 | -6.13 | Vertical |
| 5850.00 | 28.03 | 32.70 | 9.99 | 23.87 | 46.85 | 54.00 | -7.15 | Vertical |
| 5855.00 | 25.36 | 32.72 | 9.99 | 23.88 | 44.19 | 54.00 | -9.81 | Vertical |
| 5875.00 | 25.11 | 32.74 | 10.04 | 23.89 | 44.00 | 54.00 | -10.00 | Vertical |
| 5925.00 | 25.36 | 32.80 | 10.11 | 23.90 | 44.37 | 54.00 | -9.63 | Vertical |

| IEEE 802.11ac HT20 | | | | | | | | |
|--------------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| Peak value: | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5650.00 | 35.42 | 32.36 | 9.72 | 23.83 | 53.67 | 68.20 | -14.53 | Horizontal |
| 5700.00 | 35.36 | 32.50 | 9.79 | 23.84 | 53.81 | 68.20 | -14.39 | Horizontal |
| 5720.00 | 35.18 | 32.53 | 9.81 | 23.85 | 53.67 | 68.20 | -14.53 | Horizontal |
| 5725.00 | 38.92 | 32.53 | 9.83 | 23.86 | 57.42 | 68.20 | -10.78 | Horizontal |
| 5850.00 | 37.66 | 32.70 | 9.99 | 23.87 | 56.48 | 68.20 | -11.72 | Horizontal |
| 5855.00 | 35.61 | 32.72 | 9.99 | 23.88 | 54.44 | 68.20 | -13.76 | Horizontal |
| 5875.00 | 35.09 | 32.74 | 10.04 | 23.89 | 53.98 | 68.20 | -14.22 | Horizontal |
| 5925.00 | 35.10 | 32.80 | 10.11 | 23.90 | 54.11 | 68.20 | -14.09 | Horizontal |
| 5650.00 | 35.23 | 32.36 | 9.72 | 23.83 | 53.48 | 68.20 | -14.72 | Vertical |
| 5700.00 | 35.44 | 32.50 | 9.79 | 23.84 | 53.89 | 68.20 | -14.31 | Vertical |
| 5720.00 | 35.67 | 32.53 | 9.81 | 23.85 | 54.16 | 68.20 | -14.04 | Vertical |
| 5725.00 | 38.42 | 32.53 | 9.83 | 23.86 | 56.92 | 68.20 | -11.28 | Vertical |
| 5850.00 | 37.68 | 32.70 | 9.99 | 23.87 | 56.50 | 68.20 | -11.70 | Vertical |
| 5855.00 | 35.29 | 32.72 | 9.99 | 23.88 | 54.12 | 68.20 | -14.08 | Vertical |
| 5875.00 | 35.26 | 32.74 | 10.04 | 23.89 | 54.15 | 68.20 | -14.05 | Vertical |
| 5925.00 | 35.40 | 32.80 | 10.11 | 23.90 | 54.41 | 68.20 | -13.79 | Vertical |

| IEEE 802.11ac HT20 | | | | | | | | |
|--------------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 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 |
| 5650.00 | 25.69 | 32.36 | 9.72 | 23.83 | 43.94 | 54.00 | -10.06 | Horizontal |
| 5700.00 | 26.33 | 32.50 | 9.79 | 23.84 | 44.78 | 54.00 | -9.22 | Horizontal |
| 5720.00 | 25.14 | 32.53 | 9.81 | 23.85 | 43.63 | 54.00 | -10.37 | Horizontal |
| 5725.00 | 29.30 | 32.53 | 9.83 | 23.86 | 47.80 | 54.00 | -6.20 | Horizontal |
| 5850.00 | 28.45 | 32.70 | 9.99 | 23.87 | 47.27 | 54.00 | -6.73 | Horizontal |
| 5855.00 | 25.60 | 32.72 | 9.99 | 23.88 | 44.43 | 54.00 | -9.57 | Horizontal |
| 5875.00 | 25.11 | 32.74 | 10.04 | 23.89 | 44.00 | 54.00 | -10.00 | Horizontal |
| 5925.00 | 25.37 | 32.80 | 10.11 | 23.90 | 44.38 | 54.00 | -9.62 | Horizontal |
| 5650.00 | 25.09 | 32.36 | 9.72 | 23.83 | 43.34 | 54.00 | -10.66 | Vertical |
| 5700.00 | 25.88 | 32.50 | 9.79 | 23.84 | 44.33 | 54.00 | -9.67 | Vertical |
| 5720.00 | 25.42 | 32.53 | 9.81 | 23.85 | 43.91 | 54.00 | -10.09 | Vertical |
| 5725.00 | 29.07 | 32.53 | 9.83 | 23.86 | 47.57 | 54.00 | -6.43 | Vertical |
| 5850.00 | 28.52 | 32.70 | 9.99 | 23.87 | 47.34 | 54.00 | -6.66 | Vertical |
| 5855.00 | 25.13 | 32.72 | 9.99 | 23.88 | 43.96 | 54.00 | -10.04 | Vertical |
| 5875.00 | 25.37 | 32.74 | 10.04 | 23.89 | 44.26 | 54.00 | -9.74 | Vertical |
| 5925.00 | 25.61 | 32.80 | 10.11 | 23.90 | 44.62 | 54.00 | -9.38 | Vertical |

| IEEE 802.11n HT40 | | | | | | | | |
|-------------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| Peak value: | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5650.00 | 35.32 | 32.36 | 9.72 | 23.83 | 53.57 | 68.20 | -14.63 | Horizontal |
| 5700.00 | 35.50 | 32.50 | 9.79 | 23.84 | 53.95 | 68.20 | -14.25 | Horizontal |
| 5720.00 | 35.53 | 32.53 | 9.81 | 23.85 | 54.02 | 68.20 | -14.18 | Horizontal |
| 5725.00 | 38.28 | 32.53 | 9.83 | 23.86 | 56.78 | 68.20 | -11.42 | Horizontal |
| 5850.00 | 37.72 | 32.70 | 9.99 | 23.87 | 56.54 | 68.20 | -11.66 | Horizontal |
| 5855.00 | 35.31 | 32.72 | 9.99 | 23.88 | 54.14 | 68.20 | -14.06 | Horizontal |
| 5875.00 | 35.13 | 32.74 | 10.04 | 23.89 | 54.02 | 68.20 | -14.18 | Horizontal |
| 5925.00 | 35.77 | 32.80 | 10.11 | 23.90 | 54.78 | 68.20 | -13.42 | Horizontal |
| 5650.00 | 35.44 | 32.36 | 9.72 | 23.83 | 53.69 | 68.20 | -14.51 | Vertical |
| 5700.00 | 35.09 | 32.50 | 9.79 | 23.84 | 53.54 | 68.20 | -14.66 | Vertical |
| 5720.00 | 35.81 | 32.53 | 9.81 | 23.85 | 54.30 | 68.20 | -13.90 | Vertical |
| 5725.00 | 38.62 | 32.53 | 9.83 | 23.86 | 57.12 | 68.20 | -11.08 | Vertical |
| 5850.00 | 37.44 | 32.70 | 9.99 | 23.87 | 56.26 | 68.20 | -11.94 | Vertical |
| 5855.00 | 35.52 | 32.72 | 9.99 | 23.88 | 54.35 | 68.20 | -13.85 | Vertical |
| 5875.00 | 35.66 | 32.74 | 10.04 | 23.89 | 54.55 | 68.20 | -13.65 | Vertical |
| 5925.00 | 35.08 | 32.80 | 10.11 | 23.90 | 54.09 | 68.20 | -14.11 | Vertical |

| IEEE 802.11n HT40 | | | | | | | | |
|-------------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 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 |
| 5650.00 | 25.50 | 32.36 | 9.72 | 23.83 | 43.75 | 54.00 | -10.25 | Horizontal |
| 5700.00 | 26.84 | 32.50 | 9.79 | 23.84 | 45.29 | 54.00 | -8.71 | Horizontal |
| 5720.00 | 25.31 | 32.53 | 9.81 | 23.85 | 43.80 | 54.00 | -10.20 | Horizontal |
| 5725.00 | 29.87 | 32.53 | 9.83 | 23.86 | 48.37 | 54.00 | -5.63 | Horizontal |
| 5850.00 | 28.62 | 32.70 | 9.99 | 23.87 | 47.44 | 54.00 | -6.56 | Horizontal |
| 5855.00 | 25.66 | 32.72 | 9.99 | 23.88 | 44.49 | 54.00 | -9.51 | Horizontal |
| 5875.00 | 25.04 | 32.74 | 10.04 | 23.89 | 43.93 | 54.00 | -10.07 | Horizontal |
| 5925.00 | 25.74 | 32.80 | 10.11 | 23.90 | 44.75 | 54.00 | -9.25 | Horizontal |
| 5650.00 | 25.25 | 32.36 | 9.72 | 23.83 | 43.50 | 54.00 | -10.50 | Vertical |
| 5700.00 | 25.17 | 32.50 | 9.79 | 23.84 | 43.62 | 54.00 | -10.38 | Vertical |
| 5720.00 | 25.09 | 32.53 | 9.81 | 23.85 | 43.58 | 54.00 | -10.42 | Vertical |
| 5725.00 | 29.77 | 32.53 | 9.83 | 23.86 | 48.27 | 54.00 | -5.73 | Vertical |
| 5850.00 | 28.60 | 32.70 | 9.99 | 23.87 | 47.42 | 54.00 | -6.58 | Vertical |
| 5855.00 | 25.70 | 32.72 | 9.99 | 23.88 | 44.53 | 54.00 | -9.47 | Vertical |
| 5875.00 | 25.05 | 32.74 | 10.04 | 23.89 | 43.94 | 54.00 | -10.06 | Vertical |
| 5925.00 | 25.80 | 32.80 | 10.11 | 23.90 | 44.81 | 54.00 | -9.19 | Vertical |

| IEEE 802.11ac HT40 | | | | | | | | |
|--------------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| Peak value: | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5650.00 | 35.42 | 32.36 | 9.72 | 23.83 | 53.67 | 68.20 | -14.53 | Horizontal |
| 5700.00 | 35.09 | 32.50 | 9.79 | 23.84 | 53.54 | 68.20 | -14.66 | Horizontal |
| 5720.00 | 35.14 | 32.53 | 9.81 | 23.85 | 53.63 | 68.20 | -14.57 | Horizontal |
| 5725.00 | 39.65 | 32.53 | 9.83 | 23.86 | 58.15 | 68.20 | -10.05 | Horizontal |
| 5850.00 | 38.06 | 32.70 | 9.99 | 23.87 | 56.88 | 68.20 | -11.32 | Horizontal |
| 5855.00 | 35.27 | 32.72 | 9.99 | 23.88 | 54.10 | 68.20 | -14.10 | Horizontal |
| 5875.00 | 35.11 | 32.74 | 10.04 | 23.89 | 54.00 | 68.20 | -14.20 | Horizontal |
| 5925.00 | 35.36 | 32.80 | 10.11 | 23.90 | 54.37 | 68.20 | -13.83 | Horizontal |
| 5650.00 | 35.44 | 32.36 | 9.72 | 23.83 | 53.69 | 68.20 | -14.51 | Vertical |
| 5700.00 | 35.30 | 32.50 | 9.79 | 23.84 | 53.75 | 68.20 | -14.45 | Vertical |
| 5720.00 | 35.80 | 32.53 | 9.81 | 23.85 | 54.29 | 68.20 | -13.91 | Vertical |
| 5725.00 | 38.44 | 32.53 | 9.83 | 23.86 | 56.94 | 68.20 | -11.26 | Vertical |
| 5850.00 | 37.72 | 32.70 | 9.99 | 23.87 | 56.54 | 68.20 | -11.66 | Vertical |
| 5855.00 | 35.89 | 32.72 | 9.99 | 23.88 | 54.72 | 68.20 | -13.48 | Vertical |
| 5875.00 | 35.13 | 32.74 | 10.04 | 23.89 | 54.02 | 68.20 | -14.18 | Vertical |
| 5925.00 | 35.79 | 32.80 | 10.11 | 23.90 | 54.80 | 68.20 | -13.40 | Vertical |

| IEEE 802.11ac HT40 | | | | | | | | |
|--------------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 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 |
| 5650.00 | 25.53 | 32.36 | 9.72 | 23.83 | 43.78 | 54.00 | -10.22 | Horizontal |
| 5700.00 | 26.33 | 32.50 | 9.79 | 23.84 | 44.78 | 54.00 | -9.22 | Horizontal |
| 5720.00 | 25.42 | 32.53 | 9.81 | 23.85 | 43.91 | 54.00 | -10.09 | Horizontal |
| 5725.00 | 29.55 | 32.53 | 9.83 | 23.86 | 48.05 | 54.00 | -5.95 | Horizontal |
| 5850.00 | 28.67 | 32.70 | 9.99 | 23.87 | 47.49 | 54.00 | -6.51 | Horizontal |
| 5855.00 | 25.44 | 32.72 | 9.99 | 23.88 | 44.27 | 54.00 | -9.73 | Horizontal |
| 5875.00 | 25.51 | 32.74 | 10.04 | 23.89 | 44.40 | 54.00 | -9.60 | Horizontal |
| 5925.00 | 25.79 | 32.80 | 10.11 | 23.90 | 44.80 | 54.00 | -9.20 | Horizontal |
| 5650.00 | 25.15 | 32.36 | 9.72 | 23.83 | 43.40 | 54.00 | -10.60 | Vertical |
| 5700.00 | 25.63 | 32.50 | 9.79 | 23.84 | 44.08 | 54.00 | -9.92 | Vertical |
| 5720.00 | 25.60 | 32.53 | 9.81 | 23.85 | 44.09 | 54.00 | -9.91 | Vertical |
| 5725.00 | 29.48 | 32.53 | 9.83 | 23.86 | 47.98 | 54.00 | -6.02 | Vertical |
| 5850.00 | 28.72 | 32.70 | 9.99 | 23.87 | 47.54 | 54.00 | -6.46 | Vertical |
| 5855.00 | 25.44 | 32.72 | 9.99 | 23.88 | 44.27 | 54.00 | -9.73 | Vertical |
| 5875.00 | 25.36 | 32.74 | 10.04 | 23.89 | 44.25 | 54.00 | -9.75 | Vertical |
| 5925.00 | 25.78 | 32.80 | 10.11 | 23.90 | 44.79 | 54.00 | -9.21 | Vertical |

| IEEE 802.11ac HT80 | | | | | | | | |
|--------------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| Peak value: | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5650.00 | 35.84 | 32.36 | 9.72 | 23.83 | 54.09 | 68.20 | -14.11 | Horizontal |
| 5700.00 | 35.20 | 32.50 | 9.79 | 23.84 | 53.65 | 68.20 | -14.55 | Horizontal |
| 5720.00 | 35.11 | 32.53 | 9.81 | 23.85 | 53.60 | 68.20 | -14.60 | Horizontal |
| 5725.00 | 39.86 | 32.53 | 9.83 | 23.86 | 58.36 | 68.20 | -9.84 | Horizontal |
| 5850.00 | 38.47 | 32.70 | 9.99 | 23.87 | 57.29 | 68.20 | -10.91 | Horizontal |
| 5855.00 | 35.20 | 32.72 | 9.99 | 23.88 | 54.03 | 68.20 | -14.17 | Horizontal |
| 5875.00 | 35.19 | 32.74 | 10.04 | 23.89 | 54.08 | 68.20 | -14.12 | Horizontal |
| 5925.00 | 35.42 | 32.80 | 10.11 | 23.90 | 54.43 | 68.20 | -13.77 | Horizontal |
| 5650.00 | 35.63 | 32.36 | 9.72 | 23.83 | 53.88 | 68.20 | -14.32 | Vertical |
| 5700.00 | 35.88 | 32.50 | 9.79 | 23.84 | 54.33 | 68.20 | -13.87 | Vertical |
| 5720.00 | 35.75 | 32.53 | 9.81 | 23.85 | 54.24 | 68.20 | -13.96 | Vertical |
| 5725.00 | 38.45 | 32.53 | 9.83 | 23.86 | 56.95 | 68.20 | -11.25 | Vertical |
| 5850.00 | 37.96 | 32.70 | 9.99 | 23.87 | 56.78 | 68.20 | -11.42 | Vertical |
| 5855.00 | 35.77 | 32.72 | 9.99 | 23.88 | 54.60 | 68.20 | -13.60 | Vertical |
| 5875.00 | 35.02 | 32.74 | 10.04 | 23.89 | 53.91 | 68.20 | -14.29 | Vertical |
| 5925.00 | 35.82 | 32.80 | 10.11 | 23.90 | 54.83 | 68.20 | -13.37 | Vertical |

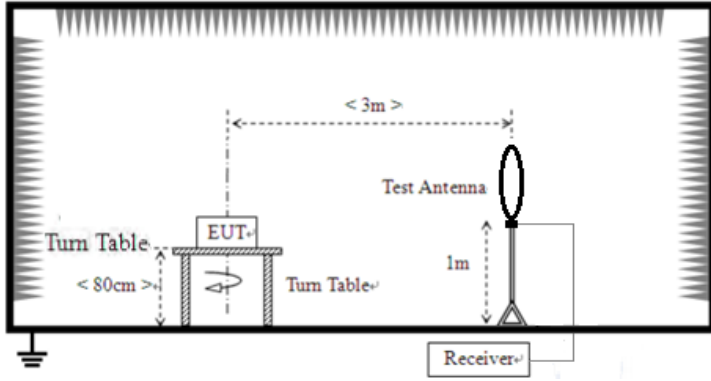
| IEEE 802.11ac HT40 | | | | | | | | |
|--------------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| Average value: | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5650.00 | 25.17 | 32.36 | 9.72 | 23.83 | 43.42 | 54.00 | -10.58 | Horizontal |
| 5700.00 | 26.08 | 32.50 | 9.79 | 23.84 | 44.53 | 54.00 | -9.47 | Horizontal |
| 5720.00 | 25.36 | 32.53 | 9.81 | 23.85 | 43.85 | 54.00 | -10.15 | Horizontal |
| 5725.00 | 29.77 | 32.53 | 9.83 | 23.86 | 48.27 | 54.00 | -5.73 | Horizontal |
| 5850.00 | 28.30 | 32.70 | 9.99 | 23.87 | 47.12 | 54.00 | -6.88 | Horizontal |
| 5855.00 | 25.15 | 32.72 | 9.99 | 23.88 | 43.98 | 54.00 | -10.02 | Horizontal |
| 5875.00 | 25.48 | 32.74 | 10.04 | 23.89 | 44.37 | 54.00 | -9.63 | Horizontal |
| 5925.00 | 25.37 | 32.80 | 10.11 | 23.90 | 44.38 | 54.00 | -9.62 | Horizontal |
| 5650.00 | 25.49 | 32.36 | 9.72 | 23.83 | 43.74 | 54.00 | -10.26 | Vertical |
| 5700.00 | 25.67 | 32.50 | 9.79 | 23.84 | 44.12 | 54.00 | -9.88 | Vertical |
| 5720.00 | 25.33 | 32.53 | 9.81 | 23.85 | 43.82 | 54.00 | -10.18 | Vertical |
| 5725.00 | 28.58 | 32.53 | 9.83 | 23.86 | 47.08 | 54.00 | -6.92 | Vertical |
| 5850.00 | 28.34 | 32.70 | 9.99 | 23.87 | 47.16 | 54.00 | -6.84 | Vertical |
| 5855.00 | 25.67 | 32.72 | 9.99 | 23.88 | 44.50 | 54.00 | -9.50 | Vertical |
| 5875.00 | 25.26 | 32.74 | 10.04 | 23.89 | 44.15 | 54.00 | -9.85 | Vertical |
| 5925.00 | 25.29 | 32.80 | 10.11 | 23.90 | 44.30 | 54.00 | -9.70 | Vertical |

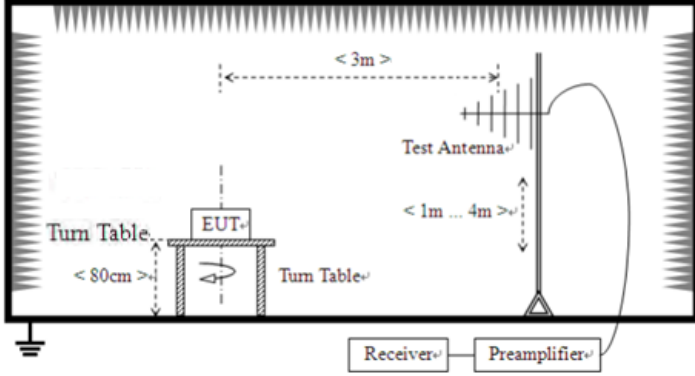
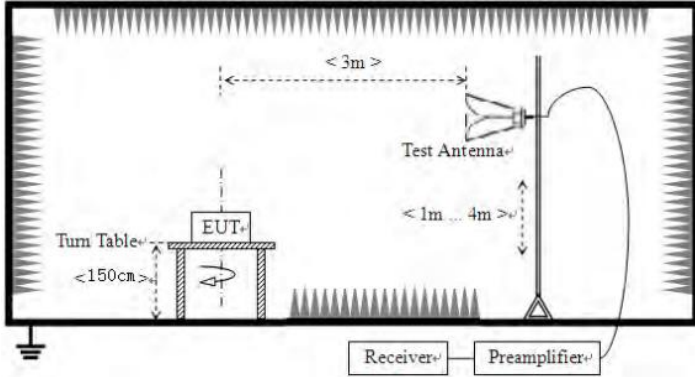
Remark:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor*
The emission levels of other frequencies are very lower than the limit and not show

7.7 Spurious Emission

7.7.1 Radiated Emission Method

| | | | | | |
|-----------------------|--|--------------|-----------------|----------------------|------------------|
| Test Requirement: | FCC Part15 C Section 15.209, Part 15E Section 15.407(b)(4) | | | | |
| Test Method: | ANSI C63.10:2013 | | | | |
| Test Frequency Range: | 9kHz to 40GHz | | | | |
| Test site: | Measurement Distance: 3m | | | | |
| Receiver setup: | Frequency | Detector | RBW | VBW | Value |
| | 9kHz-150kHz | Quasi-peak | 200Hz | 1kHz | Quasi-peak Value |
| | 150kHz-30MHz | Quasi-peak | 9kHz | 30kHz | Quasi-peak Value |
| | 30MHz-1GHz | Quasi-peak | 100kHz | 300kHz | Quasi-peak Value |
| | Above 1GHz | Peak | 1MHz | 3MHz | Peak Value |
| AV | | 1MHz | 3MHz | Average Value | |
| Limit: | Frequency | Limit (uV/m) | Value | Measurement Distance | |
| | 0.009MHz-0.490MHz | 2400/F(KHz) | QP | 300m | |
| | 0.490MHz-1.705MHz | 24000/F(KHz) | QP | 300m | |
| | 1.705MHz-30MHz | 30 | QP | 30m | |
| | 30MHz-88MHz | 100 | QP | 3m | |
| | 88MHz-216MHz | 150 | QP | | |
| | 216MHz-960MHz | 200 | QP | | |
| | 960MHz-1GHz | 500 | QP | | |
| | | | | | |
| | | Frequency | Limit (dBm/MHz) | Remark | |
| | Above 1GHz | -27.0 | Peak Value | | |
| Test setup: | For radiated emissions from 9kHz to 30MHz | | | | |
| |  <p>The diagram illustrates the test setup for radiated emissions from 9kHz to 30MHz. It shows an Equipment Under Test (EUT) placed on a turn table. A test antenna is positioned 3m away from the EUT. The antenna is 1m high. The turn table for the EUT is 80cm high. A receiver is connected to the antenna. The setup is shown within a shielded enclosure.</p> | | | | |
| | For radiated emissions from 30MHz to 1GHz | | | | |

| | |
|------------------------|--|
| |  <p>For radiated emissions above 1GHz</p>  |
| <p>Test Procedure:</p> | <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 X 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 5.2 for details | | | | | |
| Test environment: | Temp.: | 25 °C | Humid.: | 52% | Press.: | 1012mbar |
| Test voltage: | AC 120V, 60Hz | | | | | |
| Test results: | Pass | | | | | |

Remarks:

1. *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:

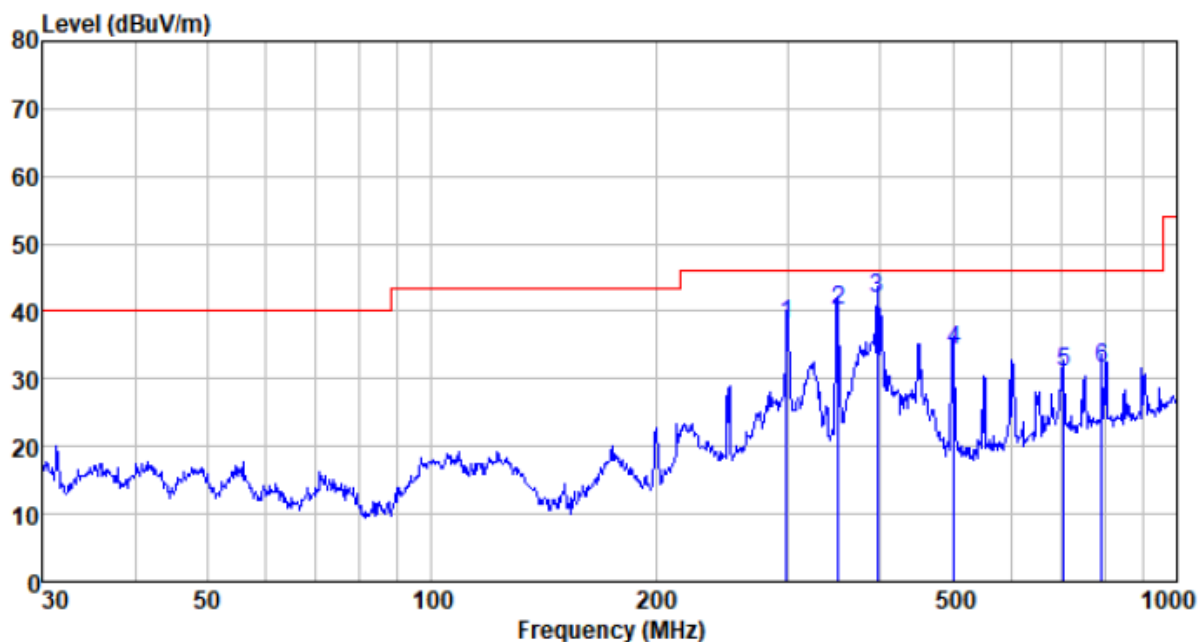
9 kHz ~ 30 MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Below 1GHz

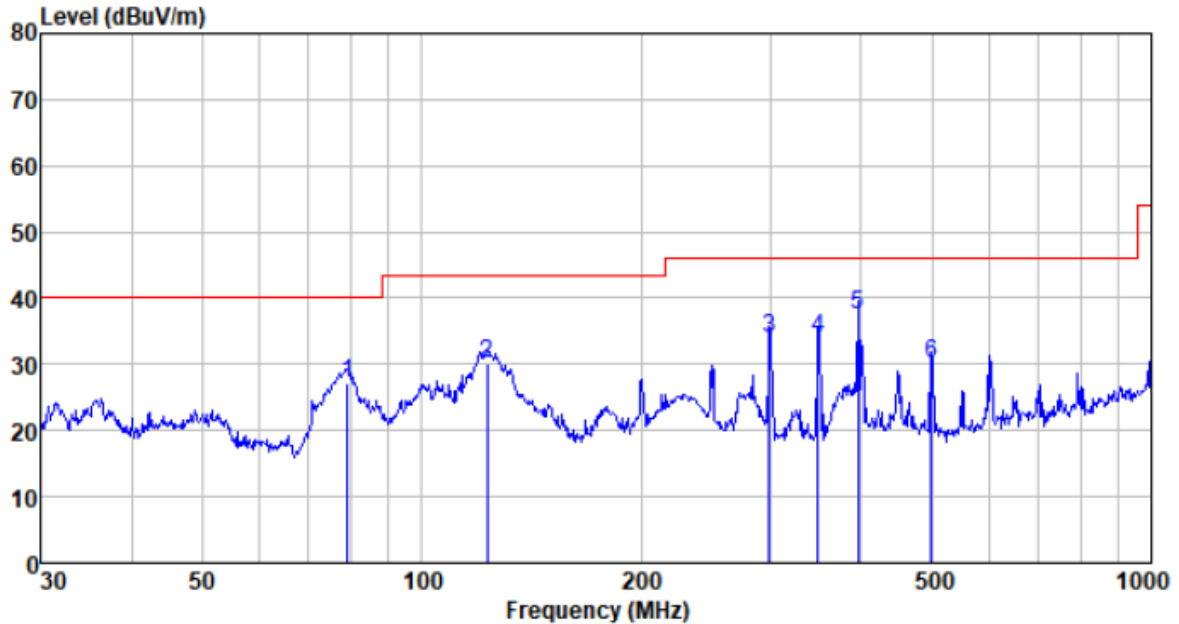
Pre-scan all test modes, found worst case at 802.11ac(HT80), and so only show the test result of 802.11ac(HT80)

Horizontal:



| Freq MHz | Reading level dBuV | Antenna factor dB/m | Cable loss dB | Preamp factor dB | level dBuV/m | Limit level dBuV/m | Over limit dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 299.316 | 59.51 | 13.60 | 2.35 | 37.42 | 38.04 | 46.00 | -7.96 | QP |
| 351.708 | 60.41 | 14.56 | 2.63 | 37.48 | 40.12 | 46.00 | -5.88 | QP |
| 396.242 | 61.24 | 15.25 | 2.83 | 37.52 | 41.80 | 46.00 | -4.20 | QP |
| 502.940 | 51.07 | 17.35 | 3.32 | 37.51 | 34.23 | 46.00 | -11.77 | QP |
| 704.226 | 44.76 | 19.66 | 4.10 | 37.63 | 30.89 | 46.00 | -15.11 | QP |
| 793.396 | 43.49 | 21.28 | 4.43 | 37.62 | 31.58 | 46.00 | -14.42 | QP |

Vertical:



| Freq MHz | Reading level dBuV | Antenna factor dB/m | Cable loss dB | Preamp factor dB | level dBuV/m | Limit level dBuV/m | Over limit dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 78.965 | 55.40 | 7.41 | 1.02 | 36.54 | 27.29 | 40.00 | -12.71 | QP |
| 122.834 | 56.48 | 9.12 | 1.38 | 36.90 | 30.08 | 43.50 | -13.42 | QP |
| 299.316 | 55.28 | 13.60 | 2.35 | 37.42 | 33.81 | 46.00 | -12.19 | QP |
| 349.250 | 54.19 | 14.50 | 2.62 | 37.47 | 33.84 | 46.00 | -12.16 | QP |
| 396.242 | 56.90 | 15.25 | 2.83 | 37.52 | 37.46 | 46.00 | -8.54 | QP |
| 499.425 | 46.89 | 17.30 | 3.30 | 37.51 | 29.98 | 46.00 | -16.02 | QP |

Above 1GHz:

802.11a,11n(HT20),11ac(HT20),11n(HT40),11ac(HT40),11ac(HT80) all have been tested ,Only the data of worst case at each channel plan (nominal bandwidth =20MHz, 40MHz, 80MHz) is reported.

| Test mode: | | 802.11a | | Test channel: | | lowest | |
|--------------|-----------------|------------------------|-----------------|------------------------|----------------|----------------|----------|
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV/m) | Factor (dBuV/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| V | 11490 | 21.33 | 21.64 | 42.97 | 54(Note3) | -11.03 | PK |
| V | 17235 | 21.85 | 21.80 | 43.65 | 54(Note3) | -10.35 | PK |
| H | 11490 | 22.49 | 21.83 | 44.32 | 54(Note3) | -9.68 | PK |
| H | 17235 | 20.97 | 21.67 | 42.64 | 54(Note3) | -11.36 | PK |

| Test mode: | | 802.11a | | Test channel: | | Middle | |
|--------------|-----------------|------------------------|-----------------|------------------------|----------------|----------------|----------|
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV/m) | Factor (dBuV/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| V | 11570 | 19.87 | 21.64 | 41.51 | 54(Note3) | -12.49 | PK |
| V | 17355 | 20.36 | 21.80 | 42.16 | 54(Note3) | -11.84 | PK |
| H | 11570 | 20.65 | 21.83 | 42.48 | 54(Note3) | -11.52 | PK |
| H | 17355 | 21.77 | 21.67 | 43.44 | 54(Note3) | -10.56 | PK |

| Test mode: | | 802.11a | | Test channel: | | Highest | |
|--------------|-----------------|------------------------|-----------------|------------------------|----------------|----------------|----------|
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV/m) | Factor (dBuV/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| V | 11650 | 21.53 | 21.64 | 43.17 | 54(Note3) | -10.83 | PK |
| V | 17475 | 21.12 | 21.80 | 42.92 | 54(Note3) | -11.08 | PK |
| H | 11650 | 20.36 | 21.83 | 42.19 | 54(Note3) | -11.81 | PK |
| H | 17475 | 20.74 | 21.67 | 42.41 | 54(Note3) | -11.59 | PK |

| Test mode: | | 802.11ac(HT40) | | Test channel: | | Lowest | |
|--------------|-----------------|------------------------|-----------------|------------------------|----------------|----------------|----------|
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV/m) | Factor (dBuV/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| V | 11510 | 22.36 | 21.67 | 44.03 | 54(Note3) | -9.97 | PK |
| V | 17265 | 21.45 | 21.83 | 43.28 | 54(Note3) | -10.72 | PK |
| H | 11510 | 20.96 | 21.67 | 42.63 | 54(Note3) | -11.37 | PK |
| H | 17265 | 22.07 | 21.83 | 43.90 | 54(Note3) | -10.10 | PK |

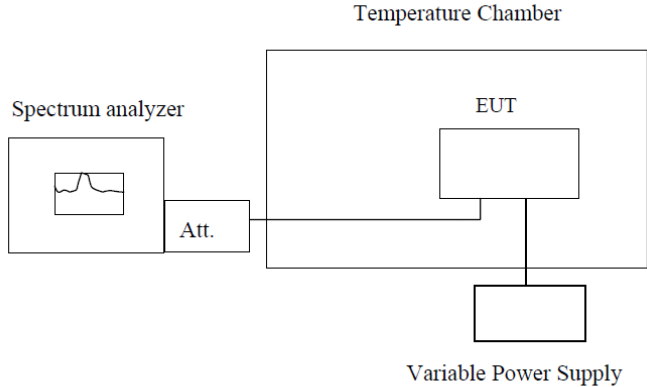
| Test mode: | | 802.11ac(HT40) | | Test channel: | | Highest | |
|--------------|-----------------|------------------------|-----------------|------------------------|----------------|----------------|----------|
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV/m) | Factor (dBuV/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| V | 11590 | 21.56 | 21.67 | 43.23 | 54(Note3) | -10.77 | PK |
| V | 17385 | 21.41 | 21.83 | 43.24 | 54(Note3) | -10.76 | PK |
| H | 11590 | 22.03 | 21.67 | 43.70 | 54(Note3) | -10.30 | PK |
| H | 17385 | 21.89 | 21.83 | 43.72 | 54(Note3) | -10.28 | PK |

| Test mode: | | 802.11ac(HT80) | | Test channel: | | Middle | |
|--------------|-----------------|------------------------|-----------------|------------------------|----------------|----------------|----------|
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV/m) | Factor (dBuV/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| V | 11550.00 | 20.36 | 21.65 | 42.01 | 54(Note3) | -11.99 | PK |
| V | 17325.00 | 20.23 | 21.81 | 42.04 | 54(Note3) | -11.96 | PK |
| H | 11550.00 | 20.58 | 21.65 | 42.23 | 54(Note3) | -11.77 | PK |
| H | 17325.00 | 21.67 | 21.81 | 43.48 | 54(Note3) | -10.52 | PK |

Note:

1. Measure Level = Reading Level + Factor.
2. The test trace is same as the ambient noise (the test frequency range: 18GHz~40GHz), therefore no data appear in the report.
3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

7.8 Frequency stability

| | |
|-------------------|---|
| Test Requirement: | FCC Part15 C Section 15.407(g) |
| Test Method: | ANSI C63.10:2013, FCC Part 2.1055 |
| Limit: | Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified |
| Test Procedure: | The EUT was setup to ANSI C63.4, 2003; tested to 2.1055 for compliance to FCC Part 15.407(g) requirements. |
| Test setup: |  <p style="text-align: center;">Note : Measurement setup for testing on Antenna connector</p> |
| Test Instruments: | Refer to section 5.10 for details |
| Test mode: | Refer to section 5.2 for details |
| Test results: | Pass |

Measurement data:

| 802.11a | | | | | |
|----------------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Frequency stability versus Temp. | | | | | |
| Power Supply: DC 3.7V | | | | | |
| Temp. (°C) | Operating Frequency (MHz) | 0 minute | 2 minute | 5 minute | 10 minute |
| | | Measured Frequency (MHz) | Measured Frequency (MHz) | Measured Frequency (MHz) | Measured Frequency (MHz) |
| -30 | 5745 | 5743.1487 | 5744.8806 | 5744.6330 | 5744.9782 |
| | 5785 | 5784.2937 | 5784.6455 | 5783.3629 | 5783.0281 |
| | 5825 | 5823.7646 | 5824.0976 | 5823.3956 | 5823.3413 |
| -20 | 5745 | 5743.0743 | 5744.9087 | 5744.2312 | 5744.1410 |
| | 5785 | 5784.4929 | 5784.3224 | 5784.2772 | 5784.4421 |
| | 5825 | 5823.5070 | 5823.0990 | 5824.5511 | 5824.5202 |
| -10 | 5745 | 5744.8945 | 5744.4355 | 5744.0140 | 5744.2139 |
| | 5785 | 5784.0161 | 5783.3812 | 5784.4210 | 5784.1715 |
| | 5825 | 5824.6972 | 5824.2478 | 5824.9301 | 5824.6576 |
| 0 | 5745 | 5744.9896 | 5743.7039 | 5744.9595 | 5744.8244 |
| | 5785 | 5784.8166 | 5783.7887 | 5784.7167 | 5784.1509 |
| | 5825 | 5823.0892 | 5824.9071 | 5824.9393 | 5824.0847 |
| 10 | 5745 | 5744.2220 | 5744.4753 | 5743.4730 | 5744.6410 |
| | 5785 | 5783.9105 | 5784.7174 | 5783.3205 | 5783.3504 |
| | 5825 | 5824.6419 | 5823.1586 | 5824.9476 | 5824.8801 |
| 20 | 5745 | 5744.4255 | 5744.6195 | 5743.5453 | 5743.6578 |
| | 5785 | 5783.4338 | 5783.2303 | 5784.4608 | 5784.7206 |
| | 5825 | 5823.3871 | 5823.9937 | 5824.6297 | 5824.5541 |
| 30 | 5745 | 5743.8328 | 5743.9346 | 5744.4308 | 5744.6929 |
| | 5785 | 5784.7123 | 5784.7830 | 5784.4475 | 5784.5786 |
| | 5825 | 5823.4881 | 5823.9215 | 5824.7831 | 5824.2944 |
| 40 | 5745 | 5744.1157 | 5744.1859 | 5744.1913 | 5744.5401 |
| | 5785 | 5783.0621 | 5783.2424 | 5784.0083 | 5784.8498 |
| | 5825 | 5823.0653 | 5823.3776 | 5823.7231 | 5823.8228 |
| 50 | 5745 | 5743.3574 | 5743.5340 | 5744.6232 | 5744.9475 |
| | 5785 | 5783.5245 | 5784.5020 | 5784.5478 | 5784.0804 |
| | 5825 | 5823.1295 | 5824.2705 | 5823.0556 | 5824.5494 |

| Frequency stability versus Voltage | | | | | |
|------------------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Temperature: 25°C | | | | | |
| Power Supply (DC) | Operating Frequency (MHz) | 0 minute | 2 minute | 5 minute | 10 minute |
| | | Measured Frequency (MHz) | Measured Frequency (MHz) | Measured Frequency (MHz) | Measured Frequency (MHz) |
| 3.3 | 5745 | 5744.6884 | 5744.6247 | 5743.2215 | 5743.2188 |
| | 5785 | 5784.6857 | 5784.4494 | 5783.3368 | 5784.1125 |
| | 5825 | 5824.7312 | 5824.9964 | 5823.8656 | 5824.3290 |
| 3.7 | 5745 | 5743.4708 | 5744.5194 | 5744.4807 | 5744.2587 |
| | 5785 | 5783.3592 | 5783.7345 | 5784.1315 | 5784.8414 |
| | 5825 | 5823.9364 | 5824.3768 | 5824.1738 | 5824.9051 |
| 4.1 | 5745 | 5743.5796 | 5744.8498 | 5743.5213 | 5743.1516 |
| | 5785 | 5784.3453 | 5784.1045 | 5784.0624 | 5784.7185 |
| | 5825 | 5823.5478 | 5824.7743 | 5824.1351 | 5824.2811 |

Note: The worst case is FL=5744.0953MHz, FH=5824.9844MHz

| 802.11n(HT20) | | | | | |
|----------------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Frequency stability versus Temp. | | | | | |
| Power Supply: DC 3.7V | | | | | |
| Temp. (°C) | Operating Frequency (MHz) | 0 minute | 2 minute | 5 minute | 10 minute |
| | | Measured Frequency (MHz) | Measured Frequency (MHz) | Measured Frequency (MHz) | Measured Frequency (MHz) |
| -30 | 5745 | 5746.3172 | 5744.5283 | 5743.5441 | 5746.6137 |
| | 5785 | 5785.3476 | 5784.7988 | 5783.6011 | 5785.9928 |
| | 5825 | 5825.0127 | 5824.4689 | 5824.5878 | 5825.4970 |
| -20 | 5745 | 5745.5773 | 5744.5591 | 5744.6504 | 5745.5004 |
| | 5785 | 5785.8455 | 5784.1650 | 5784.6975 | 5785.5021 |
| | 5825 | 5825.7398 | 5824.7556 | 5824.4355 | 5825.1319 |
| -10 | 5745 | 5745.0086 | 5744.1125 | 5744.9132 | 5745.1702 |
| | 5785 | 5785.5143 | 5784.9681 | 5784.0043 | 5785.2898 |
| | 5825 | 5825.3603 | 5824.4354 | 5824.5380 | 5825.7788 |
| 0 | 5745 | 5745.7020 | 5744.6248 | 5744.4815 | 5745.7196 |
| | 5785 | 5785.6100 | 5784.5114 | 5784.5357 | 5785.0679 |
| | 5825 | 5825.8631 | 5824.3819 | 5824.5870 | 5825.4598 |
| 10 | 5745 | 5745.9527 | 5744.9542 | 5744.6185 | 5745.0814 |
| | 5785 | 5785.6510 | 5784.8687 | 5784.4132 | 5785.9512 |
| | 5825 | 5825.0885 | 5824.6374 | 5824.2057 | 5825.2018 |
| 20 | 5745 | 5745.1048 | 5744.0389 | 5744.4361 | 5745.6419 |
| | 5785 | 5785.1886 | 5784.0245 | 5784.9074 | 5785.1415 |
| | 5825 | 5825.3400 | 5824.7407 | 5824.5105 | 5825.9934 |
| 30 | 5745 | 5745.0123 | 5744.1192 | 5744.2341 | 5745.8252 |
| | 5785 | 5785.5825 | 5784.7384 | 5784.4237 | 5785.5584 |
| | 5825 | 5825.5734 | 5824.1428 | 5824.8086 | 5825.8732 |
| 40 | 5745 | 5745.8489 | 5744.8946 | 5744.1864 | 5745.0454 |
| | 5785 | 5785.8237 | 5784.8943 | 5784.1095 | 5785.5693 |
| | 5825 | 5825.5666 | 5824.8088 | 5824.5868 | 5825.0153 |
| 50 | 5745 | 5745.5375 | 5744.6825 | 5744.6996 | 5745.8057 |
| | 5785 | 5785.4596 | 5784.7911 | 5784.7429 | 5785.4449 |
| | 5825 | 5825.3274 | 5824.8996 | 5824.4791 | 5825.8754 |

| Frequency stability versus Voltage | | | | | |
|------------------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Temperature: 25°C | | | | | |
| Power Supply (DC) | Operating Frequency (MHz) | 0 minute | 2 minute | 5 minute | 10 minute |
| | | Measured Frequency (MHz) | Measured Frequency (MHz) | Measured Frequency (MHz) | Measured Frequency (MHz) |
| 3.3 | 5745 | 5745.9868 | 5745.1779 | 5744.1487 | 5743.8761 |
| | 5785 | 5785.1430 | 5785.0584 | 5784.3826 | 5784.0857 |
| | 5825 | 5825.4188 | 5825.2429 | 5824.4882 | 5824.2632 |
| 3.7 | 5745 | 5745.3475 | 5745.8494 | 5744.0207 | 5744.1134 |
| | 5785 | 5785.1120 | 5785.1355 | 5784.6481 | 5784.3700 |
| | 5825 | 5825.6384 | 5825.9518 | 5824.7438 | 5824.6611 |
| 4.1 | 5745 | 5745.2319 | 5745.7471 | 5744.4399 | 5744.4197 |
| | 5785 | 5785.4220 | 5785.8906 | 5784.7078 | 5784.0217 |
| | 5825 | 5825.0703 | 5825.5642 | 5824.7910 | 5824.9795 |

Note: The worst case is FL=5743.8207MHz, FH=5825.9832MHz

| 802.11ac(HT20) | | | | | |
|----------------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Frequency stability versus Temp. | | | | | |
| Power Supply: DC 3.7V | | | | | |
| Temp. (°C) | Operating Frequency (MHz) | 0 minute | 2 minute | 5 minute | 10 minute |
| | | Measured Frequency (MHz) | Measured Frequency (MHz) | Measured Frequency (MHz) | Measured Frequency (MHz) |
| -30 | 5745 | 5743.2454 | 5743.6091 | 5743.5312 | 5743.4010 |
| | 5785 | 5783.1335 | 5783.5467 | 5783.8809 | 5783.0884 |
| | 5825 | 5823.0625 | 5823.9079 | 5824.2789 | 5823.3718 |
| -20 | 5745 | 5743.8887 | 5744.4669 | 5744.3028 | 5743.6964 |
| | 5785 | 5783.6346 | 5784.8485 | 5784.8932 | 5783.2137 |
| | 5825 | 5824.0395 | 5824.4526 | 5824.2992 | 5823.9012 |
| -10 | 5745 | 5744.8975 | 5744.3863 | 5744.6157 | 5744.8956 |
| | 5785 | 5784.6684 | 5784.6123 | 5784.1419 | 5784.8260 |
| | 5825 | 5824.7355 | 5824.1098 | 5824.8944 | 5824.6677 |
| 0 | 5745 | 5744.0386 | 5744.8851 | 5744.4503 | 5744.9673 |
| | 5785 | 5784.3015 | 5784.5422 | 5784.4154 | 5784.4031 |
| | 5825 | 5824.2250 | 5824.5625 | 5824.7606 | 5824.1278 |
| 10 | 5745 | 5744.9046 | 5744.3622 | 5744.9205 | 5744.6125 |
| | 5785 | 5784.2888 | 5784.7411 | 5784.4204 | 5784.6557 |
| | 5825 | 5824.8946 | 5824.6906 | 5824.4426 | 5824.9587 |
| 20 | 5745 | 5744.5783 | 5744.3799 | 5744.6814 | 5744.7752 |
| | 5785 | 5784.5043 | 5784.5648 | 5784.7178 | 5784.7483 |
| | 5825 | 5824.2398 | 5824.2959 | 5824.3911 | 5824.1115 |
| 30 | 5745 | 5744.3257 | 5744.8509 | 5744.3094 | 5744.3297 |
| | 5785 | 5784.8571 | 5784.5168 | 5784.4984 | 5784.3355 |
| | 5825 | 5824.2763 | 5824.3240 | 5824.7625 | 5824.4175 |
| 40 | 5745 | 5744.7511 | 5744.0450 | 5744.7888 | 5744.4323 |
| | 5785 | 5784.9991 | 5784.2126 | 5784.9687 | 5784.7223 |
| | 5825 | 5824.1861 | 5824.7299 | 5824.1102 | 5824.4327 |
| 50 | 5745 | 5744.4067 | 5744.7711 | 5744.6803 | 5744.8413 |
| | 5785 | 5784.3208 | 5784.9922 | 5784.6034 | 5784.9190 |
| | 5825 | 5824.6983 | 5824.3602 | 5824.7719 | 5824.8313 |

| Frequency stability versus Voltage | | | | | |
|------------------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Temperature: 25°C | | | | | |
| Power Supply (DC) | Operating Frequency (MHz) | 0 minute | 2 minute | 5 minute | 10 minute |
| | | Measured Frequency (MHz) | Measured Frequency (MHz) | Measured Frequency (MHz) | Measured Frequency (MHz) |
| 108 | 5745 | 5744.6947 | 5744.8261 | 5745.2006 | 5745.4764 |
| | 5785 | 5784.2901 | 5784.6720 | 5785.8253 | 5785.8825 |
| | 5825 | 5824.9130 | 5824.5437 | 5825.2825 | 5825.0362 |
| 120 | 5745 | 5744.9599 | 5744.4020 | 5745.6077 | 5745.0350 |
| | 5785 | 5784.7386 | 5784.0056 | 5785.3176 | 5785.8770 |
| | 5825 | 5824.0130 | 5824.0493 | 5825.2067 | 5825.1195 |
| 132 | 5745 | 5744.4304 | 5744.3241 | 5745.4011 | 5745.1608 |
| | 5785 | 5784.9883 | 5784.8086 | 5785.6992 | 5785.3145 |
| | 5825 | 5824.0409 | 5824.2783 | 5825.9004 | 5825.9545 |

Note: The worst case is FL=5742.3838MHz, FH=5826.7890MHz

| 802.11n(HT40) | | | | | |
|----------------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Frequency stability versus Temp. | | | | | |
| Power Supply: DC 3.7V | | | | | |
| Temp. (°C) | Operating Frequency (MHz) | 0 minute | 2 minute | 5 minute | 10 minute |
| | | Measured Frequency (MHz) | Measured Frequency (MHz) | Measured Frequency (MHz) | Measured Frequency (MHz) |
| -30 | 5755 | 5756.7804 | 5754.3075 | 5753.2252 | 5755.2472 |
| | 5795 | 5796.9686 | 5794.2162 | 5793.5149 | 5795.8027 |
| -20 | 5755 | 5756.6380 | 5754.0127 | 5754.0158 | 5755.4882 |
| | 5795 | 5796.6259 | 5794.7076 | 5794.1867 | 5795.8374 |
| -10 | 5755 | 5755.8998 | 5754.0368 | 5754.4554 | 5755.8570 |
| | 5795 | 5795.3768 | 5794.1572 | 5794.3993 | 5795.5341 |
| 0 | 5755 | 5755.3606 | 5754.2421 | 5754.4051 | 5755.2297 |
| | 5795 | 5795.1173 | 5794.2983 | 5794.0016 | 5795.0213 |
| 10 | 5755 | 5755.6407 | 5754.2076 | 5754.6565 | 5755.0393 |
| | 5795 | 5795.7971 | 5794.3368 | 5794.7585 | 5795.7819 |
| 20 | 5755 | 5755.9798 | 5754.5390 | 5754.2834 | 5755.0630 |
| | 5795 | 5795.5562 | 5794.0917 | 5794.5299 | 5795.6786 |
| 30 | 5755 | 5755.5532 | 5754.0891 | 5754.4723 | 5755.9357 |
| | 5795 | 5795.9660 | 5794.3243 | 5794.8309 | 5795.4454 |
| 40 | 5755 | 5755.2418 | 5754.8918 | 5754.6929 | 5755.1735 |
| | 5795 | 5795.6724 | 5794.0295 | 5794.3599 | 5795.7909 |
| 50 | 5755 | 5755.8726 | 5754.4359 | 5754.1864 | 5755.5917 |
| | 5795 | 5795.9031 | 5794.7917 | 5794.3334 | 5795.7036 |

| Frequency stability versus Voltage | | | | | |
|------------------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Temperature: 25°C | | | | | |
| Power Supply (DC) | Operating Frequency (MHz) | 0 minute | 2 minute | 5 minute | 10 minute |
| | | Measured Frequency (MHz) | Measured Frequency (MHz) | Measured Frequency (MHz) | Measured Frequency (MHz) |
| 3.3 | 5755 | 5756.4619 | 5754.0347 | 5756.5610 | 5754.4714 |
| | 5795 | 5795.9326 | 5794.6940 | 5796.2676 | 5794.8471 |
| 3.7 | 5755 | 5755.2212 | 5754.5803 | 5755.5603 | 5754.6894 |
| | 5795 | 5795.5536 | 5794.2027 | 5795.5804 | 5794.9382 |
| 4.1 | 5755 | 5755.6206 | 5754.2245 | 5755.0195 | 5754.8480 |
| | 5795 | 5795.9944 | 5794.8191 | 5795.1208 | 5794.3979 |

Note: The worst case is FL=5753.0680MHz, FH=5796.5693MHz

| 802.11ac(HT40) | | | | | |
|----------------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Frequency stability versus Temp. | | | | | |
| Power Supply: DC 3.7V | | | | | |
| Temp. (°C) | Operating Frequency (MHz) | 0 minute | 2 minute | 5 minute | 10 minute |
| | | Measured Frequency (MHz) | Measured Frequency (MHz) | Measured Frequency (MHz) | Measured Frequency (MHz) |
| -30 | 5755 | 5755.4083 | 5753.1224 | 5756.0545 | 5753.3047 |
| | 5795 | 5795.6162 | 5794.2748 | 5795.8754 | 5794.0449 |
| -20 | 5755 | 5755.4828 | 5754.7687 | 5755.7376 | 5754.1622 |
| | 5795 | 5795.3934 | 5794.2431 | 5795.2641 | 5794.1380 |
| -10 | 5755 | 5755.0508 | 5754.8927 | 5755.4426 | 5754.6460 |
| | 5795 | 5795.0835 | 5794.1748 | 5795.5102 | 5794.9275 |
| 0 | 5755 | 5755.0581 | 5754.4645 | 5755.4719 | 5754.9718 |
| | 5795 | 5795.5324 | 5794.9522 | 5795.3279 | 5794.5505 |
| 10 | 5755 | 5755.7166 | 5754.1453 | 5755.0233 | 5754.5970 |
| | 5795 | 5795.8945 | 5794.7373 | 5795.5373 | 5794.4392 |
| 20 | 5755 | 5755.6567 | 5754.0786 | 5755.1866 | 5754.8912 |
| | 5795 | 5795.0705 | 5794.9378 | 5795.1512 | 5794.7831 |
| 30 | 5755 | 5755.9001 | 5754.8017 | 5755.8543 | 5754.2562 |
| | 5795 | 5795.7216 | 5794.1477 | 5795.2472 | 5794.7847 |
| 40 | 5755 | 5755.1024 | 5754.7507 | 5755.2724 | 5754.6050 |
| | 5795 | 5795.8765 | 5794.0099 | 5795.4332 | 5794.6643 |
| 50 | 5755 | 5755.4252 | 5754.7639 | 5755.3738 | 5754.2242 |
| | 5795 | 5795.5841 | 5794.4383 | 5795.8158 | 5794.0812 |

| Frequency stability versus Voltage | | | | | |
|------------------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Temperature: 25°C | | | | | |
| Power Supply (DC) | Operating Frequency (MHz) | 0 minute | 2 minute | 5 minute | 10 minute |
| | | Measured Frequency (MHz) | Measured Frequency (MHz) | Measured Frequency (MHz) | Measured Frequency (MHz) |
| 3.3 | 5755 | 5756.3274 | 5754.4404 | 5755.2999 | 5753.7932 |
| | 5795 | 5795.9494 | 5794.4617 | 5795.0210 | 5793.9355 |
| 3.7 | 5755 | 5755.6383 | 5754.2834 | 5755.5212 | 5753.2892 |
| | 5795 | 5795.4865 | 5794.3749 | 5795.9511 | 5794.2040 |
| 4.1 | 5755 | 5755.3928 | 5754.2272 | 5755.0129 | 5754.1615 |
| | 5795 | 5795.2479 | 5794.8431 | 5795.6777 | 5794.7030 |

Note: The worst case is FL=5752.4120MHz, FH=5796.5192MHz

| 802.11ac(HT80) | | | | | |
|---|---------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Frequency stability versus Temp. | | | | | |
| Power Supply: DC 3.7V | | | | | |
| Temp. (°C) | Operating Frequency (MHz) | 0 minute | 2 minute | 5 minute | 10 minute |
| | | Measured Frequency (MHz) | Measured Frequency (MHz) | Measured Frequency (MHz) | Measured Frequency (MHz) |
| -30 | 5775 | 5775.8687 | 5776.5241 | 5774.2629 | 5773.1319 |
| -20 | 5775 | 5775.4731 | 5775.9258 | 5774.1751 | 5773.2599 |
| -10 | 5775 | 5775.9487 | 5775.0213 | 5774.2449 | 5774.4262 |
| 0 | 5775 | 5775.7279 | 5775.2045 | 5774.7241 | 5774.9434 |
| 10 | 5775 | 5775.7363 | 5775.2008 | 5774.7361 | 5774.4278 |
| 20 | 5775 | 5775.3750 | 5775.9273 | 5774.2897 | 5774.4837 |
| 30 | 5775 | 5775.5255 | 5775.5970 | 5774.8657 | 5774.0366 |
| 40 | 5775 | 5775.2023 | 5775.2572 | 5774.2497 | 5774.1757 |
| 50 | 5775 | 5775.8829 | 5775.3802 | 5774.9905 | 5774.3174 |

| Frequency stability versus Voltage | | | | | |
|---|---------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Temperature: 25°C | | | | | |
| Power Supply (DC) | Operating Frequency (MHz) | 0 minute | 2 minute | 5 minute | 10 minute |
| | | Measured Frequency (MHz) | Measured Frequency (MHz) | Measured Frequency (MHz) | Measured Frequency (MHz) |
| 3.3 | 5775 | 5774.0714 | 5776.2450 | 5776.8849 | 5776.7561 |
| 3.7 | 5775 | 5774.6022 | 5775.1546 | 5775.7853 | 5775.1887 |
| 4.1 | 5775 | 5773.2676 | 5776.0722 | 5775.7724 | 5776.3721 |

Note: The worst case is FL=5773.1168MHz, FH=5776.7635MHz

8 Test Setup Photo

Reference to the **appendix I** for details.

9 EUT Constructional Details

Reference to the **appendix II** for details.

-----END-----