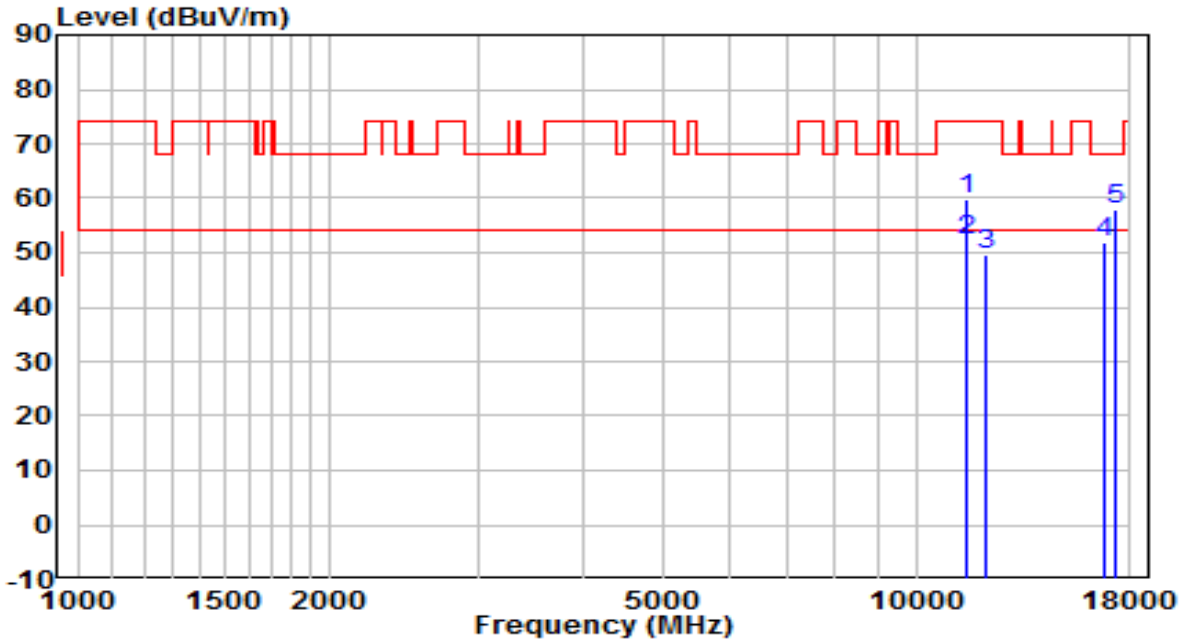
| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-28 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 20.2°C/26.3% |
| Polarity | Vertical | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11ac-VHT40 at Channel 5755MHz | Test Voltage | 120V/60Hz |

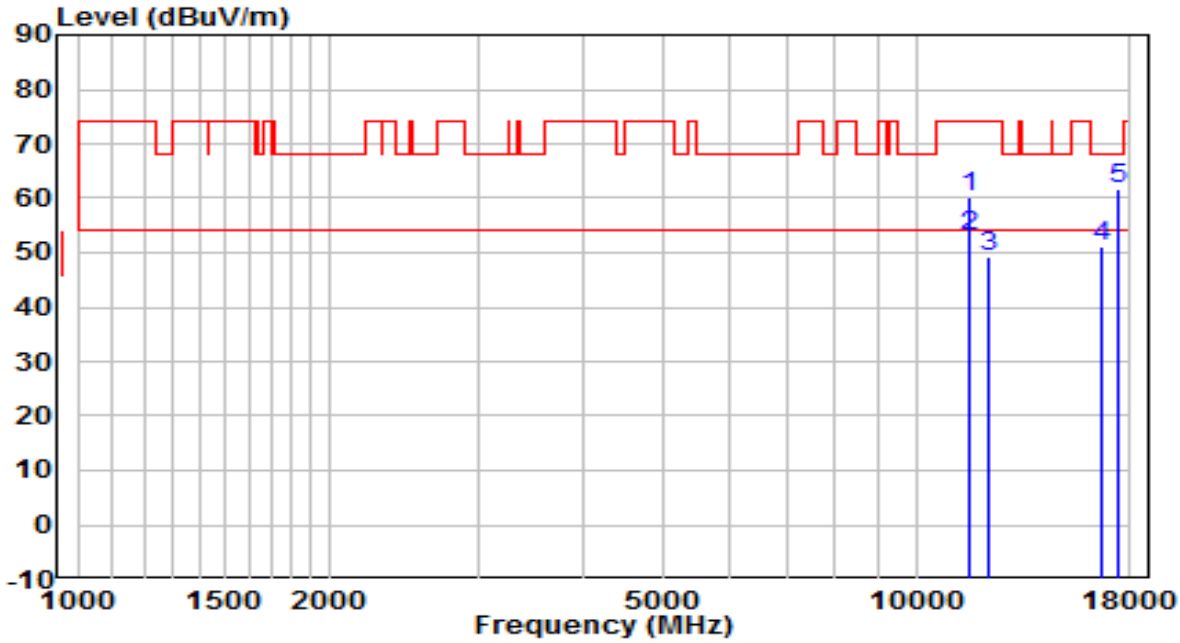



| No | | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 11514.500 | 39.63 | 20.02 | 59.64 | -14.36 | 74.00 | Peak |
| 2 | * | 11514.500 | 32.39 | 20.02 | 52.40 | -1.60 | 54.00 | Average |
| 3 | | 12118.000 | 30.91 | 18.80 | 49.71 | -24.29 | 74.00 | Peak |
| 4 | | 16793.000 | 28.62 | 23.16 | 51.78 | -16.42 | 68.20 | Peak |
| 5 | | 17269.000 | 31.72 | 26.30 | 58.02 | -10.18 | 68.20 | Peak |

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-28 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 20.2°C/26.3% |
| Polarity | Horizontal | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11ac-VHT40 at Channel 5795MHz | Test Voltage | 120V/60Hz |

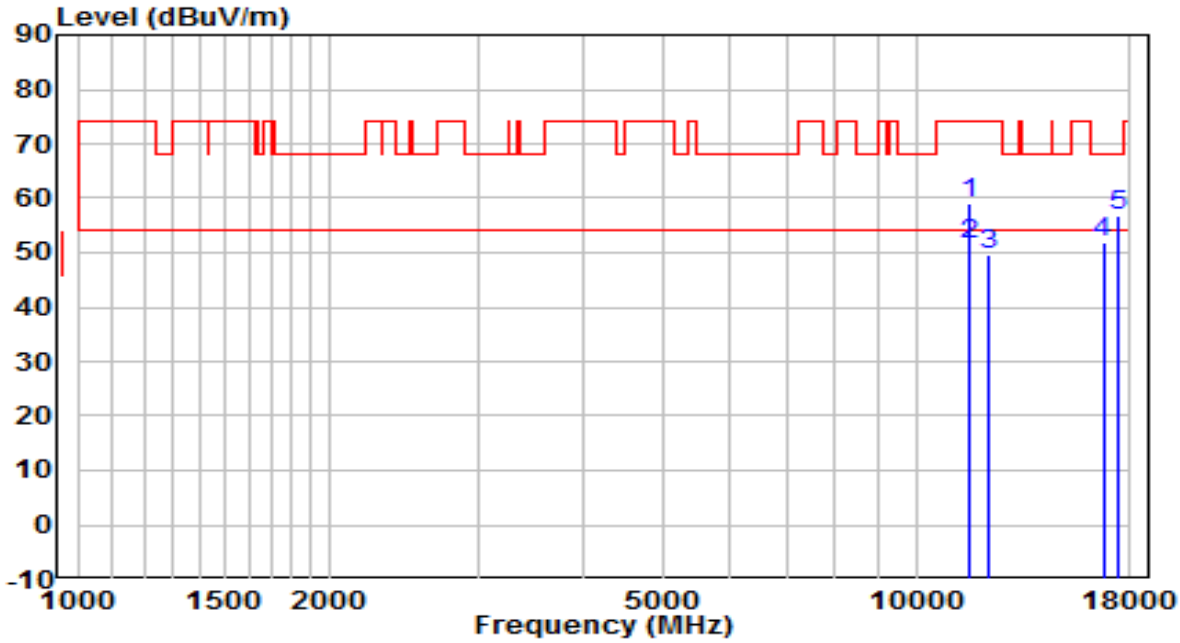



| No | | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 11591.000 | 40.52 | 19.84 | 60.36 | -13.64 | 74.00 | Peak |
| 2 | * | 11591.000 | 33.36 | 19.84 | 53.20 | -0.80 | 54.00 | Average |
| 3 | | 12237.000 | 30.46 | 18.68 | 49.13 | -24.87 | 74.00 | Peak |
| 4 | | 16648.500 | 29.10 | 22.23 | 51.32 | -16.88 | 68.20 | Peak |
| 5 | | 17379.500 | 34.64 | 27.04 | 61.68 | -6.52 | 68.20 | Peak |

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-28 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 20.2°C/26.3% |
| Polarity | Vertical | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11ac-VHT40 at Channel 5795MHz | Test Voltage | 120V/60Hz |

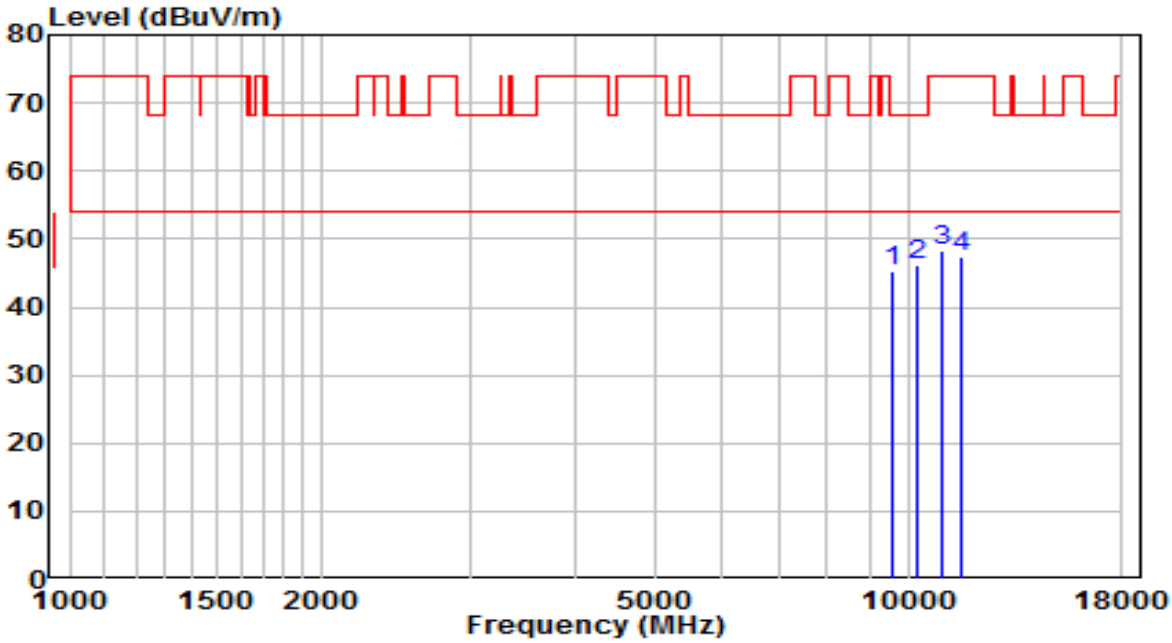



| No | | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 11591.000 | 39.11 | 19.84 | 58.95 | -15.05 | 74.00 | Peak |
| 2 | * | 11591.000 | 31.50 | 19.84 | 51.34 | -2.66 | 54.00 | Average |
| 3 | | 12186.000 | 30.91 | 18.73 | 49.64 | -24.36 | 74.00 | Peak |
| 4 | | 16708.000 | 29.29 | 22.61 | 51.90 | -16.30 | 68.20 | Peak |
| 5 | | 17396.500 | 29.61 | 27.15 | 56.76 | -11.44 | 68.20 | Peak |

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-28 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 22.9°C/17.7% |
| Polarity | Horizontal | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11ac-VHT80 at Channel 5210MHz | Test Voltage | 120V 60Hz |

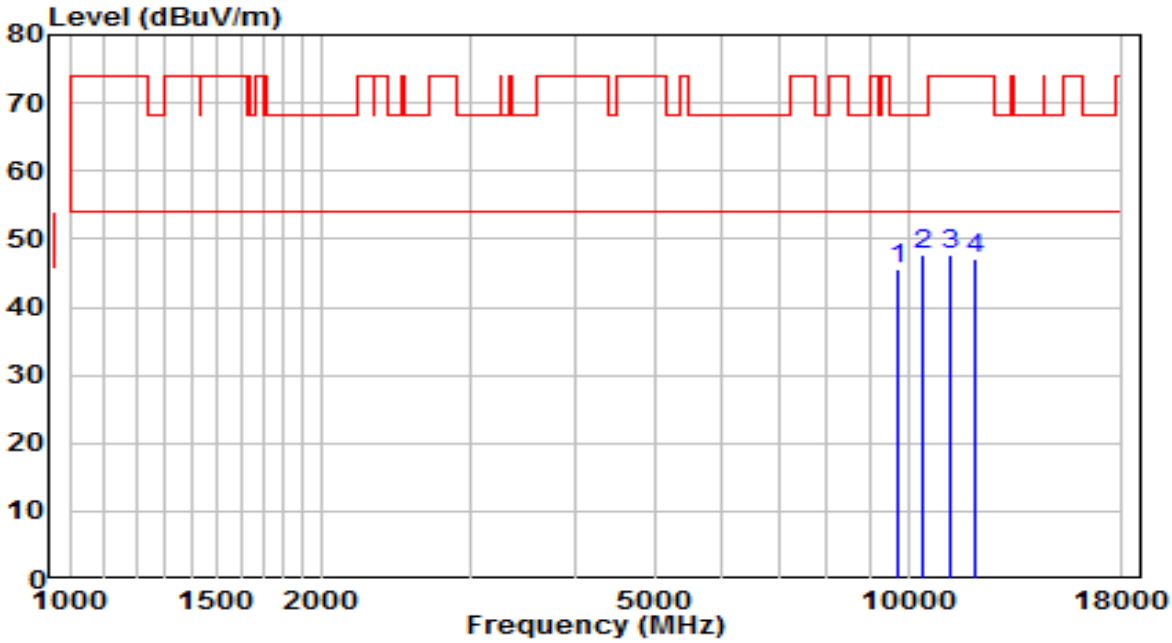



| No | | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 9593.500 | 29.49 | 15.88 | 45.37 | -22.83 | 68.20 | Peak |
| 2 | * | 10239.500 | 28.67 | 17.52 | 46.19 | -22.01 | 68.20 | Peak |
| 3 | | 10936.500 | 29.13 | 19.19 | 48.32 | -25.68 | 74.00 | Peak |
| 4 | | 11548.500 | 27.60 | 19.94 | 47.54 | -26.46 | 74.00 | Peak |

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-28 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 22.9°C/17.7% |
| Polarity | Vertical | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11ac-VHT80 at Channel 5210MHz | Test Voltage | 120V 60Hz |

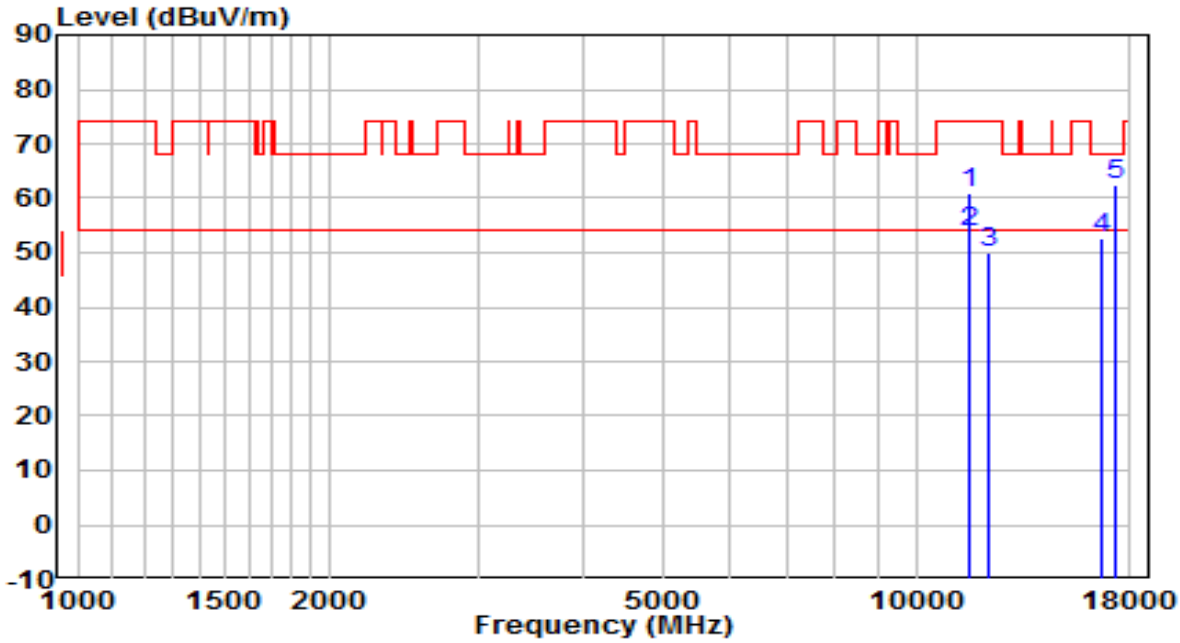



| No | | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 9738.000 | 29.60 | 16.12 | 45.72 | -22.48 | 68.20 | Peak |
| 2 | * | 10426.500 | 29.54 | 18.27 | 47.81 | -20.39 | 68.20 | Peak |
| 3 | | 11208.500 | 27.95 | 19.60 | 47.55 | -26.45 | 74.00 | Peak |
| 4 | | 12041.500 | 28.24 | 18.88 | 47.12 | -26.88 | 74.00 | Peak |

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-28 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 20.2°C/26.3% |
| Polarity | Horizontal | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11ac-VHT80 at Channel 5775MHz | Test Voltage | 120V/60Hz |

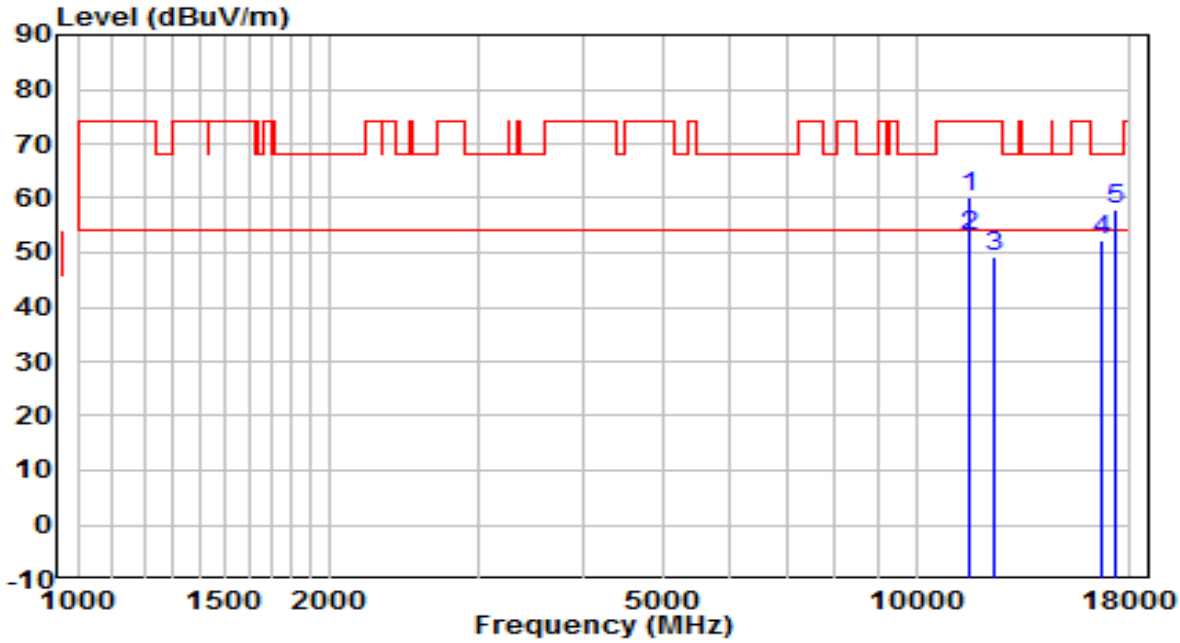



| No | | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 11574.000 | 41.15 | 19.88 | 61.04 | -12.96 | 74.00 | Peak |
| 2 | * | 11574.000 | 33.76 | 19.88 | 53.64 | -0.36 | 54.00 | Average |
| 3 | | 12169.000 | 31.33 | 18.75 | 50.07 | -23.93 | 74.00 | Peak |
| 4 | | 16657.000 | 30.33 | 22.28 | 52.61 | -15.59 | 68.20 | Peak |
| 5 | | 17337.000 | 35.66 | 26.75 | 62.41 | -5.79 | 68.20 | Peak |

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-28 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 20.2°C/26.3% |
| Polarity | Vertical | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11ac-VHT80 at Channel 5775MHz | Test Voltage | 120V/60Hz |



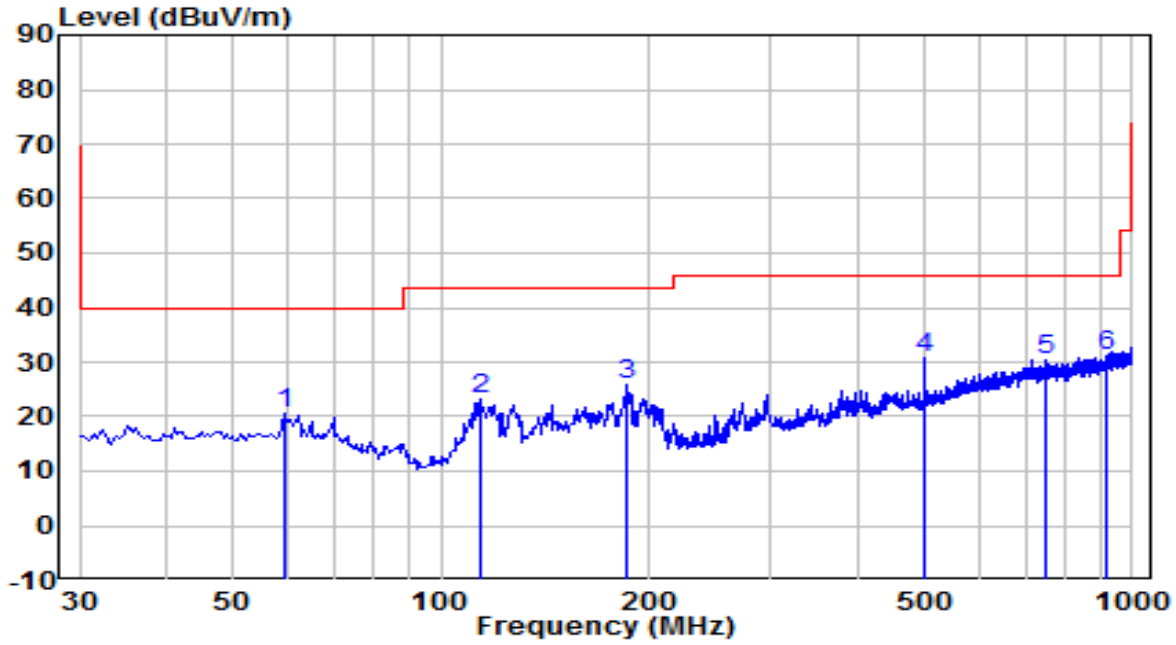

| No | | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 11565.500 | 40.44 | 19.90 | 60.34 | -13.66 | 74.00 | Peak |
| 2 | * | 11565.500 | 33.07 | 19.90 | 52.97 | -1.03 | 54.00 | Average |
| 3 | | 12407.000 | 30.74 | 18.50 | 49.24 | -24.76 | 74.00 | Peak |
| 4 | | 16699.500 | 29.53 | 22.56 | 52.09 | -16.11 | 68.20 | Peak |
| 5 | | 17320.000 | 31.43 | 26.64 | 58.07 | -10.13 | 68.20 | Peak |

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

**The Result of Radiated Emission below 1GHz:**

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-28 |
|---|---|---|---|
| Factor | VULB 9162 | Temp. / Humidity | 23.7°C /23% |
| Polarity | Horizontal | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit at by 802.11a at channel 5785MHz | Test Voltage | 120V/60Hz |

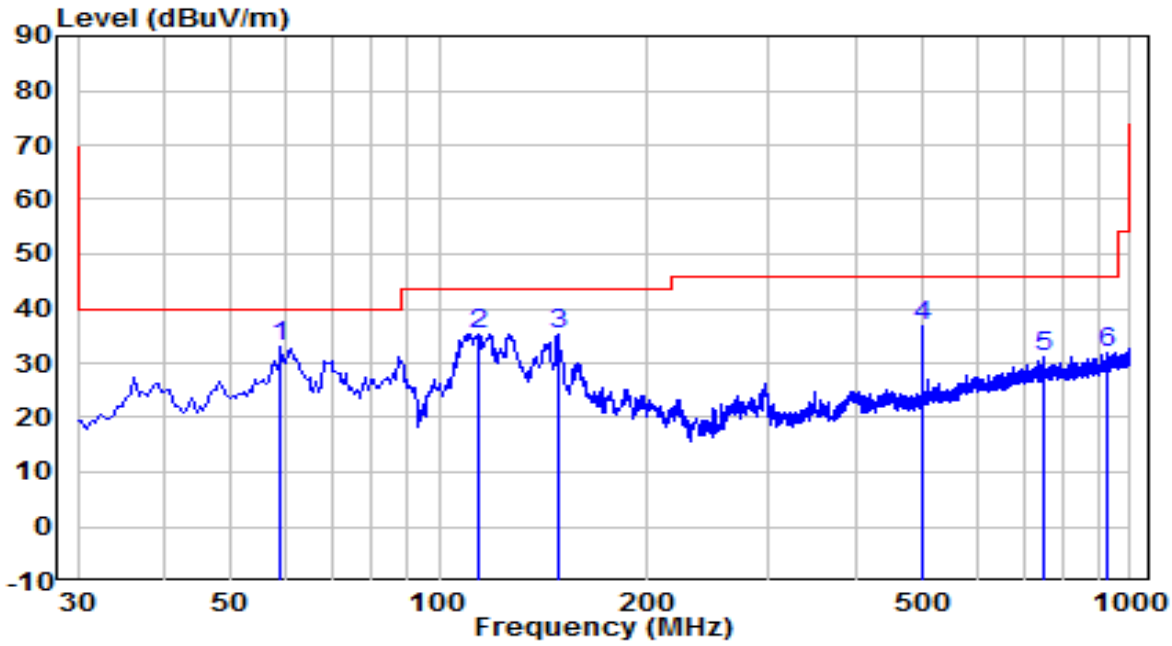



| No | | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 59.585 | 0.18 | 20.29 | 20.47 | -19.53 | 40.00 | Peak |
| 2 | | 113.905 | 5.01 | 18.14 | 23.15 | -20.35 | 43.50 | Peak |
| 3 | | 185.685 | 7.64 | 18.25 | 25.90 | -17.60 | 43.50 | Peak |
| 4 | | 499.965 | 4.69 | 26.22 | 30.91 | -15.09 | 46.00 | Peak |
| 5 | | 750.225 | 0.39 | 30.11 | 30.50 | -15.50 | 46.00 | Peak |
| 6 | * | 916.095 | -0.89 | 31.90 | 31.01 | -14.99 | 46.00 | Peak |

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB) + Cable Loss (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (Correction Factor).
4.The emission levels of other frequencies are very lower than the limit and not show in test report.
5. The amplitude of Radiated emissions (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 40GHz), is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-28 |
|---|---|---|---|
| Factor | VULB 9162 | Temp. / Humidity | 23.7°C /23% |
| Polarity | Vertical | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11a at channel 5785MHz | Test Voltage | 120V/60Hz |




| No | | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 59.100 | 12.58 | 20.38 | 32.95 | -7.05 | 40.00 | Peak |
| 2 | | 114.390 | 17.27 | 18.06 | 35.34 | -8.16 | 43.50 | Peak |
| 3 | | 148.340 | 19.41 | 15.98 | 35.40 | -8.10 | 43.50 | Peak |
| 4 | | 499.965 | 10.42 | 26.22 | 36.64 | -9.36 | 46.00 | Peak |
| 5 | | 750.225 | 0.94 | 30.11 | 31.05 | -14.95 | 46.00 | Peak |
| 6 | | 927.250 | -0.20 | 31.98 | 31.78 | -14.22 | 46.00 | Peak |

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB) + Cable Loss (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (Correction Factor).
4.The emission levels of other frequencies are very lower than the limit and not show in test report.
5. The amplitude of Radiated emissions (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 40GHz), is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

## 7.8. Radiated Restricted Band Edge Measurement

### 7.8.1.Test Limit

**For 15.205 requirement:**

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

| Frequency (MHz) | Frequency (MHz) | Frequency (MHz) | Frequency (GHz) |
|---|---|---|---|
| 0.090 - 0.110 | 16.42-16.423 | 399.9 - 410 | 4.5-5.15 |
| [1] 0.495 - 0.505 | 16.69475-16.69525 | 608 - 614 | 5.35-5.46 |
| 2.1735-2.1905 | 16.80425-16.80475 | 960 - 1240 | 7.25-7.75 |
| 4.125-4.128 | 25.5 -25.67 | 1300 - 1427 | 8.025 - 8.5 |
| 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 |
| 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 |
| 6.215-6.218 | 74.8-75.2 | 1660 - 1710 | 10.6-12.7 |
| 6.26775-6.26825 | 108-121.94 | 1718.8-1722.2 | 13.25-13.4 |
| 6.31175-6.31225 | 123 - 138 | 2200 - 2300 | 14.47-14.5 |
| 8.291-8.294 | 149.9-150.05 | 2310 - 2390 | 15.35-16.2 |
| 8.362-8.366 | 156.52475-156.525 | 2483.5 - 2500 | 17.7-21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 2690 - 2900 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125-167.17 | 3260 - 3267 | 23.6-24.0 |
| 12.29-12.293 | 167.72-173.2 | 3332 - 3339 | 31.2-31.8 |
| 12.51975-12.52025 | 240 - 285 | 3345.8 - 3358 | 36.43-36.5 |
| 12.57675-12.57725 | 322-335.4 | 3600 - 4400 | ([2]) |
| 13.36-13.41 | -- | -- | -- |

**For 15.407(b) requirement:**

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: 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.

Refer to KDB 789033 D02v02r01 G)2)c), as specified in § 15.407(b), emissions above 1000 MHz.

1) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.

2) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

| **FCC Part 15 Subpart C Paragraph 15.209** | | |
|---|---|---|
| Frequency [MHz] | Field Strength [μV/m] | Measured Distance [Meters] |
| 0.009 - 0.490 | 2400/F (kHz) | 300 |
| 0.490 - 1.705 | 24000/F (kHz) | 30 |
| 1.705 - 30 | 30 | 30 |
| 30 - 88 | 100 | 3 |
| 88 - 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| Above 960 | 500 | 3 |

### 7.8.2.Test Procedure Used

KDB 789033 D02v02r01 – Section G

### 7.8.3.Test Setting

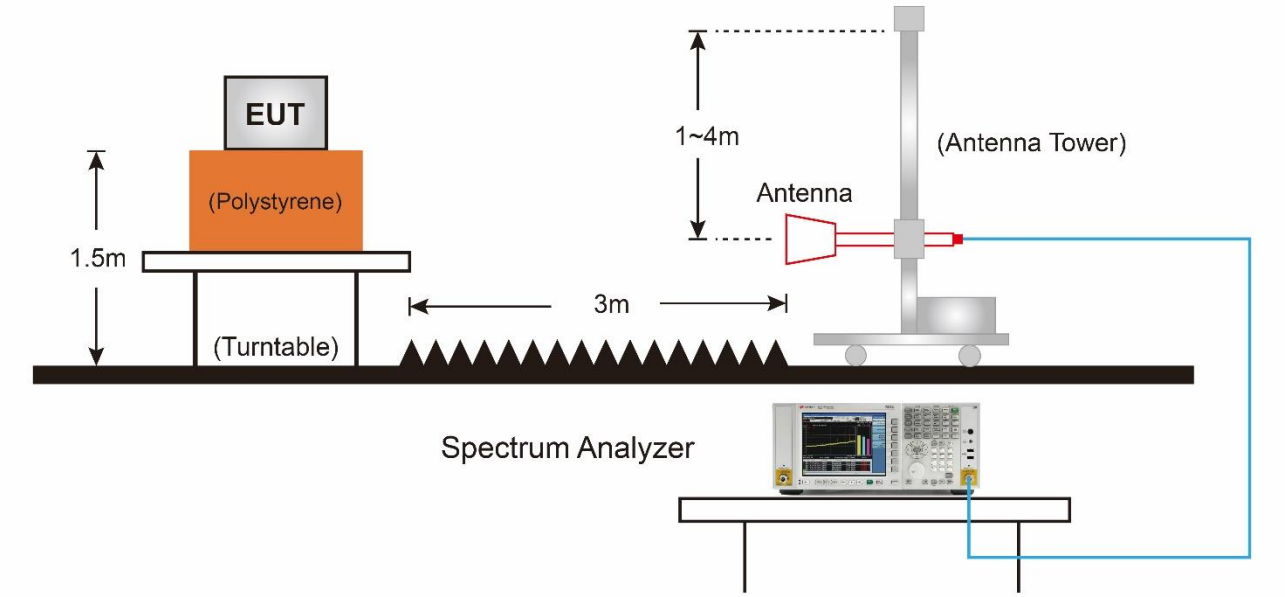
**Peak Measurements above 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

**Average Measurements above 1GHz (Method VB)**

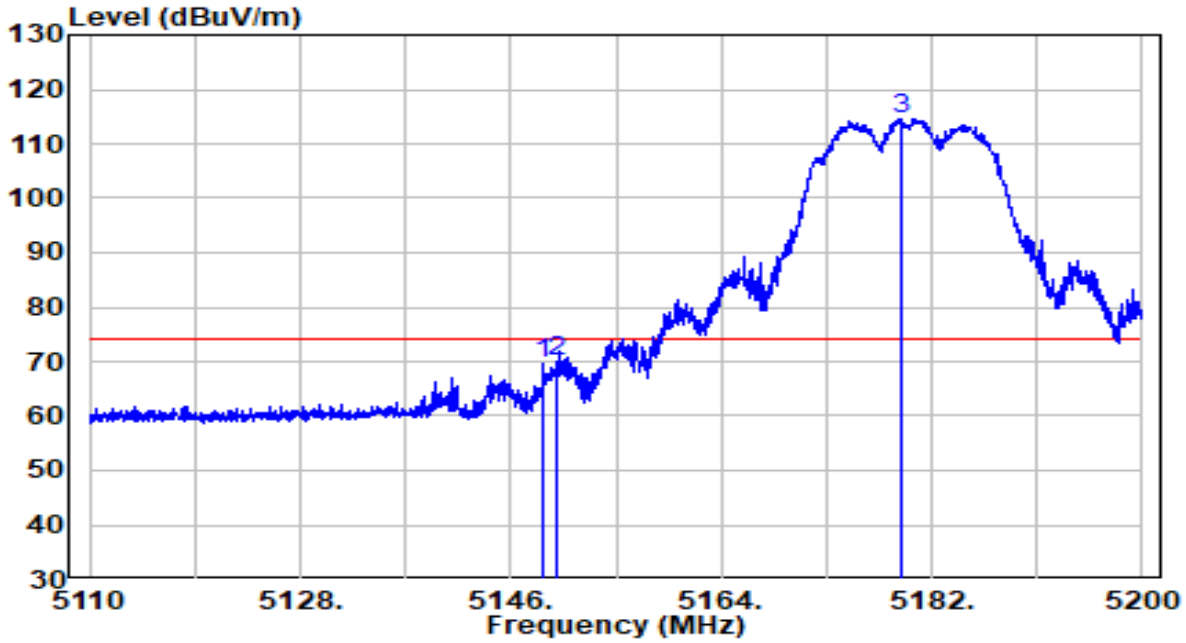
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW If the EUT is configured to transmit with duty cycle ≥ 98%, set VBW ≤ RBW/100 (i.e., 10 kHz) but not less than 10 Hz. If the EUT duty cycle is < 98%, set VBW ≥ 1/T.
4. Detector = Peak
5. Sweep time = auto
6. Allow max hold to run for at least 50 traces if the transmitted signal is continuous or has at least 98% duty cycle. For lower duty cycles, increase the minimum number of traces by a factor of 1/x, where x is the duty cycle.

### 7.8.4.Test Setup



### 7.8.5.Test Result

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-09 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 23.0°C/39.7% |
| Polarity | Horizontal | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11a at Channel 5180MHz | Test Voltage | 120V/60Hz |




| No | | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5148.700 | 49.37 | 20.19 | 69.56 | -4.44 | 74.00 | Peak |
| 2 | | 5150.005 | 49.76 | 20.20 | 69.96 | -4.04 | 74.00 | Peak |
| 3 | * | 5179.390 | 94.46 | 20.24 | 114.71 | N/A | N/A | Peak |

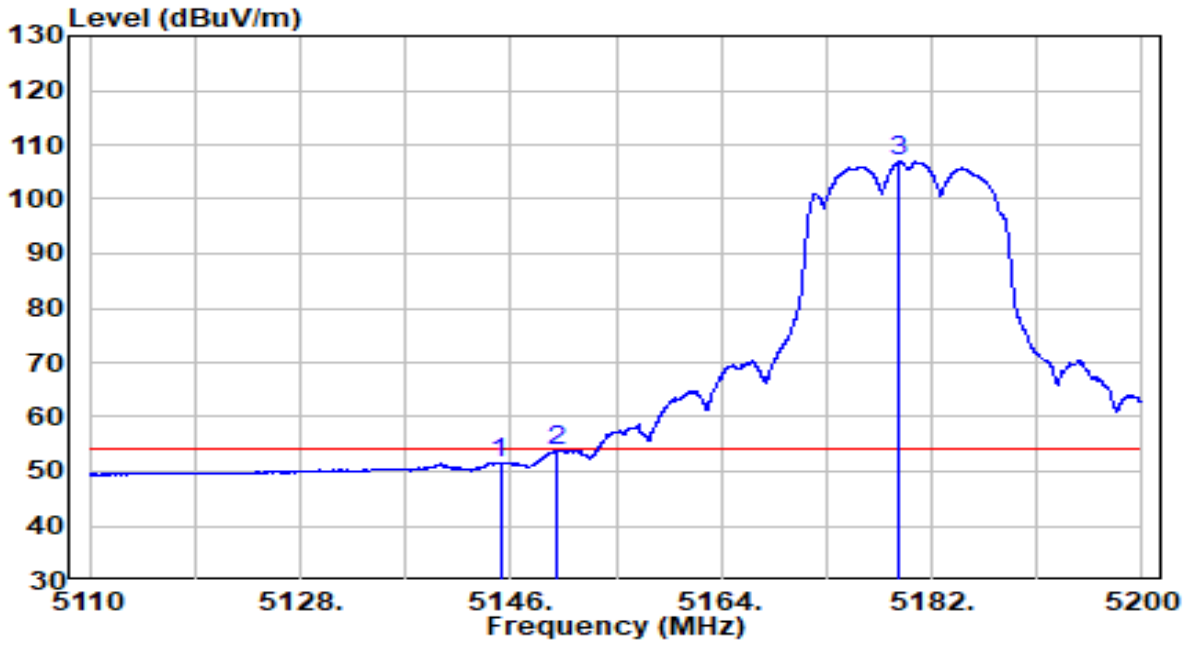
Note:

1. " *", means this data is the worst emission level.

2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) – Preamplifier(dB).

3. Measurement(dBμV/m) = Reading(dBμV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-09 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 23.0°C/39.7% |
| Polarity | Horizontal | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11a at Channel 5180MHz | Test Voltage | 120V/60Hz |




| No | | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5145.100 | 31.49 | 20.19 | 51.68 | -2.32 | 54.00 | Average |
| 2 | | 5150.005 | 33.42 | 20.20 | 53.62 | -0.38 | 54.00 | Average |
| 3 | * | 5179.255 | 86.76 | 20.24 | 107.00 | N/A | N/A | Average |

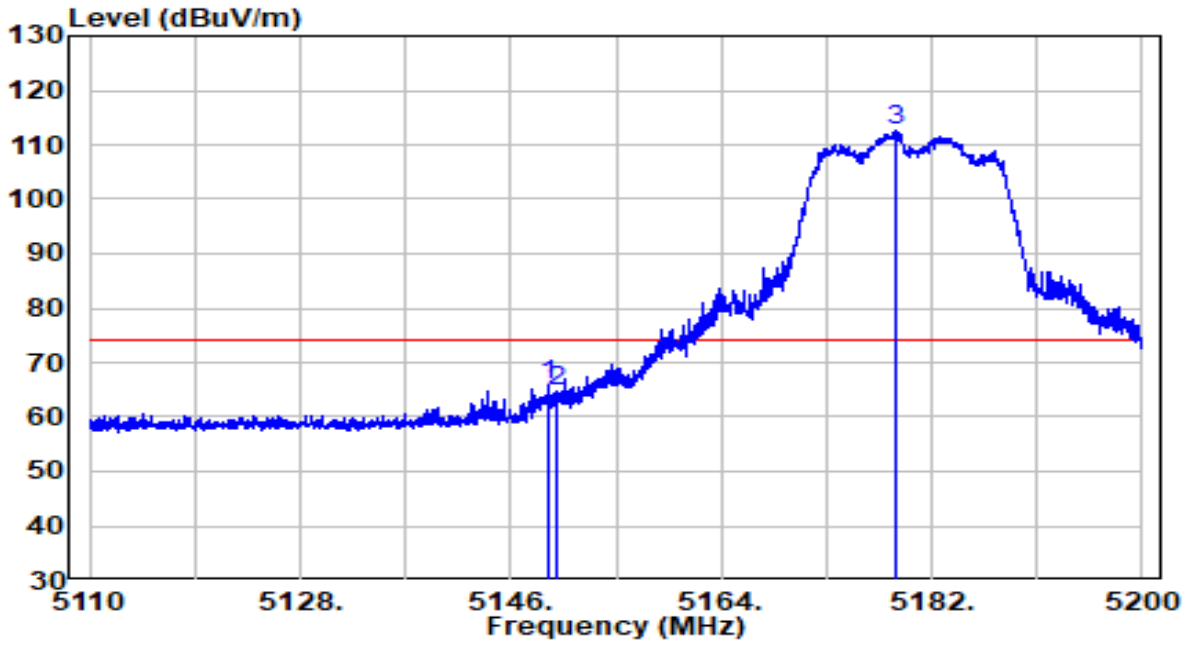
Note:

1. " *", means this data is the worst emission level.

2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) – Preamplifier(dB).

3. Measurement(dBμV/m) = Reading(dBμV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-09 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 23.0°C/39.7% |
| Polarity | Vertical | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11a at Channel 5180MHz | Test Voltage | 120V/60Hz |




| No | | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5149.150 | 45.79 | 20.19 | 65.99 | -8.01 | 74.00 | Peak |
| 2 | | 5150.005 | 44.67 | 20.20 | 64.87 | -9.13 | 74.00 | Peak |
| 3 | * | 5178.850 | 92.44 | 20.24 | 112.69 | N/A | N/A | Peak |

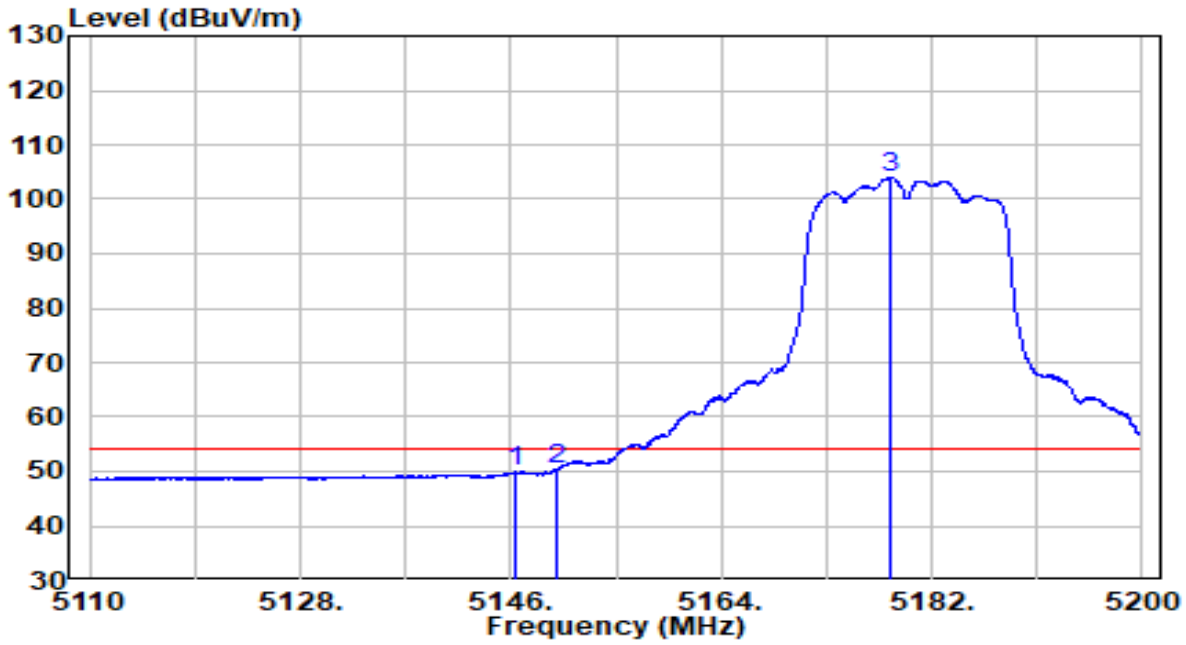
Note:

1. " *", means this data is the worst emission level.

2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) – Preamplifier(dB).

3. Measurement(dBμV/m) = Reading(dBμV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-09 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 23.0°C/39.7% |
| Polarity | Vertical | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11a at Channel 5180MHz | Test Voltage | 120V/60Hz |




| No | | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5146.405 | 29.86 | 20.19 | 50.05 | -3.95 | 54.00 | Average |
| 2 | | 5150.000 | 30.08 | 20.20 | 50.28 | -3.72 | 54.00 | Average |
| 3 | * | 5178.490 | 83.70 | 20.24 | 103.95 | N/A | N/A | Average |

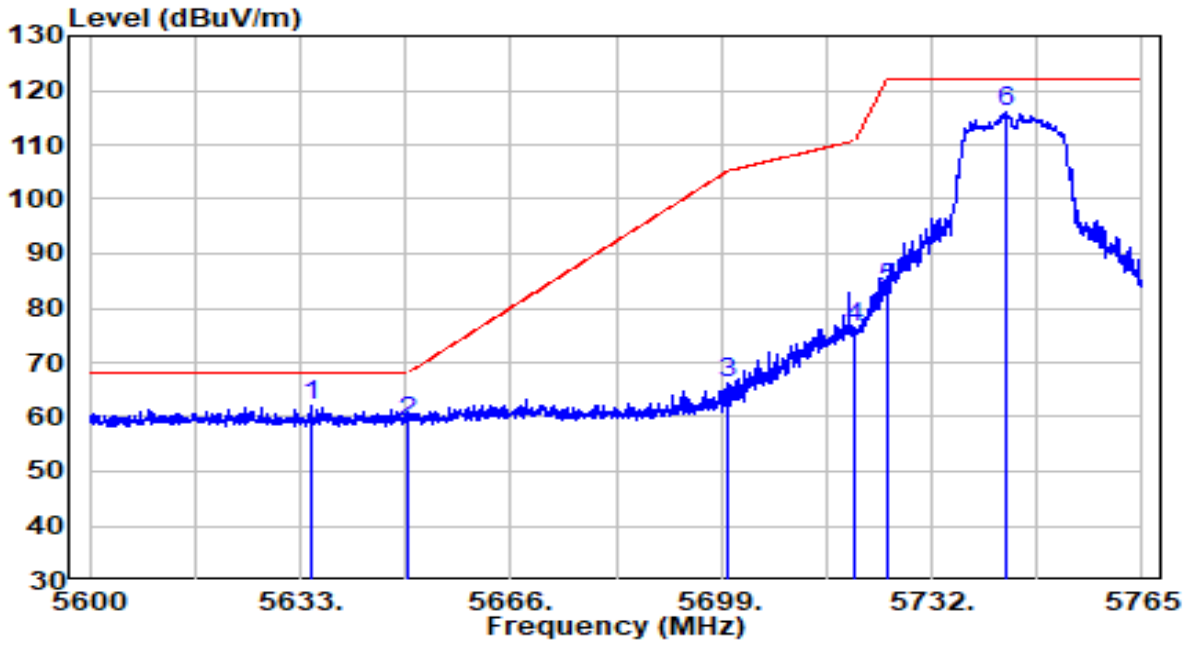
Note:

1. " *", means this data is the worst emission level.

2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) – Preamplifier(dB).

3. Measurement(dBμV/m) = Reading(dBμV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-09 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 23.0°C/39.7% |
| Polarity | Horizontal | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11a at Channel 5745MHz | Test Voltage | 120V/60Hz |




| No | | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 5634.650 | 40.87 | 21.26 | 62.13 | -6.07 | 68.20 | Peak |
| 2 | | 5650.000 | 37.91 | 21.32 | 59.23 | -8.97 | 68.20 | Peak |
| 3 | | 5700.000 | 44.59 | 21.50 | 66.09 | -39.11 | 105.20 | Peak |
| 4 | | 5720.038 | 54.88 | 21.57 | 76.45 | -34.43 | 110.89 | Peak |
| 5 | | 5725.000 | 62.14 | 21.59 | 83.72 | -38.48 | 122.20 | Peak |
| 6 | * | 5743.632 | 94.30 | 21.66 | 115.95 | N/A | N/A | Peak |

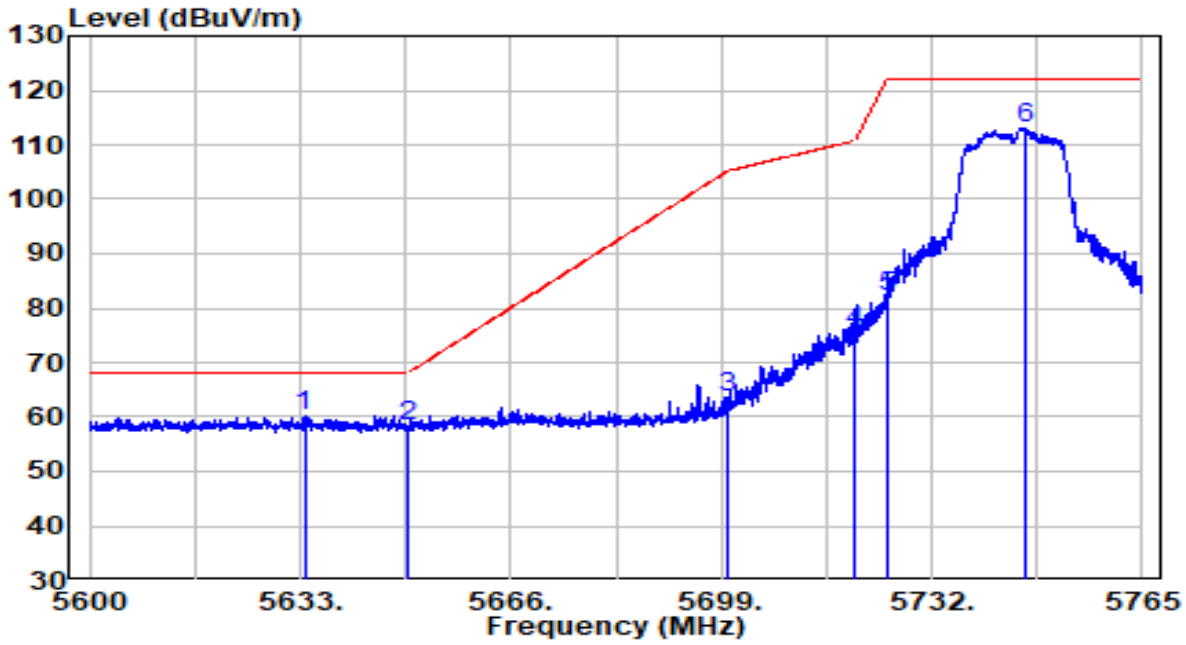
Note:

1. " *", means this data is the worst emission level.

2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) – Preamplifier(dB).

3. Measurement(dBμV/m) = Reading(dBμV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-09 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 23.0°C/39.7% |
| Polarity | Vertical | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11a at Channel 5745MHz | Test Voltage | 120V/60Hz |




| No | | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 5633.660 | 39.09 | 21.26 | 60.35 | -7.85 | 68.20 | Peak |
| 2 | | 5650.000 | 36.98 | 21.32 | 58.30 | -9.90 | 68.20 | Peak |
| 3 | | 5700.000 | 41.98 | 21.50 | 63.48 | -41.72 | 105.20 | Peak |
| 4 | | 5720.000 | 53.91 | 21.57 | 75.48 | -35.32 | 110.80 | Peak |
| 5 | | 5725.000 | 60.45 | 21.59 | 82.04 | -40.16 | 122.20 | Peak |
| 6 | * | 5746.768 | 91.49 | 21.67 | 113.16 | N/A | N/A | Peak |

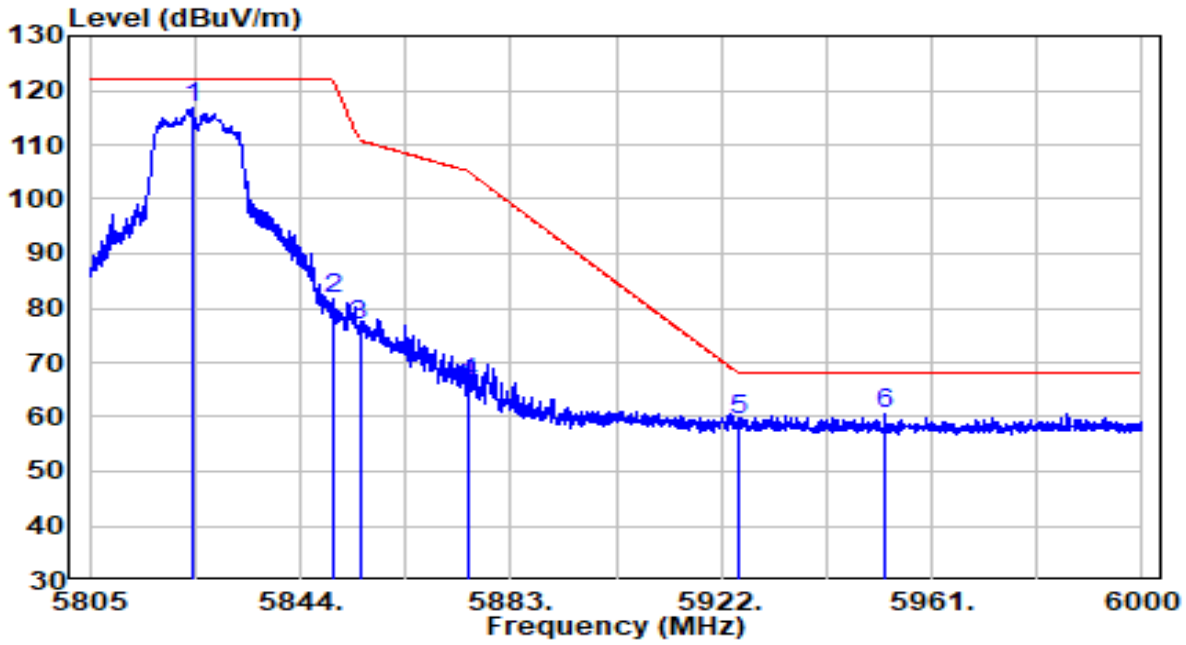
Note:

1. " *", means this data is the worst emission level.

2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) – Preamplifier(dB).

3. Measurement(dBμV/m) = Reading(dBμV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-09 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 23.0°C/39.7% |
| Polarity | Horizontal | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11a at Channel 5825MHz | Test Voltage | 120V/60Hz |




| No | | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 5823.915 | 94.67 | 21.95 | 116.62 | N/A | N/A | Peak |
| 2 | | 5850.045 | 59.71 | 22.04 | 81.75 | -40.34 | 122.10 | Peak |
| 3 | | 5855.000 | 54.62 | 22.06 | 76.68 | -34.12 | 110.80 | Peak |
| 4 | | 5875.000 | 43.93 | 22.14 | 66.06 | -39.14 | 105.20 | Peak |
| 5 | | 5925.000 | 37.10 | 22.32 | 59.42 | -8.78 | 68.20 | Peak |
| 6 | | 5952.322 | 38.10 | 22.42 | 60.52 | -7.68 | 68.20 | Peak |

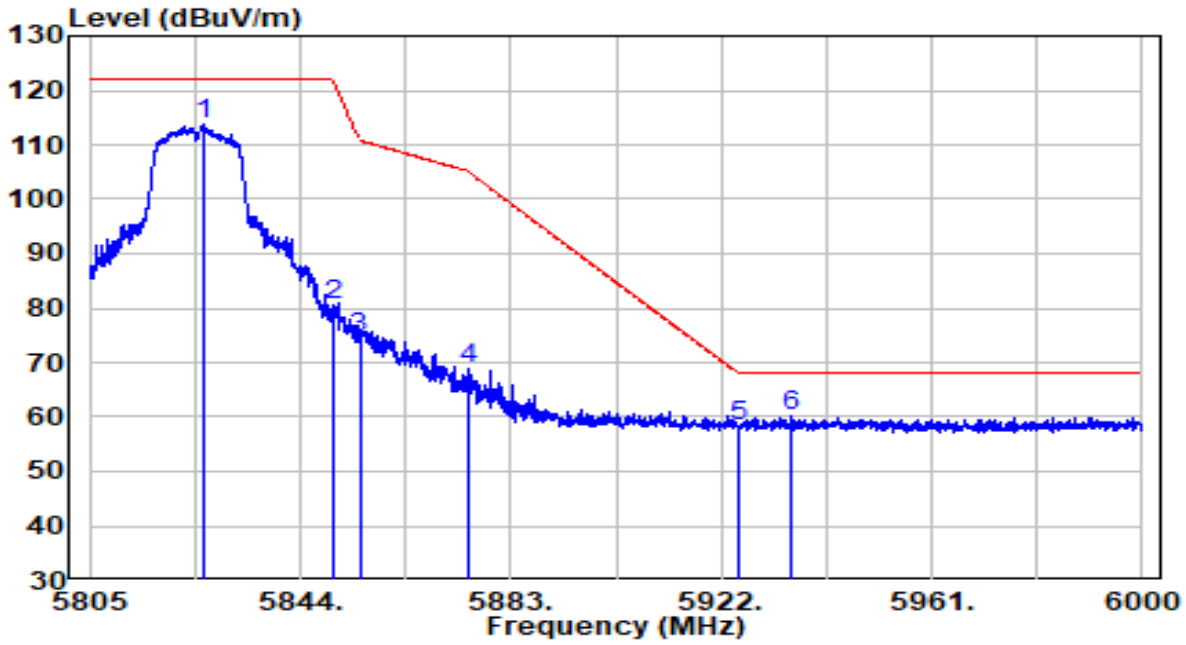
Note:

1. " *", means this data is the worst emission level.

2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) – Preamplifier(dB).

3. Measurement(dBμV/m) = Reading(dBμV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-09 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 23.0°C/39.7% |
| Polarity | Vertical | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11a at Channel 5825MHz | Test Voltage | 120V/60Hz |




| No | | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 5826.353 | 91.88 | 21.96 | 113.84 | N/A | N/A | Peak |
| 2 | | 5850.000 | 58.66 | 22.04 | 80.70 | -41.50 | 122.20 | Peak |
| 3 | | 5855.000 | 52.40 | 22.06 | 74.46 | -36.34 | 110.80 | Peak |
| 4 | | 5875.000 | 46.59 | 22.14 | 68.73 | -36.47 | 105.20 | Peak |
| 5 | | 5925.000 | 35.90 | 22.32 | 58.22 | -9.98 | 68.20 | Peak |
| 6 | * | 5934.967 | 37.79 | 22.35 | 60.14 | -8.06 | 68.20 | Peak |

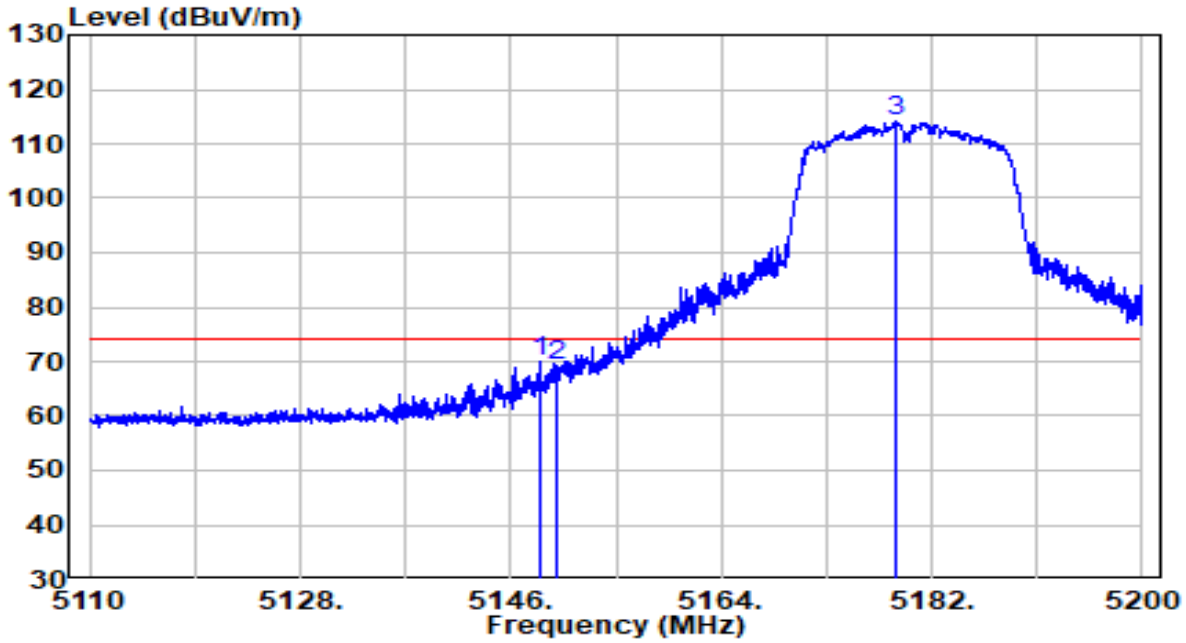
Note:

1. " *", means this data is the worst emission level.

2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) – Preamplifier(dB).

3. Measurement(dBμV/m) = Reading(dBμV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-09 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 23.0°C/39.7% |
| Polarity | Horizontal | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11ac-VHT20 at Channel 5180MHz | Test Voltage | 120V/60Hz |




| No | | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5148.475 | 49.73 | 20.19 | 69.92 | -4.08 | 74.00 | Peak |
| 2 | | 5150.005 | 49.10 | 20.20 | 69.30 | -4.70 | 74.00 | Peak |
| 3 | * | 5178.850 | 94.02 | 20.24 | 114.27 | N/A | N/A | Peak |

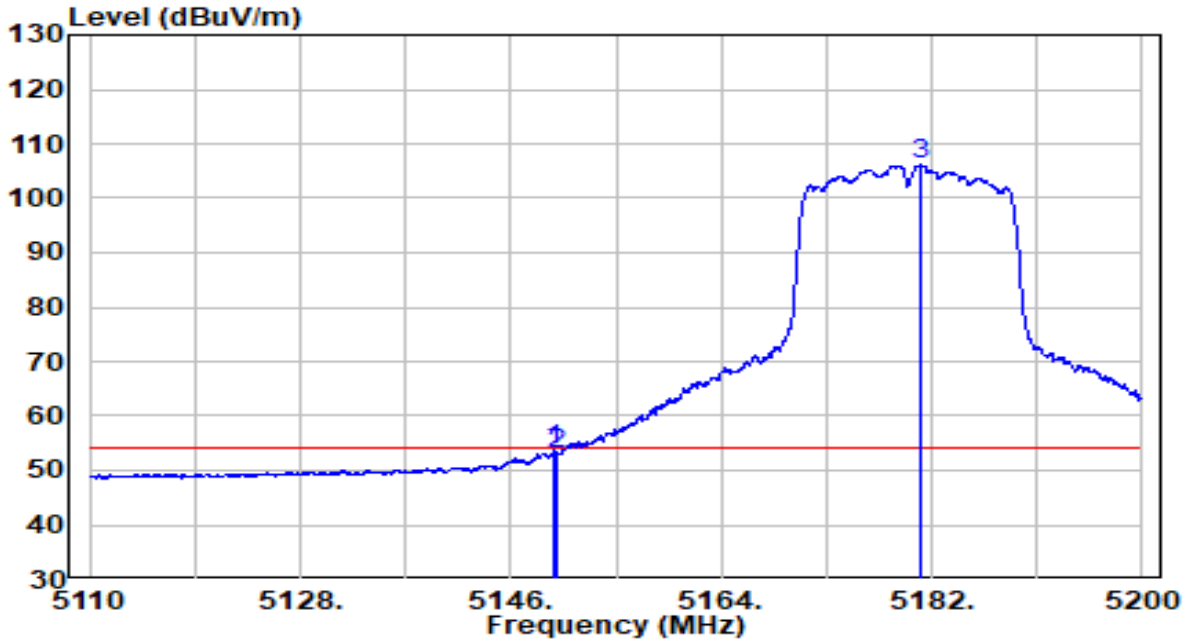
Note:

1. " *", means this data is the worst emission level.

2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) – Preamplifier(dB).

3. Measurement(dBμV/m) = Reading(dBμV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-09 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 23.0°C/39.7% |
| Polarity | Horizontal | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11ac-VHT20 at Channel 5180MHz | Test Voltage | 120V/60Hz |




| No | | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5149.690 | 33.57 | 20.20 | 53.77 | -0.23 | 54.00 | Average |
| 2 | | 5150.005 | 33.00 | 20.20 | 53.19 | -0.81 | 54.00 | Average |
| 3 | * | 5180.965 | 85.80 | 20.25 | 106.05 | N/A | N/A | Average |

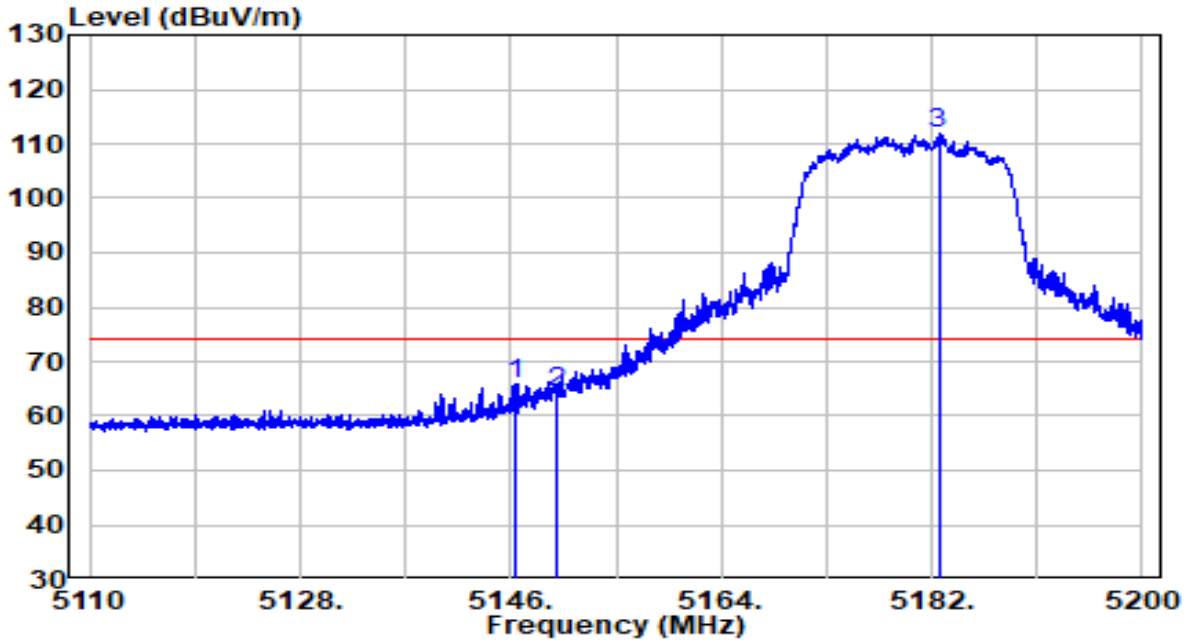
Note:

1. " *", means this data is the worst emission level.

2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) – Preamplifier(dB).

3. Measurement(dBμV/m) = Reading(dBμV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-09 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 23.0°C/39.7% |
| Polarity | Vertical | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11ac-VHT20 at Channel 5180MHz | Test Voltage | 120V/60Hz |




| No | | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5146.360 | 45.67 | 20.19 | 65.86 | -8.14 | 74.00 | Peak |
| 2 | | 5150.000 | 44.09 | 20.20 | 64.29 | -9.71 | 74.00 | Peak |
| 3 | * | 5182.585 | 91.72 | 20.25 | 111.97 | N/A | N/A | Peak |

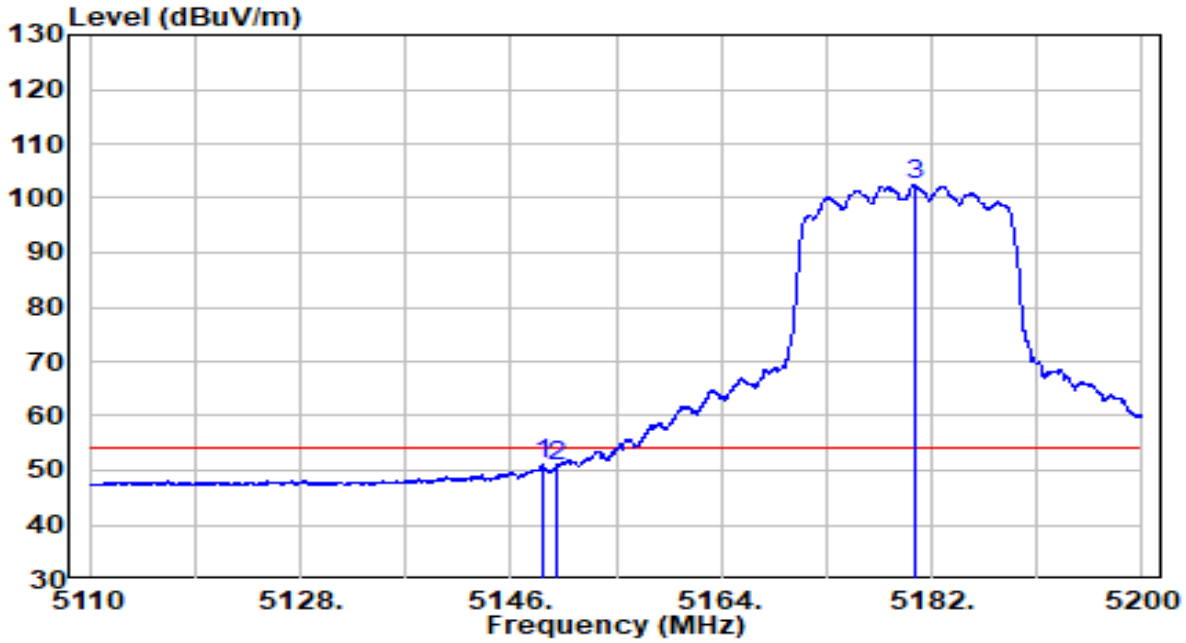
Note:

1. " *", means this data is the worst emission level.

2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) – Preamplifier(dB).

3. Measurement(dBμV/m) = Reading(dBμV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-09 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 23.0°C/39.7% |
| Polarity | Vertical | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11ac-VHT20 at Channel 5180MHz | Test Voltage | 120V/60Hz |




| No | | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5148.655 | 30.78 | 20.19 | 50.97 | -3.03 | 54.00 | Average |
| 2 | | 5150.005 | 30.71 | 20.20 | 50.90 | -3.10 | 54.00 | Average |
| 3 | * | 5180.515 | 82.30 | 20.25 | 102.55 | N/A | N/A | Average |

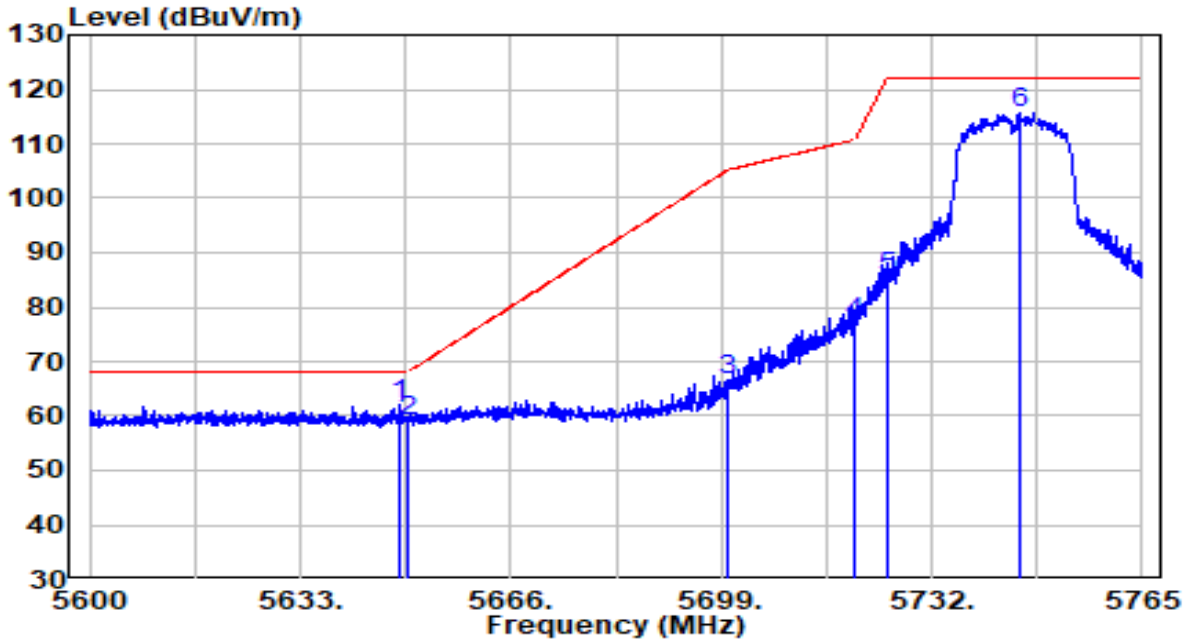
Note:

1. " *", means this data is the worst emission level.

2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) – Preamplifier(dB).

3. Measurement(dBμV/m) = Reading(dBμV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-09 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 23.0°C/39.7% |
| Polarity | Horizontal | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11ac-VHT20 at Channel 5745MHz | Test Voltage | 120V/60Hz |




| No | | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 5648.675 | 40.59 | 21.31 | 61.90 | -6.30 | 68.20 | Peak |
| 2 | | 5649.995 | 37.61 | 21.32 | 58.93 | -9.27 | 68.20 | Peak |
| 3 | | 5700.000 | 44.98 | 21.50 | 66.48 | -38.72 | 105.20 | Peak |
| 4 | | 5720.000 | 55.48 | 21.57 | 77.05 | -33.75 | 110.80 | Peak |
| 5 | | 5725.000 | 63.89 | 21.59 | 85.48 | -36.72 | 122.20 | Peak |
| 6 | * | 5745.695 | 94.05 | 21.66 | 115.71 | N/A | N/A | Peak |

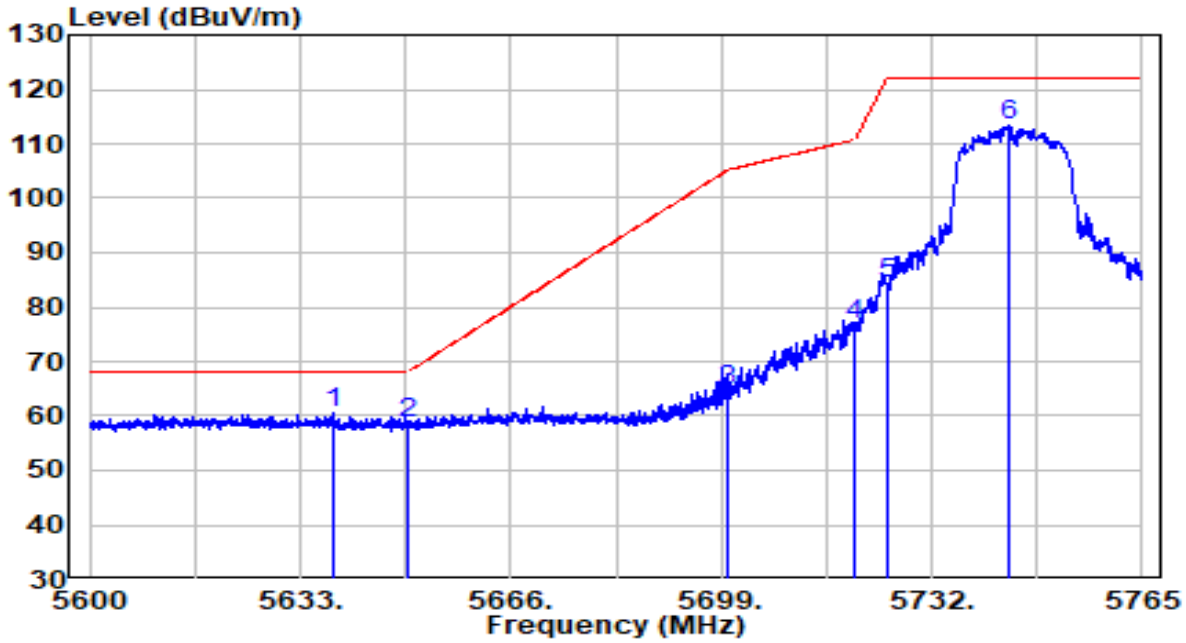
Note:

1. " *", means this data is the worst emission level.

2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) – Preamplifier(dB).

3. Measurement(dBμV/m) = Reading(dBμV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-09 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 23.0°C/39.7% |
| Polarity | Vertical | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11ac-VHT20 at Channel 5745MHz | Test Voltage | 120V/60Hz |




| No | | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 5638.362 | 39.28 | 21.27 | 60.56 | -7.64 | 68.20 | Peak |
| 2 | | 5649.995 | 37.19 | 21.32 | 58.51 | -9.69 | 68.20 | Peak |
| 3 | | 5700.000 | 43.17 | 21.50 | 64.67 | -40.53 | 105.20 | Peak |
| 4 | | 5720.000 | 55.36 | 21.57 | 76.93 | -33.87 | 110.80 | Peak |
| 5 | | 5725.000 | 62.86 | 21.59 | 84.45 | -37.75 | 122.20 | Peak |
| 6 | * | 5744.127 | 91.89 | 21.66 | 113.55 | N/A | N/A | Peak |

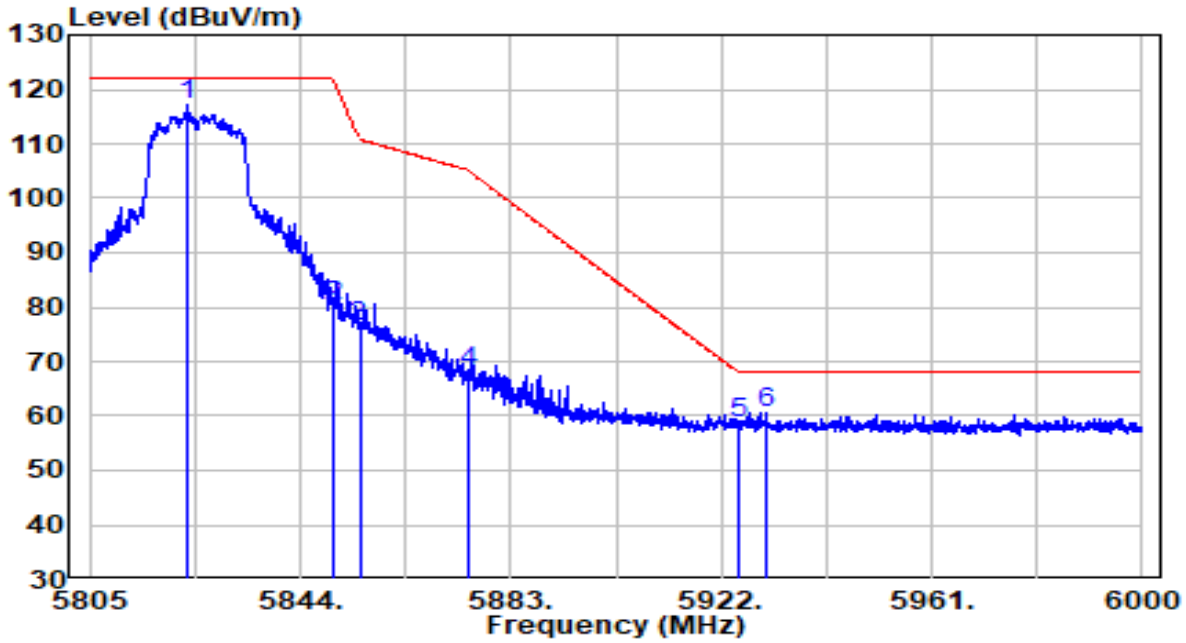
Note:

1. " *", means this data is the worst emission level.

2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) – Preamplifier(dB).

3. Measurement(dBμV/m) = Reading(dBμV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-09 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 23.0°C/39.7% |
| Polarity | Horizontal | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11ac-VHT20 at Channel 5825MHz | Test Voltage | 120V/60Hz |




| No | | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 5823.135 | 95.13 | 21.95 | 117.08 | N/A | N/A | Peak |
| 2 | | 5850.000 | 58.06 | 22.04 | 80.10 | -42.10 | 122.20 | Peak |
| 3 | | 5855.000 | 54.37 | 22.06 | 76.44 | -34.36 | 110.80 | Peak |
| 4 | | 5875.000 | 45.80 | 22.14 | 67.94 | -37.26 | 105.20 | Peak |
| 5 | | 5925.000 | 36.47 | 22.32 | 58.79 | -9.41 | 68.20 | Peak |
| 6 | | 5930.482 | 38.34 | 22.34 | 60.68 | -7.52 | 68.20 | Peak |

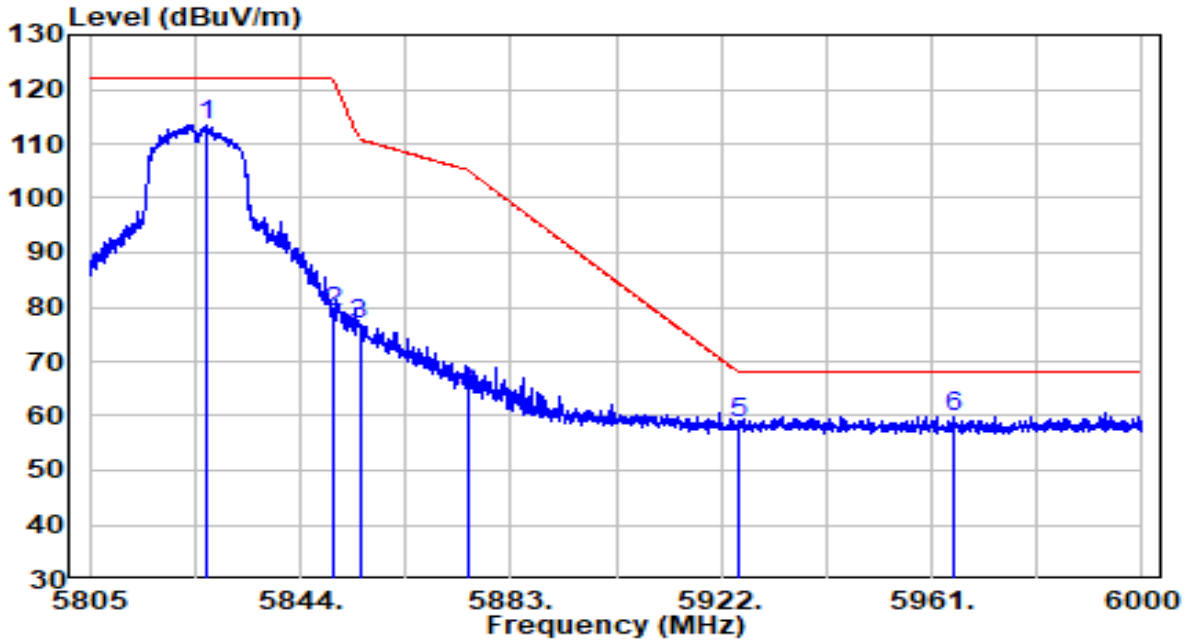
Note:

1. " *", means this data is the worst emission level.

2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) – Preamplifier(dB).

3. Measurement(dBμV/m) = Reading(dBμV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-09 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 23.0°C/39.7% |
| Polarity | Vertical | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11ac-VHT20 at Channel 5825MHz | Test Voltage | 120V/60Hz |




| No | | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 5826.645 | 91.62 | 21.96 | 113.58 | N/A | N/A | Peak |
| 2 | | 5850.000 | 56.98 | 22.04 | 79.02 | -43.18 | 122.20 | Peak |
| 3 | | 5855.000 | 54.89 | 22.06 | 76.96 | -33.84 | 110.80 | Peak |
| 4 | | 5875.000 | 41.83 | 22.14 | 63.96 | -41.24 | 105.20 | Peak |
| 5 | | 5925.000 | 36.40 | 22.32 | 58.71 | -9.49 | 68.20 | Peak |
| 6 | * | 5965.290 | 37.53 | 22.46 | 59.99 | -8.21 | 68.20 | Peak |

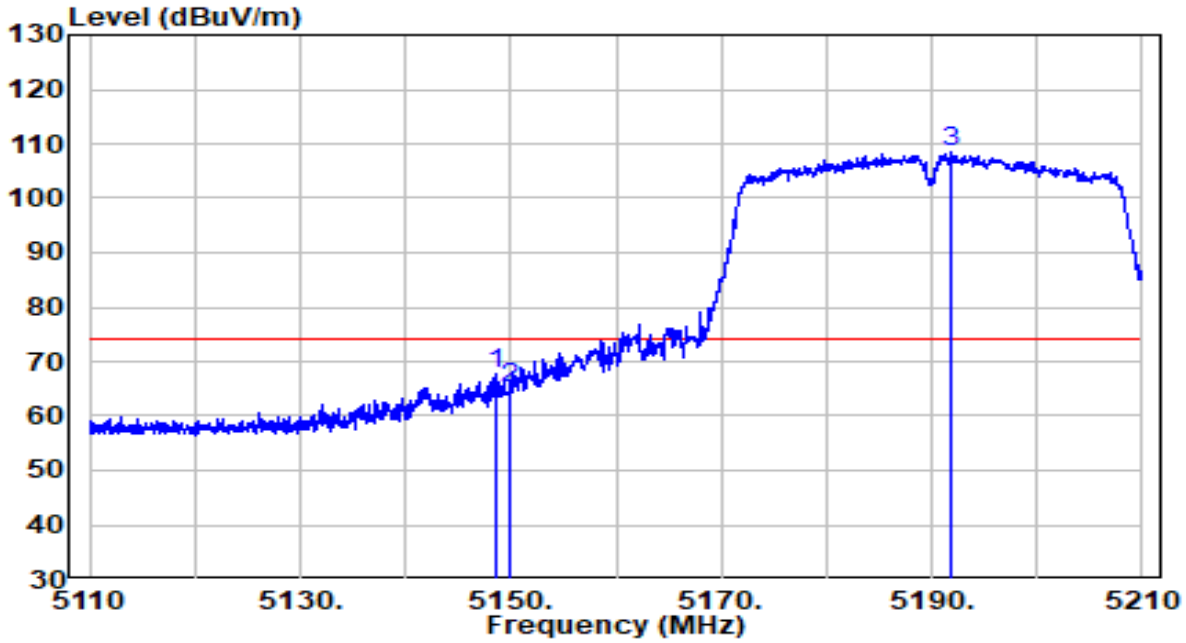
Note:

1. " *", means this data is the worst emission level.

2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) – Preamplifier(dB).

3. Measurement(dBμV/m) = Reading(dBμV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-09 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 23.0°C/39.7% |
| Polarity | Horizontal | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11ac-VHT40 at Channel 5190MHz | Test Voltage | 120V/60Hz |




| No | | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5148.650 | 47.39 | 20.19 | 67.58 | -6.42 | 74.00 | Peak |
| 2 | | 5150.000 | 45.02 | 20.20 | 65.21 | -8.79 | 74.00 | Peak |
| 3 | * | 5191.850 | 88.25 | 20.26 | 108.51 | N/A | N/A | Peak |

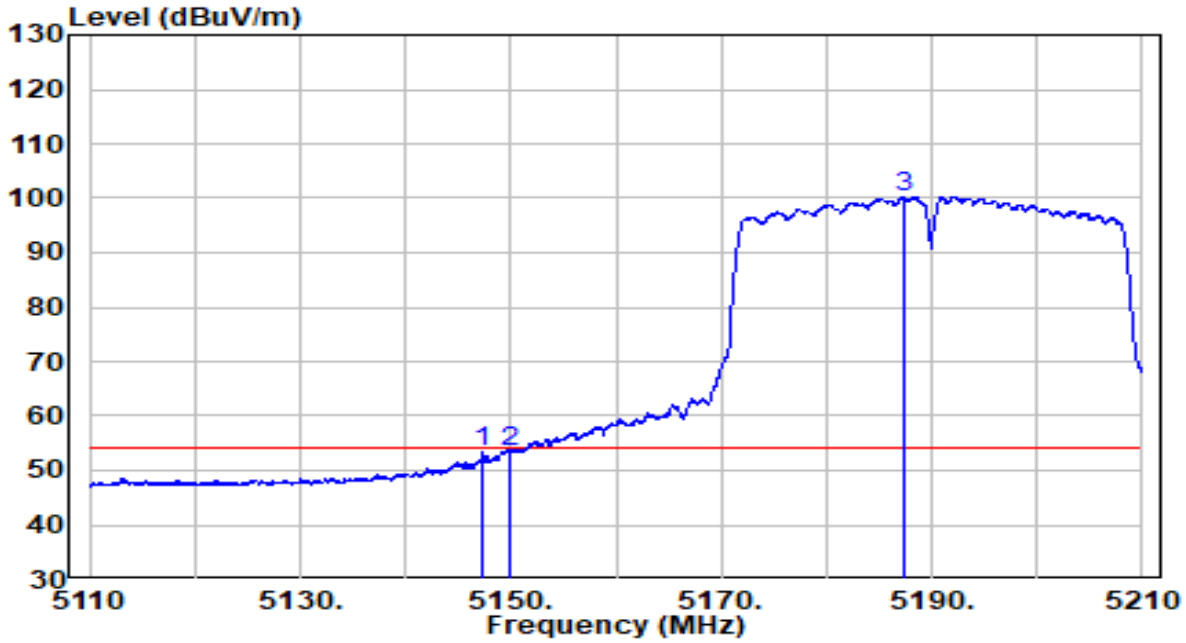
Note:

1. " *", means this data is the worst emission level.

2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) – Preamplifier(dB).

3. Measurement(dBμV/m) = Reading(dBμV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-09 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 23.0°C/39.7% |
| Polarity | Horizontal | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11ac-VHT40 at Channel 5190MHz | Test Voltage | 120V/60Hz |




| No | | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5147.350 | 33.05 | 20.19 | 53.25 | -0.75 | 54.00 | Average |
| 2 | | 5150.000 | 33.22 | 20.20 | 53.42 | -0.58 | 54.00 | Average |
| 3 | * | 5187.400 | 79.99 | 20.26 | 100.24 | N/A | N/A | Average |

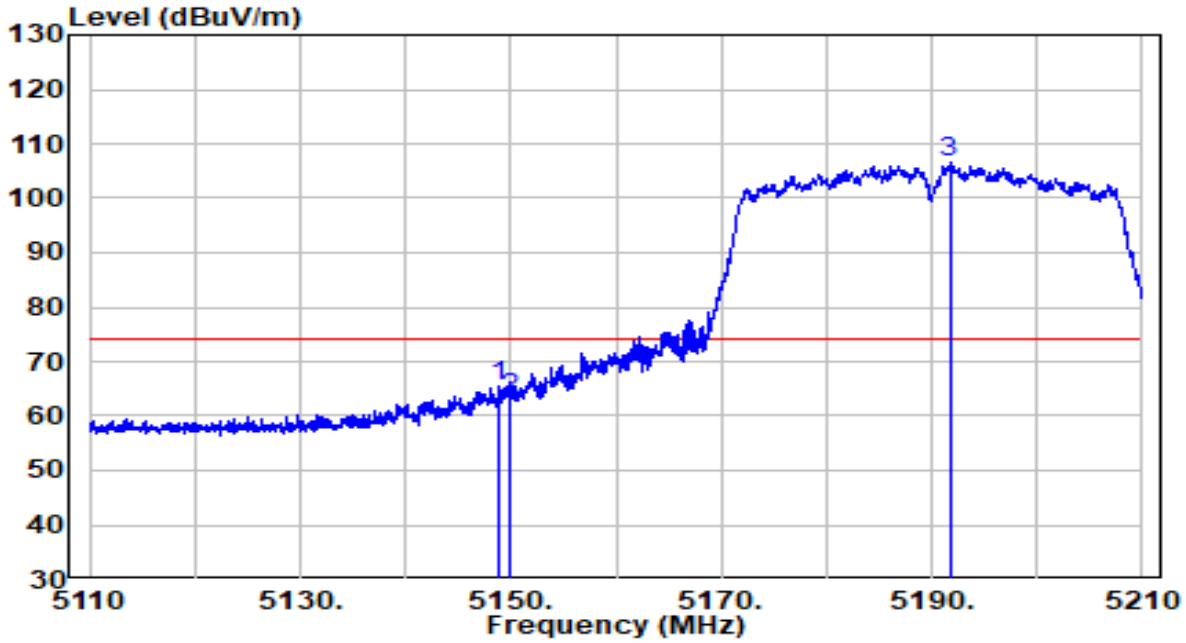
Note:

1. " *", means this data is the worst emission level.

2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) – Preamplifier(dB).

3. Measurement(dBμV/m) = Reading(dBμV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-09 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 23.0°C/39.7% |
| Polarity | Vertical | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11ac-VHT40 at Channel 5190MHz | Test Voltage | 120V/60Hz |




| No | | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5148.800 | 45.10 | 20.19 | 65.30 | -8.70 | 74.00 | Peak |
| 2 | | 5150.000 | 42.92 | 20.20 | 63.11 | -10.89 | 74.00 | Peak |
| 3 | * | 5191.700 | 86.28 | 20.26 | 106.55 | N/A | N/A | Peak |

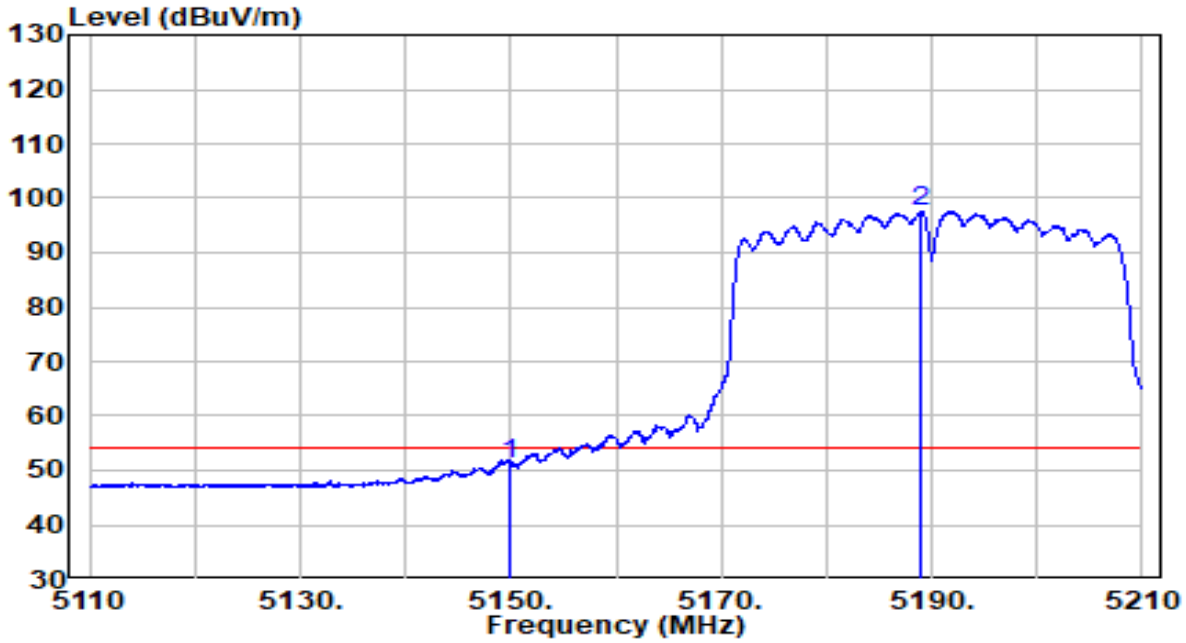
Note:

1. " *", means this data is the worst emission level.

2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) – Preamplifier(dB).

3. Measurement(dBμV/m) = Reading(dBμV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-09 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 23.0°C/39.7% |
| Polarity | Vertical | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11ac-VHT40 at Channel 5190MHz | Test Voltage | 120V/60Hz |

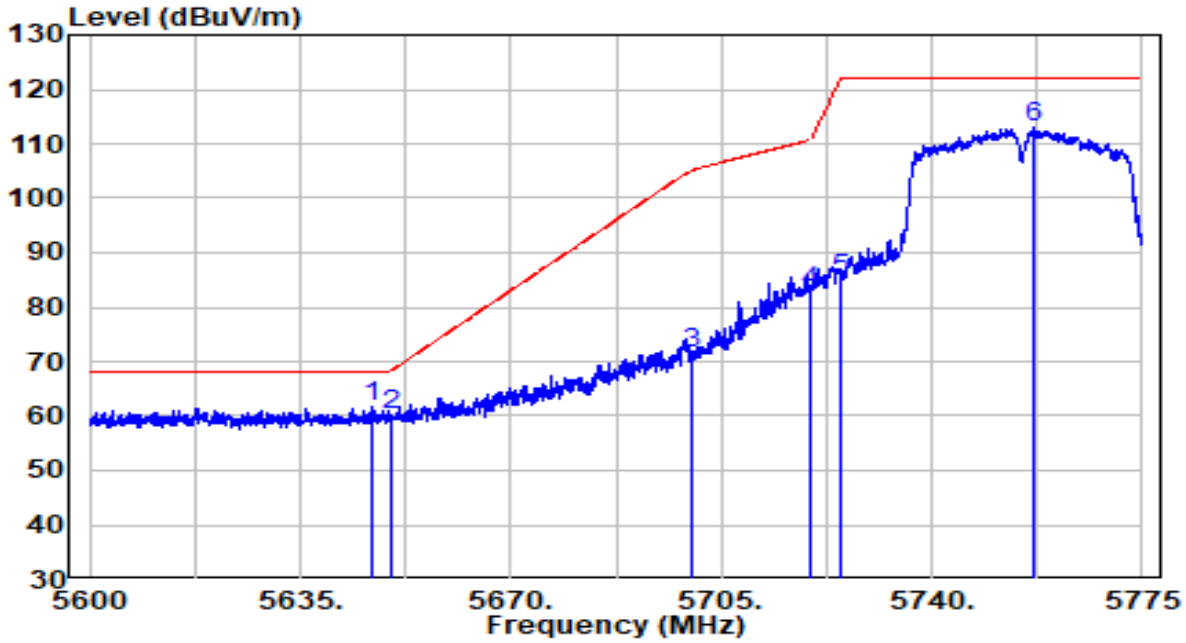



| No | | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5150.000 | 31.06 | 20.20 | 51.26 | -2.74 | 54.00 | Average |
| 2 | * | 5189.000 | 77.28 | 20.26 | 97.54 | N/A | N/A | Average |

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) – Preamplifier(dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-09 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 23.0°C/39.7% |
| Polarity | Horizontal | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11ac-VHT40 at Channel 5755MHz | Test Voltage | 120V/60Hz |




| No | | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 5646.813 | 40.22 | 21.30 | 61.53 | -6.67 | 68.20 | Peak |
| 2 | * | 5649.962 | 38.76 | 21.32 | 60.07 | -8.13 | 68.20 | Peak |
| 3 | | 5700.000 | 49.94 | 21.50 | 71.44 | -33.76 | 105.20 | Peak |
| 4 | | 5720.000 | 61.41 | 21.57 | 82.98 | -27.82 | 110.80 | Peak |
| 5 | | 5725.000 | 63.52 | 21.59 | 85.11 | -37.09 | 122.20 | Peak |
| 6 | | 5756.888 | 91.25 | 21.71 | 112.96 | N/A | N/A | Peak |

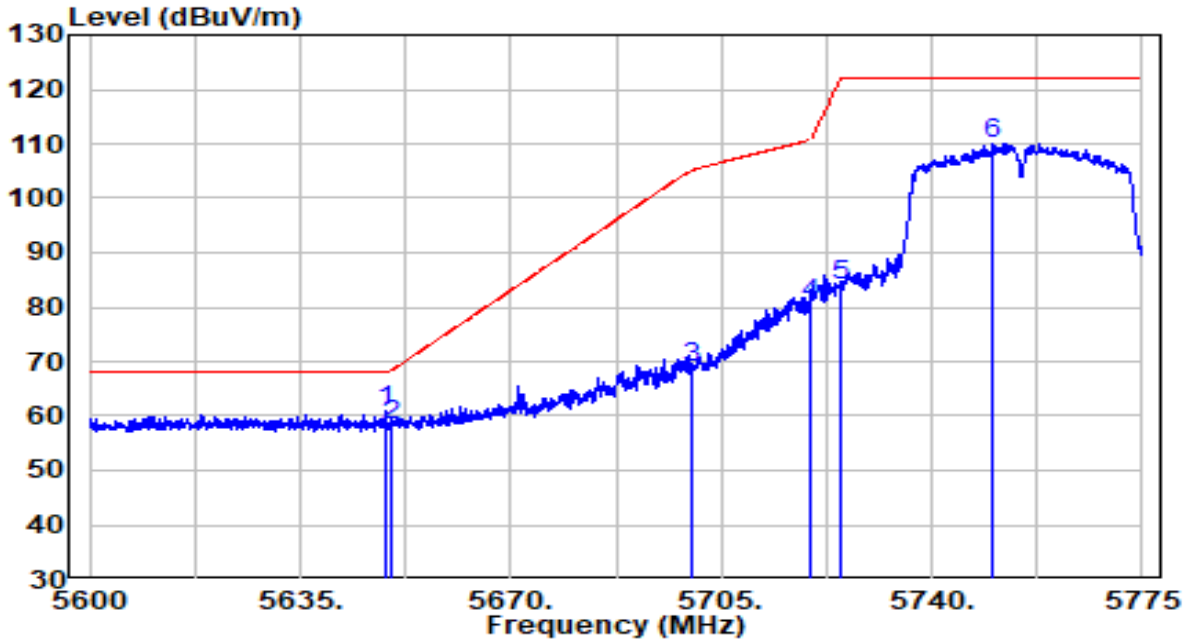
Note:

1. " *", means this data is the worst emission level.

2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) – Preamplifier(dB).

3. Measurement(dBμV/m) = Reading(dBμV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-09 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 23.0°C/39.7% |
| Polarity | Vertical | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11ac-VHT40 at Channel 5755MHz | Test Voltage | 120V/60Hz |




| No | | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 5649.263 | 39.45 | 21.31 | 60.76 | -7.44 | 68.20 | Peak |
| 2 | * | 5649.962 | 36.82 | 21.32 | 58.14 | -10.06 | 68.20 | Peak |
| 3 | | 5700.000 | 47.20 | 21.50 | 68.69 | -36.51 | 105.20 | Peak |
| 4 | | 5720.000 | 59.15 | 21.57 | 80.72 | -30.08 | 110.80 | Peak |
| 5 | | 5725.000 | 62.24 | 21.59 | 83.83 | -38.37 | 122.20 | Peak |
| 6 | | 5749.975 | 88.32 | 21.68 | 110.00 | N/A | N/A | Peak |

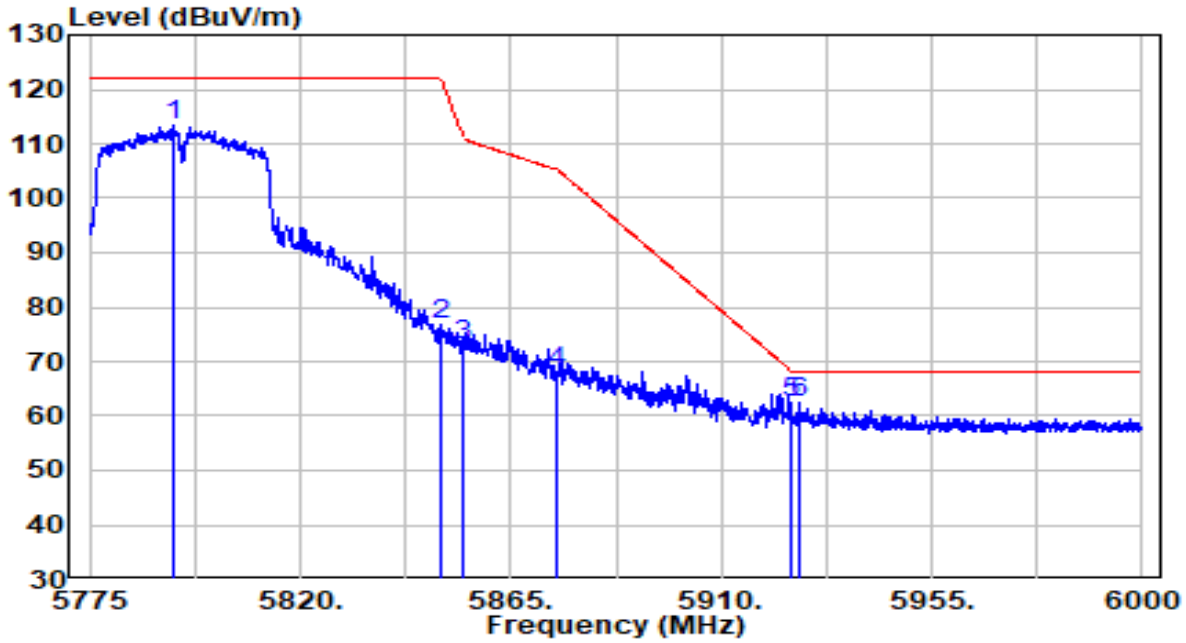
Note:

1. " *", means this data is the worst emission level.

2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) – Preamplifier(dB).

3. Measurement(dBμV/m) = Reading(dBμV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-09 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 23.0°C/39.7% |
| Polarity | Horizontal | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11ac-VHT40 at Channel 5795MHz | Test Voltage | 120V/60Hz |




| No | | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5793.000 | 91.57 | 21.84 | 113.41 | N/A | N/A | Peak |
| 2 | | 5850.000 | 54.70 | 22.04 | 76.74 | -45.46 | 122.20 | Peak |
| 3 | | 5855.000 | 50.86 | 22.06 | 72.92 | -37.88 | 110.80 | Peak |
| 4 | | 5875.000 | 46.00 | 22.14 | 68.13 | -37.07 | 105.20 | Peak |
| 5 | * | 5925.000 | 40.06 | 22.32 | 62.37 | -5.83 | 68.20 | Peak |
| 6 | | 5926.538 | 40.01 | 22.32 | 62.34 | -5.86 | 68.20 | Peak |

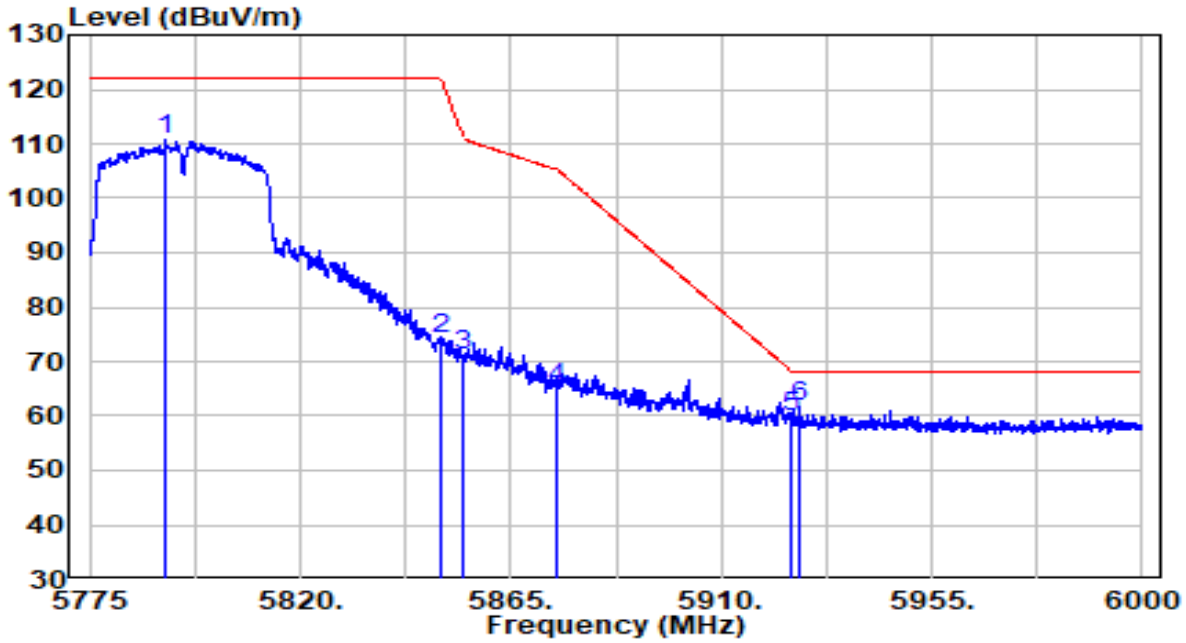
Note:

1. " *", means this data is the worst emission level.

2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) – Preamplifier(dB).

3. Measurement(dBμV/m) = Reading(dBμV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-09 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 23.0°C/39.7% |
| Polarity | Vertical | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11ac-VHT40 at Channel 5795MHz | Test Voltage | 120V/60Hz |




| No | | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5791.087 | 88.95 | 21.83 | 110.78 | N/A | N/A | Peak |
| 2 | | 5850.000 | 52.25 | 22.04 | 74.29 | -47.91 | 122.20 | Peak |
| 3 | | 5855.000 | 49.26 | 22.06 | 71.32 | -39.48 | 110.80 | Peak |
| 4 | | 5875.000 | 43.00 | 22.14 | 65.13 | -40.07 | 105.20 | Peak |
| 5 | * | 5925.000 | 37.33 | 22.32 | 59.65 | -8.55 | 68.20 | Peak |
| 6 | * | 5926.987 | 39.21 | 22.32 | 61.54 | -6.66 | 68.20 | Peak |

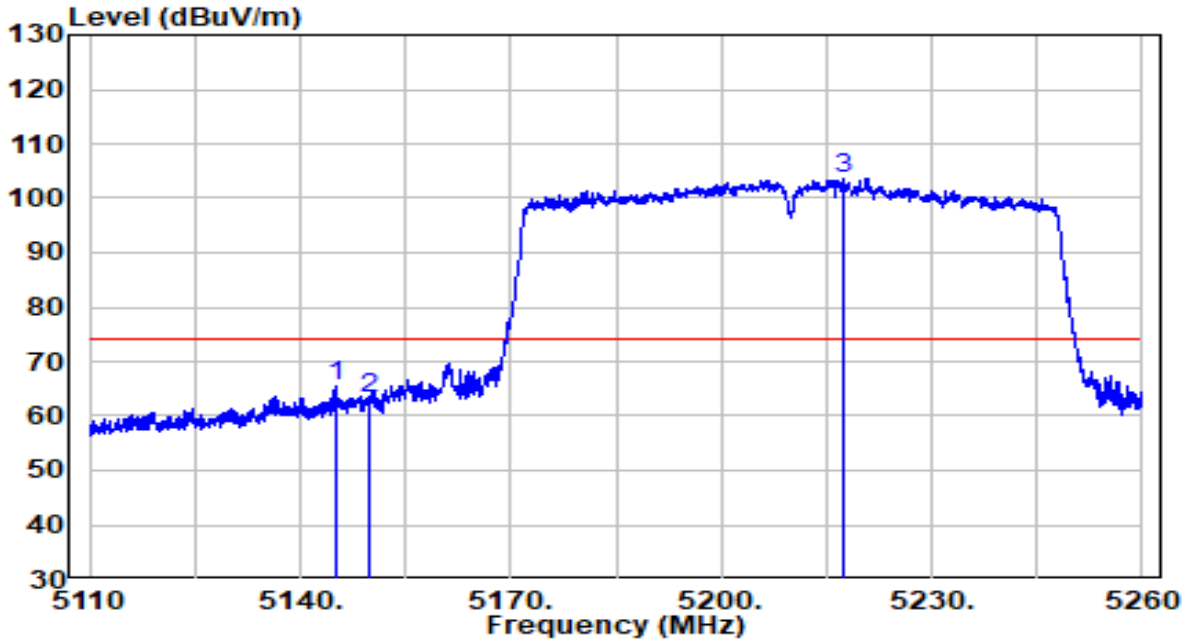
Note:

1. " *", means this data is the worst emission level.

2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) – Preamplifier(dB).

3. Measurement(dBμV/m) = Reading(dBμV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-09 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 23.0°C/39.7% |
| Polarity | Horizontal | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11ac-VHT80 at Channel 5210MHz | Test Voltage | 120V/60Hz |




| No | | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5145.100 | 45.10 | 20.19 | 65.28 | -8.72 | 74.00 | Peak |
| 2 | | 5150.000 | 43.08 | 20.20 | 63.28 | -10.72 | 74.00 | Peak |
| 3 | * | 5217.400 | 83.32 | 20.31 | 103.63 | N/A | N/A | Peak |

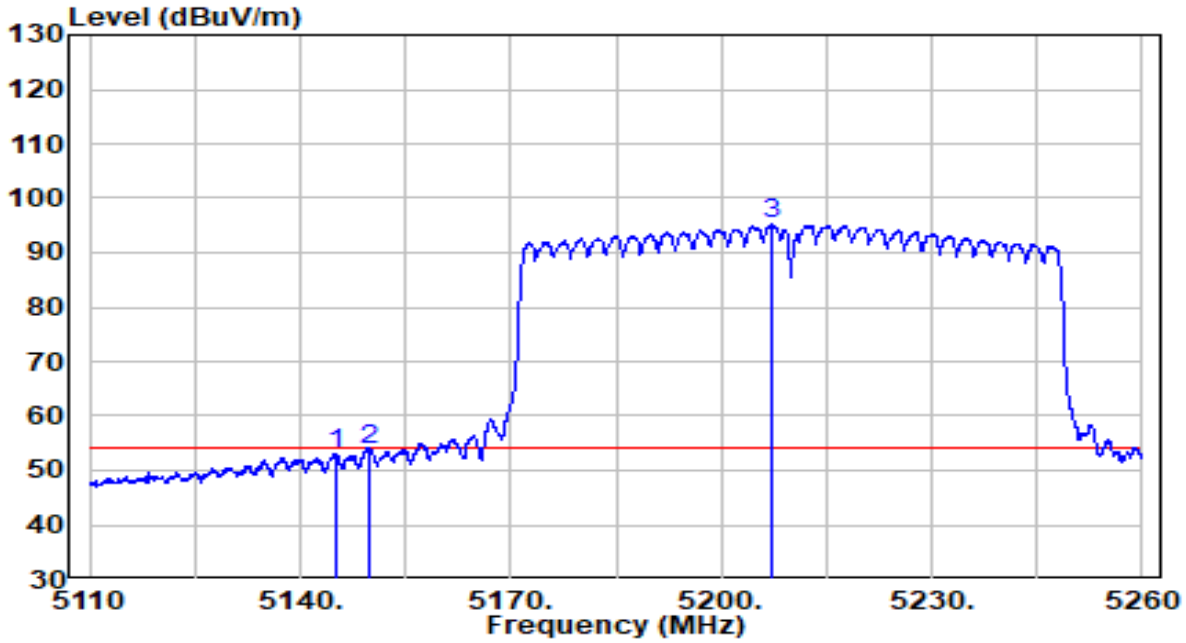
Note:

1. " *", means this data is the worst emission level.

2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) – Preamplifier(dB).

3. Measurement(dBμV/m) = Reading(dBμV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-09 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 23.0°C/39.7% |
| Polarity | Horizontal | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11ac-VHT80 at Channel 5210MHz | Test Voltage | 120V/60Hz |




| No | | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5145.175 | 32.74 | 20.19 | 52.93 | -1.07 | 54.00 | Average |
| 2 | | 5149.975 | 33.45 | 20.20 | 53.65 | -0.35 | 54.00 | Average |
| 3 | * | 5207.050 | 74.82 | 20.29 | 95.11 | N/A | N/A | Average |

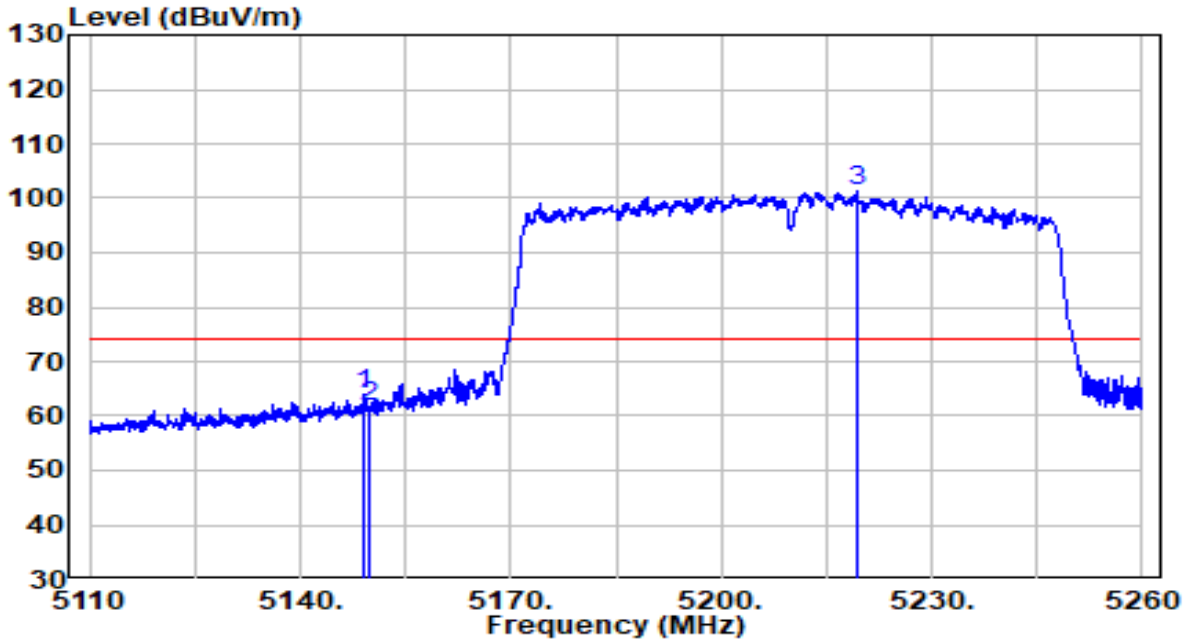
Note:

1. " *", means this data is the worst emission level.

2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) – Preamplifier(dB).

3. Measurement(dBμV/m) = Reading(dBμV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-09 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 23.0°C/39.7% |
| Polarity | Vertical | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11ac-VHT80 at Channel 5210MHz | Test Voltage | 120V/60Hz |




| No | | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5149.075 | 43.62 | 20.19 | 63.81 | -10.19 | 74.00 | Peak |
| 2 | | 5150.000 | 41.48 | 20.20 | 61.68 | -12.32 | 74.00 | Peak |
| 3 | * | 5219.425 | 80.85 | 20.31 | 101.16 | N/A | N/A | Peak |

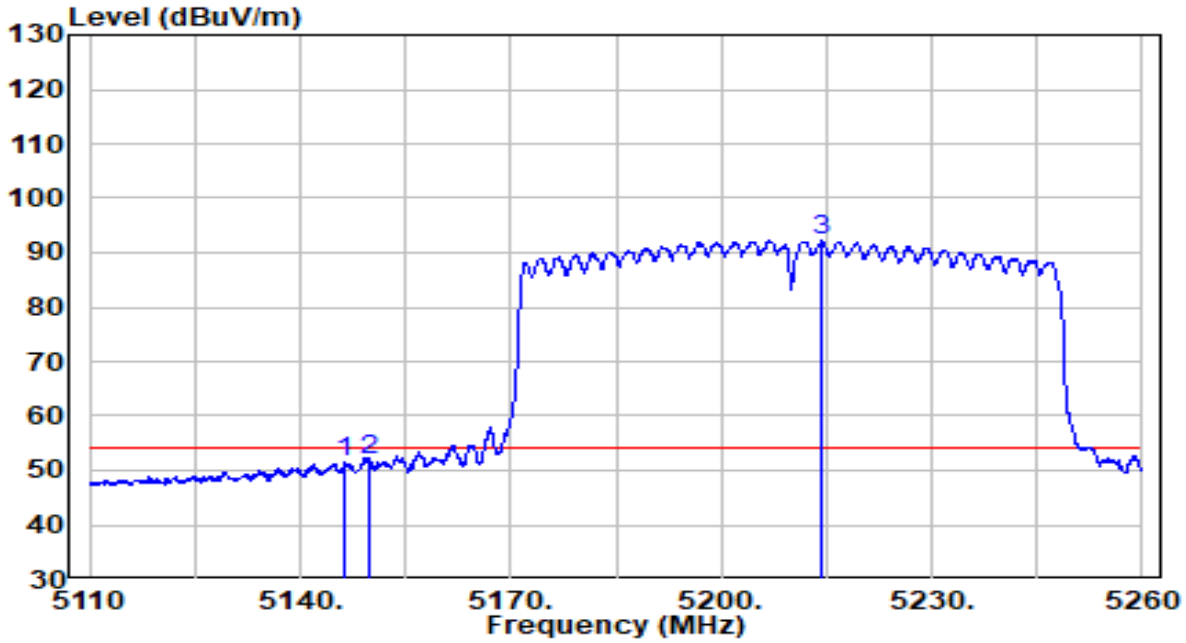
Note:

1. " *", means this data is the worst emission level.

2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) – Preamplifier(dB).

3. Measurement(dBμV/m) = Reading(dBμV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-09 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 23.0°C/39.7% |
| Polarity | Vertical | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11ac-VHT80 at Channel 5210MHz | Test Voltage | 120V/60Hz |




| No | | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5146.450 | 31.20 | 20.19 | 51.39 | -2.61 | 54.00 | Average |
| 2 | | 5149.975 | 31.70 | 20.20 | 51.90 | -2.10 | 54.00 | Average |
| 3 | * | 5214.325 | 71.82 | 20.30 | 92.12 | N/A | N/A | Average |

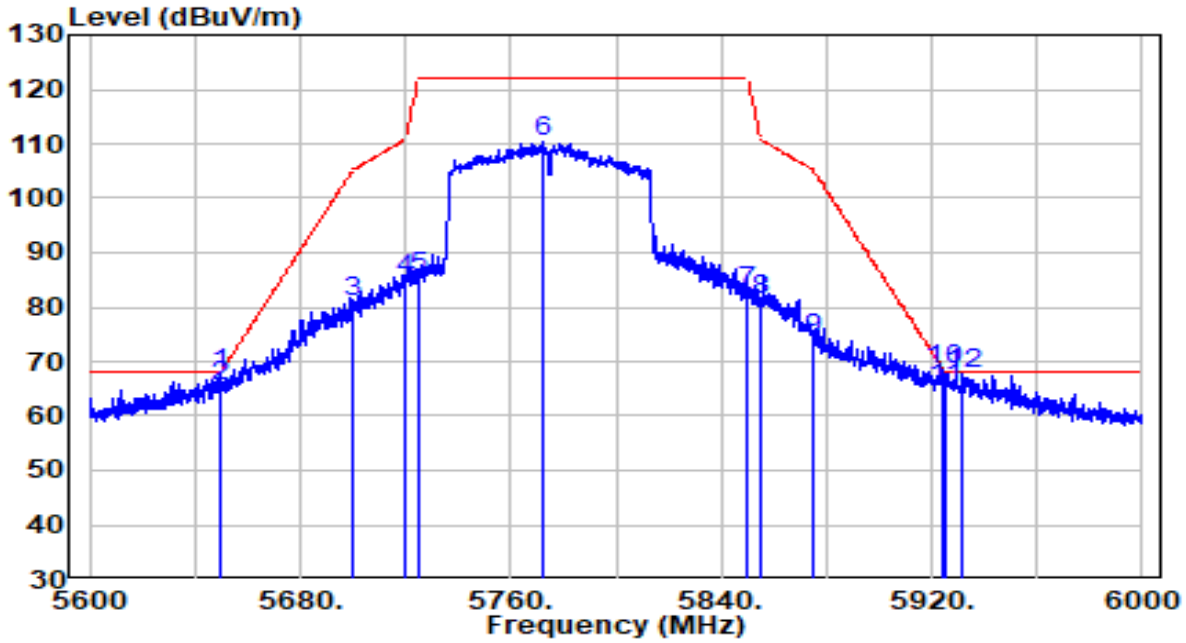
Note:

1. " *", means this data is the worst emission level.

2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) – Preamplifier(dB).

3. Measurement(dBμV/m) = Reading(dBμV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-09 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 23.0°C/39.7% |
| Polarity | Horizontal | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11ac-VHT80 at Channel 5775MHz | Test Voltage | 120V/60Hz |




| No | | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5649.400 | 46.41 | 21.31 | 67.73 | -0.47 | 68.20 | Peak |
| 2 | * | 5650.000 | 44.00 | 21.32 | 65.31 | -2.89 | 68.20 | Peak |
| 3 | | 5700.000 | 59.54 | 21.50 | 81.04 | -24.16 | 105.20 | Peak |
| 4 | | 5720.000 | 63.69 | 21.57 | 85.26 | -25.54 | 110.80 | Peak |
| 5 | | 5725.000 | 64.03 | 21.59 | 85.62 | -36.58 | 122.20 | Peak |
| 6 | | 5772.600 | 88.62 | 21.76 | 110.38 | N/A | N/A | Peak |
| 7 | | 5850.000 | 60.77 | 22.04 | 82.82 | -39.38 | 122.20 | Peak |
| 8 | | 5855.000 | 59.40 | 22.06 | 81.46 | -29.34 | 110.80 | Peak |
| 9 | | 5875.000 | 51.98 | 22.14 | 74.11 | -31.09 | 105.20 | Peak |
| 10 | * | 5924.200 | 46.05 | 22.31 | 68.36 | -0.43 | 68.79 | Peak |
| 11 | | 5925.000 | 42.59 | 22.32 | 64.91 | -3.29 | 68.20 | Peak |
| 12 | | 5932.000 | 45.29 | 22.34 | 67.64 | -0.56 | 68.20 | Peak |

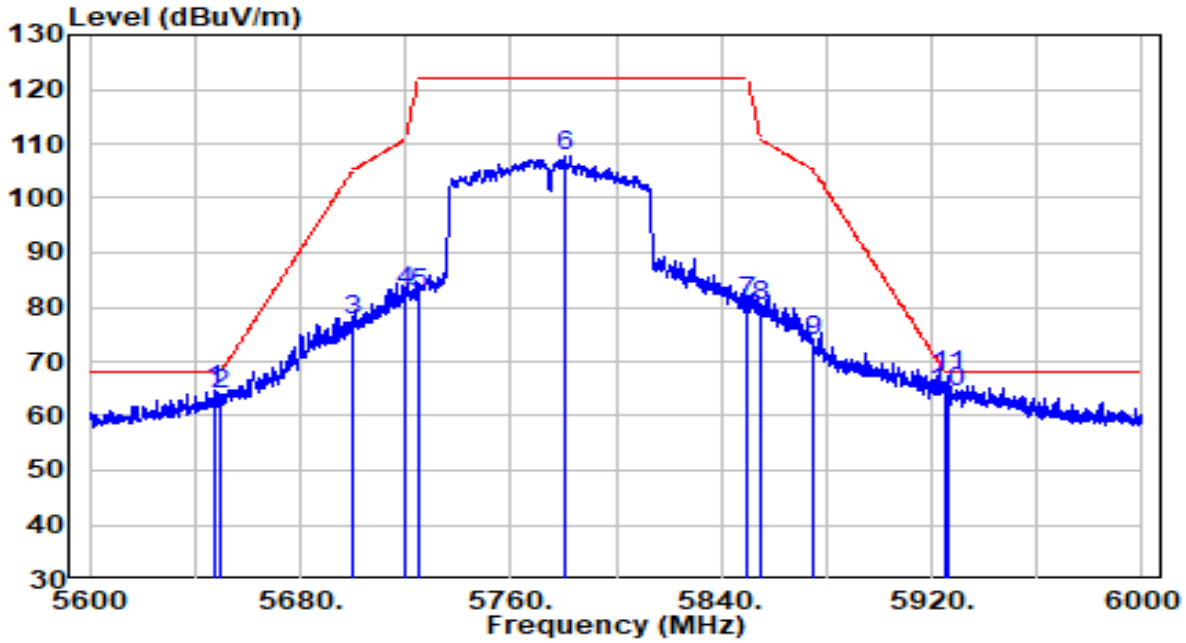
Note:

1. " *", means this data is the worst emission level.

2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) – Preamplifier(dB).

3. Measurement(dBμV/m) = Reading(dBμV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-09 |
|---|---|---|---|
| Factor | BBHA 9120D (1GHz~18GHz) | Temp. / Humidity | 23.0°C/39.7% |
| Polarity | Vertical | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11ac-VHT80 at Channel 5775MHz | Test Voltage | 120V/60Hz |




| No | | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5648.000 | 43.39 | 21.31 | 64.70 | -3.50 | 68.20 | Peak |
| 2 | | 5650.000 | 42.56 | 21.32 | 63.88 | -4.32 | 68.20 | Peak |
| 3 | | 5700.000 | 56.14 | 21.50 | 77.64 | -27.56 | 105.20 | Peak |
| 4 | | 5720.000 | 61.16 | 21.57 | 82.73 | -28.07 | 110.80 | Peak |
| 5 | | 5725.000 | 60.68 | 21.59 | 82.27 | -39.93 | 122.20 | Peak |
| 6 | | 5780.600 | 86.12 | 21.79 | 107.91 | N/A | N/A | Peak |
| 7 | | 5850.000 | 58.75 | 22.04 | 80.79 | -41.41 | 122.20 | Peak |
| 8 | | 5855.000 | 58.30 | 22.06 | 80.36 | -30.44 | 110.80 | Peak |
| 9 | | 5875.000 | 51.76 | 22.14 | 73.90 | -31.30 | 105.20 | Peak |
| 10 | * | 5925.000 | 42.06 | 22.32 | 64.38 | -3.82 | 68.20 | Peak |
| 11 | * | 5925.800 | 44.92 | 22.32 | 67.24 | -0.96 | 68.20 | Peak |

Note:

1. " *", means this data is the worst emission level.

2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) –

Preamplifier(dB).

3. Measurement(dBμV/m) = Reading(dBμV) + C.F (Correction Factor).

## 7.9. AC Conducted Emissions Measurement

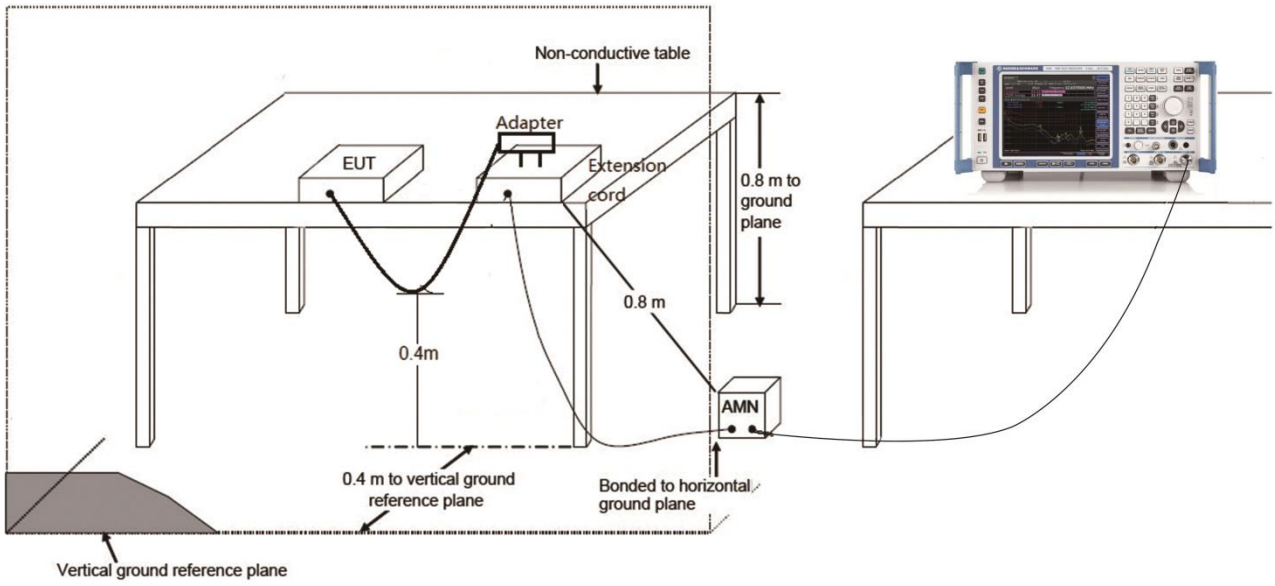
### 7.9.1. Test Limit

| FCC Part 15.207 Limits | | |
|---|---|---|
| Frequency (MHz) | QP (dBμV) | AV (dBμV) |
| 0.15 - 0.50 | 66 - 56 | 56 - 46 |
| 0.50 - 5.0 | 56 | 46 |
| 5.0 - 30 | 60 | 50 |

Note 1: The lower limit shall apply at the transition frequencies.

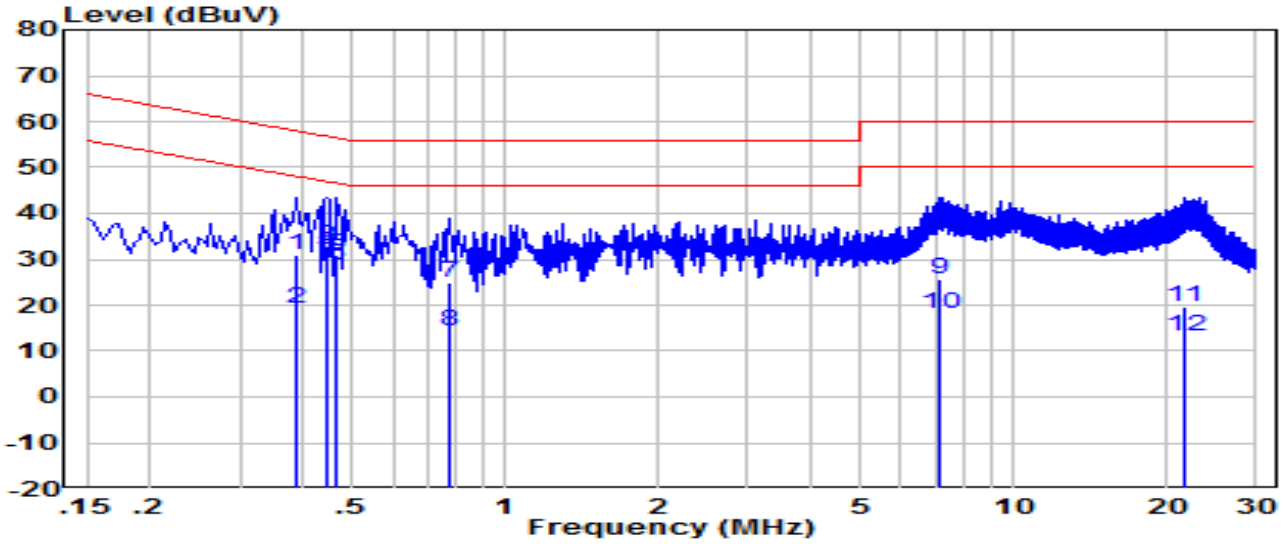
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

### 7.9.2. Test Setup



### 7.9.3.Test Result

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-28 |
|---|---|---|---|
| Factor | CE_ENV216-L1 | Temp. / Humidity | 18°C /48% |
| Polarity | Line1 | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11a at channel 5785MHz | Test Voltage | 120V/60Hz |

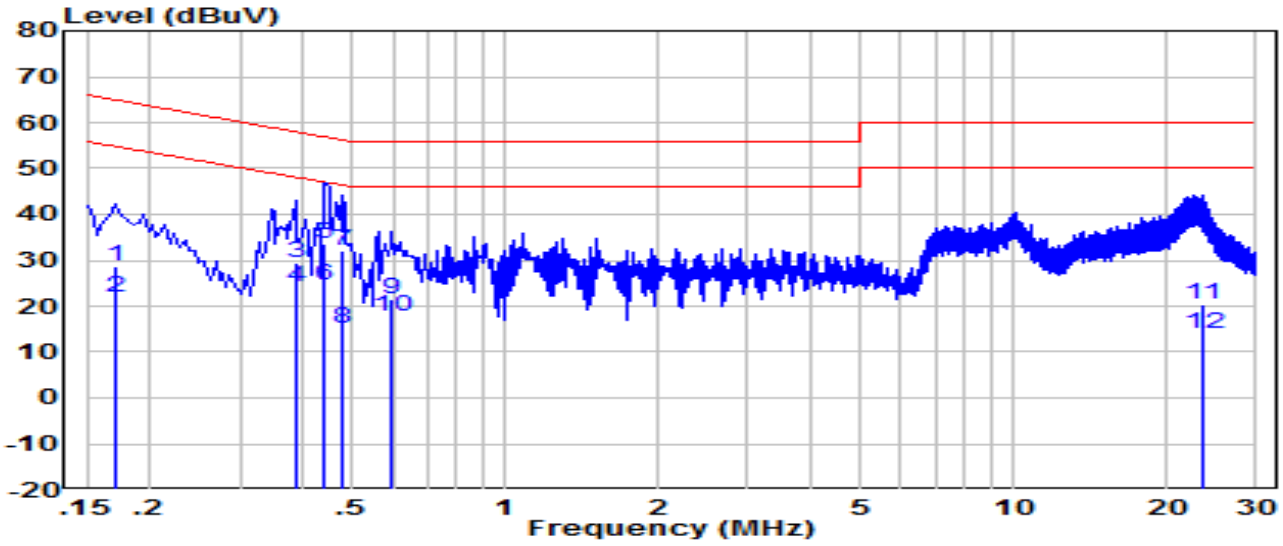



| No | | Frequency (MHz) | Reading (dBµV) | C.F (dB) | Measurement (dBµV) | Margin (dB) | Limit (dBµV) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 0.390 | 21.38 | 9.62 | 31.00 | -27.06 | 58.06 | QP |
| 2 | | 0.390 | 9.78 | 9.62 | 19.40 | -28.66 | 48.06 | Average |
| 3 | | 0.446 | 23.17 | 9.63 | 32.80 | -24.15 | 56.95 | QP |
| 4 | * | 0.446 | 21.87 | 9.63 | 31.50 | -15.45 | 46.95 | Average |
| 5 | | 0.466 | 21.47 | 9.63 | 31.10 | -25.49 | 56.59 | QP |
| 6 | | 0.466 | 18.97 | 9.63 | 28.60 | -17.99 | 46.59 | Average |
| 7 | | 0.778 | 15.35 | 9.65 | 25.00 | -31.00 | 56.00 | QP |
| 8 | | 0.778 | 4.65 | 9.65 | 14.30 | -31.70 | 46.00 | Average |
| 9 | | 7.160 | 15.70 | 9.80 | 25.50 | -34.50 | 60.00 | QP |
| 10 | | 7.160 | 8.30 | 9.80 | 18.10 | -31.90 | 50.00 | Average |
| 11 | | 21.680 | 9.71 | 9.99 | 19.70 | -40.30 | 60.00 | QP |
| 12 | | 21.680 | 3.31 | 9.99 | 13.30 | -36.70 | 50.00 | Average |

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement(dBµV) = Reading(dBµV) + C.F (Correction Factor).

| EUT | AC1200 Whole Home Mesh Wi-Fi System | Date of Test | 2021-12-28 |
|---|---|---|---|
| Factor | CE_ENV216-N | Temp. / Humidity | 18°C /48% |
| Polarity | Neutral | Site / Test Engineer | AC1 / Jay |
| Test Mode | Transmit by 802.11a at channel 5785MHz | Test Voltage | 120V/60Hz |




| No | | Frequency (MHz) | Reading (dBµV) | C.F (dB) | Measurement (dBµV) | Margin (dB) | Limit (dBµV) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 0.170 | 19.08 | 9.62 | 28.70 | -36.26 | 64.96 | QP |
| 2 | | 0.170 | 12.38 | 9.62 | 22.00 | -32.96 | 54.96 | Average |
| 3 | | 0.386 | 19.88 | 9.62 | 29.50 | -28.65 | 58.15 | QP |
| 4 | | 0.386 | 14.68 | 9.62 | 24.30 | -23.85 | 48.15 | Average |
| 5 | | 0.438 | 23.77 | 9.63 | 33.40 | -23.70 | 57.10 | QP |
| 6 | * | 0.438 | 15.07 | 9.63 | 24.70 | -22.40 | 47.10 | Average |
| 7 | | 0.478 | 22.57 | 9.63 | 32.20 | -24.17 | 56.37 | QP |
| 8 | | 0.478 | 5.57 | 9.63 | 15.20 | -31.17 | 46.37 | Average |
| 9 | | 0.598 | 11.76 | 9.64 | 21.40 | -34.60 | 56.00 | QP |
| 10 | | 0.598 | 8.16 | 9.64 | 17.80 | -28.20 | 46.00 | Average |
| 11 | | 23.470 | 10.32 | 10.08 | 20.40 | -39.60 | 60.00 | QP |
| 12 | | 23.470 | 4.02 | 10.08 | 14.10 | -35.90 | 50.00 | Average |

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement(dBµV) = Reading(dBµV) + C.F (Correction Factor).

# 8. CONCLUSION

The data collected relate only the item(s) tested and show that the device is in compliance with Part 15E of the FCC Rules.

The End

# Appendix A - Test Setup Photograph

Refer to “2111TW0006-Setup photo” file.

# Appendix B - External Photograph

Refer to “2111TW0006-External photo” file.

# Appendix C - Internal Photograph

Refer to “2111TW0006-Internal photo” file.