

|                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                           |                                      |                                               |                                                                                       |            |                    |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------|------------|--------------------|--|
| <b>Prüfbericht-Nr.:</b><br>Test report no.:                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>CN24Q8HL 002</b>                                                                                                                       | <b>Auftrags-Nr.:</b><br>Order no.:   | <b>168506533</b>                              | Seite 1 von 25<br>Page 1 of 25                                                        |            |                    |  |
| <b>Kunden-Referenz-Nr.:</b><br>Client reference no.:                                                                                                                                                                                                                                                                                                                                                                                                          | N/A                                                                                                                                       | <b>Auftragsdatum:</b><br>Order date: | 2024-10-05                                    |                                                                                       |            |                    |  |
| <b>Auftraggeber:</b><br>Client:                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Guangdong Leetac Electronics Technology Co., Ltd.</b><br>No.15 Danli Road, South District, Zhongshan City, Guangdong province China    |                                      |                                               |                                                                                       |            |                    |  |
| <b>Prüfgegenstand:</b><br>Test item:                                                                                                                                                                                                                                                                                                                                                                                                                          | Bluetooth Stereo Turntable                                                                                                                |                                      |                                               |                                                                                       |            |                    |  |
| <b>Bezeichnung / Typ-Nr.:</b><br>Identification / Type no.:                                                                                                                                                                                                                                                                                                                                                                                                   | NS-BTST21<br>(Trademark: INSIGNIA)                                                                                                        |                                      |                                               |                                                                                       |            |                    |  |
| <b>Auftrags-Inhalt:</b><br>Order content:                                                                                                                                                                                                                                                                                                                                                                                                                     | Test Report                                                                                                                               |                                      |                                               |                                                                                       |            |                    |  |
| <b>Prüfgrundlage:</b><br>Test specification:                                                                                                                                                                                                                                                                                                                                                                                                                  | CFR47 FCC Part 15: Subpart C Section 15.247<br>CFR47 FCC Part 15: Subpart C Section 15.207<br>CFR47 FCC Part 15: Subpart C Section 15.209 |                                      |                                               |                                                                                       |            |                    |  |
| <b>Wareneingangsdatum:</b><br>Date of sample receipt:                                                                                                                                                                                                                                                                                                                                                                                                         | 2024-10-05                                                                                                                                | Please refer to Photo Document       |                                               |                                                                                       |            |                    |  |
| <b>Prüfmuster-Nr.:</b><br>Test sample no.:                                                                                                                                                                                                                                                                                                                                                                                                                    | A003835066 001-002                                                                                                                        |                                      |                                               |                                                                                       |            |                    |  |
| <b>Prüfzeitraum:</b><br>Testing period:                                                                                                                                                                                                                                                                                                                                                                                                                       | 2024-10-05 - 2024-10-27                                                                                                                   |                                      |                                               |                                                                                       |            |                    |  |
| <b>Ort der Prüfung:</b><br>Place of testing:                                                                                                                                                                                                                                                                                                                                                                                                                  | TÜV Rheinland<br>(Shenzhen) Co., Ltd.                                                                                                     |                                      |                                               |                                                                                       |            |                    |  |
| <b>Prüflaboratorium:</b><br>Testing laboratory:                                                                                                                                                                                                                                                                                                                                                                                                               | TÜV Rheinland<br>(Shenzhen) Co., Ltd.                                                                                                     |                                      |                                               |                                                                                       |            |                    |  |
| <b>Prüfergebnis*:</b><br>Test result*:                                                                                                                                                                                                                                                                                                                                                                                                                        | Pass                                                                                                                                      |                                      |                                               |                                                                                       |            |                    |  |
| <b>geprüft von:</b><br>tested by:                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                        |                                      | <b>genehmigt von:</b><br>authorized by:       |  |            |                    |  |
| <b>Datum:</b><br>Date:                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2024-10-29                                                                                                                                | Signed by: Jonathan Li               |                                               | <b>Ausstellungsdatum:</b><br>Issue date:                                              | 2024-10-29 | Signed by: Lin Lin |  |
| <b>Stellung / Position:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                   | Sachverständige(r)/Expert                                                                                                                 |                                      | <b>Stellung / Position:</b>                   | Sachverständige(r)/Expert                                                             |            |                    |  |
| <b>Sonstiges /</b><br>Other:                                                                                                                                                                                                                                                                                                                                                                                                                                  | FCC ID: ZXNLEETACEE500A                                                                                                                   |                                      |                                               |                                                                                       |            |                    |  |
| <b>Zustand des Prüfgegenstandes bei Anlieferung:</b><br>Condition of the test item at delivery:                                                                                                                                                                                                                                                                                                                                                               | Prüfmuster vollständig und unbeschädigt<br>Test item complete and undamaged                                                               |                                      |                                               |                                                                                       |            |                    |  |
| * Legende:                                                                                                                                                                                                                                                                                                                                                                                                                                                    | P(ass) = entspricht o.g. Prüfgrundlage(n)<br>F(ail) = entspricht nicht o.g. Prüfgrundlage(n)                                              |                                      | N/A = nicht anwendbar<br>N/T = nicht getestet |                                                                                       |            |                    |  |
| * Legend:                                                                                                                                                                                                                                                                                                                                                                                                                                                     | P(ass) = passed a.m. test specification(s)<br>F(ail) = failed a.m. test specification(s)                                                  |                                      | N/A = not applicable<br>N/T = not tested      |                                                                                       |            |                    |  |
| <b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b><br>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark. |                                                                                                                                           |                                      |                                               |                                                                                       |            |                    |  |

V05

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**Anmerkungen**  
*Remarks*

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | <p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.</p> <p>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p>                                                                                                                                                              |
| 2 | <p>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben.</p> <p><i>As contractually agreed, this document has been signed digitally only. TUV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TUV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged.</i></p>                                                                                      |
| 3 | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.</p> <p>Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i></p> <p><i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 4 | <p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p> |

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## ***Test Summary***

**5.1.1 ANTENNA REQUIREMENT**

*RESULT: Pass*

**5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER**

*RESULT: Pass*

**5.1.3 20dB BANDWIDTH**

*RESULT: Pass*

**5.1.4 CARRIER FREQUENCY SEPARATION**

*RESULT: Pass*

**5.1.5 NUMBER OF HOPPING FREQUENCY**

*RESULT: Pass*

**5.1.6 TIME OF OCCUPANCY**

*RESULT: Pass*

**5.1.7 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH**

*RESULT: Pass*

**5.1.8 RADIATED SPURIOUS EMISSION**

*RESULT: Pass*

**5.1.9 CONDUCTED EMISSION ON AC MAINS**

*RESULT: Pass*

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# 1 General Remarks

## 1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of Bluetooth BR & EDR

Appendix B: Photographs of the Test Set-up

## 2 Test Sites

### 2.1 Test Facilities

**TÜV Rheinland (Shenzhen) Co., Ltd.**

No. 362 Huanguan Road Middle, Longhua District, 518110, Shenzhen, P. R. China.

FCC Accreditation Designation No.: 694916

ISED wireless device testing laboratory: 25069

### 2.2 List of Test and Measurement Instruments

**Table 1: List of Test and Measurement Equipment**

| <b>Radio Spectrum Testing (TS8997)</b>    |                     |                   |                   |                  |                   |
|-------------------------------------------|---------------------|-------------------|-------------------|------------------|-------------------|
| <b>Equipment</b>                          | <b>Manufacturer</b> | <b>Model</b>      | <b>Serial No.</b> | <b>Cal. Date</b> | <b>Cal. until</b> |
| Wireless Connectivity Tester              | R&S                 | CMW270            | 101375            | 26.09.2024       | 25.09.2025        |
| Signal Analyzer                           | R&S                 | FSV 40            | 101441            | 26.09.2024       | 25.09.2025        |
| Vector Signal Generator                   | R&S                 | SMBV100A          | 263301            | 26.09.2024       | 25.09.2025        |
| Signal Generator                          | R&S                 | SMB100A           | 115186            | 26.09.2024       | 25.09.2025        |
| OSP                                       | R&S                 | OSP 150           | 101017            | 14.11.2023       | 13.11.2024        |
| Control PC                                | DELL                | OptiPlex 7050     | FTJZ9P2           | N/A              | N/A               |
| Test Software                             | R&S                 | WMS32 (V11.00.00) | N/A               | N/A              | N/A               |
| Power Meter                               | R&S                 | NRP2              | 107105            | 14.11.2023       | 13.11.2024        |
| Power Sensor                              | R&S                 | NRP-Z81           | 105677            | 26.09.2024       | 25.09.2025        |
| <b>Unwanted Emission Testing (TS9975)</b> |                     |                   |                   |                  |                   |
| <b>Equipment</b>                          | <b>Manufacturer</b> | <b>Model</b>      | <b>Serial No.</b> | <b>Cal. Date</b> | <b>Cal. until</b> |
| EMI Test Receiver                         | R&S                 | ESR 7             | 102021            | 29.09.2024       | 28.09.2025        |
| Signal Analyzer                           | R&S                 | FSV 40            | 101439            | 29.09.2024       | 28.09.2025        |
| System Controller Interface               | R&S                 | SCI-100           | S10010038         | N/A              | N/A               |
| Filterbank                                | R&S                 | Wlan              | 100759            | 29.09.2024       | 28.09.2025        |
| OSP                                       | R&S                 | OSP 120           | 102040            | N/A              | N/A               |
| Pre-amplifier                             | R&S                 | SCU08F1           | 08320031          | 29.09.2024       | 28.09.2025        |
| Amplifier                                 | R&S                 | SCU-18F           | 180070            | 29.09.2024       | 28.09.2025        |
| Amplifier                                 | R&S                 | SCU40A            | 100475            | 29.09.2024       | 28.09.2025        |
| Trilog Broadband Antenna                  |                     |                   |                   |                  |                   |
| (30 MHz - 7 GHz)                          | Schwarzbeck         | VULB 9162         | 193               | 28.09.2024       | 27.09.2026        |
| Double-Ridged Antenna (1 -18 GHz)         | ETS-LINDGREN        | 3117              | 00218717          | 28.09.2024       | 27.09.2026        |
| Wideband Ridged Horn Antenna (18-         | Steatite            | QMS-00880         | 19067             | 28.09.2024       | 27.09.2026        |

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|                          |             |               |              |            |            |
|--------------------------|-------------|---------------|--------------|------------|------------|
| 40 GHz)                  |             |               |              |            |            |
| Active Loop Antenna      | Schwarzbeck | FMZB 1513     | 302          | 28.09.2024 | 27.09.2026 |
| Test software            | R&S         | EMC32         |              | N/A        | N/A        |
| (V10.60.10)              | N/A         | N/A           | N/A          | N/A        | N/A        |
| Control PC               | Dell        | OptiPlex 7050 | 36NV9P2      | N/A        | N/A        |
| 3m Semi-Anechoic Chamber | Albatross   | SAC-3m        | APC17151-SAC | 14.09.2024 | 13.09.2027 |

| <b>Conducted Emission</b> |                     |                     |                   |                   |
|---------------------------|---------------------|---------------------|-------------------|-------------------|
| <b>Equipment</b>          | <b>Manufacturer</b> | <b>Model No.</b>    | <b>Serial No.</b> | <b>Cal. Until</b> |
| EMI Test Receiver         | R&S                 | ESR3                | 102680            | 2025-02-22        |
| Artificial Mains Network  | R&S                 | ENV216              | 102333            | 2025-07-22        |
| EMC32 test software       | R&S                 | EMC32(Ver.10.50.00) | N/A               | N/A               |
| EMI Test Receiver         | R&S                 | ESR3                | 102680            | 2025-02-22        |

## 2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

## 2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

## 2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

**Table 2: Measurement Uncertainty**

| <b>Parameter</b>                                       | <b>Uncertainty (k=2)</b> |
|--------------------------------------------------------|--------------------------|
| RF output power, conducted                             | ± 0.99 dB                |
| Occupied Channel Bandwidth                             | ± 2.08 %                 |
| RF power density, conducted                            | ± 0.99 dB                |
| Unwanted Emissions, conducted                          | ± 0.89 dB                |
| All emissions, radiated                                | ±4.17 dB                 |
| Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz) | ± 3.70 dB / ± 3.30 dB    |

## 2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. file for certification follow-up purposes.

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## 2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at No. 362 Huanguan Road Middle, Longhua District, 518110, Shenzhen, P. R. China. is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

## 3 General Product Information

### 3.1 Product Function and Intended Use

The EUT is a Bluetooth Stereo Turntable, which supports Bluetooth (BDR&EDR) technology.

For details refer to the User Manual, Technical Description and Circuit Diagram.

### 3.2 Ratings and System Details

Table 3: Technical Specification of EUT

| General Information of EUT                       | Value                                |
|--------------------------------------------------|--------------------------------------|
| Kind of Equipment:                               | Bluetooth Stereo Turntable           |
| Type Designation:                                | NS-BTST21                            |
| FCC ID:                                          | ZXNLEETACEE500A                      |
| Operating Voltage:                               | AC 120V, 60Hz                        |
| Testing Voltage:                                 | AC 120V, 60Hz                        |
| Technical Specification of Bluetooth (dual mode) |                                      |
| Operating Frequency:                             | 2402 MHz to 2480 MHz                 |
| Type of Modulation:                              | GFSK, $\pi/4$ -DQPSK, 8DPSK          |
| Channel Number:                                  | BR & EDR mode:79 channels            |
| Channel Separation:                              | BR & EDR mode:1MHz                   |
| Data Rate:                                       | BR & EDR mode:( 1Mbps, 2Mbps, 3Mbps) |
| Antenna Type:                                    | PCB Layout Antenna                   |
| Antenna Gain:                                    | 0.26dBi                              |

**Table 4: RF Channel and Frequency of Bluetooth BR & EDR**

| RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) |
|------------|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|
| <b>0</b>   | <b>2402.00</b>  | 20         | 2422.00         | 40         | 2442.00         | 60         | 2462.00         |
| 1          | 2403.00         | 21         | 2423.00         | 41         | 2443.00         | 61         | 2463.00         |
| 2          | 2404.00         | 22         | 2424.00         | 42         | 2444.00         | 62         | 2464.00         |
| 3          | 2405.00         | 23         | 2425.00         | 43         | 2445.00         | 63         | 2465.00         |
| 4          | 2406.00         | 24         | 2426.00         | 44         | 2446.00         | 64         | 2466.00         |
| 5          | 2407.00         | 25         | 2427.00         | 45         | 2447.00         | 65         | 2467.00         |
| 6          | 2408.00         | 26         | 2428.00         | 46         | 2448.00         | 66         | 2468.00         |
| 7          | 2409.00         | 27         | 2429.00         | 47         | 2449.00         | 67         | 2469.00         |
| 8          | 2410.00         | 28         | 2430.00         | 48         | 2450.00         | 68         | 2470.00         |
| 9          | 2411.00         | 29         | 2431.00         | 49         | 2451.00         | 69         | 2471.00         |
| 10         | 2412.00         | 30         | 2432.00         | 50         | 2452.00         | 70         | 2472.00         |
| 11         | 2413.00         | 31         | 2433.00         | 51         | 2453.00         | 71         | 2473.00         |
| 12         | 2414.00         | 32         | 2434.00         | 52         | 2454.00         | 72         | 2474.00         |
| 13         | 2415.00         | 33         | 2435.00         | 53         | 2455.00         | 73         | 2475.00         |
| 14         | 2416.00         | 34         | 2436.00         | 54         | 2456.00         | 74         | 2476.00         |
| 15         | 2417.00         | 35         | 2437.00         | 55         | 2457.00         | 75         | 2477.00         |
| 16         | 2418.00         | 36         | 2438.00         | 56         | 2458.00         | 76         | 2478.00         |
| 17         | 2419.00         | 37         | 2439.00         | 57         | 2459.00         | 77         | 2479.00         |
| 18         | 2420.00         | 38         | 2440.00         | 58         | 2460.00         | 78         | <b>2480.00</b>  |
| 19         | 2421.00         | 39         | <b>2441.00</b>  | 59         | 2461.00         |            |                 |

Test frequencies are lowest channel: 2402 MHz, middle channel: 2441 MHz and highest channel: 2480 MHz for Bluetooth BR & EDR

### 3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Bluetooth transmitting mode (BR & EDR mode)
  - 1) Low Channel
  - 2) Middle Channel
  - 3) High Channel
- B. On, Transmitting on Hopping channel
- C. On, Normal Working with BT
- D. Off

### 3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

**Prüfbericht - Nr.:** **CN24Q8HL 002**  
*Test Report No.:*

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### **3.5 Submitted Documents**

- Application Form
- ID Label and Location Info
- User Manual
- Operation Description

## 4 Test Set-up and Operation Modes

### 4.1 Principle of Configuration Selection

**Radio Spectrum:** The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

**Emission:** The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

### 4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.1, all tests were performed on model NS-BTST21 in this report.

### 4.3 Special Accessories and Auxiliary Equipment

Table 5: List of Accessories and Auxiliary Equipment

| Description | Manufacturer | Model | S/N       | Rating |
|-------------|--------------|-------|-----------|--------|
| Laptop      | Lenovo       | T480  | PF-16A6N8 | --     |

### 4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

## 4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

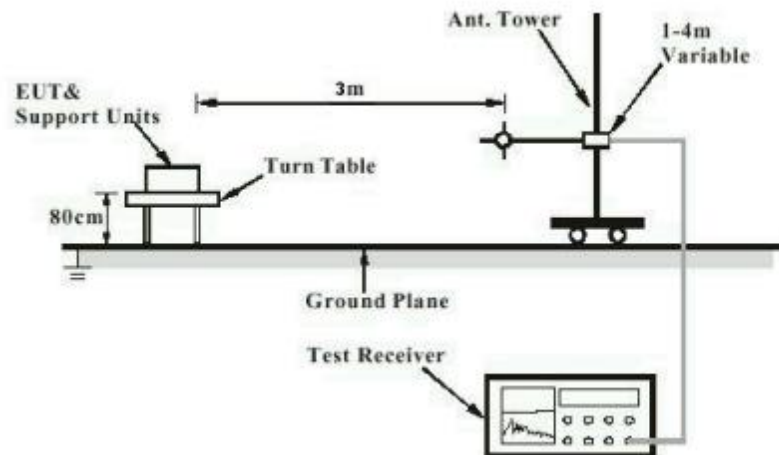
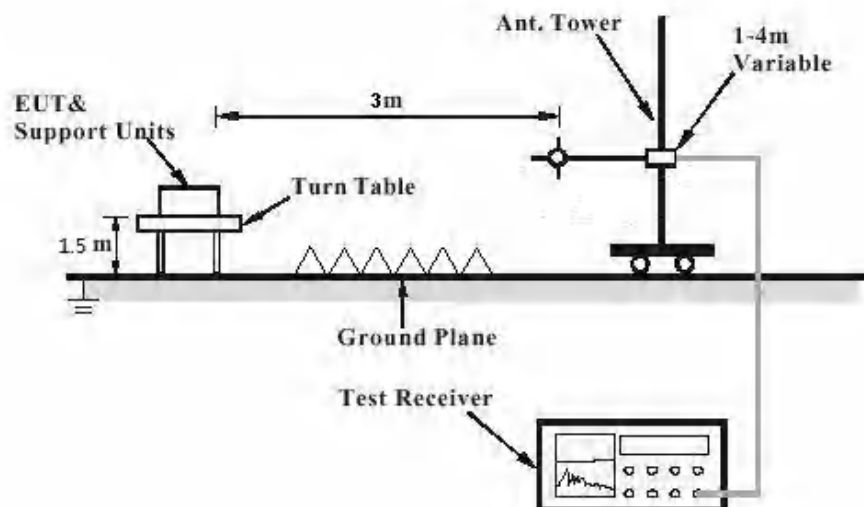
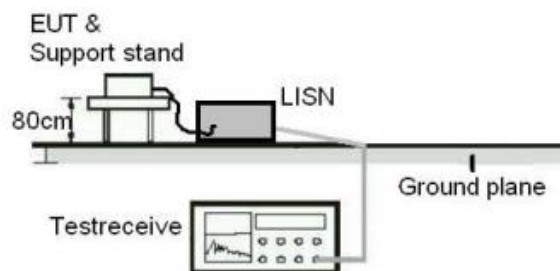


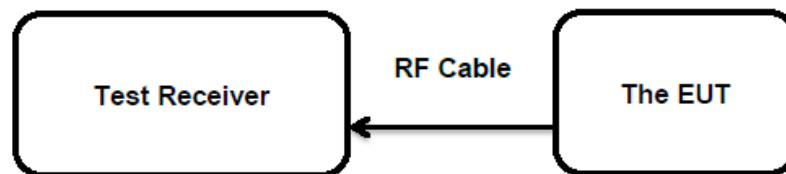
Diagram of Measurement Configuration for Radiation Test (Above 1GHz)



### Diagram of Measurement Configuration for Mains Conduction Measurement



### Diagram of Measurement Configuration for Conducted Transmitter Measurement



## 5 Test Results

### 5.1 Transmitter Requirement & Test Suites

#### 5.1.1 Antenna Requirement

RESULT:

Pass

**Test Specification**

Test standard : FCC Part 15.247(b)(4) and Part 15.203

According to the manufacturer declared, the EUT has a PCB Layout Antenna, the directional gain of antenna is 0.26dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement.

Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

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## 5.1.2 Maximum Peak Conducted Output Power

RESULT:

Pass

### Test Specification

Test standard : FCC Part 15.247(b)(1)&(3)

Basic standard : ANSI C63.10: 2013

Limits : FHSS < 0.125 Watts, DSSS < 1.0 Watts

Kind of test site : Shielded Room

### Test Setup

Date of testing : 2024-10-05 - 2024-10-27

Input voltage : AC 120V, 60Hz

Operation mode : A

Test channel : Low / Middle / High

Ambient temperature : 25.1 °C

Relative humidity : 50 %

Atmospheric pressure : 101 kPa

For details refer to following test result.

**Table 6: Test Result of Maximum Peak Conducted Output Power, Bluetooth BR & EDR**

| Test Mode              | Test Channel (MHz) | Measured Peak Power |        | Limit (W) |
|------------------------|--------------------|---------------------|--------|-----------|
|                        |                    | (dBm)               | (W)    |           |
| GFSK (BR)              | 2402.0             | 4.28                | 0.0027 | < 0.125   |
|                        | 2441.0             | 3.43                | 0.0022 |           |
|                        | 2480.0             | 2.96                | 0.0020 |           |
| Maximum Measured Value |                    | 4.28                | 0.0027 |           |
| Test Mode              | Test Channel (MHz) | Measured Peak Power |        | Limit (W) |
|                        |                    | (dBm)               | (W)    |           |
| 8DPSK (EDR)            | 2402.0             | 5.19                | 0.0033 | < 0.125   |
|                        | 2441.0             | 4.37                | 0.0027 |           |
|                        | 2480.0             | 3.96                | 0.0025 |           |
| Maximum Measured Value |                    | 5.19                | 0.0033 |           |

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G): 0.26dBi

### 5.1.3 20dB Bandwidth

**RESULT:****Pass****Test Specification**

Test standard : FCC Part 15.247(a)(1)

Basic standard : ANSI C63.10: 2013

Kind of test site : Shielded Room

**Test Setup**

Date of testing : 2024-10-05 - 2024-10-27

Input voltage : AC 120V, 60Hz

Operation mode : A

Test channel : Low / Middle / High

Ambient temperature : 25.1 °C

Relative humidity : 50 %

Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A.

**Prüfbericht - Nr.:** CN24Q8HL 002  
*Test Report No.:*

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### 5.1.4 Carrier Frequency Separation

**RESULT:**

**Pass**

**Test Specification**

Test standard : FCC Part 15.247(a)(1)

Basic standard : ANSI C63.10: 2013

Limits :  $\geq 25\text{kHz}$  or  $2/3$  of  $20\text{dB}$  bandwidth, whichever is greater

Kind of test site : Shielded Room

**Test Setup**

Date of testing : 2024-10-05 - 2024-10-27

Input voltage : AC 120V, 60Hz

Operation mode : B

Test channel : Low / Middle / High

Ambient temperature :  $25.1\text{ }^{\circ}\text{C}$

Relative humidity : 50 %

Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A.

**Prüfbericht - Nr.:** CN24Q8HL 002  
*Test Report No.:*

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### 5.1.5 Number of Hopping Frequency

**RESULT:**

**Pass**

**Test Specification**

Test standard : FCC part 15.247(a)(1)(iii)  
Basic standard : ANSI C63.10: 2013  
Limits :  $\geq 15$  non-overlapping channels  
Kind of test site : Shielded Room

**Test Setup**

Date of testing : 2024-10-05 - 2024-10-27  
Input voltage : AC 120V, 60Hz  
Operation mode : B  
Ambient temperature : 25.1 °C  
Relative humidity : 50 %  
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A.

**Prüfbericht - Nr.:** CN24Q8HL 002  
*Test Report No.:*

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## 5.1.6 Time of Occupancy

**RESULT:**

**Pass**

### Test Specification

Test standard : FCC part 15.247(a)(1)(iii)  
Basic standard : ANSI C63.10: 2013  
Limits : < 0.4s  
Kind of test site : Shielded Room

### Test Setup

Date of testing : 2024-10-05 - 2024-10-27  
Input voltage : AC 120V, 60Hz  
Operation mode : B  
Test channel : Low / Middle / High  
Ambient temperature : 25.1 °C  
Relative humidity : 50 %  
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A.

Prüfbericht - Nr.: **CN24Q8HL 002**  
Test Report No.:Seite 22 von 25  
Page 22 of 25**5.1.7 Conducted Spurious Emissions Measured in 100 kHz Bandwidth****RESULT:****Pass****Test Specification**

Test standard : FCC Part 15.247(d)

Basic standard : ANSI C63.10: 2013

Limits : 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power);  
In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)

Kind of test site : Shielded Room

**Test Setup**

Date of testing : 2024-10-05 - 2024-10-27

Input voltage : AC 120V, 60Hz

Operation mode : A

Test channel : Low / Middle / High

Ambient temperature : 25.1 °C

Relative humidity : 50 %

Atmospheric pressure : 101 kPa

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to test plots, and compliance is achieved as well.

For the measurement records, refer to the appendix A.

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Test Report No.:Seite 23 von 25  
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### 5.1.8 Radiated Spurious Emission

**RESULT:****Pass****Test Specification**

Test standard : FCC Part 15.247(d) & FCC Part 15.205

Basic standard : ANSI C63.10: 2013

Limits : Refer to 15.209(a) of FCC part 15.247(d)

Kind of test site : 3m Semi-anechoic Chamber

**Test Setup**

Date of testing : 2024-10-05 - 2024-10-27

Input voltage : AC 120V, 60Hz

Operation mode : A

Test channel : Low / Middle / High

Ambient temperature : Refer to test result

Relative humidity : Refer to test result

Atmospheric pressure : 101 kPa

**Remark:**

Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix A.

**Prüfbericht - Nr.:** CN24Q8HL 002  
*Test Report No.:*

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### 5.1.9 Conducted Emission on AC Mains

**RESULT:**

**Pass**

**Test Specification**

Test standard : FCC Part 15.207(a)

Basic standard : ANSI C63.10: 2013

Frequency range : 0.15 – 30MHz

Classification : Class B

Limits : FCC Part 15.207(a)

Kind of test site : Shielded Room

**Test Setup**

Date of testing : 2024-10-05 - 2024-10-27

Input voltage : AC 120V, 60Hz

Operation mode : C

Earthing : Not connected

Ambient temperature : 24.3 °C

Relative humidity : 51.2 %

Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A.

## 6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix B.

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## Appendix A: Test Results of Bluetooth BR & EDR

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## Appendix A.1: Test Results of 20dB Bandwidth

### Test Result

| TestMode | Antenna | Channel | 20db EBW[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|---------------|----------|----------|------------|---------|
| DH5      | Ant1    | 2402    | 0.945         | 2401.532 | 2402.477 | ---        | ---     |
|          |         | 2441    | 0.942         | 2440.529 | 2441.471 | ---        | ---     |
|          |         | 2480    | 0.948         | 2479.529 | 2480.477 | ---        | ---     |
| 3DH5     | Ant1    | 2402    | 1.236         | 2401.361 | 2402.597 | ---        | ---     |
|          |         | 2441    | 1.245         | 2440.355 | 2441.600 | ---        | ---     |
|          |         | 2480    | 1.248         | 2479.355 | 2480.603 | ---        | ---     |

## Test Graphs





3DH5 Ant1 2402





## Appendix A.2: Test Results of Carrier Frequency Separation

### Test Result

| TestMode | Antenna | Channel | Result[MHz] | Limit[MHz]   | Verdict |
|----------|---------|---------|-------------|--------------|---------|
| DH5      | Ant1    | Hop     | 0.814       | $\geq 0.632$ | PASS    |
| 3DH5     | Ant1    | Hop     | 1.014       | $\geq 0.832$ | PASS    |

### Test Graphs



Appendix A.3: Test Results of Number of Hopping Frequency

Test Result

| TestMode | Antenna | Channel | Result[Num] | Limit[Num] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| DH5      | Ant1    | Hop     | 79          | ≥15        | PASS    |
| 3DH5     | Ant1    | Hop     | 79          | ≥15        | PASS    |

Test Graphs

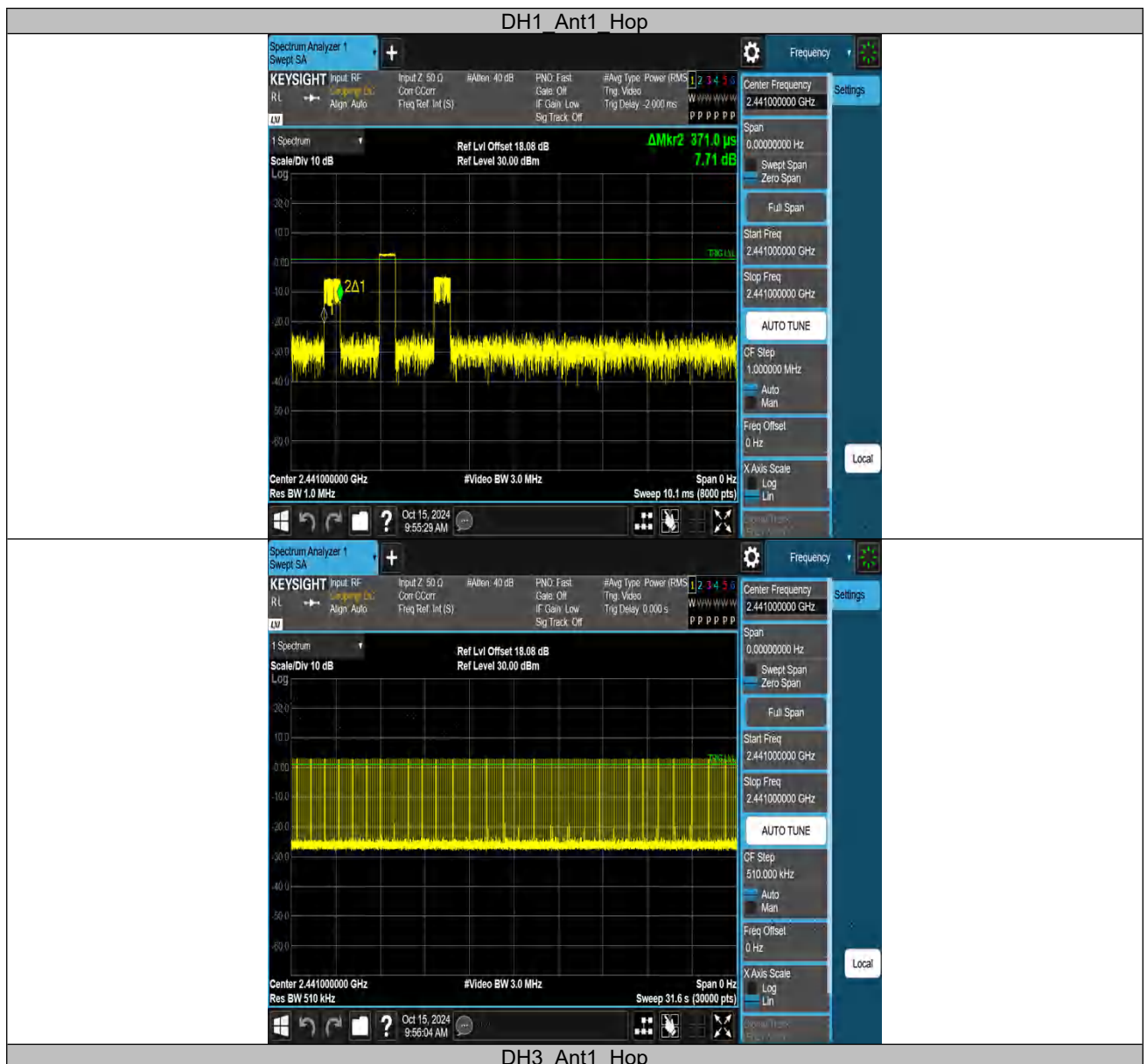


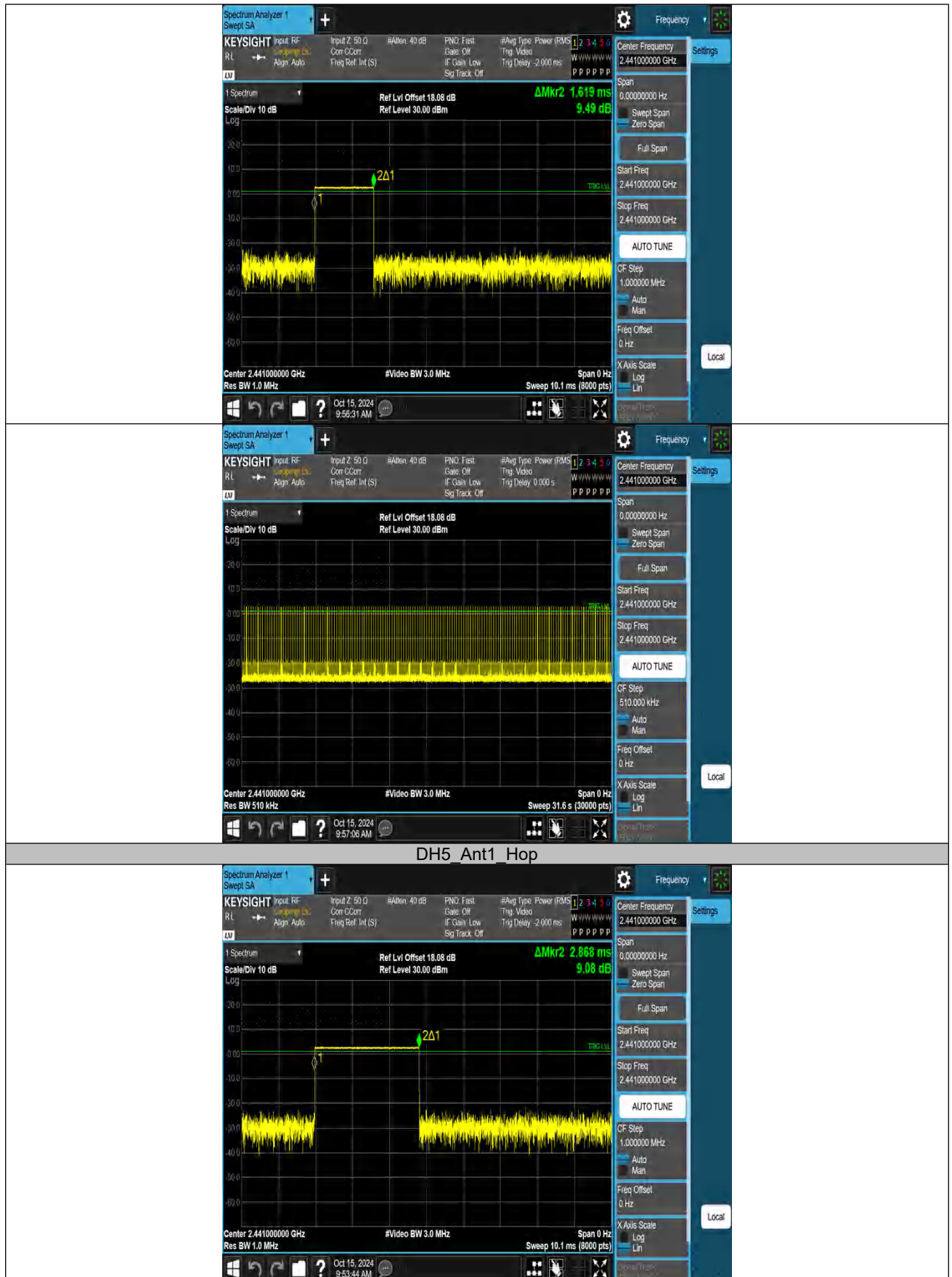
## Appendix A.4: Test Results of Time of Occupancy

### Test Result

| TestMode | Antenna | Channel | BurstWidth [ms] | TotalHops [Num] | Result[s] | Limit[s] | Verdict |
|----------|---------|---------|-----------------|-----------------|-----------|----------|---------|
| DH1      | Ant1    | Hop     | 0.371           | 319             | 0.118     | ≤0.4     | PASS    |
| DH3      | Ant1    | Hop     | 1.619           | 159             | 0.257     | ≤0.4     | PASS    |
| DH5      | Ant1    | Hop     | 2.868           | 107             | 0.307     | ≤0.4     | PASS    |
| 3DH1     | Ant1    | Hop     | 0.377           | 318             | 0.12      | ≤0.4     | PASS    |
| 3DH3     | Ant1    | Hop     | 1.629           | 159             | 0.259     | ≤0.4     | PASS    |
| 3DH5     | Ant1    | Hop     | 2.880           | 107             | 0.308     | ≤0.4     | PASS    |

### Test Graphs



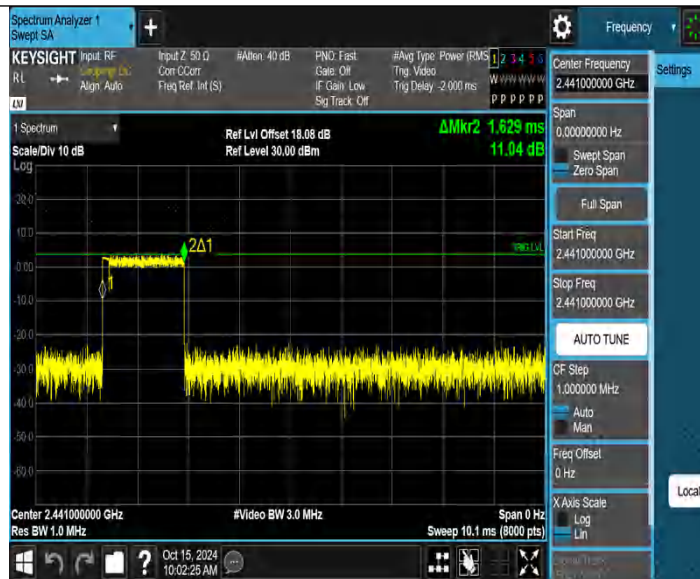




3DH1 Ant1 Hop

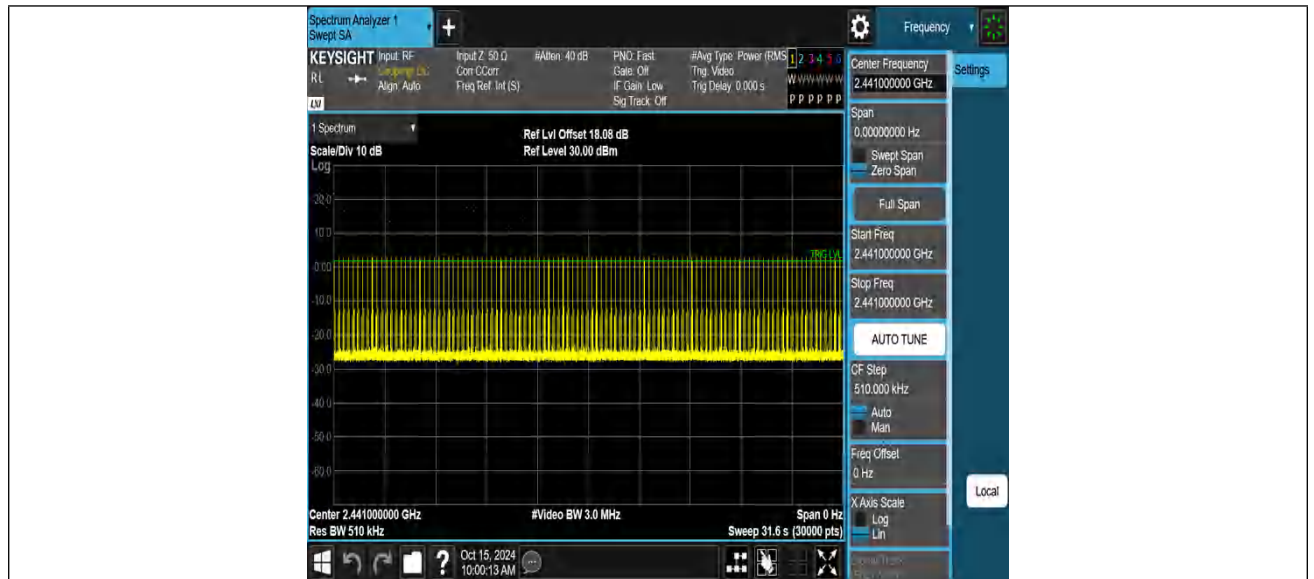


3DH3 Ant1 Hop



3DH5 Ant1 Hop





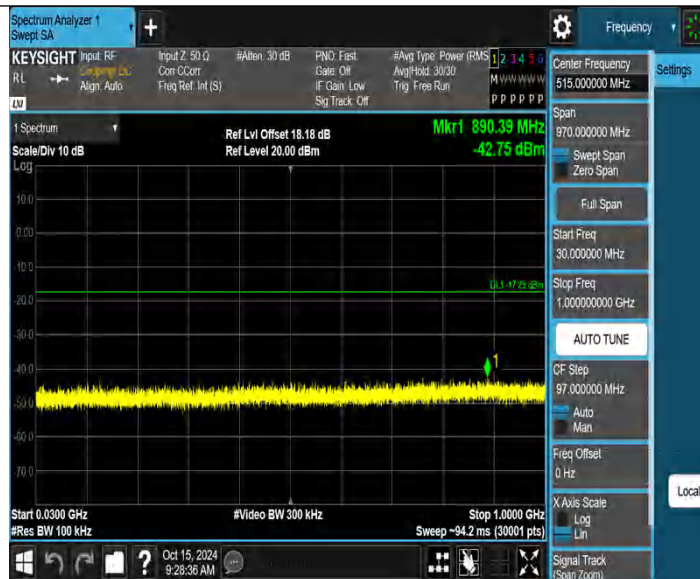
## Appendix A.5: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

### Test Result

| TestMode | Antenna | Channel | FreqRange [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|---------|-----------------|----------------|--------------|-------------|---------|
| DH5      | Ant1    | 2402    | Reference       | 2.75           | 2.75         | ---         | PASS    |
|          |         |         | 30~1000         | 2.75           | -42.75       | ≤-17.25     | PASS    |
|          |         |         | 1000~26500      | 2.75           | -31.98       | ≤-17.25     | PASS    |
|          |         | 2441    | Reference       | 2.13           | 2.13         | ---         | PASS    |
|          |         |         | 30~1000         | 2.13           | -42.62       | ≤-17.87     | PASS    |
|          |         |         | 1000~26500      | 2.13           | -32.87       | ≤-17.87     | PASS    |
|          |         | 2480    | Reference       | 1.19           | 1.19         | ---         | PASS    |
|          |         |         | 30~1000         | 1.19           | -42.24       | ≤-18.81     | PASS    |
|          |         |         | 1000~26500      | 1.19           | -32.43       | ≤-18.81     | PASS    |
| 3DH5     | Ant1    | 2402    | Reference       | 2.27           | 2.27         | ---         | PASS    |
|          |         |         | 30~1000         | 2.27           | -41.77       | ≤-17.73     | PASS    |
|          |         |         | 1000~26500      | 2.27           | -33.17       | ≤-17.73     | PASS    |
|          |         | 2441    | Reference       | -0.94          | -0.94        | ---         | PASS    |
|          |         |         | 30~1000         | -0.94          | -41.89       | ≤-20.94     | PASS    |
|          |         |         | 1000~26500      | -0.94          | -32.92       | ≤-20.94     | PASS    |
|          |         | 2480    | Reference       | 1.09           | 1.09         | ---         | PASS    |
|          |         |         | 30~1000         | 1.09           | -41.86       | ≤-18.91     | PASS    |
|          |         |         | 1000~26500      | 1.09           | -33.27       | ≤-18.91     | PASS    |

### Test Graphs





DH5\_Ant1\_2402\_1000~26500



DH5\_Ant1\_2441\_0~Reference



DH5\_Ant1\_2441\_30~1000



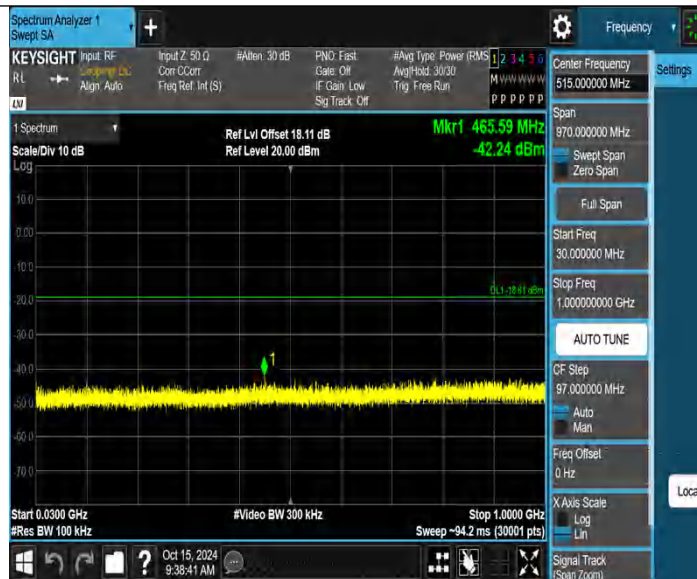
DH5 Ant1 2441 1000~26500



DH5 Ant1 2480 0~Reference



DH5 Ant1 2480 30~1000



DH5 Ant1 2480 1000~26500



3DH5 Ant1 2402 0~Reference



3DH5 Ant1 2402 30~1000





3DH5 Ant1 2441 1000~26500



3DH5 Ant1 2480 0~Reference



3DH5 Ant1 2480 30~1000



## Appendix A.6: Test Results of Radiated Spurious Emissions

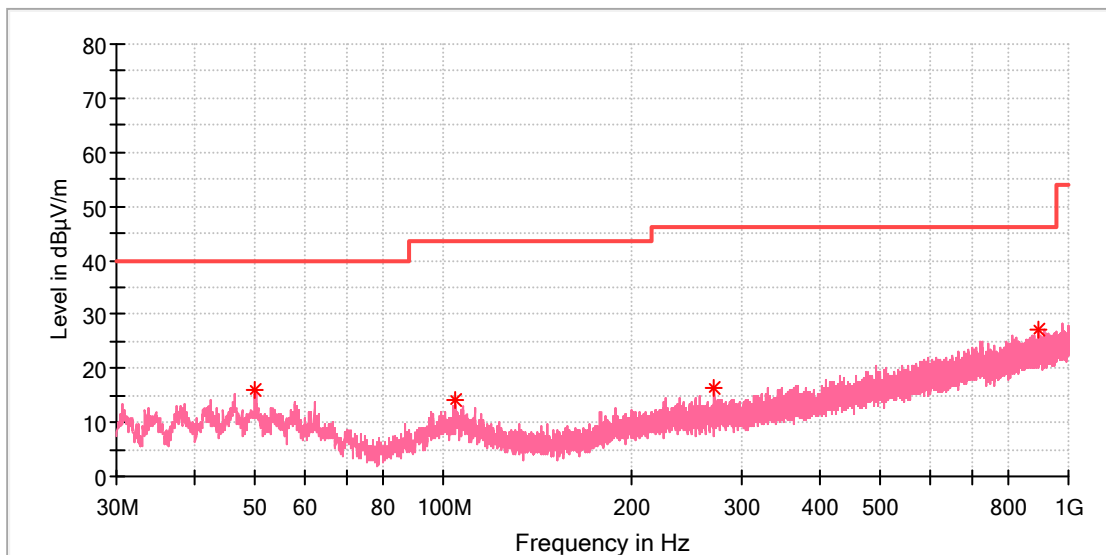
Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

# Test Report

## EUT Information

|                      |                            |
|----------------------|----------------------------|
| EUT Name:            | Bluetooth Stereo Turntable |
| Model:               | NS-BTST21                  |
| Test Mode:           | BR_DH5_Mid channel         |
| Order No./Sample No: | 168506533/A003829055-002   |
| Test Voltage::       | DC 5V From USB             |
| Remark:              | Temp 23 Humi:58%           |
| Test Standard:       | FCC 15.247                 |
| Tested By:           | Kei Zhang                  |
| Reviewed By:         | Terry Yin                  |



3)  
4)

## 5) Critical Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 50.108846       | 16.06            | 40.00          | 23.94       | 100.0       | V   | 246.0         | -18.4        |
| 104.615385      | 14.26            | 43.50          | 29.24       | 100.0       | V   | 176.0         | -18.9        |
| 271.716539      | 16.36            | 46.00          | 29.64       | 100.0       | V   | 200.0         | -16.9        |
| 896.993462      | 27.34            | 46.00          | 18.66       | 100.0       | V   | 102.0         | -4.8         |

6)  
7)

## 8) Final Result

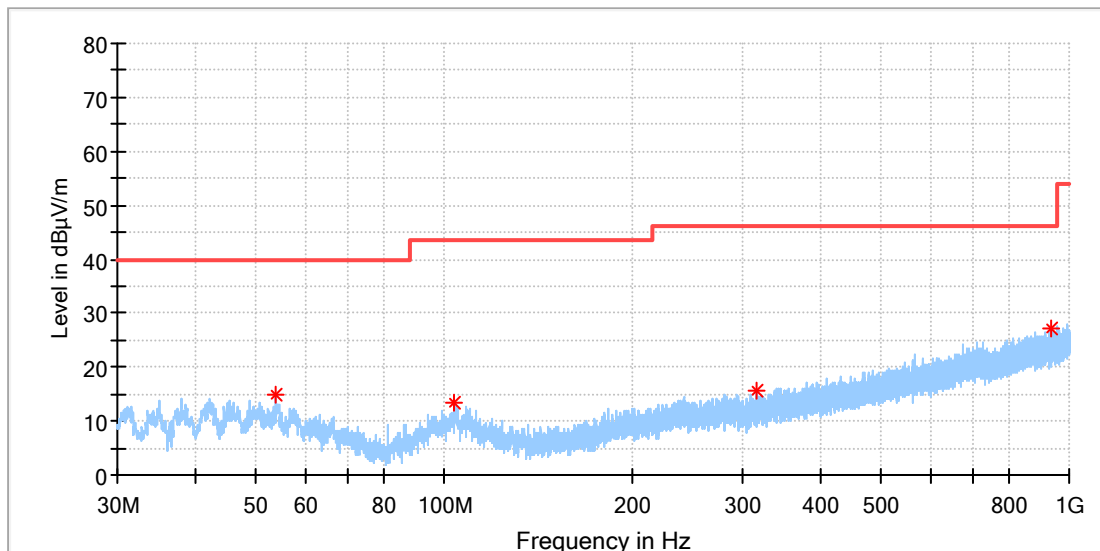
| Frequency (MHz) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|--------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---                | ---            | ---         | ---         |     | ---           | ---          |

9)

# Test Report

## EUT Information

|                     |                            |
|---------------------|----------------------------|
| EUT Name:           | Bluetooth Stereo Turntable |
| Model:              | NS-BTST21                  |
| Test Mode:          | BR_DH5_Mid channel         |
| Order No/Sample No: | 168506533/A003829055-002   |
| Test Voltage::      | DC 5V From USB             |
| Remark:             | Temp 23 Humi:58%           |
| Test Standard:      | FCC 15.247                 |
| Tested By:          | Kei Zhang                  |
| Reviewed By:        | Terry Yin                  |



## Critical Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 53.802308       | 14.72            | 40.00          | 25.28       | 100.0       | H   | 222.0         | -18.5        |
| 103.533462      | 13.33            | 43.50          | 30.17       | 100.0       | H   | 222.0         | -19.0        |
| 316.038077      | 15.52            | 46.00          | 30.48       | 100.0       | H   | 281.0         | -15.8        |
| 933.555000      | 27.03            | 46.00          | 18.97       | 100.0       | H   | 116.0         | -4.5         |

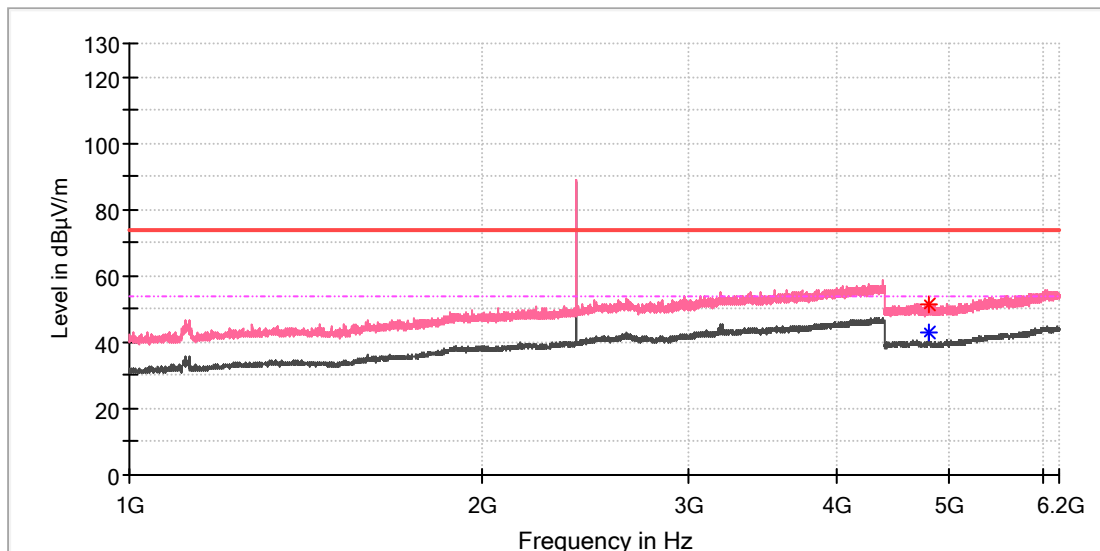
## Final Result

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|--------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---                | ---            | ---         | ---         | --- | ---           | ---          |

## Test Report

### EUT Information

EUT Name: Bluetooth Stereo Turntable  
Model: NS-BTST21  
Test Mode: BR\_DH5\_Low channel  
Order No/Sample No: 168506533/A003829055-002  
Test Voltage:: DC 5V From USB  
Remark: Temp 23 Humi:58%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



### Critical Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4804.000000     | ---              | 43.18            | 54.00          | 10.82       | 150.0       | V   | 308.0         | 13.3         |
| 4804.500000     | 51.57            | ---              | 74.00          | 22.43       | 150.0       | V   | 308.0         | 13.3         |

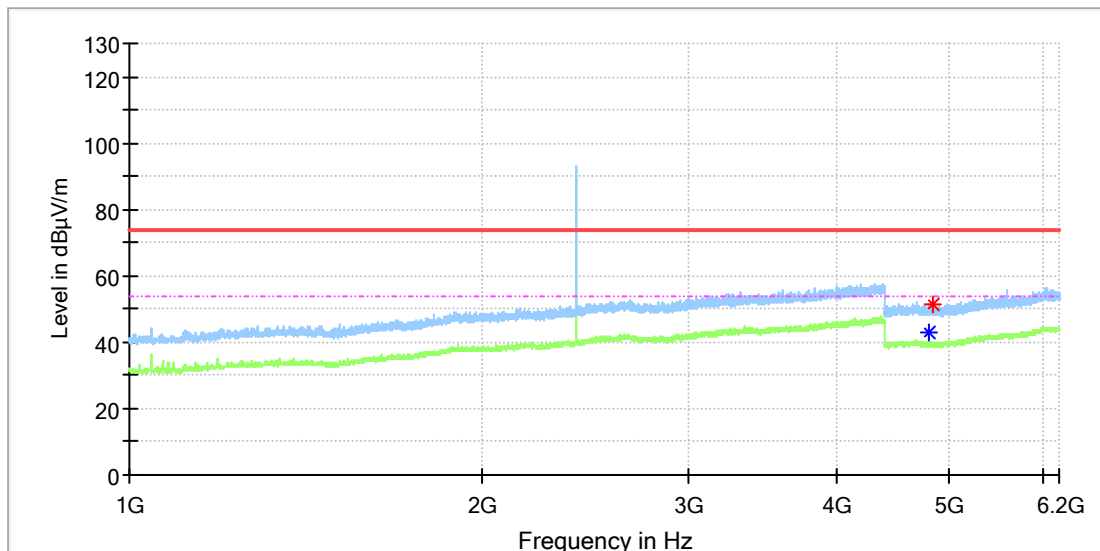
### Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

# Test Report

## EUT Information

EUT Name: Bluetooth Stereo Turntable  
Model: NS-BTST21  
Test Mode: BR\_DH5\_Low channel  
Order No/Sample No: 168506533/A003829055-002  
Test Voltage:: DC 5V From USB  
Remark: Temp 23 Humi:58%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4803.500000     | ---              | 42.90            | 54.00          | 11.10       | 150.0       | H   | 268.0         | 13.3         |
| 4830.500000     | 51.64            | ---              | 74.00          | 22.36       | 150.0       | H   | 359.0         | 13.3         |

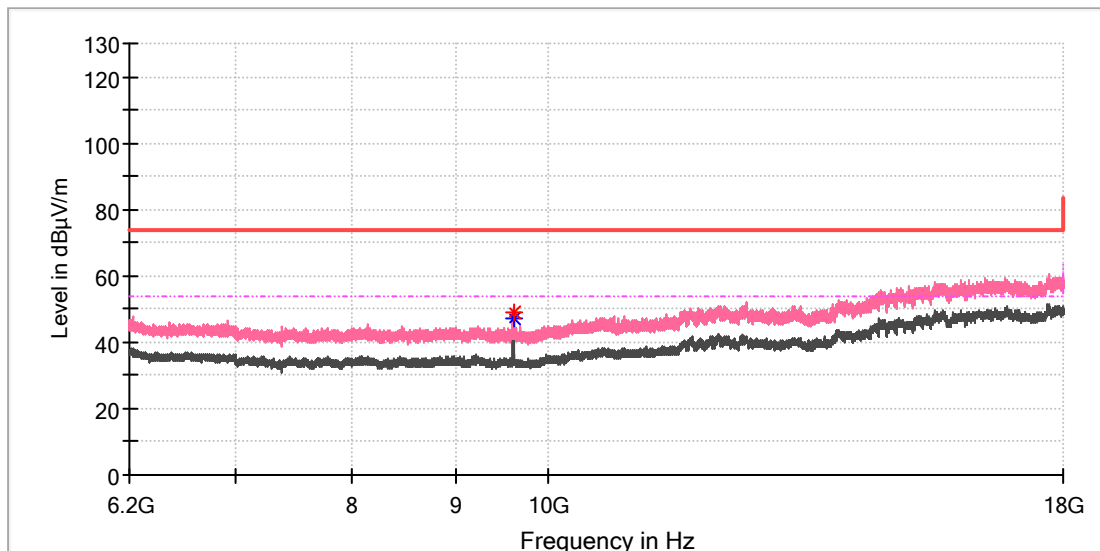
## Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## Test Report

### EUT Information

EUT Name: Bluetooth Stereo Turntable  
Model: NS-BTST21  
Test Mode: BR\_DH5\_Low channel  
Order No/Sample No: 168506533/A003829055-002  
Test Voltage:: DC 5V From USB  
Remark: Temp 23 Humi:58%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



### Critical Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 9607.741667     | 49.07            | ---              | 74.00          | 24.93       | 150.0       | V   | 321.0         | 10.4         |
| 9607.741667     | ---              | 47.14            | 54.00          | 6.86        | 150.0       | V   | 321.0         | 10.4         |

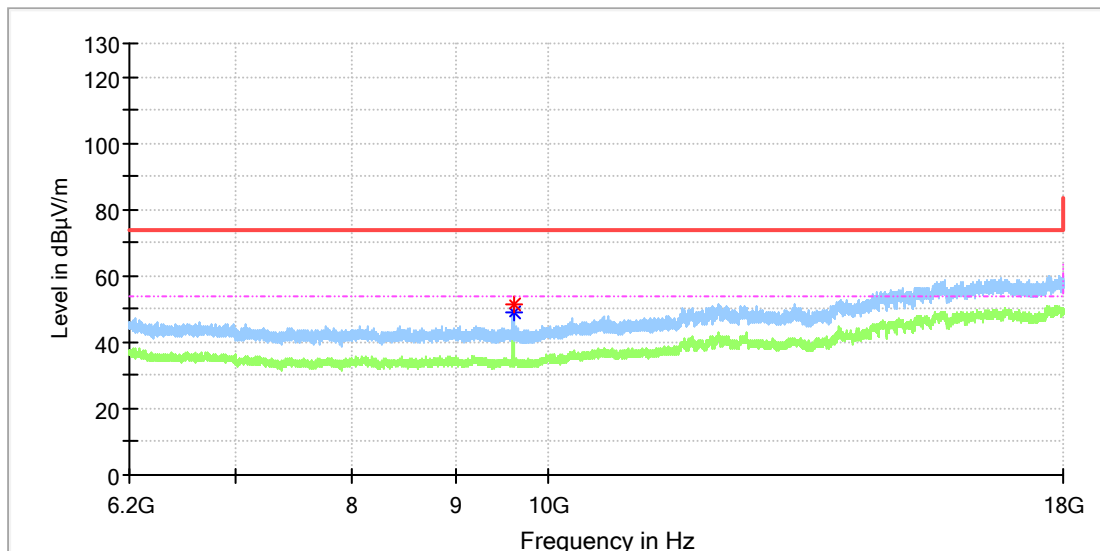
### Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

# Test Report

## EUT Information

EUT Name: Bluetooth Stereo Turntable  
Model: NS-BTST21  
Test Mode: BR\_DH5\_Low channel  
Order No/Sample No: 168506533/A003829055-002  
Test Voltage:: DC 5V From USB  
Remark: Temp 23 Humi:58%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 9607.741667     | 51.26            | ---              | 74.00          | 22.74       | 150.0       | H   | 318.0         | 10.4         |
| 9607.741667     | ---              | 48.87            | 54.00          | 5.13        | 150.0       | H   | 318.0         | 10.4         |

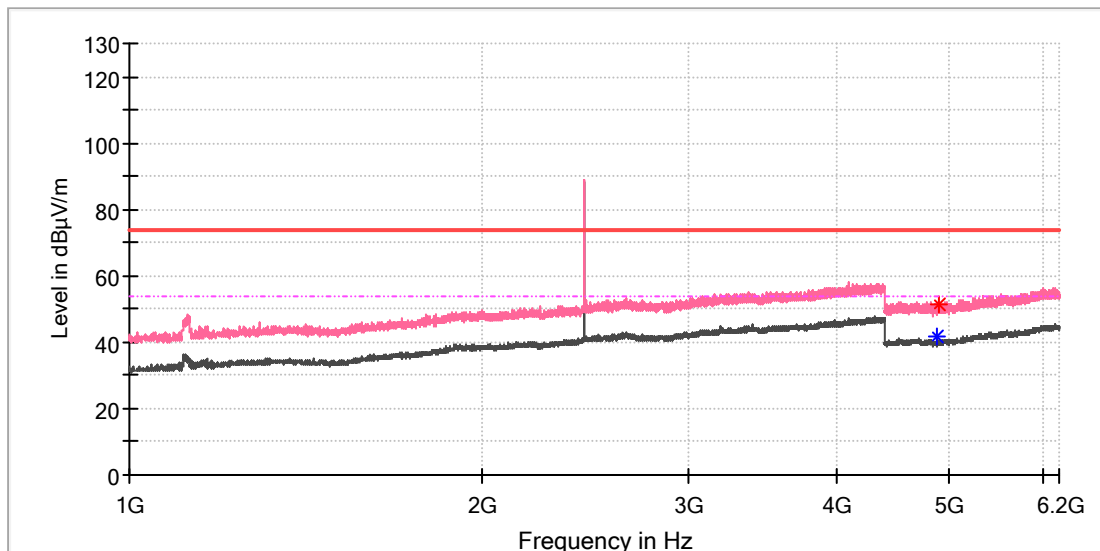
## Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

# Test Report

## EUT Information

EUT Name: Bluetooth Stereo Turntable  
Model: NS-BTST21  
Test Mode: BR\_DH5\_Mid channel  
Order No/Sample No: 168506533/A003829055-002  
Test Voltage:: DC 5V From USB  
Remark: Temp 23 Humi:58%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4882.000000     | ---              | 41.73            | 54.00          | 12.27       | 150.0       | V   | 222.0         | 13.3         |
| 4902.500000     | 51.39            | ---              | 74.00          | 22.61       | 150.0       | V   | 304.0         | 13.3         |

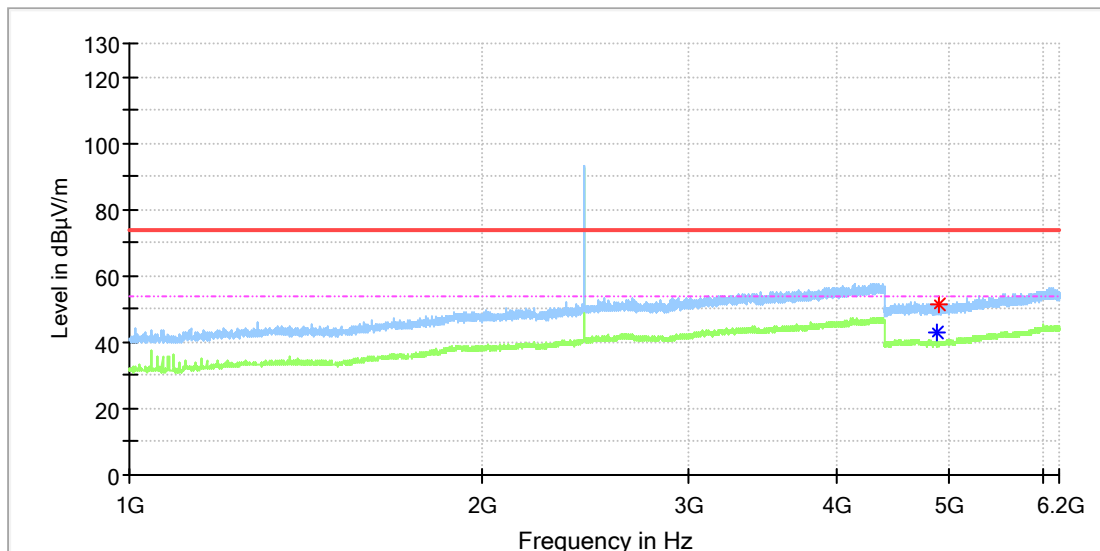
## Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

# Test Report

## EUT Information

EUT Name: Bluetooth Stereo Turntable  
Model: NS-BTST21  
Test Mode: BR\_DH5\_Mid channel  
Order No/Sample No: 168506533/A003829055-002  
Test Voltage:: DC 5V From USB  
Remark: Temp 23 Humi:58%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4882.000000     | ---              | 42.96            | 54.00          | 11.04       | 150.0       | H   | 275.0         | 13.3         |
| 4899.000000     | 51.17            | ---              | 74.00          | 22.83       | 150.0       | H   | 307.0         | 13.3         |

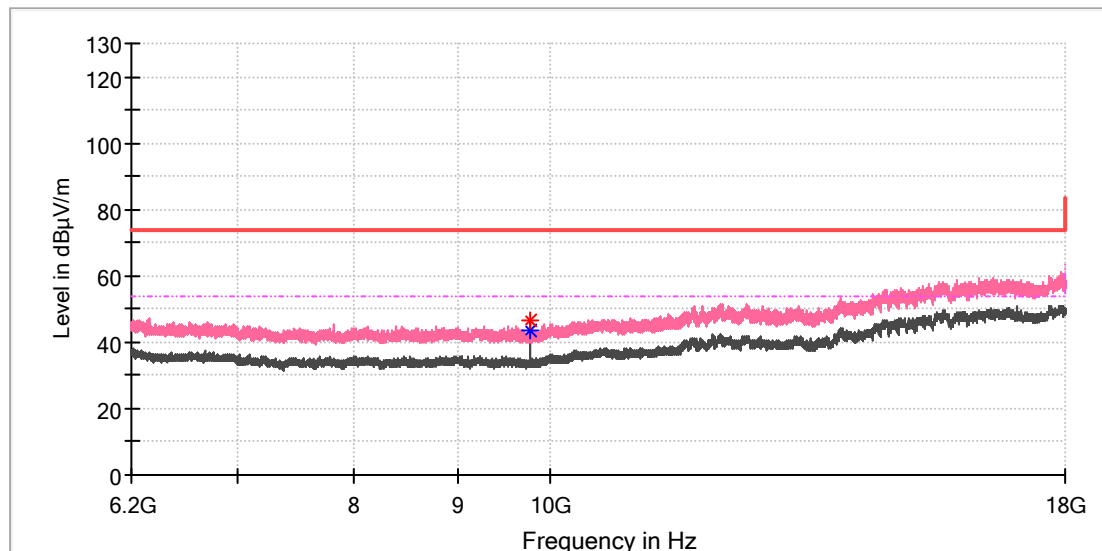
## Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

# Test Report

## EUT Information

|                     |                            |
|---------------------|----------------------------|
| EUT Name:           | Bluetooth Stereo Turntable |
| Model:              | NS-BTST21                  |
| Test Mode:          | BR_DH5_Mid channel         |
| Order No/Sample No: | 168506533/A003829055-002   |
| Test Voltage::      | DC 5V From USB             |
| Remark:             | Temp 23 Humi:58%           |
| Test Standard:      | FCC 15.247                 |
| Tested By:          | Kei Zhang                  |
| Reviewed By:        | Terry Yin                  |



## Critical Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 9764.091667     | 46.37            | ---              | 74.00          | 27.63       | 150.0       | V   | 324.0         | 10.4         |
| 9764.091667     | ---              | 43.70            | 54.00          | 10.30       | 150.0       | V   | 324.0         | 10.4         |

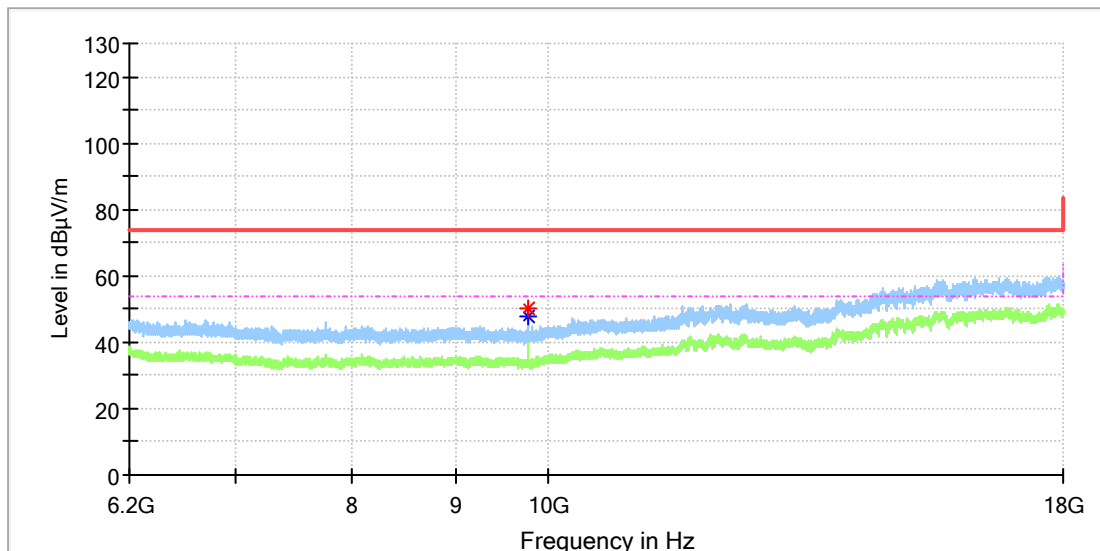
## Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

# Test Report

## EUT Information

EUT Name: Bluetooth Stereo Turntable  
Model: NS-BTST21  
Test Mode: BR\_DH5\_Mid channel  
Order No/Sample No: 168506533/A003829055-002  
Test Voltage:: DC 5V From USB  
Remark: Temp 23 Humi:58%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 9763.600000     | 49.95            | ---              | 74.00          | 24.05       | 150.0       | H   | 290.0         | 10.4         |
| 9764.091667     | ---              | 47.87            | 54.00          | 6.13        | 150.0       | H   | 290.0         | 10.4         |

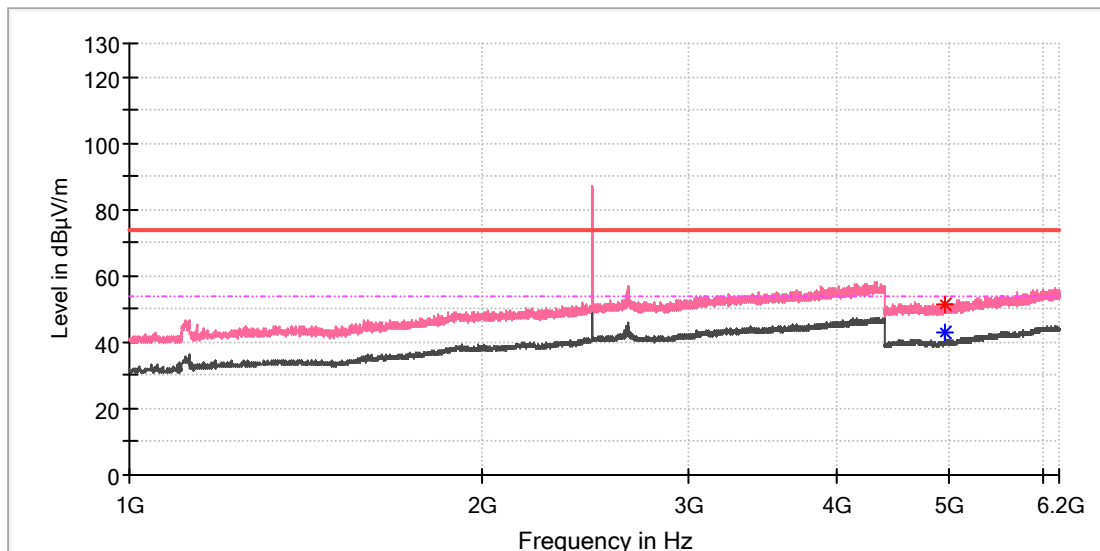
## Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

# Test Report

## EUT Information

EUT Name: Bluetooth Stereo Turntable  
Model: NS-BTST21  
Test Mode: BR\_DH5\_High channel  
Order No/Sample No: 168506533/A003829055-002  
Test Voltage:: DC 5V From USB  
Remark: Temp 23 Humi:58%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4959.500000     | 51.32            | ---              | 74.00          | 22.68       | 150.0       | V   | 290.0         | 13.3         |
| 4960.000000     | ---              | 43.07            | 54.00          | 10.93       | 150.0       | V   | 332.0         | 13.3         |

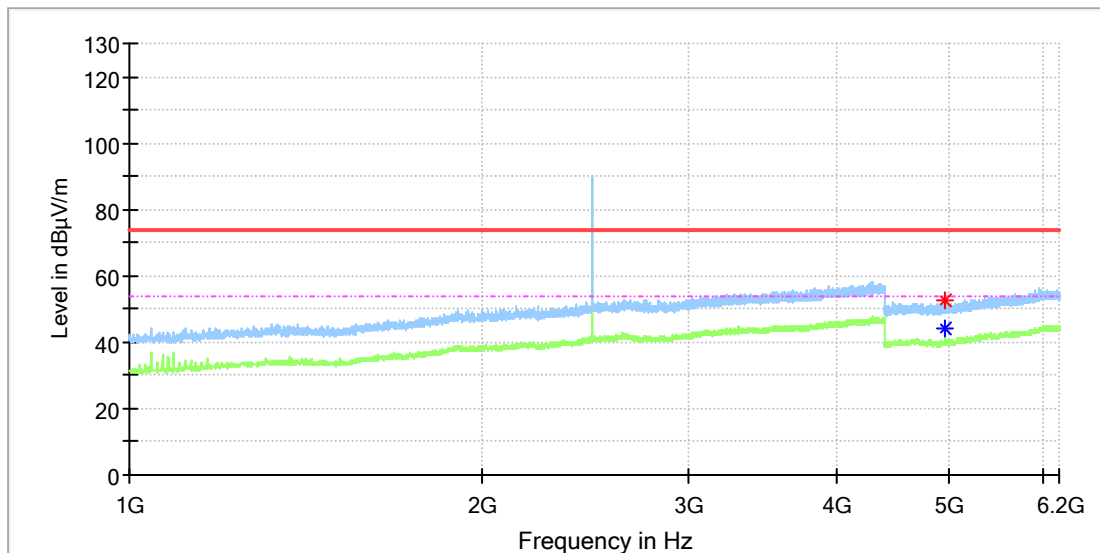
## Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

# Test Report

## EUT Information

EUT Name: Bluetooth Stereo Turntable  
Model: NS-BTST21  
Test Mode: BR\_DH5\_High channel  
Order No/Sample No: 168506533/A003829055-002  
Test Voltage:: DC 5V From USB  
Remark: Temp 23 Humi:58%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4960.000000     | ---              | 44.39            | 54.00          | 9.61        | 150.0       | H   | 275.0         | 13.3         |
| 4961.000000     | 52.50            | ---              | 74.00          | 21.50       | 150.0       | H   | 324.0         | 13.3         |

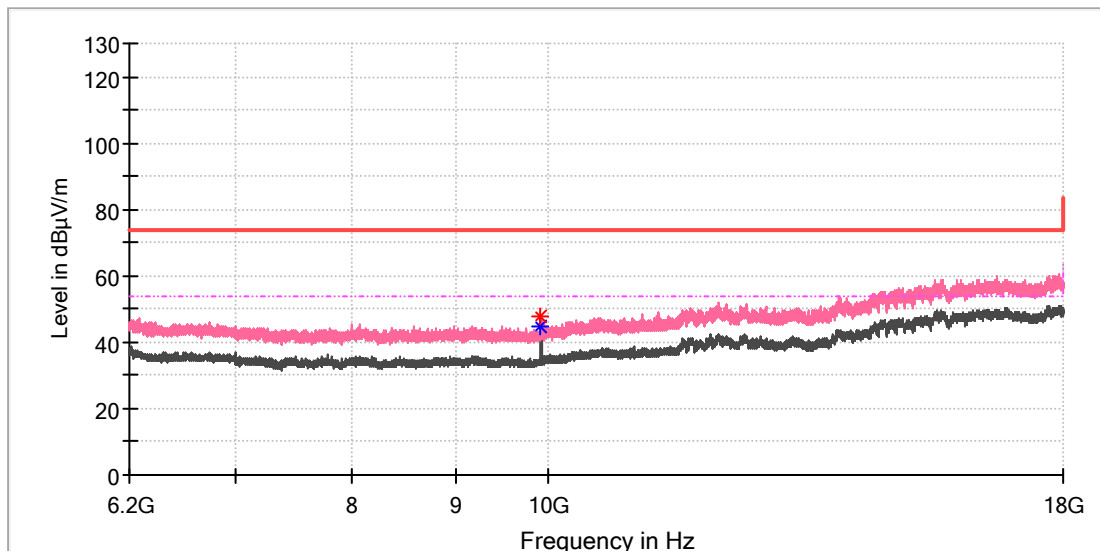
## Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

# Test Report

## EUT Information

|                     |                            |
|---------------------|----------------------------|
| EUT Name:           | Bluetooth Stereo Turntable |
| Model:              | NS-BTST21                  |
| Test Mode:          | BR_DH5_High channel        |
| Order No/Sample No: | 168506533/A003829055-002   |
| Test Voltage::      | DC 5V From USB             |
| Remark:             | Temp 23 Humi:58%           |
| Test Standard:      | FCC 15.247                 |
| Tested By:          | Kei Zhang                  |
| Reviewed By:        | Terry Yin                  |



## Critical Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 9919.950000     | 47.76            | ---              | 74.00          | 26.24       | 150.0       | V   | 33.0          | 10.8         |
| 9919.950000     | ---              | 44.71            | 54.00          | 9.29        | 150.0       | V   | 33.0          | 10.8         |

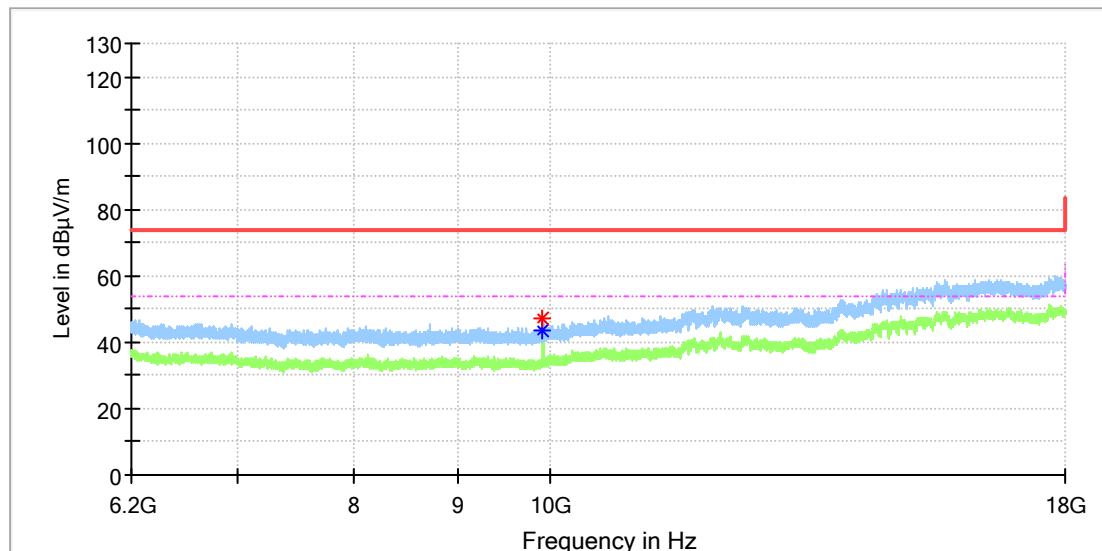
## Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

# Test Report

## EUT Information

|                     |                            |
|---------------------|----------------------------|
| EUT Name:           | Bluetooth Stereo Turntable |
| Model:              | NS-BTST21                  |
| Test Mode:          | BR_DH5_High channel        |
| Order No/Sample No: | 168506533/A003829055-002   |
| Test Voltage::      | DC 5V From USB             |
| Remark:             | Temp 23 Humi:58%           |
| Test Standard:      | FCC 15.247                 |
| Tested By:          | Kei Zhang                  |
| Reviewed By:        | Terry Yin                  |



## Critical Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 9919.950000     | 47.19            | ---              | 74.00          | 26.81       | 150.0       | H   | 63.0          | 10.8         |
| 9919.950000     | ---              | 43.75            | 54.00          | 10.25       | 150.0       | H   | 63.0          | 10.8         |

## Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## Appendix A.7: Test Results of Radiated Emissions in Restricted Bands

### Conducted Test

#### Test Result

| TestMode | Antenna | ChName  | Channel | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|---------|---------|----------------|--------------|-------------|---------|
| DH5      | Ant1    | Low     | 2402    | 3.38           | -42.95       | ≤-16.62     | PASS    |
|          |         | High    | 2480    | 1.73           | -42.91       | ≤-18.27     | PASS    |
| 3DH5     | Ant1    | Low     | 2402    | 3.39           | -44.46       | ≤-16.61     | PASS    |
|          |         | High    | 2480    | 2.16           | -43.21       | ≤-17.85     | PASS    |
| DH5      | Ant1    | Hopping | 2402    | 1.96           | -44.50       | ≤-18.64     | PASS    |
|          |         | Hopping | 2480    | 1.35           | -44.69       | ≤-18.65     | PASS    |
| 3DH5     | Ant1    | Hopping | 2402    | 3.41           | -42.92       | ≤-16.59     | PASS    |
|          |         | Hopping | 2480    | -3.31          | -43.75       | ≤-23.31     | PASS    |

#### Test Graphs





3DH5 Ant1 High 2480



DH5 Ant1 Hopping 2402



DH5 Ant1 Hopping 2480

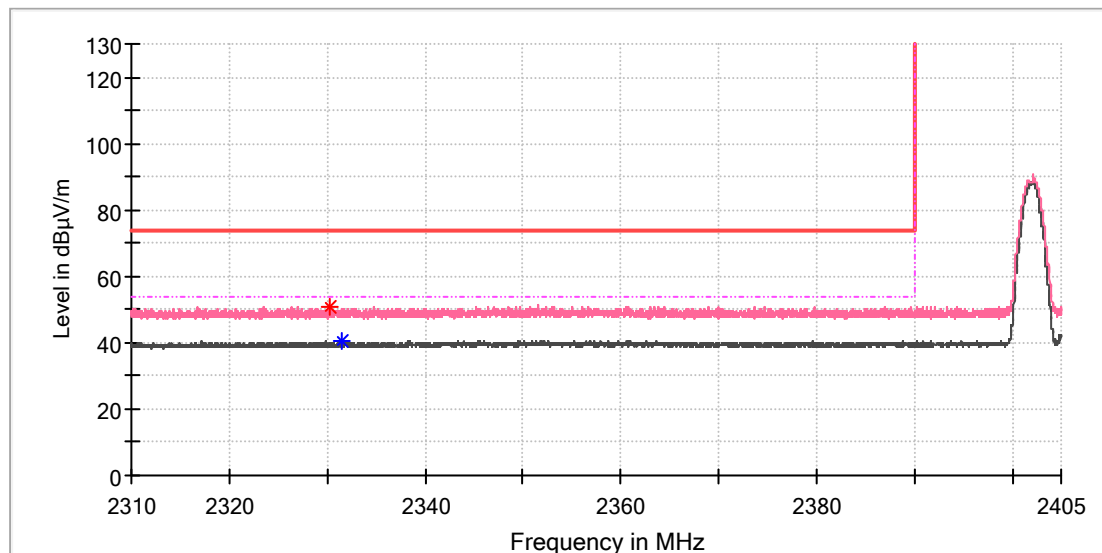


## Radiated Test

# Test Report

## EUT Information

EUT Name: Bluetooth Stereo Turntable  
Model: NS-BTST21  
Test Mode: BR\_DH5\_Low channel  
Order No/Sample No: 168506533/A003829055-002  
Test Voltage:: DC 5V From USB  
Remark: Temp 23 Humi:58%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2330.201471     | 50.97            | ---              | 74.00          | 23.03       | 150.0       | V   | 8.0           | 8.3          |
| 2331.444853     | ---              | 40.39            | 54.00          | 13.61       | 150.0       | V   | 49.0          | 8.3          |

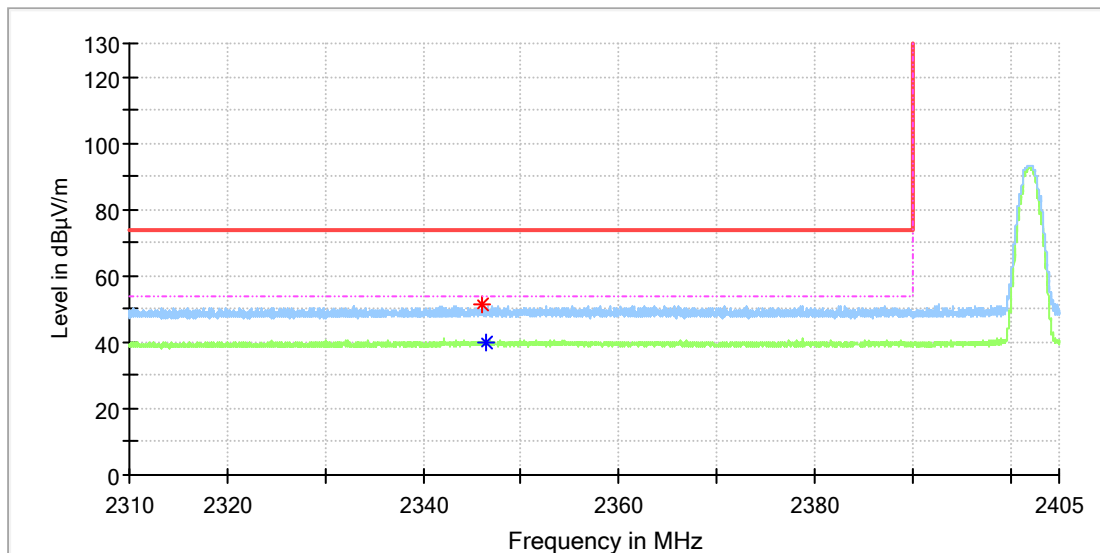
## Final\_Result

| Frequency (MHz) | MaxPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## Test Report

### EUT Information

|                     |                            |
|---------------------|----------------------------|
| EUT Name:           | Bluetooth Stereo Turntable |
| Model:              | NS-BTST21                  |
| Test Mode:          | BR_DH5_Low channel         |
| Order No/Sample No: | 168506533/A003829055-002   |
| Test Voltage::      | DC 5V From USB             |
| Remark:             | Temp 23 Humi:58%           |
| Test Standard:      | FCC 15.247                 |
| Tested By:          | Kei Zhang                  |
| Reviewed By:        | Terry Yin                  |



### Critical Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2346.113971     | 51.26            | ---              | 74.00          | 22.74       | 150.0       | H   | 140.0         | 8.5          |
| 2346.379412     | ---              | 40.18            | 54.00          | 13.82       | 150.0       | H   | 204.0         | 8.5          |

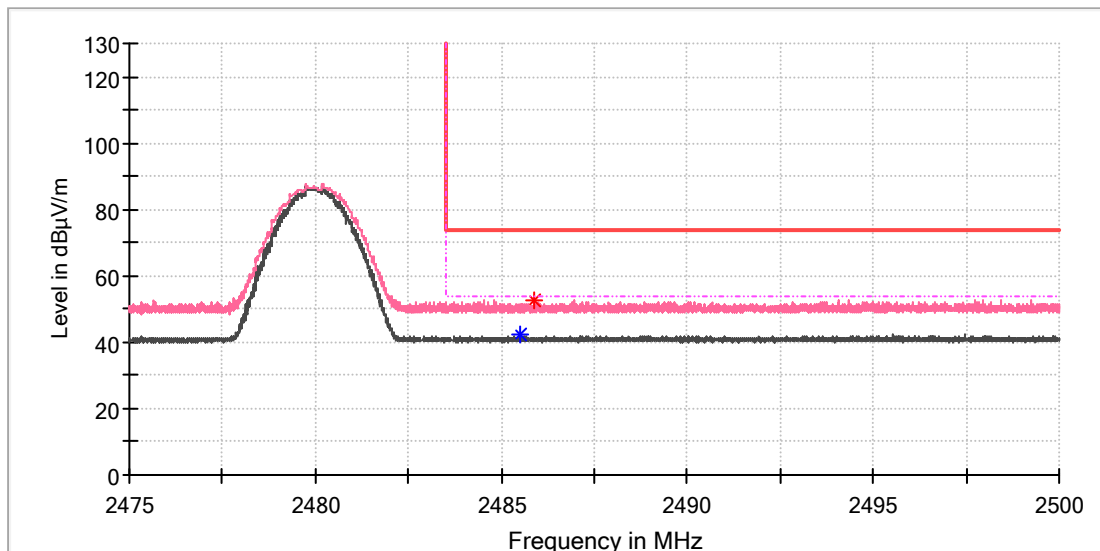
### Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## Test Report

### EUT Information

|                     |                            |
|---------------------|----------------------------|
| EUT Name:           | Bluetooth Stereo Turntable |
| Model:              | NS-BTST21                  |
| Test Mode:          | BR_DH5_High channel        |
| Order No/Sample No: | 168506533/A003829055-002   |
| Test Voltage::      | DC 5V From USB             |
| Remark:             | Temp 23 Humi:58%           |
| Test Standard:      | FCC 15.247                 |
| Tested By:          | Kei Zhang                  |
| Reviewed By:        | Terry Yin                  |



### Critical Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2485.525735     | ---              | 42.07            | 54.00          | 11.93       | 150.0       | V   | 136.0         | 9.0          |
| 2485.900735     | 52.74            | ---              | 74.00          | 21.26       | 150.0       | V   | 150.0         | 9.0          |

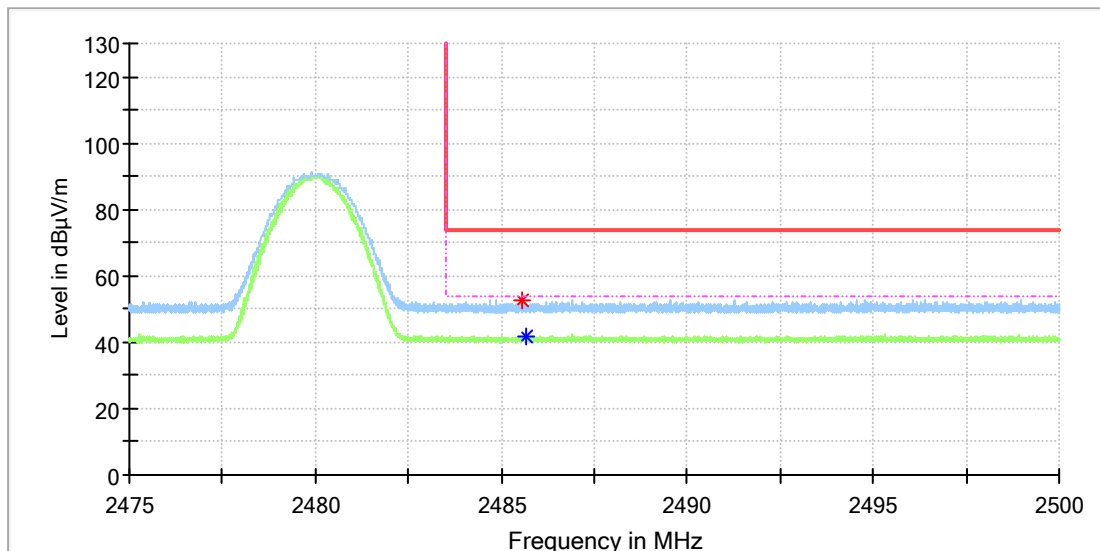
### Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## Test Report

### EUT Information

|                     |                            |
|---------------------|----------------------------|
| EUT Name:           | Bluetooth Stereo Turntable |
| Model:              | NS-BTST21                  |
| Test Mode:          | BR_DH5_High channel        |
| Order No/Sample No: | 168506533/A003829055-002   |
| Test Voltage::      | DC 5V From USB             |
| Remark:             | Temp 23 Humi:58%           |
| Test Standard:      | FCC 15.247                 |
| Tested By:          | Kei Zhang                  |
| Reviewed By:        | Terry Yin                  |



### Critical Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2485.544118     | 52.62            | ---              | 74.00          | 21.38       | 150.0       | H   | 125.0         | 9.0          |
| 2485.658088     | ---              | 41.68            | 54.00          | 12.32       | 150.0       | H   | 211.0         | 9.0          |

### Final Result

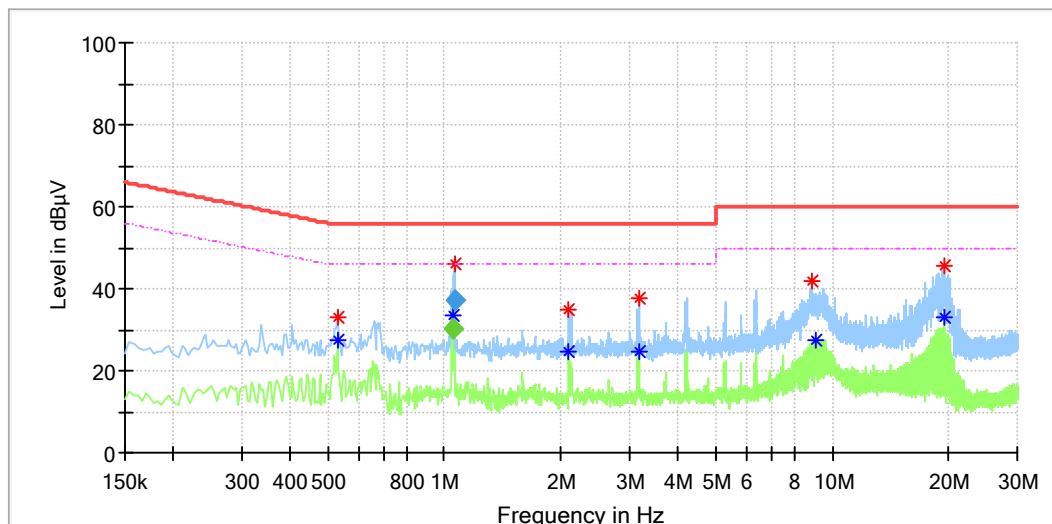
| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## Appendix A.8: Test Plots of Conducted Emission on AC Mains

# Test Report

## EUT Information

|                     |                            |
|---------------------|----------------------------|
| EUT Name:           | Bluetooth Stereo Turntable |
| Order Number:       | 168506533                  |
| Model:              | NS-BTST21                  |
| Test Mode:          | Normal Working             |
| Test Voltage:       | AC 120V/60Hz               |
| Test Standard:      | FCC Part 15C               |
| Test By:/Review By: | Aric Wang / Shower Dai     |
| Tem./Hum./Pressure: | 24.2°C/52.2%/101kPa        |
| Remark:             | SR3                        |



## Critical Freqs

| Frequency (MHz) | MaxPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Line | Corr. (dB) |
|-----------------|----------------|----------------|--------------|-------------|------|------------|
| 0.530000        | ---            | 27.43          | 46.00        | 18.57       | L1   | 10.0       |
| 0.530000        | 32.91          | ---            | 56.00        | 23.09       | L1   | 10.0       |
| 1.057500        | ---            | 33.32          | 46.00        | 12.68       | L1   | 10.0       |
| 1.066500        | 45.99          | ---            | 56.00        | 10.01       | L1   | 10.0       |
| 2.090000        | ---            | 24.45          | 46.00        | 21.55       | L1   | 10.1       |
| 2.094000        | 34.97          | ---            | 56.00        | 21.03       | L1   | 10.1       |
| 3.182000        | ---            | 24.81          | 46.00        | 21.19       | L1   | 10.2       |
| 3.186000        | 37.76          | ---            | 56.00        | 18.25       | L1   | 10.2       |
| 8.906000        | 41.72          | ---            | 60.00        | 18.28       | L1   | 10.3       |
| 9.118000        | ---            | 27.31          | 50.00        | 22.69       | L1   | 10.3       |
| 19.386000       | 45.50          | ---            | 60.00        | 14.50       | L1   | 10.4       |
| 19.386000       | ---            | 32.99          | 50.00        | 17.01       | L1   | 10.4       |

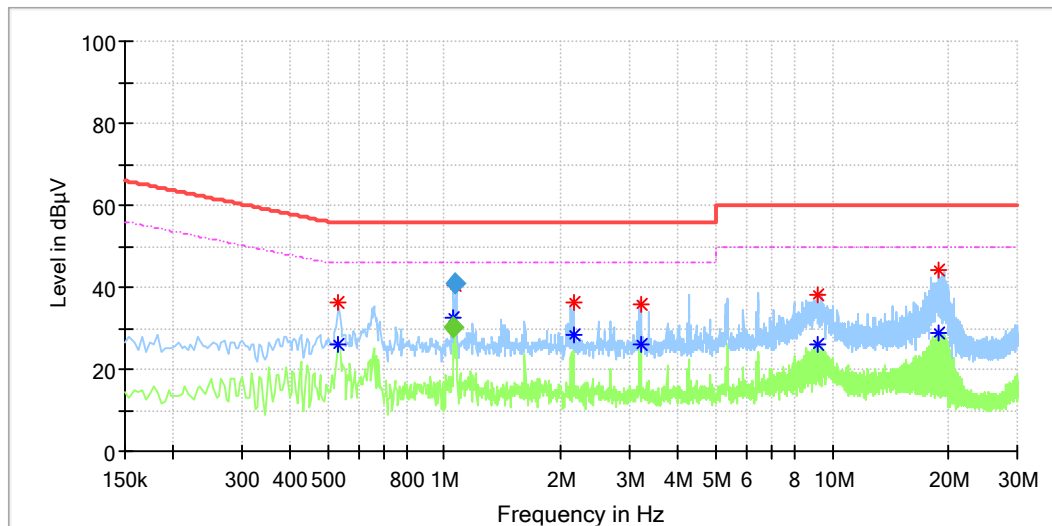
## Final Result

| Frequency (MHz) | QuasiPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------|----------------|--------------|-------------|-----------------|-----------------|------|------------|
| 1.057500        | ---              | 30.33          | 46.00        | 15.67       | 1000.0          | 9.000           | L1   | 10.0       |
| 1.066500        | 37.00            | ---            | 56.00        | 19.00       | 1000.0          | 9.000           | L1   | 10.0       |

# Test Report

## EUT Information

EUT Name: Bluetooth Stereo Turntable  
Order Number: 168506533  
Model: NS-BTST21  
Test Mode: Normal Working  
Test Voltage: AC 120V/60Hz  
Test Standard: FCC Part 15C  
Test By:/Review By: Aric Wang / Shower Dai  
Tem./Hum./Pressure: 24.2°C/52.2%/101kPa  
Remark: SR3



## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Line | Corr. (dB) |
|-----------------|----------------|----------------|--------------|-------------|------|------------|
| 0.534000        | 36.20          | ---            | 56.00        | 19.80       | N    | 9.8        |
| 0.534000        | ---            | 25.90          | 46.00        | 20.10       | N    | 9.8        |
| 1.057500        | ---            | 32.63          | 46.00        | 13.37       | N    | 9.8        |
| 1.069500        | 40.38          | ---            | 56.00        | 15.62       | N    | 9.8        |
| 2.146000        | 36.13          | ---            | 56.00        | 19.87       | N    | 9.9        |
| 2.146000        | ---            | 28.35          | 46.00        | 17.65       | N    | 9.9        |
| 3.218000        | 35.67          | ---            | 56.00        | 20.33       | N    | 9.9        |
| 3.222000        | ---            | 26.24          | 46.00        | 19.76       | N    | 9.9        |
| 9.150000        | 38.09          | ---            | 60.00        | 21.91       | N    | 10.0       |
| 9.158000        | ---            | 26.06          | 50.00        | 23.94       | N    | 10.0       |
| 18.854000       | 44.25          | ---            | 60.00        | 15.75       | N    | 10.2       |
| 18.906000       | ---            | 28.69          | 50.00        | 21.31       | N    | 10.2       |

## Final\_Result

| Frequency (MHz) | QuasiPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------|----------------|--------------|-------------|-----------------|-----------------|------|------------|
| 1.057500        | ---              | 30.18          | 46.00        | 15.82       | 1000.0          | 9.000           | N    | 9.8        |
| 1.069500        | 41.09            | ---            | 56.00        | 14.91       | 1000.0          | 9.000           | N    | 9.8        |