# FCC PART 15C TEST REPORT FOR CERTIFICATION
## On Behalf of

Vesync (US) Corporation

Core 200S-P Smart Air Purifier

Model Number: Core 200S

Additional Model: LAP-C201S-AUSR, LAP-C201S-XXXX ("-" Followed by three or four characters, differentiated by color and model number)

FCC ID: 2AB22-CORE-200S

| | |
|---|---|
| Applicant: | Vesync (US) Corporation |
| Address: | 1775 FLIGHT WAY, SUITE 150 TUSTIN, CA 92782, USA |
| | |
| Prepared By: | EST Technology Co., Ltd. |
| | Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China |
| Tel: 86-769-83081888-808 | |

| | |
|---|---|
| Report Number: | ESTE-R2606074 |
| Date of Test: | May 21, 2026 to Jun. 01, 2026 |
| Date of Report: | Jun. 05, 2026 |

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|---|---|---|---|
| **Applicant:**<br>**Address:** | Vesync (US) Corporation<br>1775 FLIGHT WAY, SUITE 150 TUSTIN, CA 92782, USA | | |
| **Manufacturer:**<br>**Address:** | Vesync (US) Corporation<br>1775 FLIGHT WAY, SUITE 150 TUSTIN, CA 92782, USA | | |
| **E.U.T:** | Core 200S-P Smart Air Purifier | | |
| **Model Number:** | Core 200S | | |
| **Additional Model:** | LAP-C201S-AUSR, LAP-C201S-XXXX ("-" Followed by three or four characters, differentiated by color and model number)<br>Note: They are identical except model name and color. | | |
| **Power Supply:** | AC 120V/60Hz | | |
| **Trade Name:** | Levoit | Serial No.: | ------ |
| **Date of Receipt:** | May 21, 2026 | Date of Test: | May 21, 2026 to Jun. 01, 2026 |
| **Test Specification:** | FCC Part 15 Subpart C (15.247)<br>ANSI C63.10:2020<br>FCC KDB 558074 D01 15.247 Meas Guidance v05r02 | | |
| **Test Result:** | The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements.<br><br>This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.<br><br>**Date:** Oct. 09, 2026 | | |

| Prepared by: | Reviewed by: | Approved by: |
|---|---|---|
| Ring Yang / Assistant | Seven Wang / Engineer | Iceman Hu / Manager |

**Other Aspects:**
None.

Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested

This test report is based on a single evaluation of one sample of above mentioned products, It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd. The statement of compliance in this report is based on the limit in the test standard, the measurement uncertainty is not considered.

# 1.GENERAL INFORMATION

## 1.1.Description of Device (EUT)

| | | |
|---|---|---|
| Product Name | : | Core 200S-P Smart Air Purifier |
| Model Number | : | Core 200S |
| Software Version | : | N/A |
| Hardware Version | : | N/A |
| Operation frequency | : | 2402MHz~2480MHz |
| Number of channel | : | 40 |
| Max Output Power (PEAK) | : | 7.44dBm |
| Modulation Type | : | GFSK |
| Sample Type | : | Prototype production |
| Note: The product information is provided by the manufacturer. The laboratory is not responsible for this data. | | |

## 1.2.Antenna Information

| Ant No. | Brand | Model Name | Antenna Type | Connector | Gain (dBi) |
|---|---|---|---|---|---|
| 1 | - | - | PCB | - | 0.9 |
| Note:<br>1.The antenna gain is declared by the customer and the laboratory is not responsible for the accuracy of the antenna gain.<br>2.The test results of this report only apply to the sample as received | | | | | |

## 1.3.Information of RF Cable

| Cable Loss(dB) | Provided by |
|---|---|
| 1.0 | Vesync (US) Corporation |
| Note:<br>1.The customer declared the loss value of the RF Cable. and the test results of this report only apply to the sample as received.<br>2.The laboratory is not responsible for the accuracy of the cable loss. | |

# 2.SUMMARY OF TEST

## 2.1.Summary of test result

| No. | Description of Test Item | FCC Standard Section | Results |
|---|---|---|---|
| 1 | 6dB Bandwidth | 15.247(a)(2) | PASS |
| 2 | Maximum Peak Output Power | 15.247(b)(3) | PASS |
| 3 | Power Spectral Density | 15.247(e) | PASS |
| 4 | Conducted Band Edge | 15.247(d) | PASS |
| 5 | Conducted Spurious Emissions | 15.247(d) | PASS |
| 6 | Radiated Spurious Emissions and Band Edge | 15.205<br>15.209<br>15.247(d) | PASS |
| 7 | AC Power Line Conducted Emissions | 15.207 | PASS |
| 8 | Antenna Requirement | 15.203 | PASS |

Note:“N/A” denotes test is not applicable in this test report.

## 2.2.Test Facilities

| | | |
|---|---|---|
| EMC Lab | : | Accredited by CNAS, CHINA<br>Registration No.: L5288<br>This Accreditation is valid until: November 12, 2029<br><br>Recognized by FCC, USA<br>Designation Number: CN1215<br>This Recognition is valid until: January 31, 2028<br><br>Accredited by A2LA, USA<br>Registration No.: 4366.01<br>This Accreditation is valid until: January 31, 2028<br><br>Recognized by Industry Canada<br>CAB identifier No.: CN0035<br>This Recognition is valid until: January 31, 2028<br><br>Recognized by VCCI, Japan<br>Registration No.:C-14103; T-20073; R-13663;<br>R-20103; G-20097<br>Date of registration: Apr. 20, 2026<br>This Recognition is valid until: Apr. 19, 2029<br><br>Recognized by TUV Rheinland, Germany<br>Registration No.: UA 50413872 0001<br>Date of registration: July 31, 2018<br><br>Recognized by Intertek<br>Registration No.: 2011-RTL-L2-64<br>Date of registration: November 08, 2018 |
| Name of Firm | : | EST Technology Co., Ltd. |
| Site Location | : | Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China |

## 2.3.Measurement uncertainty

| Test Item | Uncertainty |
|---|---|
| Uncertainty for Conduction emission test | 0.26dB |
| Uncertainty for spurious emissions test (Below 30MHz) | ±1.62dB |
| Uncertainty for spurious emissions test (30MHz-1GHz) | ±4.76dB |
| Uncertainty for spurious emissions test (1GHz to 25GHz) | ±5.32dB |
| Uncertainty for radio frequency | $7\times10^{-8}$ |
| Uncertainty for conducted RF Power | 1.08dB |
| Uncertainty for Power density test | 0.26dB |

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

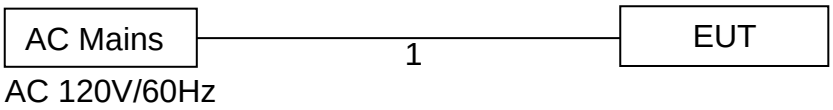
## 2.4.Assistant equipment used for test

| Item | Equipment | Brand | Model Name/Type No. | FCC ID | Series No. |
|---|---|---|---|---|---|
| - | - | - | - | - | - |

| Item | Shielded Type | Ferrite Core | Length | Note |
|---|---|---|---|---|
| 1 | NO | NO | 1.9m | AC Line |

## 2.5.Block Diagram

For radiated emissions test: EUT was placed on a turntable, which is 0.8 (or 1.5) meters high above ground. The EUT was set into BLE test mode by software prior to testing.




(EUT: Core 200S-P Smart Air Purifier)

## 2.6.Test Mode

The test mode was selected for the final test as listed below.

| Test Item | Modulation Type | Test Channel |
|---|---|---|
| 6dB Bandwidth | GFSK | Low/Middle/High |
| Maximum Peak Output Power | GFSK | Low/Middle/High |
| Power Spectral Density | GFSK | Low/Middle/High |
| Conducted Band Edge | GFSK | Low/ High |
| Conducted Spurious Emissions | GFSK | Low/Middle/High |
| Radiated Spurious Emissions(Below 1GHz) | GFSK | Low/Middle/High |
| Radiated Spurious Emissions(Above 1GHz) | GFSK | Low/Middle/High |
| Radiated Band Edge | GFSK | Low/High |
| AC Power Line Conducted Emissions | GFSK | Low/Middle/High |
| Note: In radiated measurement,the EUT had been pre-scan on the positioned of each 3 axis(X,Y,Z), the worst case was found when positioned on **X-plane.** | | |

## 2.7.Power Setting of Test Software

| Software Name | EspRFTestTool | | |
|---|---|---|---|
| Frequency(MHz) | 2402 | 2440 | 2480 |
| GFSK 1Mbps Setting | 10 | 10 | 10 |
| GFSK 2Mbps Setting | 10 | 10 | 10 |

Note: This information is provided by the applicant.

## 2.8.Duty Cycle

Refer to Appendix G of Appendix FCC ID BLE (the test data).

Note:

1. If duty cycle <98 %, the conducted average output power and average power spectral density should be add duty factor.
2. If duty cycle≥98 %,the EUT is consider to be transmitting continuously, the conducted average output power and average power spectral density no need to add duty factor(consider to be zero).
3. The conducted peak output power and peak power spectral density no need to consider duty factor.
4. The on-time time is transmission duration(T).

## 2.9.Channel List

| Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) |
|---|---|---|---|
| 0 | 2402 | 1 | 2404 |
| 2 | 2406 | 3 | 2408 |
| 4 | 2410 | 5 | 2412 |
| 6 | 2414 | 7 | 2416 |
| 8 | 2418 | 9 | 2420 |
| 10 | 2422 | 11 | 2424 |
| 12 | 2426 | 13 | 2428 |
| 14 | 2430 | 15 | 2432 |
| 16 | 2434 | 17 | 2436 |
| 18 | 2438 | 19 | 2440 |
| 20 | 2442 | 21 | 2444 |
| 22 | 2446 | 23 | 2448 |
| 24 | 2450 | 25 | 2452 |
| 26 | 2454 | 27 | 2456 |
| 28 | 2458 | 29 | 2460 |
| 30 | 2462 | 31 | 2464 |
| 32 | 2466 | 33 | 2468 |
| 34 | 2470 | 35 | 2472 |
| 36 | 2474 | 37 | 2476 |
| 38 | 2478 | 39 | 2480 |

## 2.10.Test Equipment List

| For conducted emission test | | | | | | |
|---|---|---|---|---|---|---|
| Equipment | Manufacturer | Model No. | Serial No. | Calibration Body | Last Cal. | Next Cal. |
| EMI Test Receiver | Rohde & Schwarz | ESRP3 | EST-E070 | LISAI | June 11,25 | June 10,26 |
| Artificial Mains Network | Rohde & Schwarz | ENV216 | EST-E048 | LISAI | June 11,25 | June 10,26 |
| Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | EST-E078 | LISAI | June 11,25 | June 10,26 |
| Test Software | Audix | e3-6.111221a | N/A | N/A | N/A | N/A |

| For radiated emission test(9kHz-30MHz) | | | | | | |
|---|---|---|---|---|---|---|
| Equipment | Manufacturer | Model No. | Serial No. | Calibration Body | Last Cal. | Next Cal. |
| EMI Test Receiver | Rohde & Schwarz | ESR7 | EST-E047 | LISAI | June 11,25 | June 10,26 |
| Active Loop Antenna | SCHWAREBECK | FMZB 1519B | EST-E054 | LISAI | June 11,25 | June 10,26 |
| Test Software | Audix | e3-6.111221a | N/A | N/A | N/A | N/A |
| 9kHz-30MHz Cable | N/A | EST-001 | N/A | N/A | N/A | N/A |

| For radiated emissions test (30MHz-1000MHz) | | | | | | |
|---|---|---|---|---|---|---|
| Equipment | Manufacturer | Model No. | Serial No. | Calibration Body | Last Cal. | Next Cal. |
| EMI Test Receiver | Rohde & Schwarz | ESR7 | EST-E047 | LISAI | June 11,25 | June 10,26 |
| Bilog Antenna | Teseq | CBL 6111D | EST-E034 | LISAI | June 11,25 | June 10,26 |
| Test Software | Audix | e3-6.111221a | N/A | N/A | N/A | N/A |
| 30-1000MHz Cable | N/A | EST-002 | N/A | N/A | N/A | N/A |

| For radiated emission test(Above 1000MHz) | | | | | | |
|---|---|---|---|---|---|---|
| Equipment | Manufacturer | Model No. | Serial No. | Calibration Body | Last Cal. | Next Cal. |
| Horn Antenna | SCHWARZBECK | BBHA9120D | EST-E144 | LISAI | June 11,25 | June 10,26 |
| Horn Antenna | Com-Power | AHA-840 | EST-E133 | LISAI | June 11,25 | June 10,26 |
| Low Noise Amplifier | RF | TRLA-010180 G45N | EST-E142 | LISAI | June 11,25 | June 10,26 |
| Spectrum Analyzer | Rohde &Schwarz | FSV40 | EST-E069 | LISAI | June 11,25 | June 10,26 |
| Test Software | Audix | e3-6.111221a | N/A | N/A | N/A | N/A |
| Above 1GHz Cable | N/A | EST-003 | N/A | N/A | N/A | N/A |

| For connect EUT antenna terminal test | | | | | | |
|---|---|---|---|---|---|---|
| Equipment | Manufacturer | Model No. | Serial No. | Calibration Body | Last Cal. | Next Cal. |
| TS 1120 | Tonscend | / | / | / | / | / |
| Test Software | Tonscend | JS1120-3 | 3.5.39 | / | / | / |
| RF Control Unit | Tonscend | JS0806-2 | EST-E134 | LISAI | June 11,25 | June 10,26 |
| Signal and Spectrum Analyzer | Keysight | N9010B | EST-E141 | LISAI | June 11,25 | June 10,26 |

# 3.6dB Bandwidth

## 3.1.Limit

Systems using digital modulation techniques operate in the 2400-2483.5 MHz,the minimum 6 dB bandwidth shall be at least 500 kHz.

## 3.2.Test Setup

## 3.3.Spectrum Analyzer Setting

| Spectrum Parameters | Setting |
|---|---|
| RBW | 100KHz |
| VBW | 300KHz |
| Span | 3MHz |
| Sweep Time | Auto |
| Detector | Peak |
| Trace Mode | Max Hold |

## 3.4.Test Procedure

a. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
b. Spectrum analyzer setting parameters in accordance with section 3.3.
c. Set the EUT transmit continuously with maximum output power.
d. Allow trace to stabilize, use the ndB down function to measure 6dB Bandwidth.
e. Repeat above procedures until all channels were measured.
f. Record the results in the test report.

## 3.5.Test Result

Refer to Appendix A of Appendix FCC ID BLE (the test data).

# 4.MAXIMUM PEAK OUTPUT POWER

## 4.1.Limit

For systems using digital modulation in 2400-2483.5 MHz,the maximum peak output power is 1 Watt(30dBm).

## 4.2.Test Setup

## 4.3.Spectrum Analyzer Setting

| Spectrum Parameters | Setting |
|---|---|
| RBW | ≥DTS Bandwidth |
| VBW | 3*RBW |
| Span | ≥3*DTS Bandwidth |
| Sweep Time | Auto |
| Detector | Peak |
| Trace Mode | Max Hold |

## 4.4.Test Procedure

a. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
b. Spectrum analyzer setting parameters in accordance with section 4.3.
c. Set the EUT transmit continuously with maximum output power.
d. Allow trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission.
e. Repeat above procedures until all channels were measured.
f. Record the results in the test report.

## 4.5.Test Result

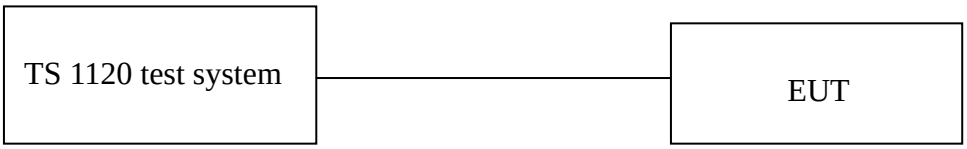
Refer to Appendix B of Appendix FCC ID BLE (the test data).

# 5.POWER SPECTRAL DENSITY

## 5.1.Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

## 5.2.Test Setup




## 5.3.Spectrum Analyzer Setting

| Spectrum Parameters | Setting |
|---|---|
| RBW | 3KHz |
| VBW | 10KHz |
| Span | 1.5 times the DTS bandwidth |
| Sweep Time | Auto |
| Detector | Peak |
| Trace Mode | Max Hold |

## 5.4.Test Procedure

a. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
b. Spectrum analyzer setting parameters in accordance with section 5.3.
c. Set the EUT transmit continuously with maximum output power.
d. Allow trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission.
e. Repeat above procedures until all channels were measured.
f. Record the results in the test report.

## 5.5.Test Result

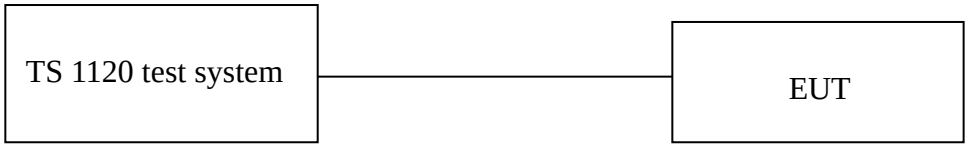
Refer to Appendix C of Appendix FCC ID BLE (the test data).

# 6.CONDUCTED BAND EDGE

## 6.1.Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

## 6.2.Test Setup




## 6.3.Spectrum Analyzer Setting

| Spectrum Parameters | Setting |
|---|---|
| RBW | 100KHz |
| VBW | 300KHz |
| Span | 100MHz |
| Sweep Time | Auto |
| Detector | Peak |
| Trace Mode | Max Hold |

## 6.4.Test Procedure

a. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
b. Spectrum analyzer setting parameters in accordance with section 6.3.
c. Set the EUT transmit continuously with maximum output power.
d. Allow trace to stabilize, use the marker function to mark the highest emission level outside the authorized band.
e. Repeat above procedures until all channels were measured.
f. Record the results in the test report.

## 6.5.Test Result

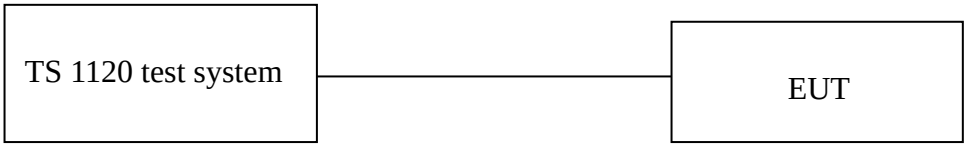
Refer to Appendix D & E of Appendix FCC ID BLE (the test data).

# 7.CONDUCTED SPURIOUS EMISSIONS

## 7.1.Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

## 7.2.Test Setup




## 7.3.Spectrum Analyzer Setting

| Spectrum Parameters | Setting |
|---|---|
| RBW | 100KHz |
| VBW | 300KHz |
| Start frequency | 30MHz |
| Stop frequency | 26.5GHz |
| Sweep Time | Auto |
| Detector | Peak |
| Trace Mode | Max Hold |

## 7.4.Test Procedure

a. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
b. Spectrum analyzer setting parameters in accordance with section 7.3.
c. Set the EUT transmit continuously with maximum output power.
d. Allow trace to stabilize, use the marker function to mark the highest emission level outside the authorized band.
e. Repeat above procedures until all channels were measured.
f. Record the results in the test report.

## 7.5.Test Result

Refer to Appendix D & F of Appendix FCC ID BLE (the test data).

# 8.RADIATED SPURIOUS EMISSIONS AND BAND EDGE

## 8.1.Limit

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

15.205 Restricted frequency band

| MHz | MHz | MHz | 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 - 156.52525 | 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]) |

15.209 Limit

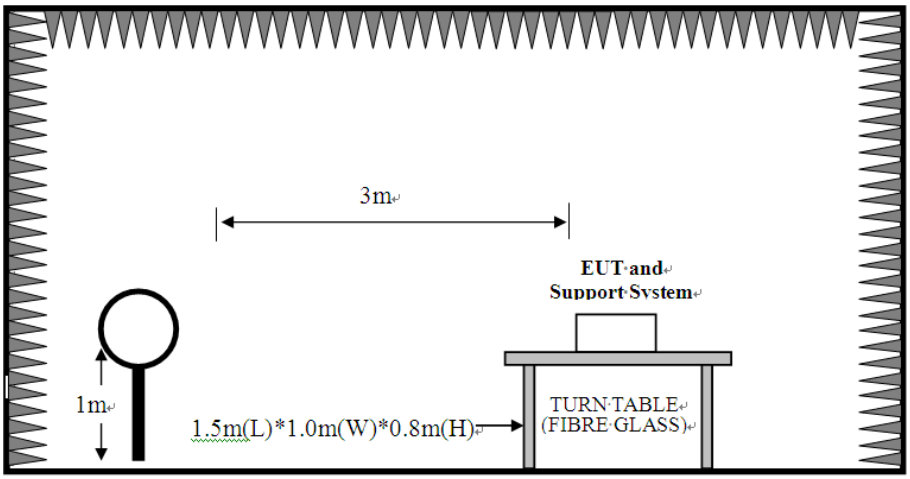
| Frequency (MHz) | Field Strength(μV/m) | Distance(m) |
|---|---|---|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

Note:

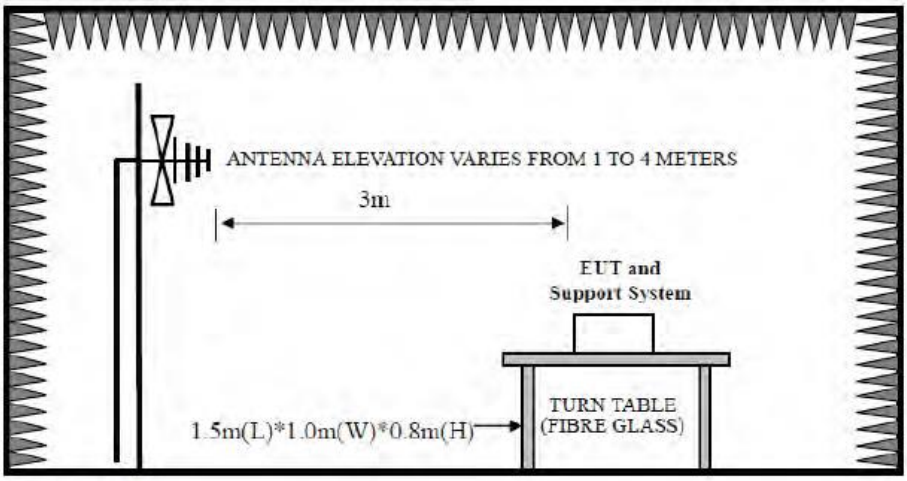
(1) Emission level dBμV = 20 log Emission level μV/m.
(2) The smaller limit shall apply at the cross point between two frequency bands.
(3) Distance is the distance in meters between the measuring instrument,antenna and the closest point of any part of the device or system.

## 8.2.Test Setup

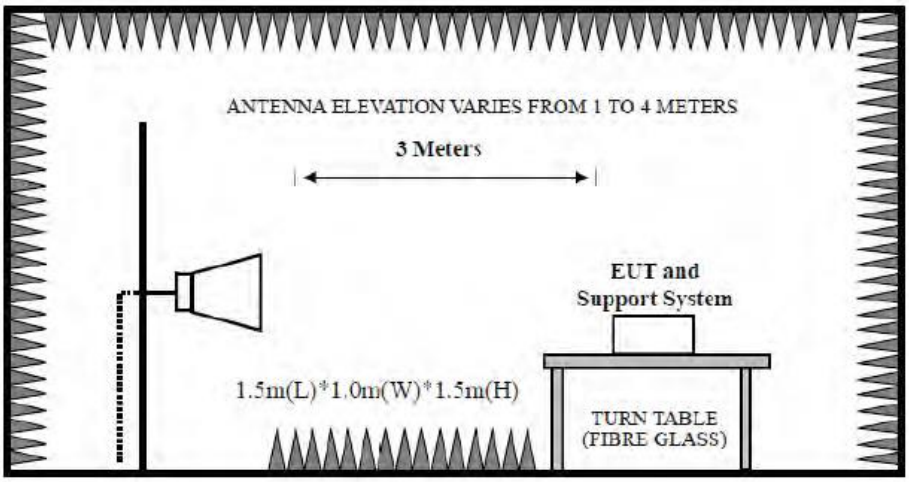
9kHz~30MHz




30~1000MHz




Above 1GHz



## 8.3.Spectrum Analyzer Setting

For 9KHz-150KHz

| Spectrum Parameters | Setting |
|---|---|
| RBW | 300Hz(for Peak&AVG)/CISPR 200Hz(for QP) |
| VBW | 300Hz(for Peak&AVG)/CISPR 200Hz(for QP) |
| Start frequency | 9KHz |
| Stop frequency | 150KHz |
| Sweep Time | Auto |
| Detector | PEAK/QP/AVG |
| Trace Mode | Max Hold |

For 150KHz-30MHz

| Spectrum Parameters | Setting |
|---|---|
| RBW | 9KHz |
| VBW | 9KHz |
| Start frequency | 150KHz |
| Stop frequency | 30MHz |
| Sweep Time | Auto |
| Detector | QP |
| Trace Mode | Max Hold |

For 30MHz-1GHz

| Spectrum Parameters | Setting |
|---|---|
| RBW | 120KHz |
| VBW | 300KHz |
| Start frequency | 30MHz |
| Stop frequency | 1GHz |
| Sweep Time | Auto |
| Detector | QP |
| Trace Mode | Max Hold |

For Above 1GHz

| Spectrum Parameters | Setting | |
|---|---|---|
| RBW | 1MHz | |
| VBW | PEAK Measurement | AVG Measurement |
| | 3MHz | Duty cycle≥98%,VBW=10Hz |
| | | Duty cycle＜98%,VBW≥1/T |
| Start frequency | 1GHz | |
| Stop frequency | 25GHz | |
| Sweep Time | Auto | |
| Detector | PEAK | |
| Trace Mode | Max Hold | |

Note :T is the on-time time of the duty cycle,when EUT transmit continuously with maximum output power,unit is seconds. reference section 2.8 for the on-time time.

## 8.4.Test Procedure

a. EUT was placed on a turn table, which is 0.8 meter high above ground for below 1GHz test, and which is 1.5 meter high above ground for above 1GHz test.
b. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
c. Set the EUT transmit continuously with maximum output power.
d. The turn table can rotate 360 degrees to determine the position of the maximum emission level.
e. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.
f. Spectrum analyzer setting parameters in accordance with section 8.3.
g. Repeat above procedures until all channels were measured.
h. Record the results in the test report.

Note:

1. For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
2. The frequency 2402MHz ,2440MHz and 2480MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.
3. BLE 1Mbps and BLE 2Mbps mode all have been tested, only worse case BLE 1Mbps mode is reported.

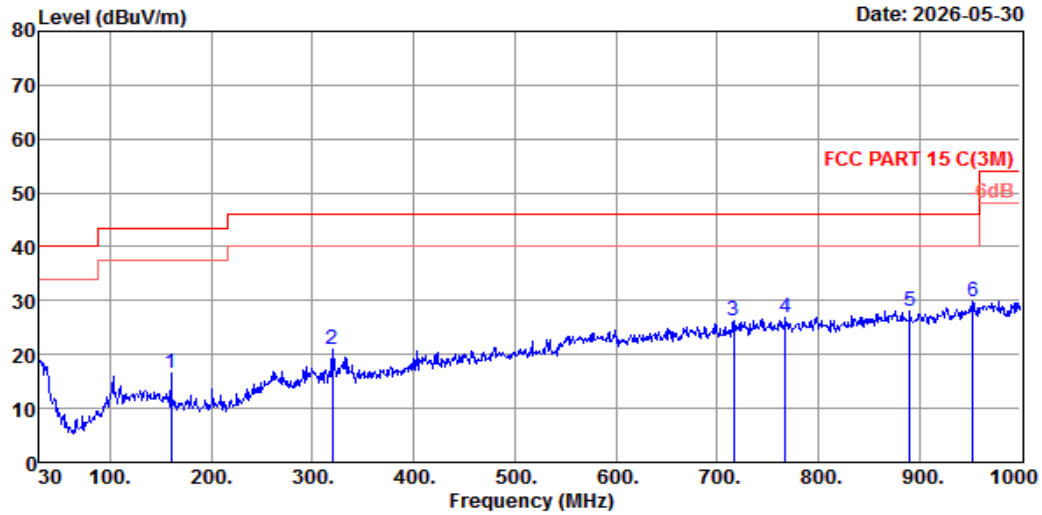
## 8.5.Test Result

### Radiated Emissions Below 1GHz

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878

Data: 1 File: \\EMC-966-2\test data\2026\Report\RF\C\Chen Bei\Core 200S.EM6 (6)




Site no. : 2# 966 chamber Data no. : 1
Dis. / Ant. : 3m 47018 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C(3M)
Env. / Ins. : Temp:26.3℃;Humi:68%;Press:101.5kPa
Engineer : Jonas Ye
EUT : Core 200S-P Smart Air Purifier
Power : AC 120V/60Hz
M/N : Core 200S
Test Mode : TX Mode
Sample No. : EST-260521011-002

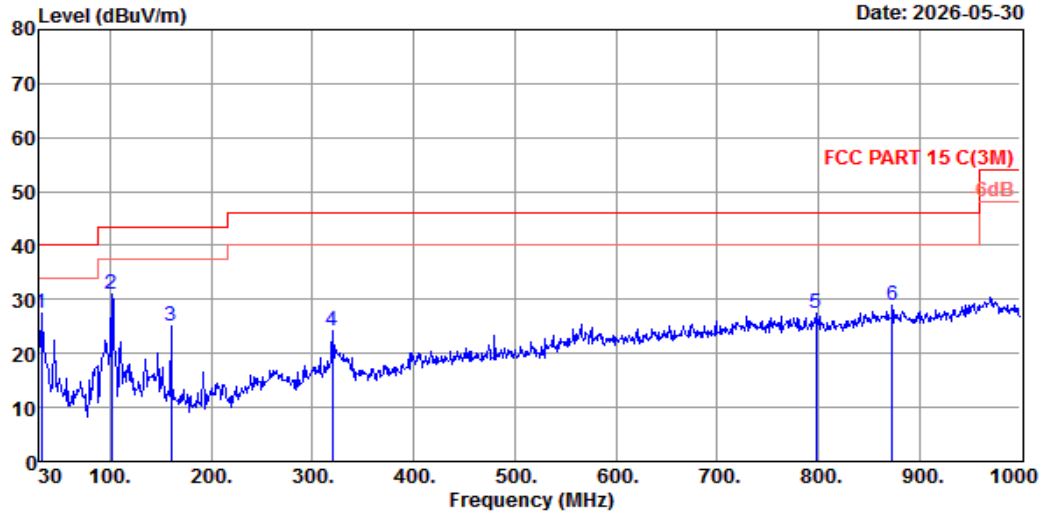
| | Freq. (MHz) | ANT Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|
| 1 | 159.98 | 11.00 | 1.58 | 3.85 | 16.43 | 43.50 | 27.07 | QP |
| 2 | 320.03 | 13.20 | 2.35 | 5.48 | 21.03 | 46.00 | 24.97 | QP |
| 3 | 716.76 | 20.44 | 3.77 | 2.09 | 26.30 | 46.00 | 19.70 | QP |
| 4 | 767.20 | 21.64 | 3.93 | 1.39 | 26.96 | 46.00 | 19.04 | QP |
| 5 | 890.39 | 22.52 | 4.30 | 1.34 | 28.16 | 46.00 | 17.84 | QP |
| 6 | 952.47 | 24.08 | 4.48 | 1.17 | 29.73 | 46.00 | 16.27 | QP |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878

Data: 2 File: \\EMC-966-2\test data\2026\Report\RF\C\Chen Bei\Core 200S.EM6 (6)




Site no. : 2# 966 chamber Data no. : 2
Dis. / Ant. : 3m 47018 Ant. pol. : VERTICAL
Limit : FCC PART 15 C(3M)
Env. / Ins. : Temp:26.3℃;Humi:68%;Press:101.5kPa
Engineer : Jonas Ye
EUT : Core 200S-P Smart Air Purifier
Power : AC 120V/60Hz
M/N : Core 200S
Test Mode : TX Mode
Sample No. : EST-260521011-002

| | Freq. (MHz) | ANT Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|
| 1 | 31.94 | 18.60 | 0.64 | 8.25 | 27.49 | 40.00 | 12.51 | QP |
| 2 | 101.78 | 10.90 | 1.22 | 18.82 | 30.94 | 43.50 | 12.56 | QP |
| 3 | 159.98 | 11.00 | 1.58 | 12.51 | 25.09 | 43.50 | 18.41 | QP |
| 4 | 320.03 | 13.20 | 2.35 | 8.52 | 24.07 | 46.00 | 21.93 | QP |
| 5 | 798.24 | 21.86 | 4.03 | 1.45 | 27.34 | 46.00 | 18.66 | QP |
| 6 | 872.93 | 22.71 | 4.25 | 1.90 | 28.86 | 46.00 | 17.14 | QP |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Note:

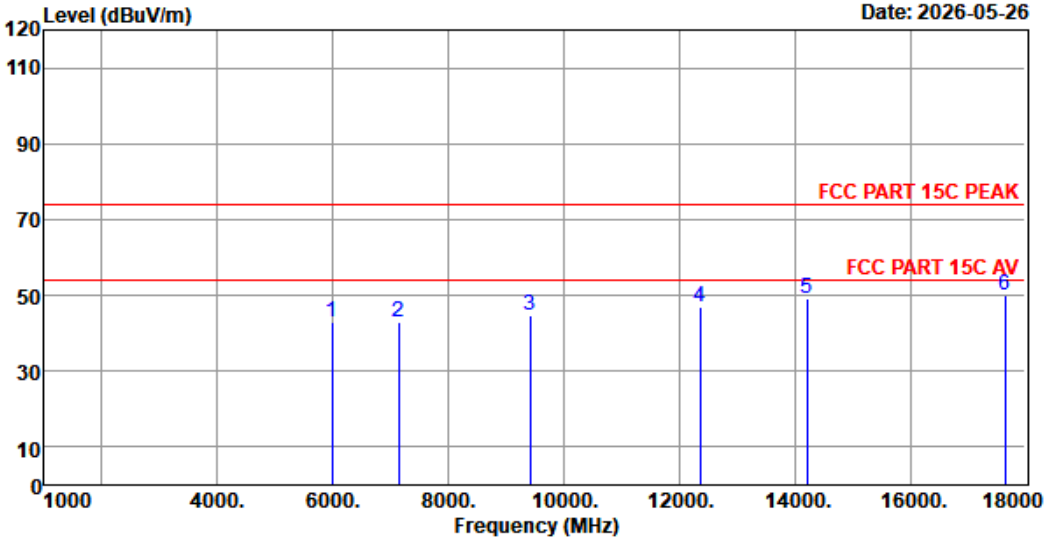
1. The amplitude of 9KHz to 30MHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
2. All channels had been pre-test,only the worst case was reported.

# Radiated Emissions Above 1G

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878

Data: 39 File: \\EMC-966-1\test data\2026\REPORT\RF\C\Chen Bei\Core 200S.EM6 (44)




Site no. : 1# 966 Chamber Data no. : 39
Dis. / Ant. : 3m 9120D-2667 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:20.3°C;Humi:49%;Press:101.55kPa
Engineer : Aron Zhang
EUT : Core 200S-P Smart Air Purifier
Power : AC 120V/60Hz
M/N : Core 200S
Test Mode : GFSK 1Mbps TX 2402MHz
Sample No. : EST-260521011-002

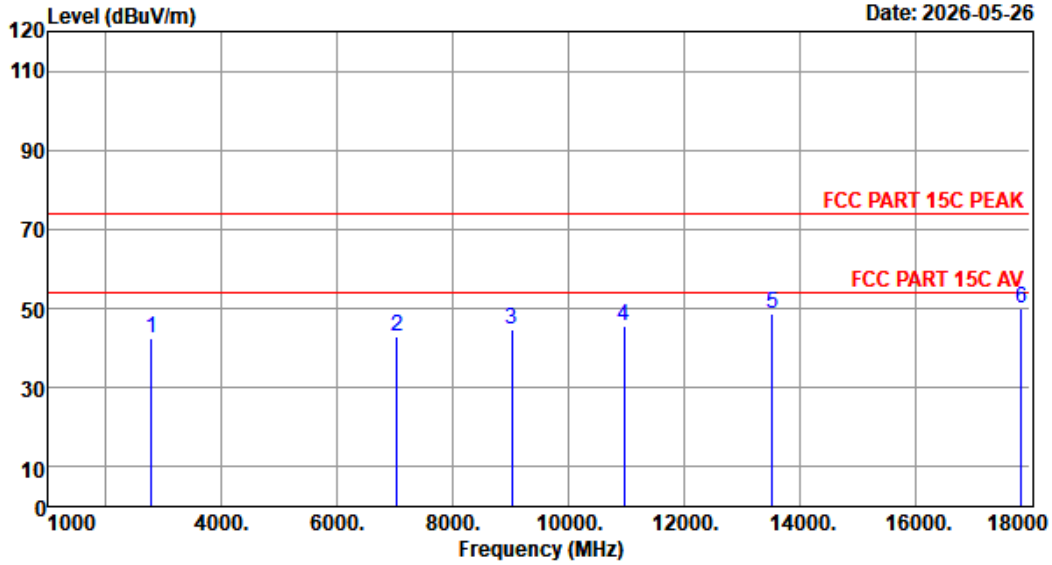
| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5981.00 | 33.75 | 5.87 | 43.40 | 46.63 | 42.85 | 74.00 | 31.15 | Peak |
| 2 | 7137.00 | 36.53 | 6.68 | 43.37 | 43.26 | 43.10 | 74.00 | 30.90 | Peak |
| 3 | 9415.00 | 38.78 | 7.49 | 42.88 | 41.42 | 44.81 | 74.00 | 29.19 | Peak |
| 4 | 12356.00 | 39.31 | 9.10 | 40.47 | 39.01 | 46.95 | 74.00 | 27.05 | Peak |
| 5 | 14209.00 | 40.01 | 10.39 | 40.37 | 38.93 | 48.96 | 74.00 | 25.04 | Peak |
| 6 | 17643.00 | 39.74 | 12.97 | 41.79 | 39.12 | 50.04 | 74.00 | 23.96 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878

Data: 40 File: \\EMC-966-1\test data\2026\REPORT\RF\C\Chen Bei\Core 200S.EM6 (44)




Site no. : 1# 966 Chamber Data no. : 40
Dis. / Ant. : 3m 9120D-2667 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:20.3°C;Humi:49%;Press:101.55kPa
Engineer : Aron Zhang
EUT : Core 200S-P Smart Air Purifier
Power : AC 120V/60Hz
M/N : Core 200S
Test Mode : GFSK 1Mbps TX 2402MHz
Sample No. : EST-260521011-002

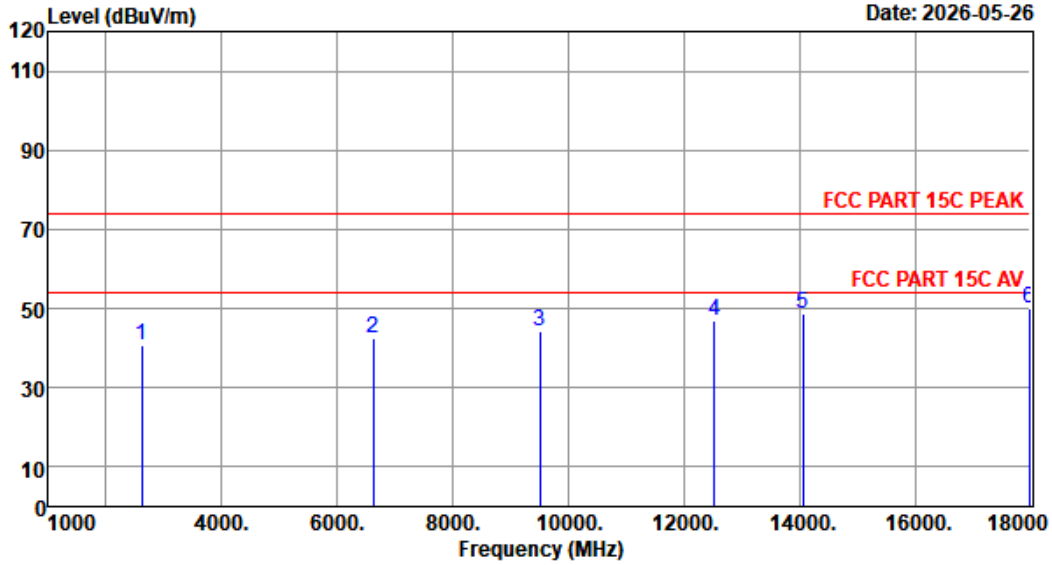
| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2785.00 | 28.73 | 3.84 | 43.66 | 53.68 | 42.59 | 74.00 | 31.41 | Peak |
| 2 | 7035.00 | 36.30 | 6.65 | 43.39 | 43.35 | 42.91 | 74.00 | 31.09 | Peak |
| 3 | 9024.00 | 38.12 | 7.08 | 42.99 | 42.34 | 44.55 | 74.00 | 29.45 | Peak |
| 4 | 10962.00 | 39.52 | 8.75 | 42.02 | 39.43 | 45.68 | 74.00 | 28.32 | Peak |
| 5 | 13529.00 | 40.08 | 9.85 | 39.71 | 38.28 | 48.50 | 74.00 | 25.50 | Peak |
| 6 | 17847.00 | 41.14 | 13.01 | 41.57 | 37.30 | 49.88 | 74.00 | 24.12 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878

Data: 41 File: \\EMC-966-1\test data\2026\REPORT\RF\C\Chen Bei\Core 200S.EM6 (44)




Site no. : 1# 966 Chamber Data no. : 41
Dis. / Ant. : 3m 9120D-2667 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:20.3°C;Humi:49%;Press:101.55kPa
Engineer : Aron Zhang
EUT : Core 200S-P Smart Air Purifier
Power : AC 120V/60Hz
M/N : Core 200S
Test Mode : GFSK 1Mbps TX 2440MHz
Sample No. : EST-260521011-002

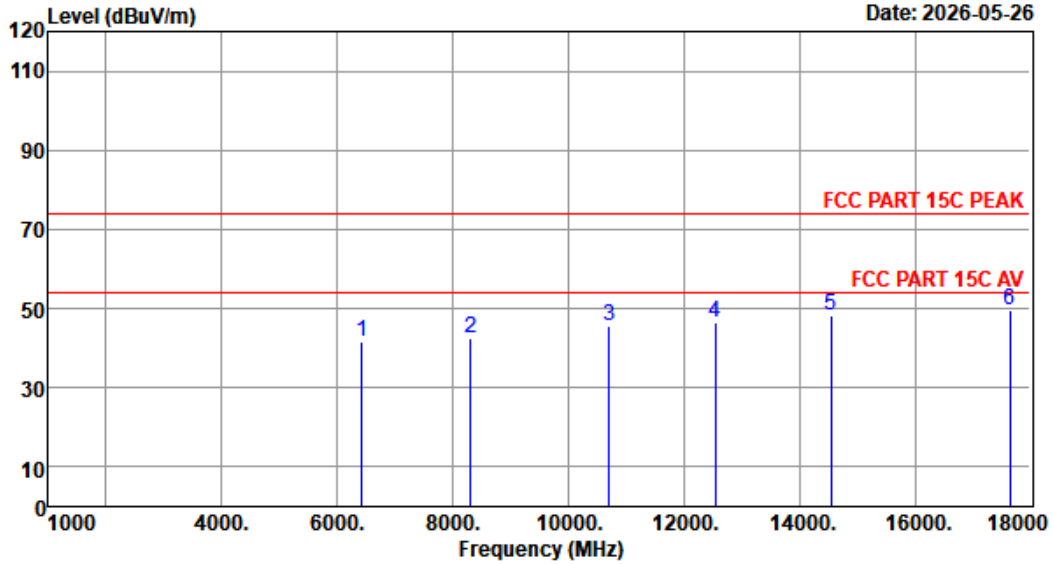
| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2615.00 | 28.15 | 3.69 | 43.87 | 52.77 | 40.74 | 74.00 | 33.26 | Peak |
| 2 | 6627.00 | 35.57 | 6.36 | 43.40 | 43.85 | 42.38 | 74.00 | 31.62 | Peak |
| 3 | 9500.00 | 38.70 | 7.59 | 42.85 | 40.90 | 44.34 | 74.00 | 29.66 | Peak |
| 4 | 12526.00 | 39.54 | 9.19 | 40.21 | 38.34 | 46.86 | 74.00 | 27.14 | Peak |
| 5 | 14056.00 | 39.85 | 10.26 | 40.02 | 38.41 | 48.50 | 74.00 | 25.50 | Peak |
| 6 | 17983.00 | 42.08 | 13.04 | 41.42 | 36.46 | 50.16 | 74.00 | 23.84 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878

Data: 42 File: \\EMC-966-1\test data\2026\REPORT\RF\C\Chen Bei\Core 200S.EM6 (44)




Site no. : 1# 966 Chamber Data no. : 42
Dis. / Ant. : 3m 9120D-2667 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:20.3°C;Humi:49%;Press:101.55kPa
Engineer : Aron Zhang
EUT : Core 200S-P Smart Air Purifier
Power : AC 120V/60Hz
M/N : Core 200S
Test Mode : GFSK 1Mbps TX 2440MHz
Sample No. : EST-260521011-002

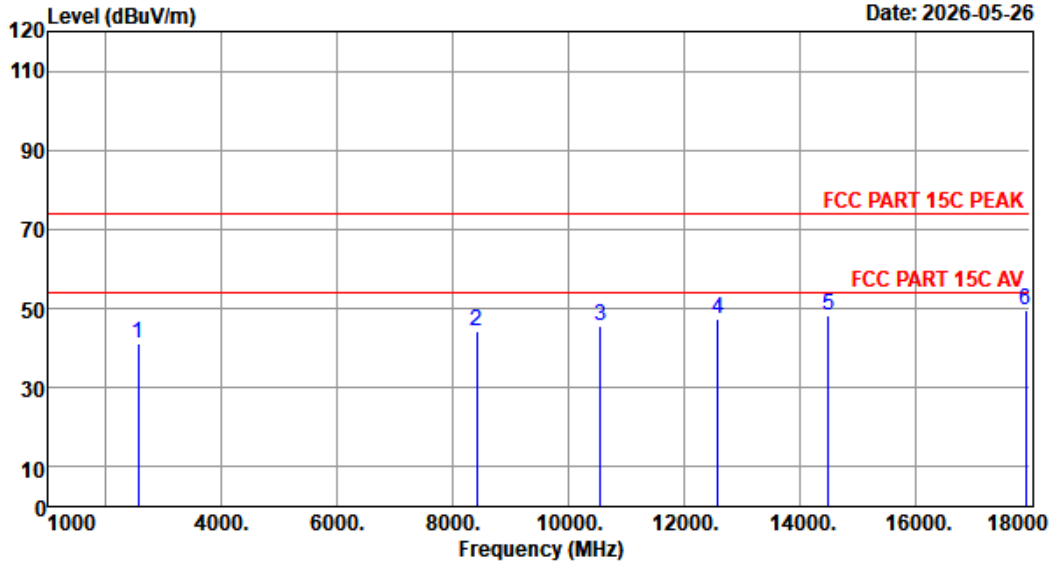
| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 6423.00 | 34.85 | 6.20 | 43.40 | 44.04 | 41.69 | 74.00 | 32.31 | Peak |
| 2 | 8310.00 | 36.93 | 6.98 | 43.14 | 41.74 | 42.51 | 74.00 | 31.49 | Peak |
| 3 | 10707.00 | 38.96 | 8.58 | 42.20 | 40.15 | 45.49 | 74.00 | 28.51 | Peak |
| 4 | 12543.00 | 39.56 | 9.20 | 40.19 | 38.04 | 46.61 | 74.00 | 27.39 | Peak |
| 5 | 14549.00 | 40.22 | 10.66 | 41.15 | 38.52 | 48.25 | 74.00 | 25.75 | Peak |
| 6 | 17643.00 | 39.74 | 12.97 | 41.79 | 38.47 | 49.39 | 74.00 | 24.61 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878

Data: 43 File: \\EMC-966-1\test data\2026\REPORT\RF\C\Chen Bei\Core 200S.EM6 (44)




Site no. : 1# 966 Chamber Data no. : 43
Dis. / Ant. : 3m 9120D-2667 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:20.3°C;Humi:49%;Press:101.55kPa
Engineer : Aron Zhang
EUT : Core 200S-P Smart Air Purifier
Power : AC 120V/60Hz
M/N : Core 200S
Test Mode : GFSK 1Mbps TX 2480MHz
Sample No. : EST-260521011-002

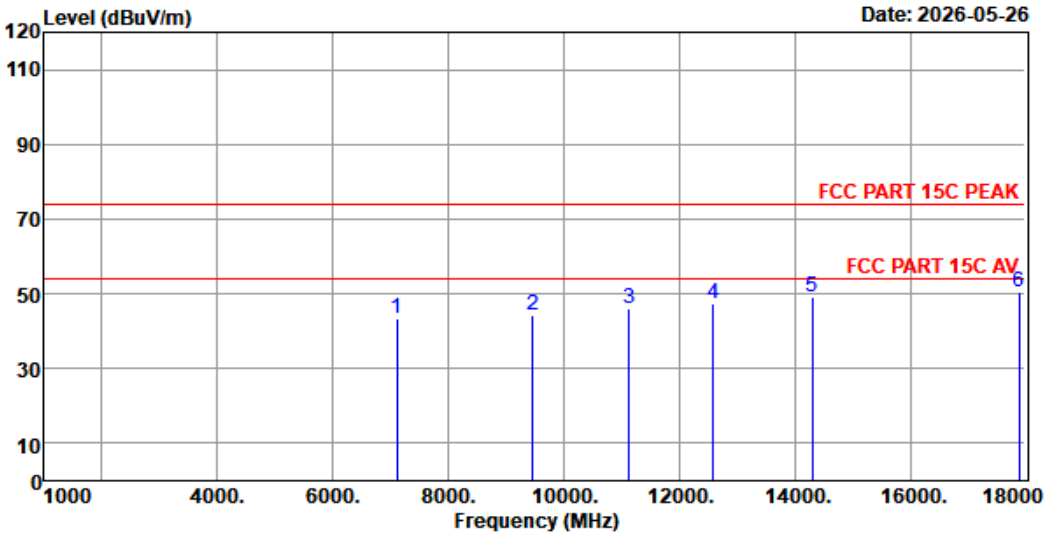
| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2547.00 | 27.95 | 3.63 | 43.95 | 53.34 | 40.97 | 74.00 | 33.03 | Peak |
| 2 | 8412.00 | 37.62 | 6.99 | 43.12 | 42.69 | 44.18 | 74.00 | 29.82 | Peak |
| 3 | 10554.00 | 38.61 | 8.48 | 42.31 | 40.61 | 45.39 | 74.00 | 28.61 | Peak |
| 4 | 12594.00 | 39.62 | 9.22 | 40.11 | 38.48 | 47.21 | 74.00 | 26.79 | Peak |
| 5 | 14498.00 | 40.30 | 10.62 | 41.03 | 38.26 | 48.15 | 74.00 | 25.85 | Peak |
| 6 | 17915.00 | 41.61 | 13.02 | 41.49 | 36.37 | 49.51 | 74.00 | 24.49 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878

Data: 44 File: \\EMC-966-1\test data\2026\REPORT\RF\C\Chen Bei\Core 200S.EM6 (44)




Site no. : 1# 966 Chamber Data no. : 44
Dis. / Ant. : 3m 9120D-2667 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:20.3°C;Humi:49%;Press:101.55kPa
Engineer : Aron Zhang
EUT : Core 200S-P Smart Air Purifier
Power : AC 120V/60Hz
M/N : Core 200S
Test Mode : GFSK 1Mbps TX 2480MHz
Sample No. : EST-260521011-002

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 7103.00 | 36.70 | 6.67 | 43.38 | 43.51 | 43.50 | 74.00 | 30.50 | Peak |
| 2 | 9466.00 | 38.73 | 7.55 | 42.86 | 40.97 | 44.39 | 74.00 | 29.61 | Peak |
| 3 | 11132.00 | 39.41 | 8.79 | 41.86 | 39.62 | 45.96 | 74.00 | 28.04 | Peak |
| 4 | 12594.00 | 39.62 | 9.22 | 40.11 | 38.52 | 47.25 | 74.00 | 26.75 | Peak |
| 5 | 14311.00 | 40.11 | 10.47 | 40.60 | 39.00 | 48.98 | 74.00 | 25.02 | Peak |
| 6 | 17881.00 | 41.38 | 13.02 | 41.53 | 37.72 | 50.59 | 74.00 | 23.41 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

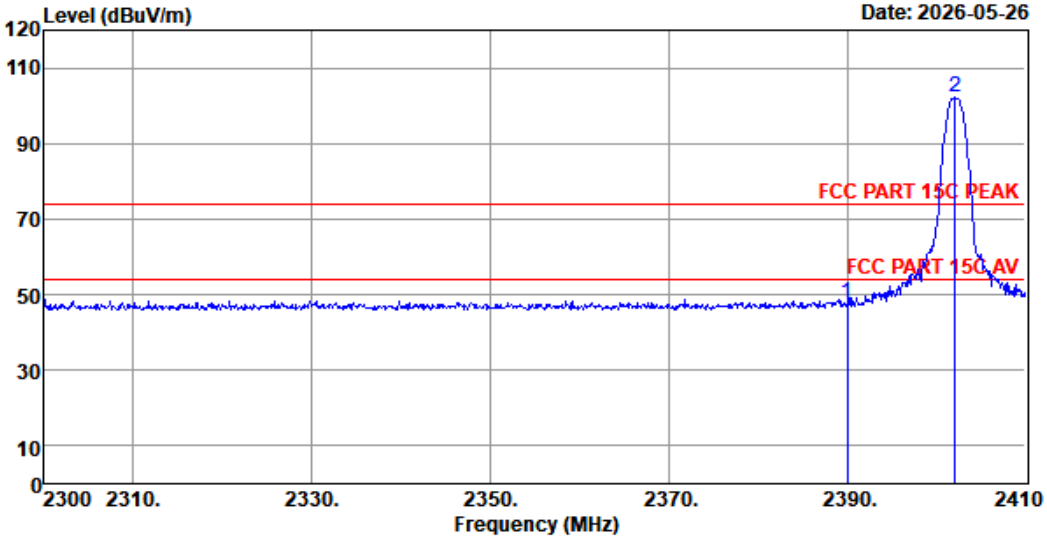
Note: The amplitude of 18GHz to 25GHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

# Radiated Band Edge

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878

Data: 1 File: \\EMC-966-1\test data\2026\REPORT\RF\C\Chen Bei\Core 200S.EM6 (44)




Site no. : 1# 966 Chamber Data no. : 1
Dis. / Ant. : 3m 9120D-2667 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:20.3°C;Humi:49%;Press:101.55kPa
Engineer : Aron Zhang
EUT : Core 200S-P Smart Air Purifier
Power : AC 120V/60Hz
M/N : Core 200S
Test Mode : GFSK 1Mbps TX 2402MHz
Sample No. : EST-260521011-002

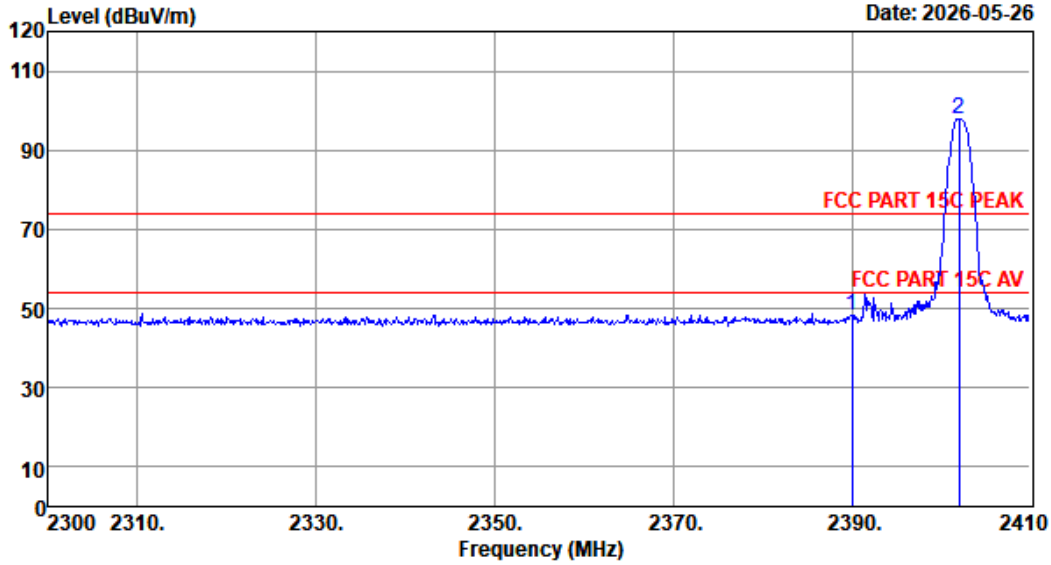
| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2390.00 | 27.30 | 3.49 | 44.13 | 61.36 | 48.02 | 74.00 | 25.98 | Peak |
| 2 | 2402.08 | 27.30 | 3.49 | 44.13 | 115.51 | 102.17 | 74.00 | -28.17 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878

Data: 2 File: \\EMC-966-1\test data\2026\REPORT\RF\C\Chen Bei\Core 200S.EM6 (44)




Site no. : 1# 966 Chamber Data no. : 2
Dis. / Ant. : 3m 9120D-2667 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:20.3°C;Humi:49%;Press:101.55kPa
Engineer : Aron Zhang
EUT : Core 200S-P Smart Air Purifier
Power : AC 120V/60Hz
M/N : Core 200S
Test Mode : GFSK 1Mbps TX 2402MHz
Sample No. : EST-260521011-002

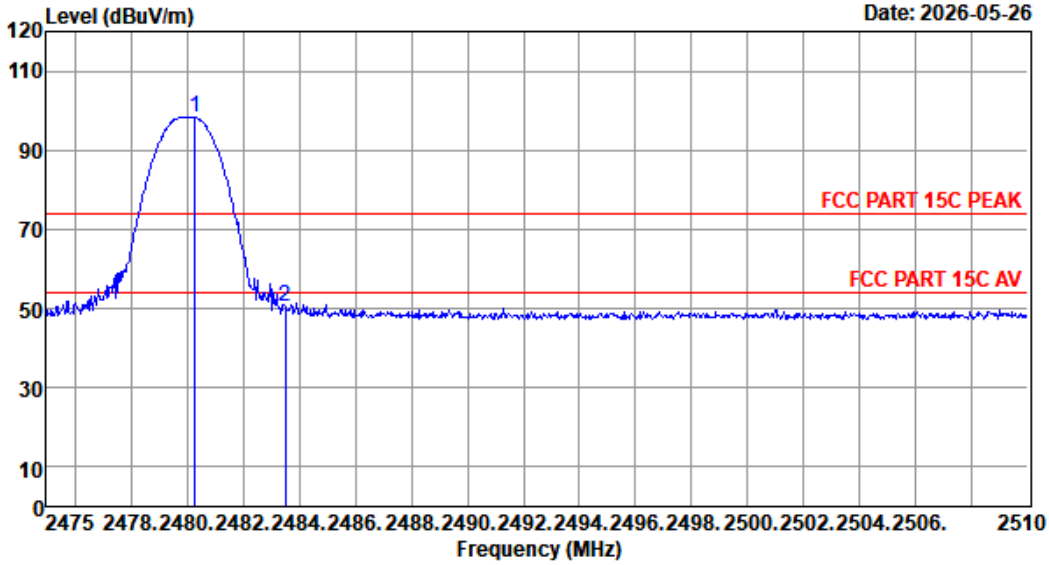
| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2390.00 | 27.30 | 3.49 | 44.13 | 61.39 | 48.05 | 74.00 | 25.95 | Peak |
| 2 | 2401.97 | 27.30 | 3.49 | 44.13 | 111.16 | 97.82 | 74.00 | -23.82 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878

Data: 3 File: \\EMC-966-1\test data\2026\REPORT\RF\C\Chen Bei\Core 200S.EM6 (44)




Site no. : 1# 966 Chamber Data no. : 3
Dis. / Ant. : 3m 9120D-2667 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:20.3°C;Humi:49%;Press:101.55kPa
Engineer : Aron Zhang
EUT : Core 200S-P Smart Air Purifier
Power : AC 120V/60Hz
M/N : Core 200S
Test Mode : GFSK 1Mbps TX 2480MHz
Sample No. : EST-260521011-002

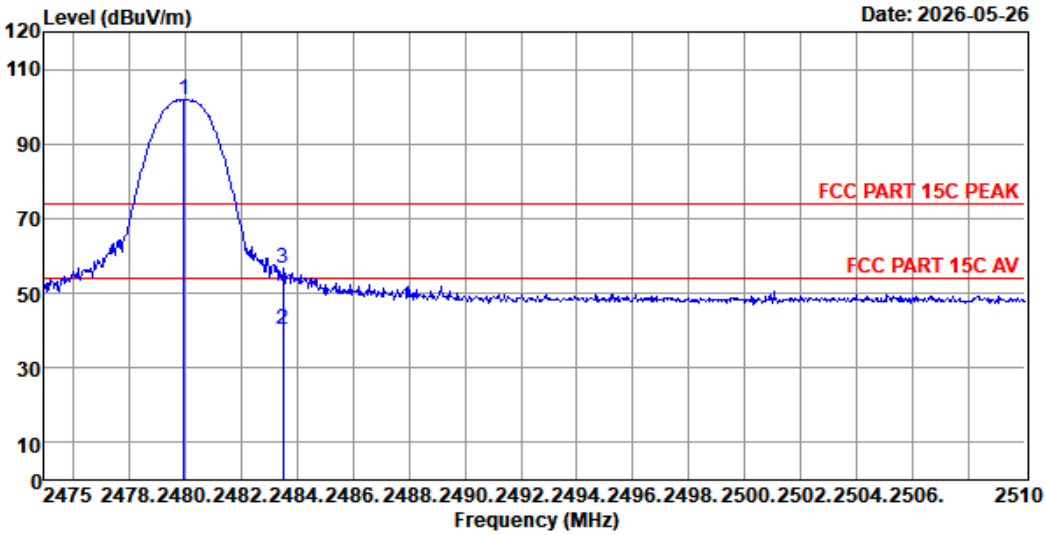
| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2480.29 | 27.63 | 3.57 | 44.03 | 111.18 | 98.35 | 74.00 | -24.35 | Peak |
| 2 | 2483.50 | 27.63 | 3.57 | 44.03 | 63.43 | 50.60 | 74.00 | 23.40 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878

Data: 4 File: \\EMC-966-1\test data\2026\REPORT\RF\C\Chen Bei\Core 200S.EM6 (44)




Site no. : 1# 966 Chamber Data no. : 4
Dis. / Ant. : 3m 9120D-2667 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:20.3°C;Humi:49%;Press:101.55kPa
Engineer : Aron Zhang
EUT : Core 200S-P Smart Air Purifier
Power : AC 120V/60Hz
M/N : Core 200S
Test Mode : GFSK 1Mbps TX 2480MHz
Sample No. : EST-260521011-002

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2479.97 | 27.63 | 3.57 | 44.03 | 114.65 | 101.82 | 74.00 | -27.82 | Peak |
| 2 | 2483.50 | 27.63 | 3.57 | 44.03 | 53.14 | 40.31 | 54.00 | 13.69 | Average |
| 3 | 2483.50 | 27.63 | 3.57 | 44.03 | 69.32 | 56.49 | 74.00 | 17.51 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Note: All channels had been pre-test,only of the worst case channels were reported.

# 9.AC POWER LINE CONDUCTED EMISSIONS

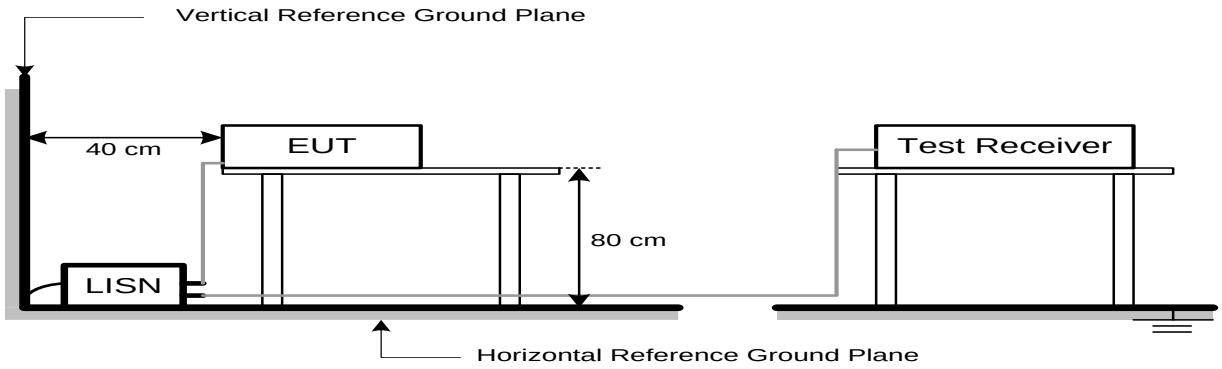
## 9.1.Limit

| Frequency | | | Maximum RF Line Voltage | |
|---|---|---|---|---|
| | | | Quasi-Peak Level dB(μV) | Average Level dB(μV) |
| 150kHz | ~ | 500kHz | 66 ~ 56* | 56 ~ 46* |
| 500kHz | ~ | 5MHz | 56 | 46 |
| 5MHz | ~ | 30MHz | 60 | 50 |

Note:

1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

## 9.2.Test Setup




## 9.3.Spectrum Analyzer Setting

| Spectrum Parameters | Setting |
|---|---|
| RBW | 9KHz |
| VBW | 9KHz |
| Start frequency | 150KHz |
| Stop frequency | 30MHz |
| Sweep Time | Auto |
| Detector | QP/AVG |
| Trace Mode | Max Hold |

## 9.4.Test Procedure

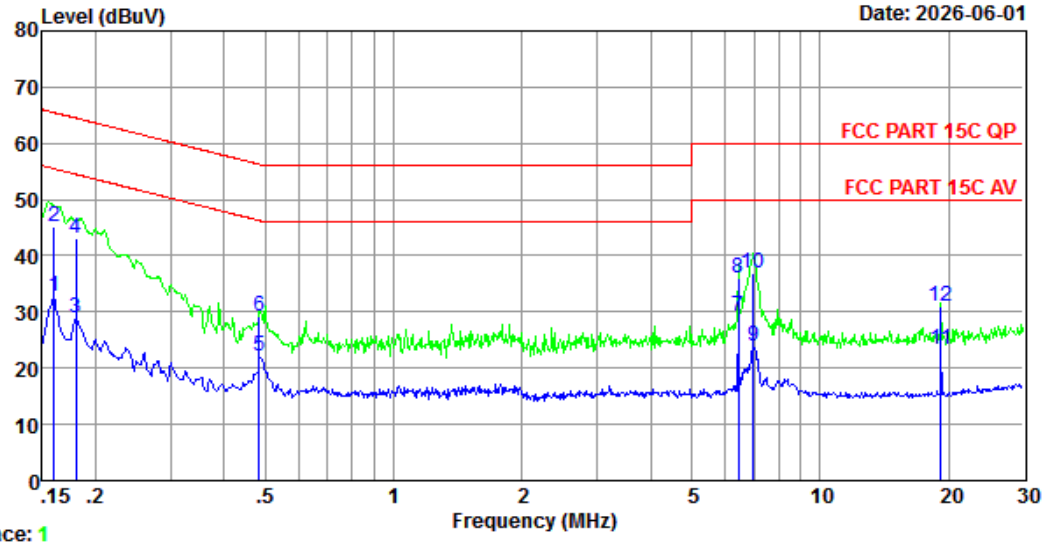
a. The EUT was placed on a non-metallic table, 80cm above the ground plane.
b. The EUT Power connected to the power mains through a line impedance stabilization network.
c. Provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs).
d. Set the EUT transmit continuously with maximum output power.
e. Spectrum analyzer setting parameters in accordance with section 9.3.
f. The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2020 on Conducted Emission Test.
g. Record the results in the test report.

## 9.5. Test Result

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878

Data: 2 File: \\CE-2\Test Data\2026\Report\RF\C\Chenbei\Core 200S.EM6 (12)




Trace: 1

Site no : 2#CE Shield Room Data no. : 2
Env. / Ins. : Temp:24.5℃ Humi:51% Press:101.10kPa LINE Phase : LINE
Limit : FCC PART 15C QP
Engineer : Micheal Huang
EUT : Core 200S-P Smart Air Purifier
Power : AC 120V/60Hz
M/N : Core 200S
Test Mode : TX Mode
Sample No. : EST-260521011-002

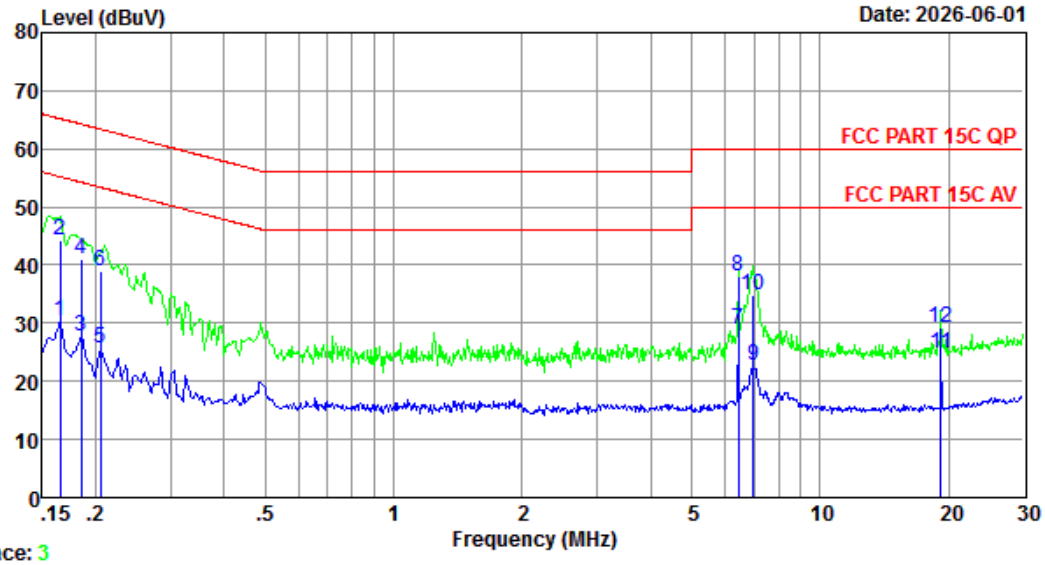
| | Freq. (MHz) | LISN Factor (db) | Cable Loss (db) | Reading dBuV) | Emission Level (dBuv) | Limits (dBuv) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.16 | 9.94 | 9.83 | 13.13 | 32.90 | 55.47 | 22.57 | Average |
| 2 | 0.16 | 9.94 | 9.83 | 25.52 | 45.29 | 65.47 | 20.18 | QP |
| 3 | 0.18 | 9.92 | 9.85 | 9.19 | 28.96 | 54.50 | 25.54 | Average |
| 4 | 0.18 | 9.92 | 9.85 | 23.43 | 43.20 | 64.50 | 21.30 | QP |
| 5 | 0.48 | 9.85 | 9.84 | 2.37 | 22.06 | 46.27 | 24.21 | Average |
| 6 | 0.48 | 9.85 | 9.84 | 9.52 | 29.21 | 56.27 | 27.06 | QP |
| 7 | 6.42 | 9.67 | 10.01 | 9.49 | 29.17 | 50.00 | 20.83 | Average |
| 8 | 6.42 | 9.67 | 10.01 | 16.24 | 35.92 | 60.00 | 24.08 | QP |
| 9 | 6.99 | 9.66 | 10.02 | 4.36 | 24.04 | 50.00 | 25.96 | Average |
| 10 | 6.99 | 9.66 | 10.02 | 17.26 | 36.94 | 60.00 | 23.06 | QP |
| 11 | 19.22 | 9.57 | 10.19 | 3.65 | 23.41 | 50.00 | 26.59 | Average |
| 12 | 19.22 | 9.57 | 10.19 | 11.29 | 31.05 | 60.00 | 28.95 | QP |

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878

Data: 4 File: \\CE-2\Test Data\2026\Report\RF\C\Chenbei\Core 200S.EM6 (12)




Trace: 3

Site no : 2#CE Shield Room Data no. : 4
Env. / Ins. : Temp:24.5℃ Humi:51% Press:101.10kPa LINE Phase : NEUTRAL
Limit : FCC PART 15C QP
Engineer : Micheal Huang
EUT : Core 200S-P Smart Air Purifier
Power : AC 120V/60Hz
M/N : Core 200S
Test Mode : TX Mode
Sample No. : EST-260521011-002

| | Freq. (MHz) | LISN Factor (db) | Cable Loss (db) | Reading dBuV) | Emission Level (dBuv) | Limits (dBuv) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.17 | 9.92 | 9.83 | 10.74 | 30.49 | 55.21 | 24.72 | Average |
| 2 | 0.17 | 9.92 | 9.83 | 24.52 | 44.27 | 65.21 | 20.94 | QP |
| 3 | 0.19 | 9.86 | 9.85 | 7.90 | 27.61 | 54.24 | 26.63 | Average |
| 4 | 0.19 | 9.86 | 9.85 | 21.25 | 40.96 | 64.24 | 23.28 | QP |
| 5 | 0.21 | 9.86 | 9.85 | 5.93 | 25.64 | 53.40 | 27.76 | Average |
| 6 | 0.21 | 9.86 | 9.85 | 19.26 | 38.97 | 63.40 | 24.43 | QP |
| 7 | 6.42 | 9.69 | 10.01 | 9.34 | 29.04 | 50.00 | 20.96 | Average |
| 8 | 6.42 | 9.69 | 10.01 | 18.42 | 38.12 | 60.00 | 21.88 | QP |
| 9 | 6.99 | 9.69 | 10.02 | 3.16 | 22.87 | 50.00 | 27.13 | Average |
| 10 | 6.99 | 9.69 | 10.02 | 15.26 | 34.97 | 60.00 | 25.03 | QP |
| 11 | 19.22 | 9.67 | 10.19 | 4.99 | 24.85 | 50.00 | 25.15 | Average |
| 12 | 19.22 | 9.67 | 10.19 | 9.25 | 29.11 | 60.00 | 30.89 | QP |

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

# 10.ANTENNA REQUIREMENTS

## 10.1. Limit

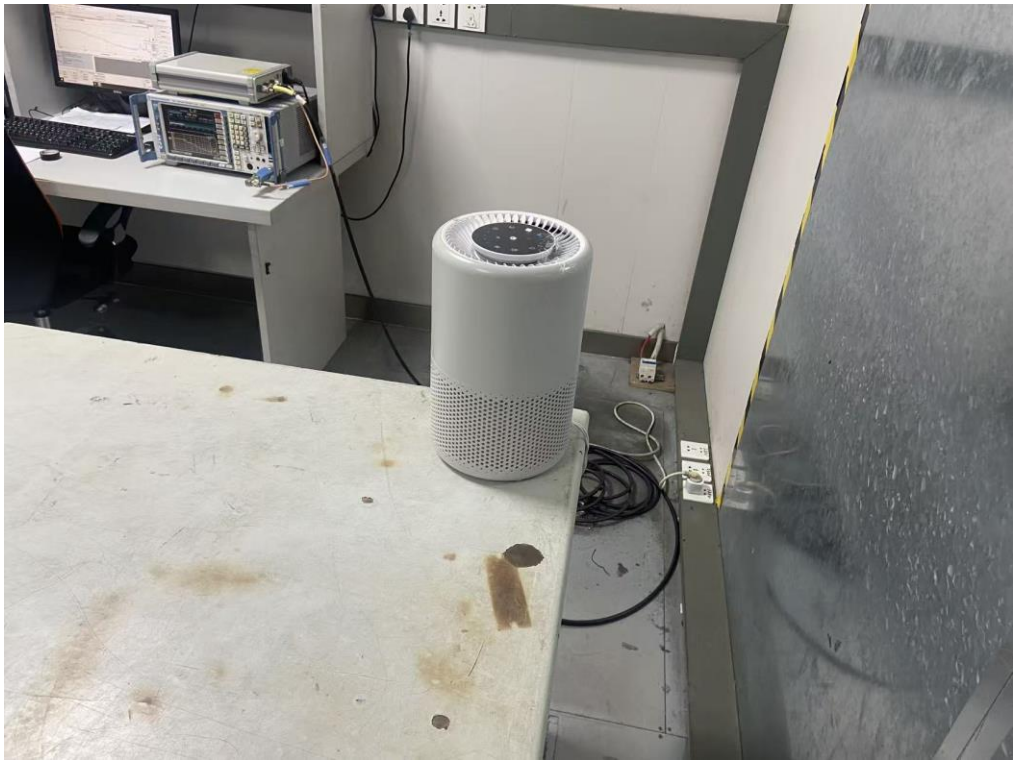
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

## 10.2. Test Result

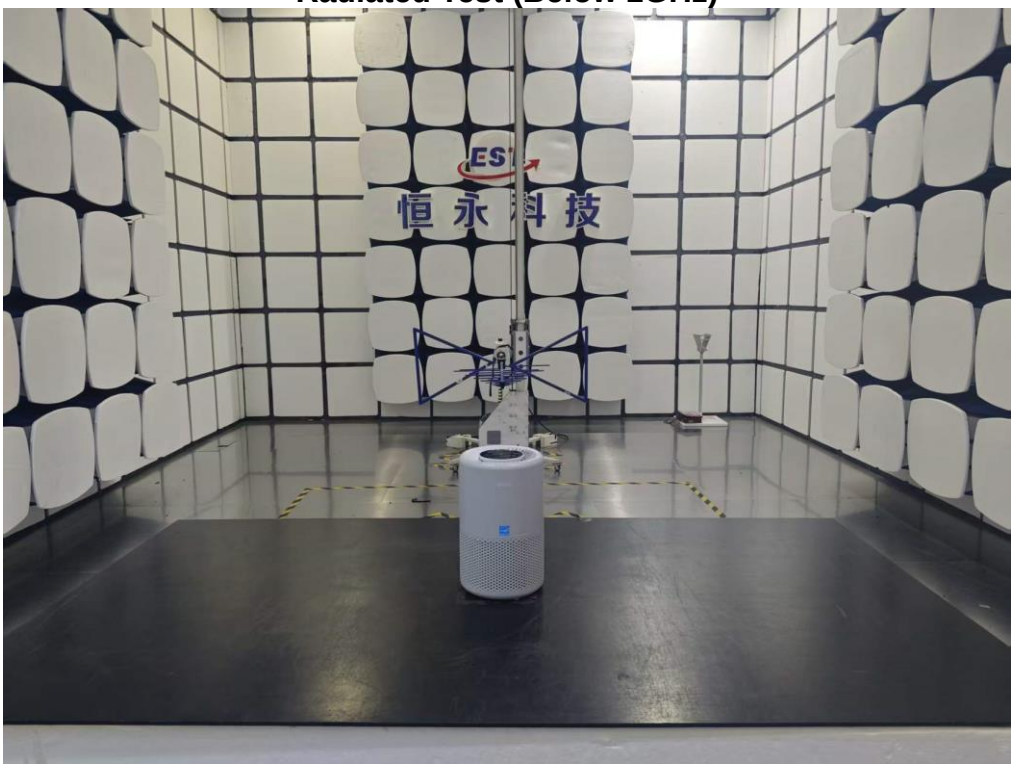
The antennas used for this product is PCB antenna, so compliance with antenna requirements. ( Please refer to the EUT photo for details)

# 11.TEST SETUP PHOTO

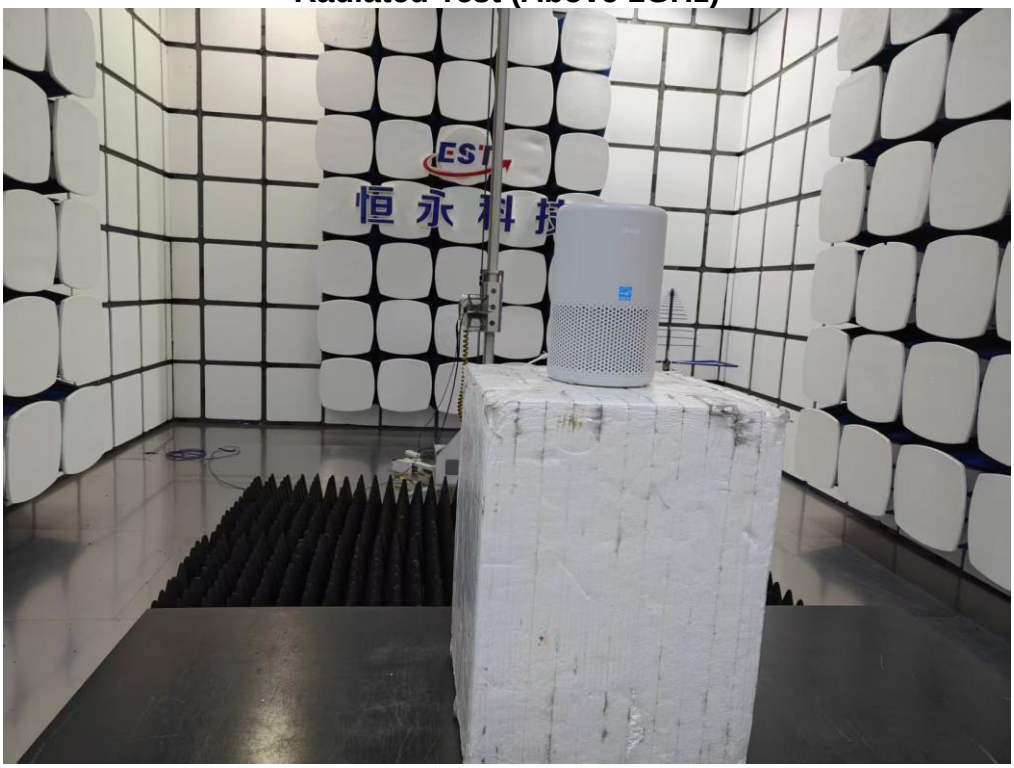
**Conducted Test**



**Radiated Test (Below 1GHz)**




**Radiated Test (Above 1GHz)**



# 12.EUT PHOTO

**External Photos**
M/N: Core 200S

**External Photos**

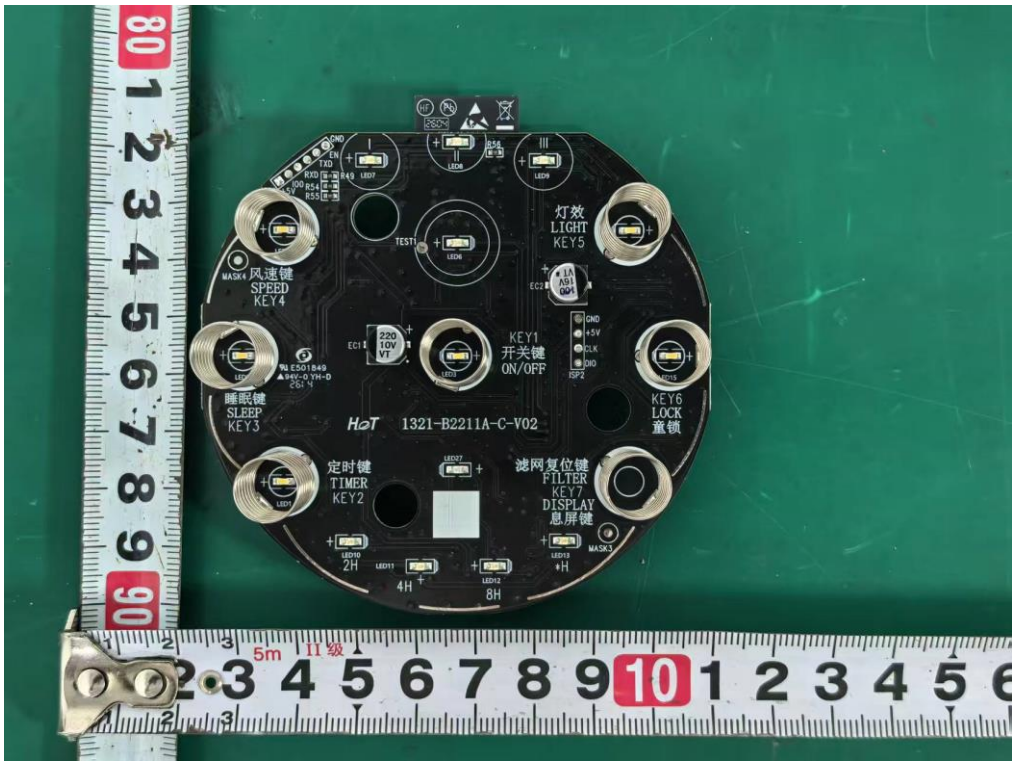
M/N: Core 200S

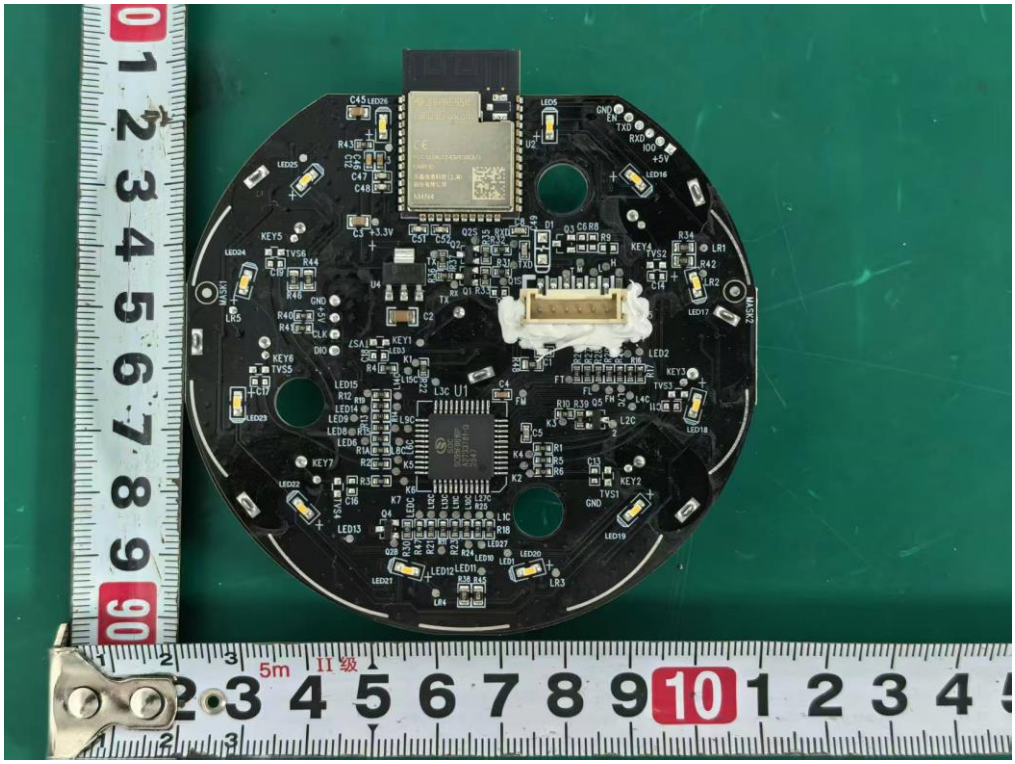
**External Photos**

M/N: Core 200S

**Internal Photos**

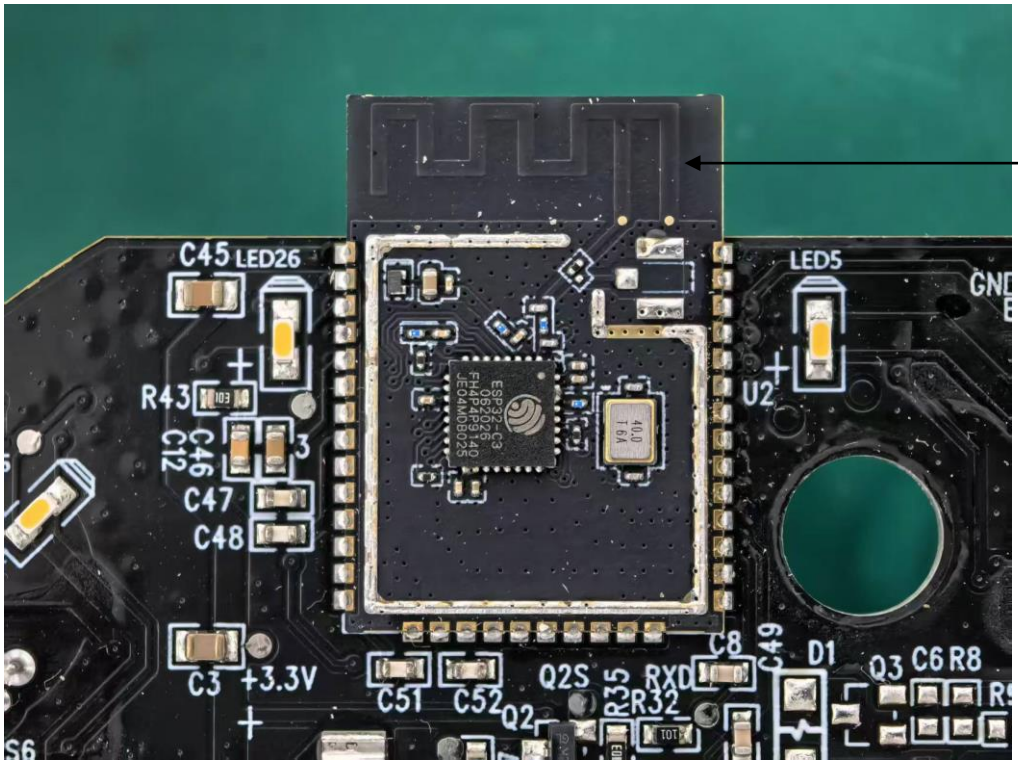
M/N: Core 200S



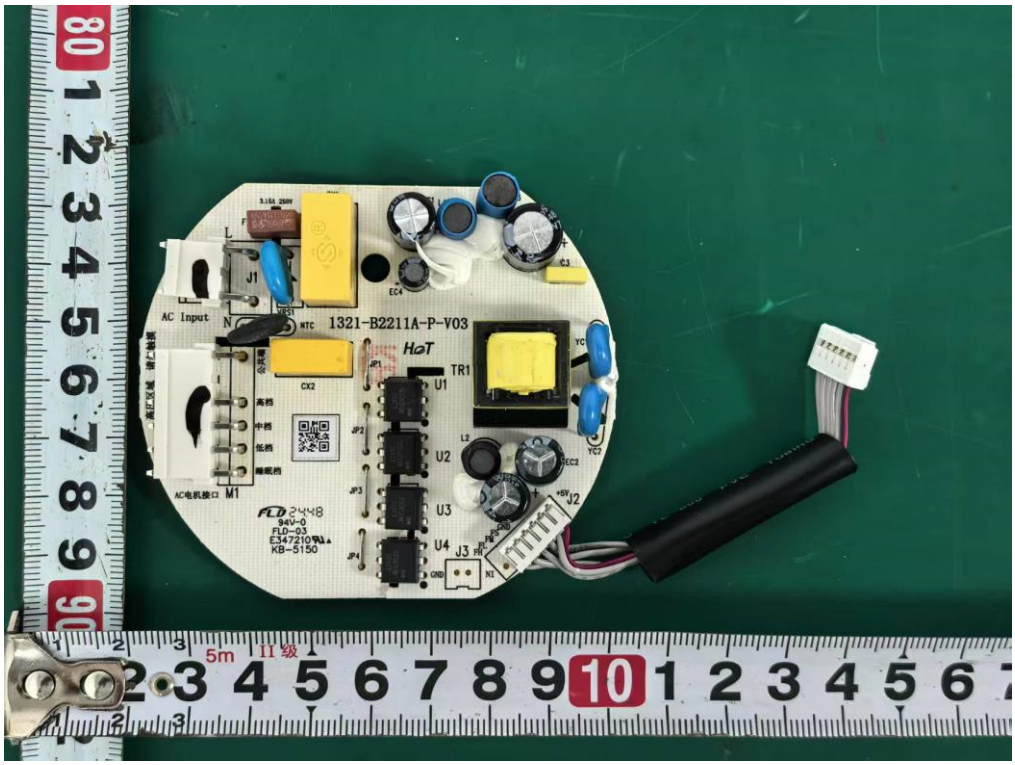
**Internal Photos**

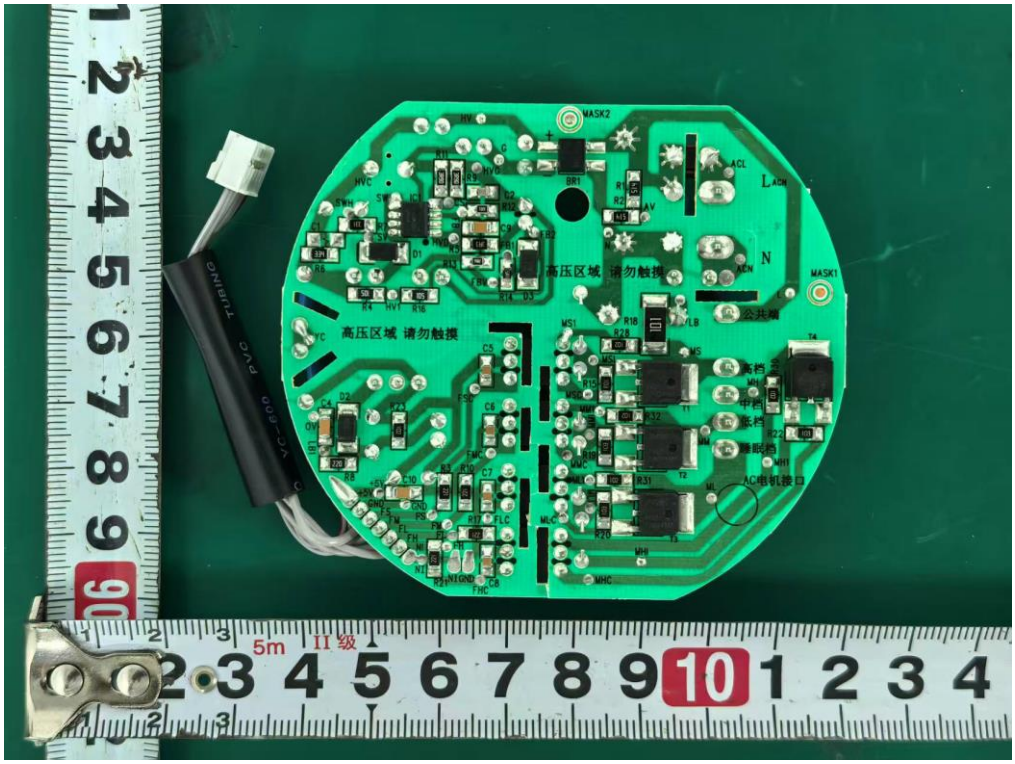
M/N: Core 200S



**Internal Photos**

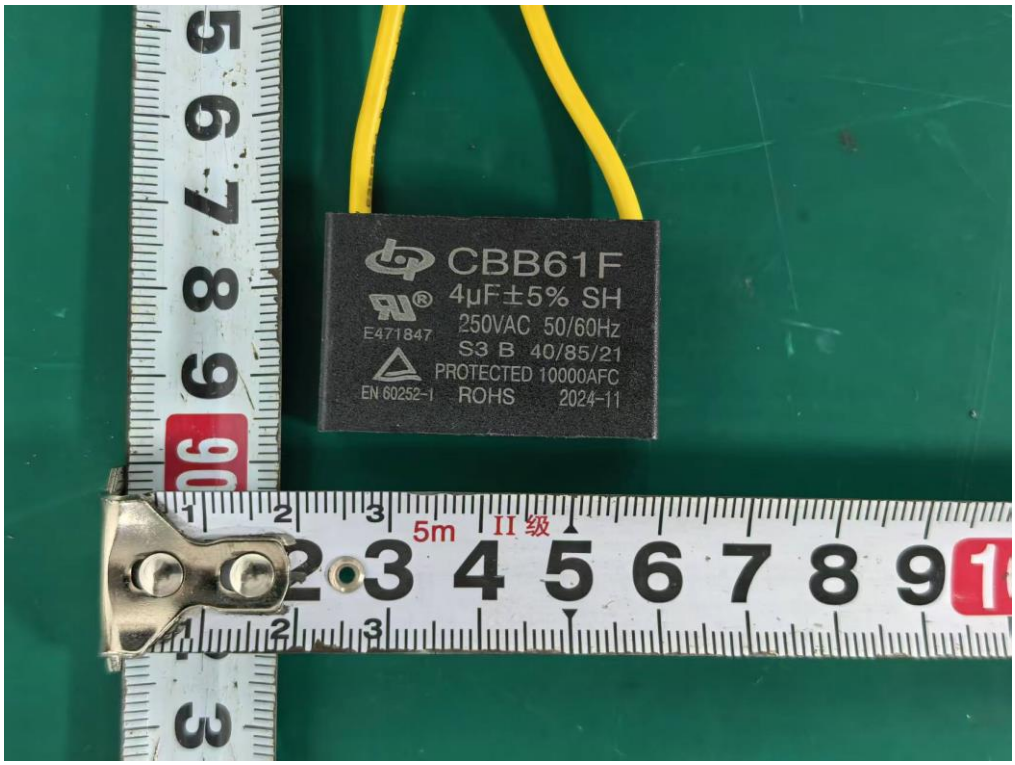
M/N: Core 200S



**Internal Photos**

M/N: Core 200S



**End of Test Report**