

Prüfbericht-Nr.: Test report no.:	CN266YZ0 001	Auftrags-Nr.: Order no.:	170468186	Seite 1 von 23 Page 1 of 23
Kunden-Referenz-Nr.: Client reference no.:	2781022	Auftragsdatum: Order date:	2026.07.06	
Auftraggeber: Client:	Reudyn Innovation (Shenzhen) Technology Co., Ltd. Unit A, Floor 12, Building 12, North Zone, Baoneng Science Park, No.1 Qingxiang Road, Clear lake Community, Longhua Street, Shenzhen, Guangdong P.R. China			
Prüfgegenstand: Test item:	Hip Exoskeleton			
Bezeichnung / Typ-Nr.: Identification / Type no.:	Hip X26L-D, Hip X26M-D, Hip X26L-A, Hip X26M-A, Hip X26L-B, Hip X26M-B, Hip X26L-C, Hip X26M-C, Hip X26L-H, Hip X26M-H, Hip X26L-K, Hip X26M-K, Hip X26L-T, Hip X26M-T, Hip X26L-W, Hip X26M-W			
Auftrags-Inhalt: Order content:	FCC&IC approval			
Prüfgrundlage: Test specification:	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209 CFR47 FCC Part 2: Section 2.1091 RSS-247 Issue 4 July 24, 2025 RSS-Gen Issue 5 April 2018, Amendment 1(March 2019), Amendment 2(February 2021) RSS-102 Issue 6 December 15, 2023			
Wareneingangsdatum: Date of sample receipt:	2026.07.13			
Prüfmuster-Nr.: Test sample no.:	A004321220 002-005			
Prüfzeitraum: Testing period:	Refer to test report			
Ort der Prüfung: Place of testing:	Refer to section 2			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Guangdong) Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:	<u>Joe Chen</u>		genehmigt von: authorized by:	<u>Webb Luo</u>
Datum: Date: 2026-10-19	Signed by: Joe Chen		Ausstellungsdatum: Issue date: 2026-10-19	Signed by: Webb Luo
Stellung / Position:	SPE		Stellung / Position:	Authorizer
Sonstiges / Other:	FCC ID: 2BW7L-HIPX26 IC: 35926-HIPX26 HVIN: Same as model name			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet			
* Legend:	P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested			
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. <i>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.</i>				

Prüfbericht-Nr.: CN266YZ0 001
Test report no.:

Seite 2 von 23
Page 2 of 23

Anmerkungen Remarks

1	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. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <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>
2	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. Informationen zur Verifizierung der Authentizität unserer Dokumente erhalten Sie auf folgender Webseite: go.tuv.com/digital-signature <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. For information on verifying the authenticity of our documents, please visit the following website: go.tuv.com/digital-signature</i>
3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	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. <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>

Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 CONDUCTED POWER SPECTRAL DENSITY

RESULT: Pass

5.1.4 6dB BANDWIDTH

RESULT: Pass

5.1.5 99% BANDWIDTH

RESULT: Pass

5.1.6 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH

RESULT: Pass

5.1.7 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.8 CONDUCTED EMISSION ON AC MAINS

RESULT: N/A

6.1.1 ELECTROMAGNETIC FIELDS

RESULT: Pass

Contents

1	GENERAL REMARKS	5
1.1	COMPLEMENTARY MATERIALS	5
2	TEST SITES	5
2.1	TEST FACILITIES	5
2.2	LIST OF TEST AND MEASUREMENT INSTRUMENTS.....	6
2.3	TRACEABILITY	6
2.4	CALIBRATION	6
2.5	MEASUREMENT UNCERTAINTY.....	6
2.6	LOCATION OF ORIGINAL DATA.....	7
2.7	STATUS OF FACILITY USED FOR TESTING.....	7
3	GENERAL PRODUCT INFORMATION	8
3.1	PRODUCT FUNCTION AND INTENDED USE.....	8
3.2	RATINGS AND SYSTEM DETAILS	9
3.3	INDEPENDENT OPERATION MODES	10
3.4	NOISE GENERATING AND NOISE SUPPRESSING PARTS.....	10
3.5	SUBMITTED DOCUMENTS.....	10
4	TEST SET-UP AND OPERATION MODES	11
4.1	PRINCIPLE OF CONFIGURATION SELECTION	11
4.2	TEST OPERATION AND TEST SOFTWARE.....	11
4.3	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	11
4.4	COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE.....	11
4.5	TEST SETUP DIAGRAM.....	12
5	TEST RESULTS	14
5.1	TRANSMITTER REQUIREMENT & TEST SUITES	14
5.1.1	<i>Antenna Requirement</i>	<i>14</i>
5.1.2	<i>Maximum Conducted Output Power</i>	<i>15</i>
5.1.3	<i>Conducted Power Spectral Density</i>	<i>16</i>
5.1.4	<i>6dB Bandwidth</i>	<i>17</i>
5.1.5	<i>99% Bandwidth</i>	<i>18</i>
5.1.6	<i>Conducted Spurious Emissions Measured in 100 kHz Bandwidth</i>	<i>19</i>
5.1.7	<i>Radiated Spurious Emission</i>	<i>20</i>
5.1.8	<i>Conducted Emission on AC Mains.....</i>	<i>21</i>
6	SAFETY HUMAN EXPOSURE	22
6.1	RADIO FREQUENCY EXPOSURE COMPLIANCE	22
6.1.1	<i>Electromagnetic Fields</i>	<i>22</i>
7	PHOTOGRAPHS OF THE TEST SET-UP	23
8	LIST OF TABLES.....	23

1 General Remarks

1.1 Complementary Materials

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

Appendix 1: Photographs of the Test Set-up

Appendix 2: Test Results

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Guangdong) Ltd. EMC Laboratory

1&2/F, Building B, No.767 Tianyuan Road, Tianhe District, Guangzhou, Guangdong, China

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

For the measurement Equipment list, refer to the appendix 2.

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.

Item		Extended Uncertainty
Conducted Emission		± 2.28 dB
Radiated Emission (9kHz-30MHz)	Field strength (dB μ V/m)	U=2.56dB, k=2, σ =95%
Radiated Emission (30-1000MHz)	Field strength (dB μ V/m)	U=5.34dB, k=2, σ =95%
Radiated Emission (above 1000MHz)	Field strength (dB μ V/m)	U=4.56dB, k=2, σ =95%
Radio Spectrum		± 1.15 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix 2 of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Guangdong) Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

TÜV Rheinland (Guangdong) Ltd. is listed on the US Federal Communications Commission list of facilities approved to perform measurements, whose designation number is CN1207.

TÜV Rheinland (Guangdong) Ltd. is listed on the ISED list of facilities approved to perform measurements, whose company number is 2932C

3 General Product Information

3.1 Product Function and Intended Use

The models listed in section 3.2 are rechargeable Hip Exoskeleton for assist people in walking. The unit supports Bluetooth LE technologies.

Model difference

1). All models **Hip X26L-D**, Hip X26M-D, Hip X26L-A, Hip X26M-A, Hip X26L-B, Hip X26M-B, Hip X26L-C, Hip X26M-C, Hip X26L-H, Hip X26M-H, Hip X26L-K, Hip X26M-K, Hip X26L-T, Hip X26M-T, Hip X26L-W, Hip X26M-W have the same circuit diagram, PCB layout, wireless module and internal structure except for model name and size.

2) In the model: "HIP X26" is fixed as the product model code, "M" is the medium size, "L" is the large size, "A" represents Amazon, "B" represents Bestbuy, "C" represents Costco, "D" represents DTC, "H" represents Homedepot, "K" represents TikTok, "T" represents Target, "W" represents Walmart.

3). The only difference between the L and M sizes of all models is size. The specific difference is that the L size has an additional belt buckle on the belt compared to the M size. The length of a metal buckle is 3.8cm.

According to the above information, all applicable tests were performed on **Hip X26L-D** in this report.
(In appendix 2, the model EG01 is factory model, which is same as **Hip X26L-D**)

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

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment	Hip Exoskeleton
Type Designation	Hip X26L-D , Hip X26M-D, Hip X26L-A, Hip X26M-A, Hip X26L-B, Hip X26M-B, Hip X26L-C, Hip X26M-C, Hip X26L-H, Hip X26M-H, Hip X26L-K, Hip X26M-K, Hip X26L-T, Hip X26M-T, Hip X26L-W, Hip X26M-W
Extreme Temperature Range	-20 °C ~ 55 °C
Charing input of internal battery	DC 25.2V Max, 4A Max
Battery Voltage	DC 21.6V
Testing Voltage	Complete machine powered by Internal DC 21.6V battery, DC 3.3V for module
Technical Specification of Bluetooth (Bluetooth Low Energy mode)	
Operating Frequency band	2402MHz to 2480 MHz
Modulation	GFSK
Channel Number	Low Energy mode:40 channels
Channel separation	Low Energy mode:1MHz, 2MHz
Antenna Type	PCB Antenna
Antenna Gain	3.96 dBi max
Note: All information as declared by the manufacturer.	

Table 3: RF Channel and Frequency of Bluetooth Low Energy

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
00	2402.00	10	2422.00	20	2442.00	30	2462.00
01	2404.00	11	2424.00	21	2444.00	31	2464.00
02	2406.00	12	2426.00	22	2446.00	32	2466.00
03	2408.00	13	2428.00	23	2448.00	33	2468.00
04	2410.00	14	2430.00	24	2450.00	34	2470.00
05	2412.00	15	2432.00	25	2452.00	35	2472.00
06	2414.00	16	2434.00	26	2454.00	36	2474.00
07	2416.00	17	2436.00	27	2456.00	37	2476.00
08	2418.00	18	2438.00	28	2458.00	38	2478.00
09	2420.00	19	2440.00	29	2460.00	39	2480.00

3.3 Independent Operation Modes

The basic operation modes are:

- A. On
 - 1. Traditional Bluetooth (BLE mode or Wi-Fi mode)
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- B. On, Traditional Bluetooth on Hopping channel
- C. On, Normal operation mode with Bluetooth connected
- D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- | | |
|----------------------------------|--------------------------|
| - Application Form | - Photo Document |
| - Block Diagram | - Schematics |
| - FCC/IC Label and Location Info | - User Manual |
| - Operation Description | - Difference declaration |

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 C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024.

According to clause 3.1, all tests were performed on model Hip X26L-D in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 4: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Notebook	Lenovo	T14	PF-35VTG1	N/A
Mobile phone	Xiaomi	Mi 11	29667/R2RK01332	N/A

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)

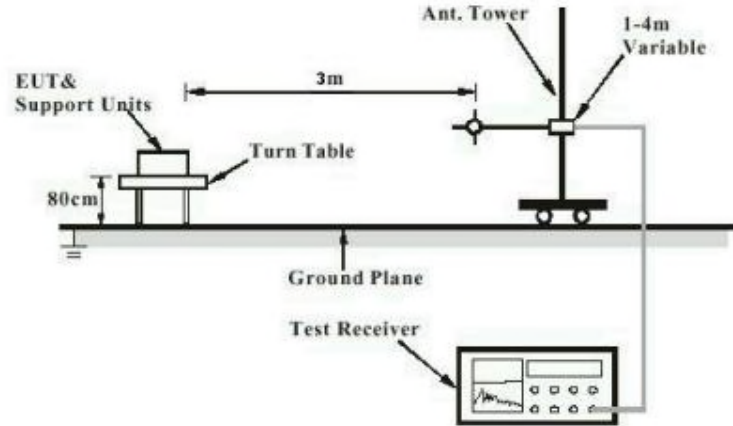


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

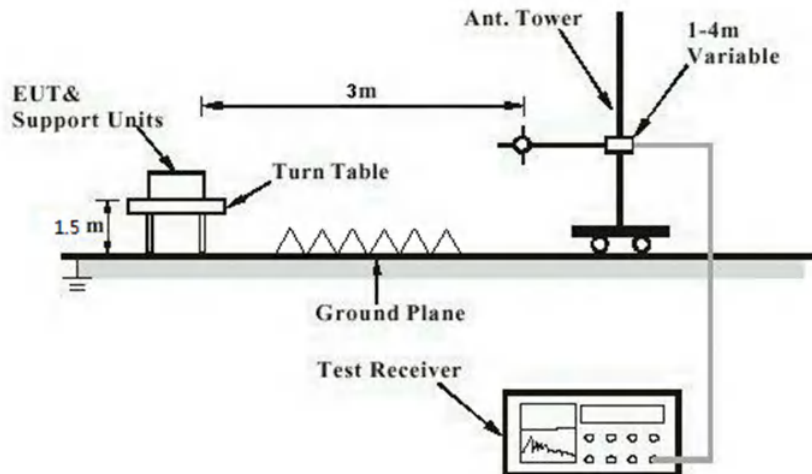


Diagram of Measurement Configuration for Mains Conduction Measurement

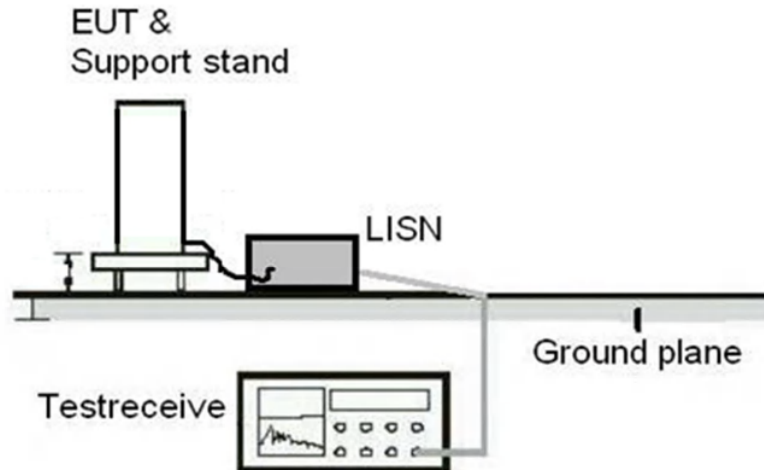
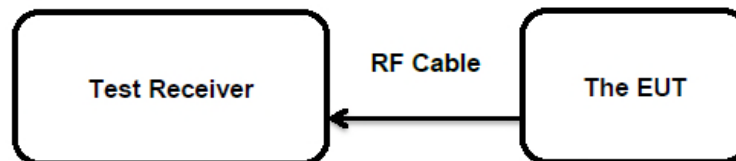


Diagram of Measurement Configuration for Conducted Transmitter Measurement



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
RSS-Gen Clause 6.8

According to the manufacturer declared, the EUT have one internal antennas, the directional gain of antennas is 3.96 dBi, 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.

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

Refer to EUT Photo for further details.

5.1.2 Maximum Conducted Output Power

RESULT: **Pass**

Test Specification

Test standard	: FCC Part 15.247(b)(3) RSS-247 Clause 6.2.3.2 and 6.3.2
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	: BLE < 1 Watts
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 22.07.2026
Input voltage	: Internal DC 21.6V battery, DC 3.3V for module
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 53 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix 2. The test data in appendix 2 is the worst result after the EUTs were tested with all mode.

Note:

- 1) The cable loss has been taken into account in results.
- 2) Antenna gain(G): 3.96 dBi.

5.1.3 Conducted Power Spectral Density

RESULT: **Pass**

Test Specification

Test standard	: FCC Part 15.247(e) RSS-247 Clause 6.3.1
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 22.07.2026
Input voltage	: Internal DC 21.6V battery, DC 3.3V for module
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 53 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix 2. The test data in appendix 2 is the worst result after the EUTs were tested with all mode.

5.1.4 6dB Bandwidth

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(a)(2)
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	: More than 500 KHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 22.07.2026
Input voltage	: Internal DC 21.6V battery, DC 3.3V for module
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 53 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix 2. The test data in appendix 2 is the worst result after the EUTs were tested with all mode.

Prüfbericht - Nr.: CN266YZ0 001
Test Report No.Seite 18 von 23
Page 18 of 23

5.1.5 99% Bandwidth

RESULT:

Pass

Test Specification

Test standard	: RSS-Gen Clause 6.7
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 22.07.2026
Input voltage	: Internal DC 21.6V battery, DC 3.3V for module
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 53 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix 2. The test data in appendix 2 is the worst result after the EUTs were tested with all mode.

5.1.6 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

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

Test standard	: FCC Part 15.247(d) RSS-247 Clause 6.6
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
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	: Refer to test result
Input voltage	: Internal DC 21.6V battery, DC 3.3V for module
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 53 %
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 2. The test data in appendix 2 is the worst result after the EUTs were tested with all mode.

5.1.7 Radiated Spurious Emission

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

Test standard : FCC Part 15.247(d) & FCC Part 15.205
RSS-Gen Clause 8.9 and 8.10
Basic standard : ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+
C63.10a:2024
Limits : Refer to 15.209(a) of FCC part 15.247(d)
RSS-Gen Issue 5 Table 5

Kind of test site : 3m Semi-anechoic Chamber

Test Setup

Date of testing : Refer to test result
Input voltage : Internal DC 21.6V battery, DC 3.3V for module
Operation mode : A
Test channel : Low / Middle / High
Ambient temperature : 23 °C
Relative humidity : 56 %
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 2. The test data in appendix 2 is the worst result after the EUTs were tested with all mode.

Prüfbericht - Nr.: CN266YZ0 001
Test Report No.Seite 21 von 23
Page 21 of 23

5.1.8 Conducted Emission on AC Mains

RESULT:

N/A

Test Specification

Test standard	: FCC Part 15.207(a) RSS-Gen Clause 8.8
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Frequency range	: 0.15 – 30MHz
Limits	: FCC Part 15.207(a) RSS-Gen Table 4
Kind of test site	: Shielded Room

This product does not have an AC input port, and the battery needs to be disassembled separately and connected to a charging dock for charging.

6 Safety Human Exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:

Pass

Report No. CN266YZ0 001

Test Specification

Test item	Hip Exoskeleton
Identification / Type No.	Hip X26L-D
FCC ID	2BW7L-HIPX26
IC	35926-HIPX26
Test standard	CFR47 FCC Part 2: Section 2.1091 FCC KDB Publication 447498 D01 v06 RSS-102 Issue 6 December 15, 2023

Measurement Record:

The minimum distance for the EUT is less than 5mm.

For FCC:

Since maximum peak output power of the transmitter is $-1.29 \text{ dBm} \approx 0.743 \text{ mW} < \frac{3 \cdot d}{\sqrt{f}} = 9.52 \text{ mW}$.

Note: The maximum peak output power test data refer to Appendix 2.

Hence the EUT is excluded from SAR evaluation according to FCC KDB Publication 447498 D01 General RF Exposure Guidance v06.

For IC:

The maximum e.i.r.p. of the transmitter is $2.67 \text{ dBm} \approx 1.849 \text{ mW}$, which is below the SAR exclusion threshold level $3 \text{ mW} \approx 4.771 \text{ dBm}$.

The EUT is exempted from routine evaluation limits (SAR Evaluation) according to clause 6.3 of RSS-102 Issue 6.

7 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix 1.

8 List of Tables

Table 1: List of Test and Measurement Equipment.....	6
Table 2: Technical Specification of EUT	9
Table 3: RF Channel and Frequency of Bluetooth Low Energy	9
Table 4: List of Accessories and Auxiliary Equipment.....	11

Test Results

TEST RESULTS	1
1. MEASUREMENT EQUIPMENT LIST.....	2
2. DTS BANDWIDTH	3
BLE mode	3
3. OCCUPIED CHANNEL BANDWIDTH.....	6
BLE mode	6
4. MAXIMUM CONDUCTED OUTPUT POWER	9
BLE mode	9
5. MAXIMUM POWER SPECTRAL DENSITY	12
BLE mode	12
6. BAND EDGE MEASUREMENTS.....	15
BLE mode	15
7. CONDUCTED SPURIOUS EMISSION.....	17
BLE mode	17
8. EMISSIONS IN RESTRICTED BANDS.....	26
BLE mode	26
9. TEST RESULTS OF RADIATED SPURIOUS EMISSIONS	27
BLE mode	27

1. Measurement Equipment List

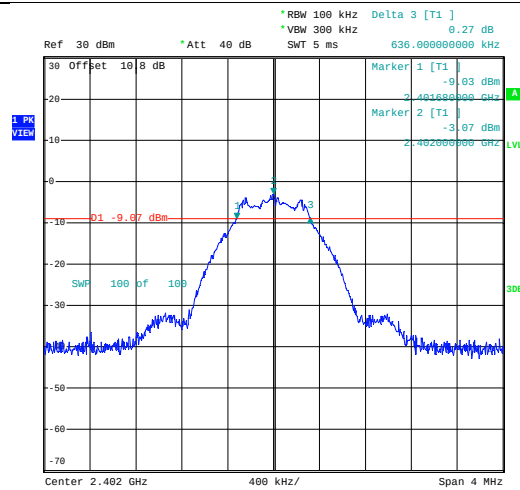
Test Equipment	Model	Manufacturer	Serial No.	Cal Until
Radio Spectrum Test				
Spectrum Analyzer	FSP30	Rohde & Schwarz	100286	2026-11-23
EMI Test Receiver	Rohde&Schwarz	ESW8	101312	2026-11-28
Signal Generator	SMB100A	Rohde & Schwarz	115613	2027-03-01
Climatic Chamber	EL-04KA	GZ-ESPEC	6107116	2027-03-01
Attenuator	3.5TS2-6dB-26.5G	SHX	12042001	2027-03-03
Combiner/Divider	1515	Weinschel	PG325	2027-03-01
Spurious Emission (25MHz~26.5GHz)				
Spectrum Analyzer	FSP30	Rohde & Schwarz	100286	2026-11-23
EMI Test Receiver	Rohde&Schwarz	ESCI 3	100314	2027-03-03
Trilog-Broadband Antenna	VULB9168 (30MHz-1GHz)	SCHWARZBECK MESSELEKTRONIK	684	2027-08-25
Double-Ridged Waveguide Horn Antenna	HF907 (1-18GHz)	Rohde & Schwarz	100377	2027-03-17
Pre-amplifier	TAP01018050	Tonscend Technology	AP23L806032 7	2026-12-16
Band Reject Filter	BRM50702	Micro-Tronics	023	2027-07-11
3m Anechoic Chamber	N/A	Albatross Project GmbH	N/A	N/A

2. DTS Bandwidth

BLE mode

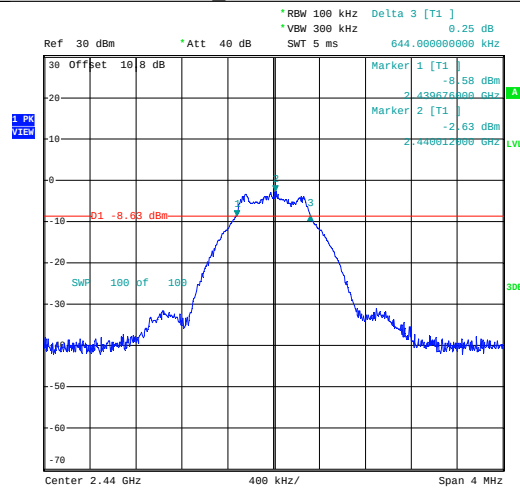
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.64	2401.68	2402.32	0.5	PASS
BLE_1M	Ant1	2440	0.64	2439.68	2440.32	0.5	PASS
BLE_1M	Ant1	2480	0.64	2479.68	2480.32	0.5	PASS
BLE_2M	Ant1	2402	1.12	2401.43	2402.55	0.5	PASS
BLE_2M	Ant1	2440	1.11	2439.44	2440.55	0.5	PASS
BLE_2M	Ant1	2480	1.11	2479.44	2480.55	0.5	PASS

Test Graphs



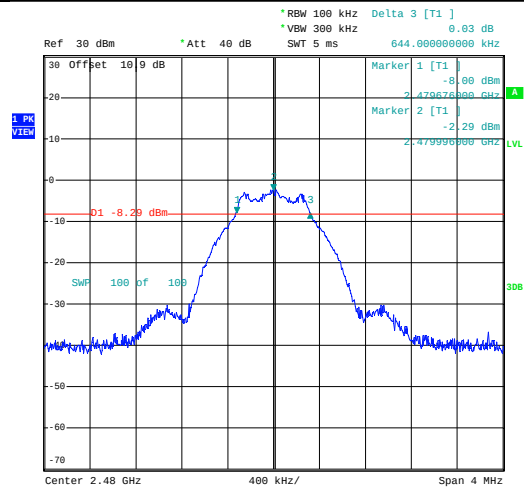
Date: 22.JUL.2026 18:54:43

BLE_1M-Ant1-2402-PASS



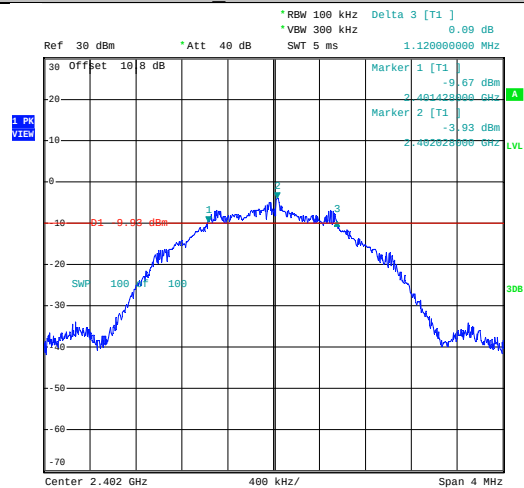
Date: 22.JUL.2026 19:01:20

BLE_1M-Ant1-2440-PASS



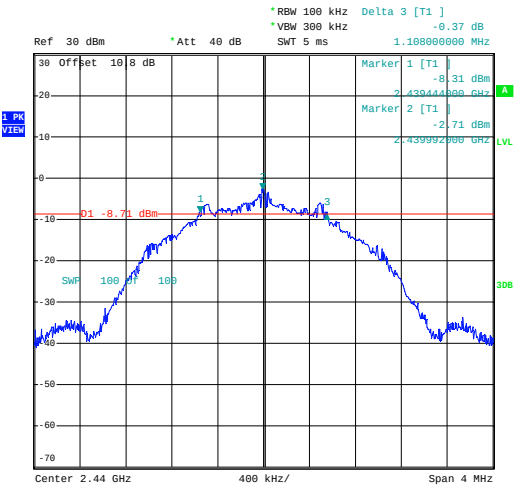
Date: 22.JUL.2026 19:07:27

BLE_1M-Ant1-2480-PASS



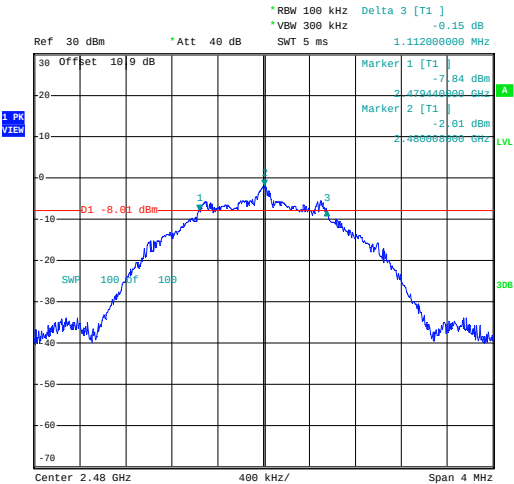
Date: 22.JUL.2026 19:23:51

BLE_2M-Ant1-2402-PASS



Date: 22.JUL.2026 19:29:04

BLE 2M-Ant1-2440-PASS



Date: 22.JUL.2026 19:51:51

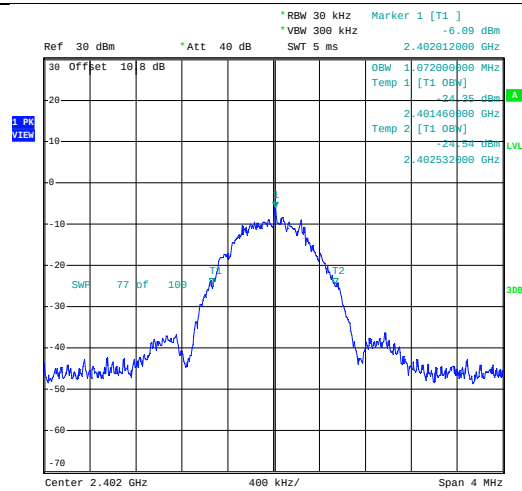
BLE 2M-Ant1-2480-PASS

3. Occupied Channel Bandwidth

BLE mode

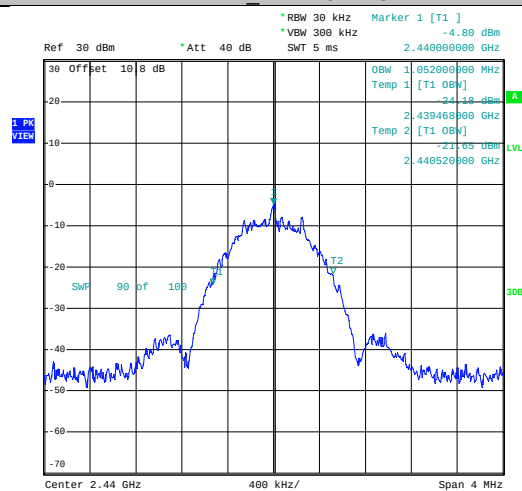
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE 1M	Ant1	2402	1.072	2401.4600	2402.5320	---	---
BLE 1M	Ant1	2440	1.052	2439.4680	2440.5200	---	---
BLE 1M	Ant1	2480	1.06	2479.4680	2480.5280	---	---
BLE 2M	Ant1	2402	2.06	2400.9680	2403.0280	---	---
BLE 2M	Ant1	2440	2.052	2438.9720	2441.0240	---	---
BLE 2M	Ant1	2480	2.064	2478.9640	2481.0280	---	---

Test Graphs



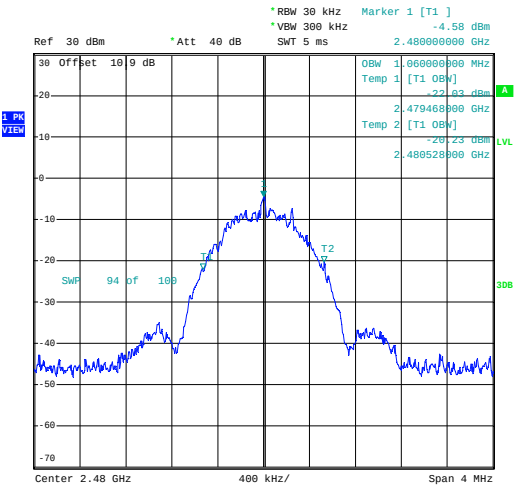
Date: 22.JUL.2026 18:54:51

BLE 1M-Ant1-2402



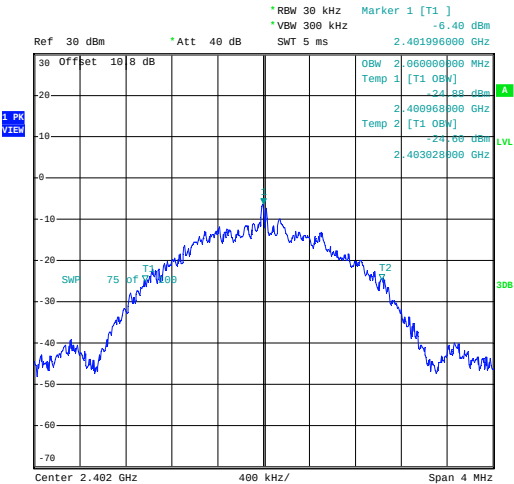
Date: 22.JUL.2026 19:01:27

BLE 1M-Ant1-2440



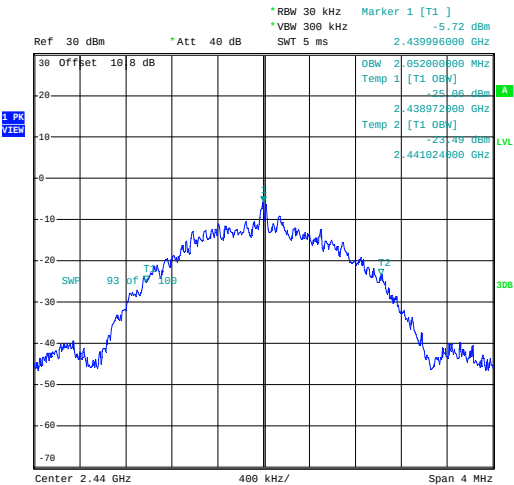
Date: 22.JUL.2026 19:07:34

BLE_1M-Ant1-2480



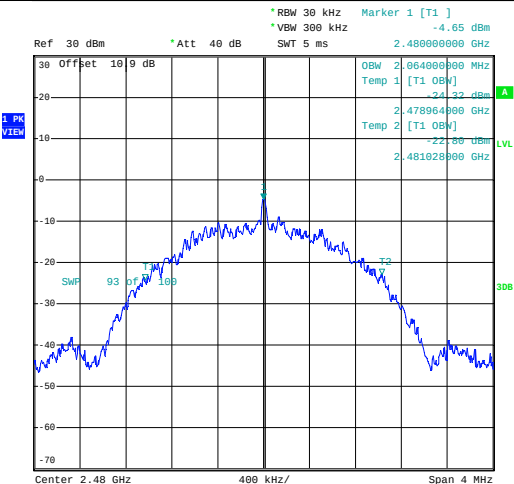
Date: 22.JUL.2026 19:23:58

BLE_2M-Ant1-2402



Date: 22.JUL.2026 19:29:11

BLE_2M-Ant1-2440



Date: 22.JUL.2026 19:51:59

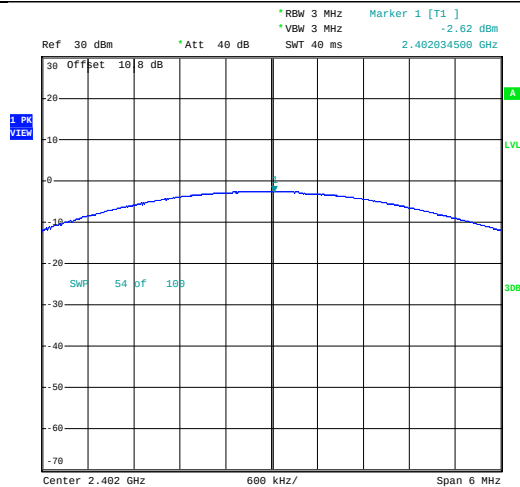
BLE_2M-Ant1-2480

4. Maximum conducted output power

BLE mode

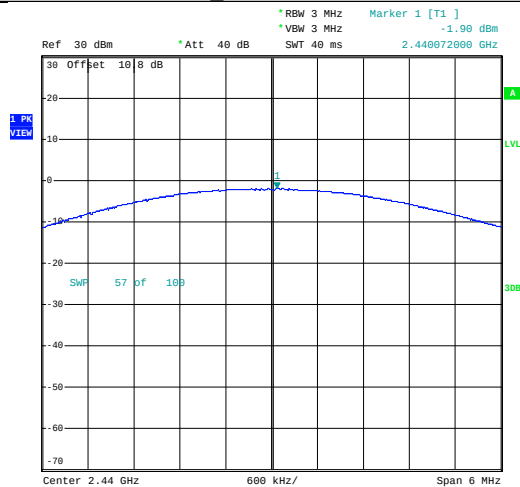
TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-2.62	≤30	1.34	≤36	PASS
BLE_1M	Ant1	2440	-1.90	≤30	2.06	≤36	PASS
BLE_1M	Ant1	2480	-1.45	≤30	2.51	≤36	PASS
BLE_2M	Ant1	2402	-2.61	≤30	1.35	≤36	PASS
BLE_2M	Ant1	2440	-1.93	≤30	2.03	≤36	PASS
BLE_2M	Ant1	2480	-1.29	≤30	2.67	≤36	PASS

Test Graphs Peak



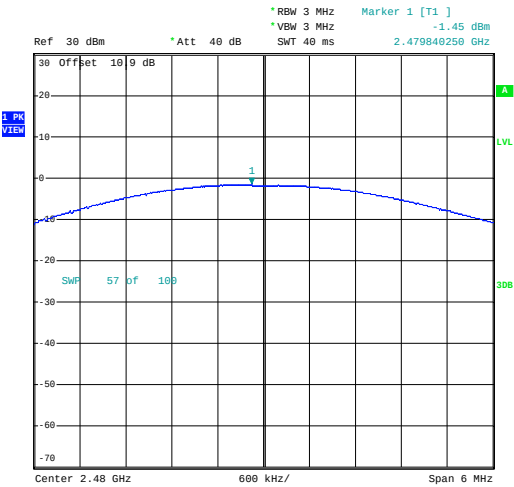
Date: 22.JUL.2026 18:55:06

BLE_1M-Ant1-2402-PASS



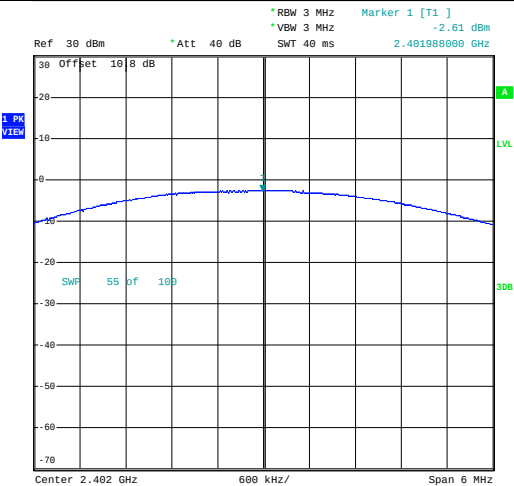
Date: 22.JUL.2026 19:02:00

BLE_1M-Ant1-2440-PASS



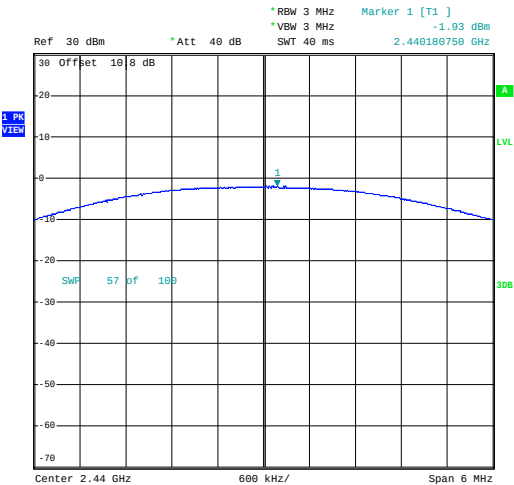
Date: 22.JUL.2026 19:07:49

BLE_1M-Ant1-2480-PASS



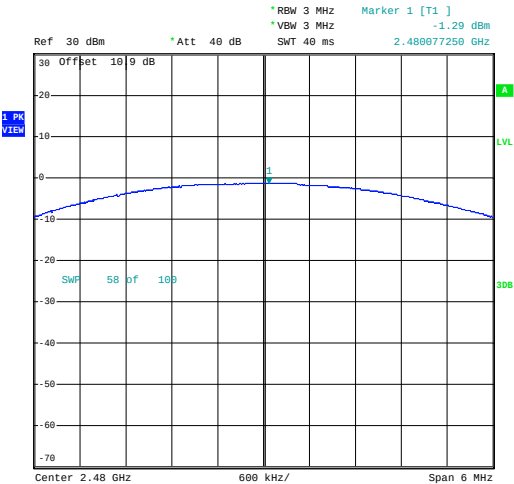
Date: 22.JUL.2026 19:24:20

BLE_2M-Ant1-2402-PASS



Date: 22.JUL.2026 19:29:27

BLE 2M-Ant1-2440-PASS



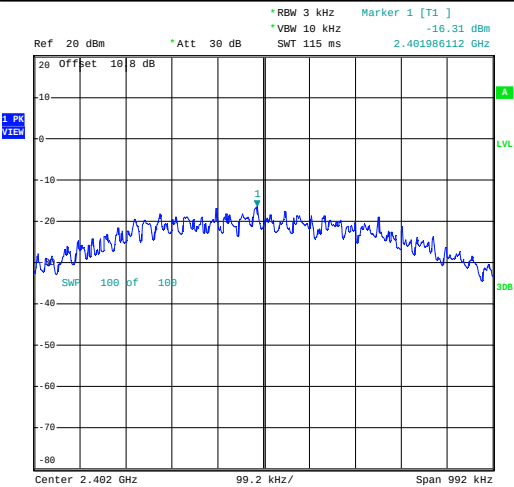
Date: 22.JUL.2026 19:52:16

BLE 2M-Ant1-2480-PASS

5. Maximum power spectral density

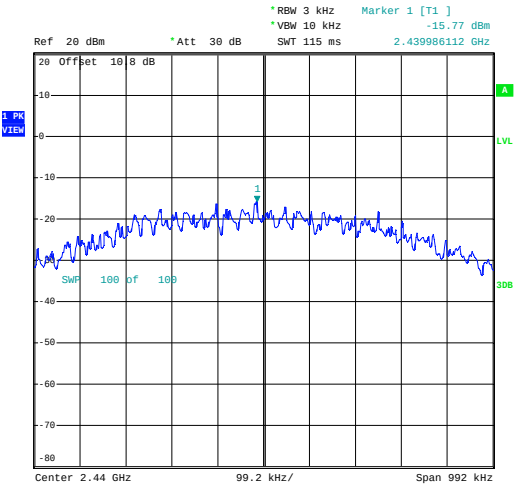
BLE mode

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.31	≤8.00	PASS
BLE_1M	Ant1	2440	-15.77	≤8.00	PASS
BLE_1M	Ant1	2480	-15.28	≤8.00	PASS
BLE_2M	Ant1	2402	-18.41	≤8.00	PASS
BLE_2M	Ant1	2440	-17.85	≤8.00	PASS
BLE_2M	Ant1	2480	-17.14	≤8.00	PASS



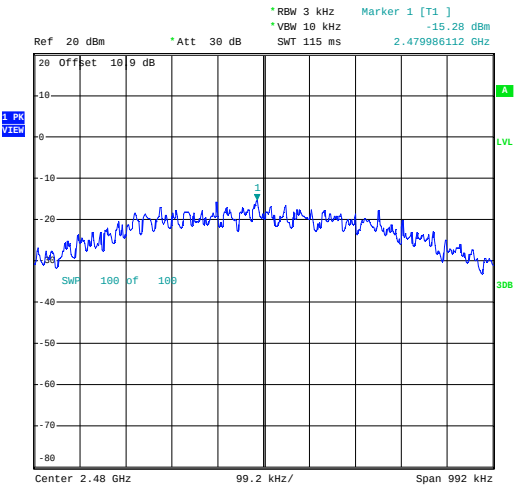
Date: 22.JUL.2026 18:55:35

BLE_1M-Ant1-2402-PASS



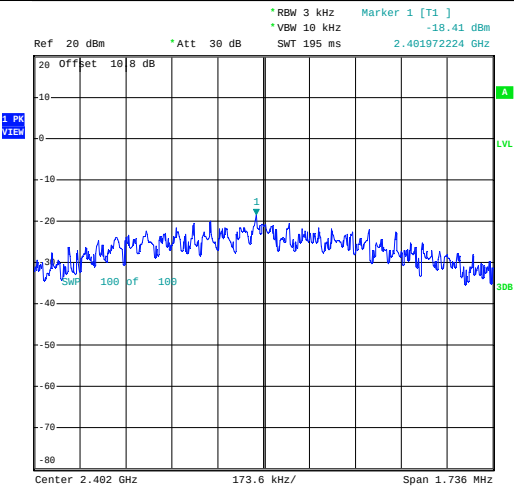
Date: 22.JUL.2026 19:02:41

BLE_1M-Ant1-2440-PASS



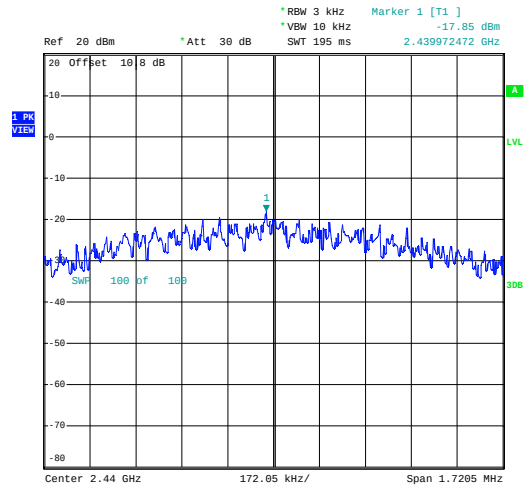
Date: 22.JUL.2026 19:08:17

BLE 1M-Ant1-2480-PASS



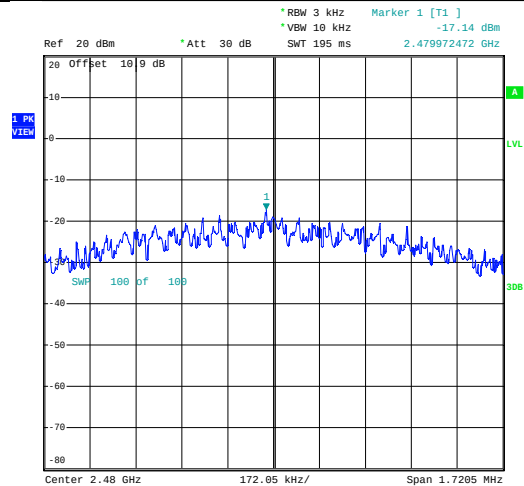
Date: 22.JUL.2026 19:25:03

BLE 2M-Ant1-2402-PASS



Date: 22.JUL.2026 19:33:05

BLE_2M-Ant1-2440-PASS



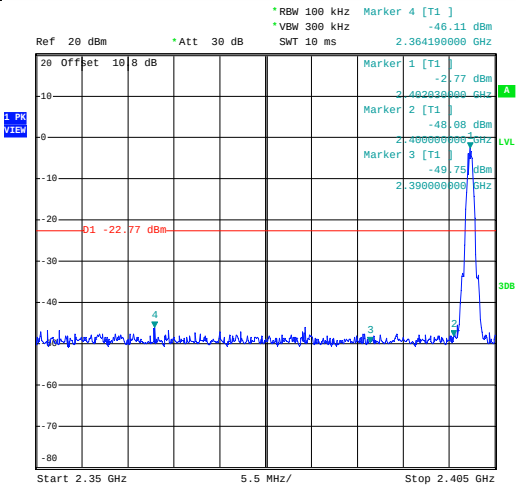
Date: 22.JUL.2026 19:52:55

BLE_2M-Ant1-2480-PASS

6. Band edge measurements

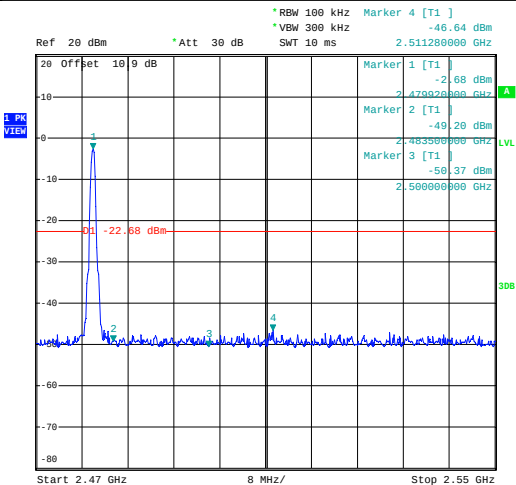
BLE mode

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.77	-46.11	≤-22.77	PASS
BLE_1M	Ant1	High	2480	-2.68	-46.64	≤-22.68	PASS
BLE_2M	Ant1	Low	2402	-3.30	-46.64	≤-23.3	PASS
BLE_2M	Ant1	High	2480	-1.57	-46.1	≤-21.57	PASS



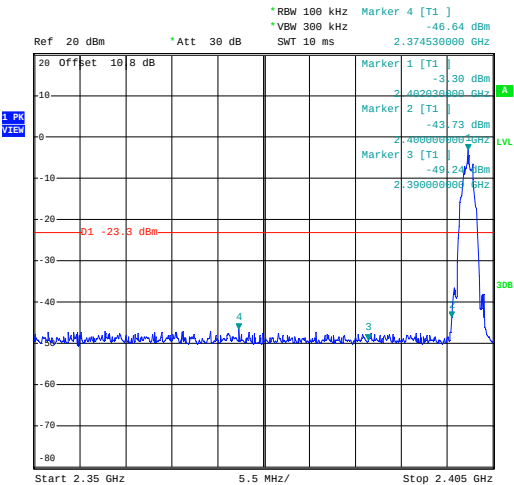
Date: 22.JUL.2026 18:55:47

BLE_1M-Ant1-2402-PASS



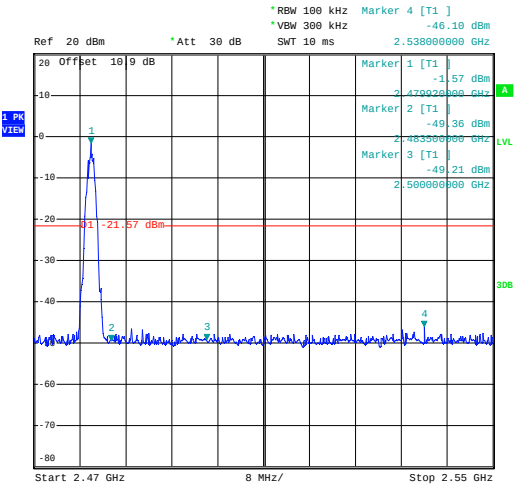
Date: 22.JUL.2026 19:08:28

BLE_1M-Ant1-2480-PASS



Date: 22.JUL.2026 19:25:14

BLE 2M-Ant1-2402-PASS



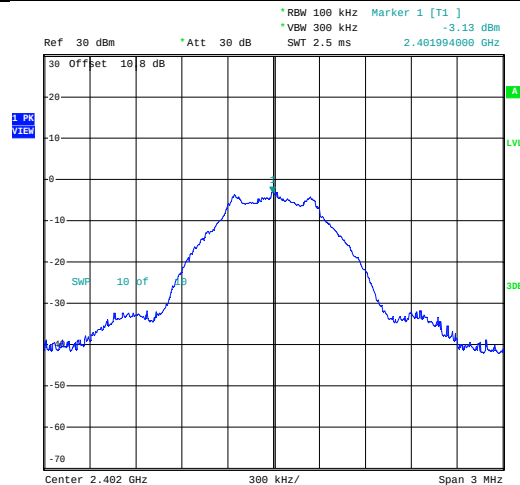
Date: 22.JUL.2026 19:53:06

BLE 2M-Ant1-2480-PASS

7. Conducted Spurious Emission

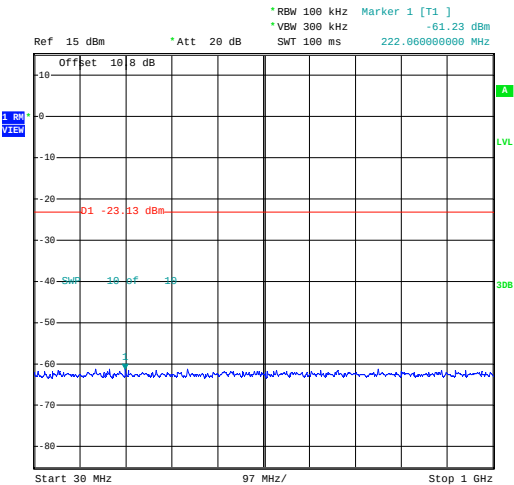
BLE mode

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-3.13	-3.13	---	PASS
BLE_1M	Ant1	2402	30~1000	-3.13	-61.23	≤-23.13	PASS
BLE_1M	Ant1	2402	1000~26500	-3.13	-51.07	≤-23.13	PASS
BLE_1M	Ant1	2440	0~Reference	-2.32	-2.32	---	PASS
BLE_1M	Ant1	2440	30~1000	-2.32	-60.92	≤-22.32	PASS
BLE_1M	Ant1	2440	1000~26500	-2.32	-51.06	≤-22.32	PASS
BLE_1M	Ant1	2480	0~Reference	-1.91	-1.91	---	PASS
BLE_1M	Ant1	2480	30~1000	-1.91	-61.14	≤-21.91	PASS
BLE_1M	Ant1	2480	1000~26500	-1.91	-50.97	≤-21.91	PASS
BLE_2M	Ant1	2402	0~Reference	-2.94	-2.94	---	PASS
BLE_2M	Ant1	2402	30~1000	-2.94	-61.01	≤-22.94	PASS
BLE_2M	Ant1	2402	1000~26500	-2.94	-51.18	≤-22.94	PASS
BLE_2M	Ant1	2440	0~Reference	-2.58	-2.58	---	PASS
BLE_2M	Ant1	2440	30~1000	-2.58	-60.52	≤-22.58	PASS
BLE_2M	Ant1	2440	1000~26500	-2.58	-51.05	≤-22.58	PASS
BLE_2M	Ant1	2480	0~Reference	-1.63	-1.63	---	PASS
BLE_2M	Ant1	2480	30~1000	-1.63	-60.78	≤-21.63	PASS
BLE_2M	Ant1	2480	1000~26500	-1.63	-51.02	≤-21.63	PASS



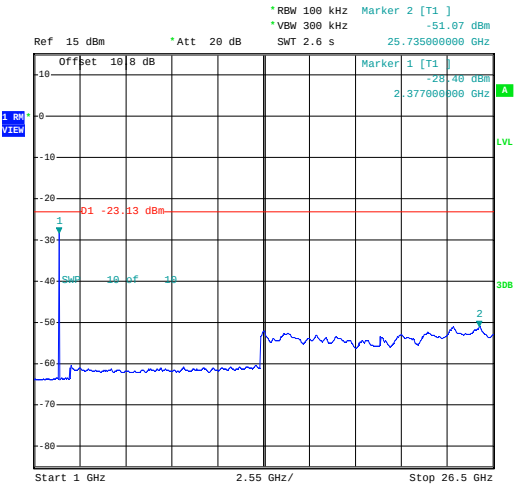
Date: 22.JUL.2026 18:58:39

BLE_1M-Ant1-2402-0~Reference-PASS



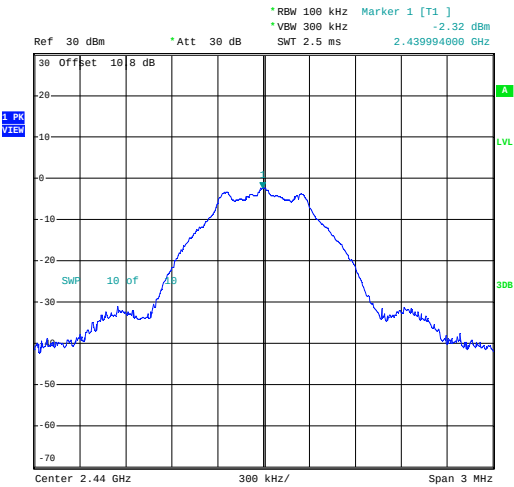
Date: 22.JUL.2026 18:58:54

BLE_1M-Ant1-2402-30~1000-PASS



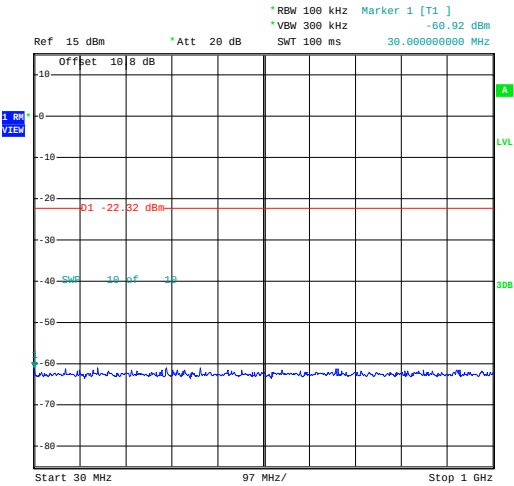
Date: 22.JUL.2026 19:00:39

BLE_1M-Ant1-2402-1000~26500-PASS



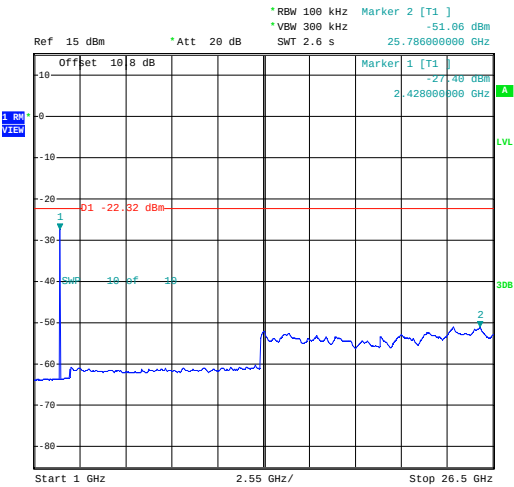
Date: 22.JUL.2026 19:02:50

BLE_1M-Ant1-2440-0~Reference-PASS



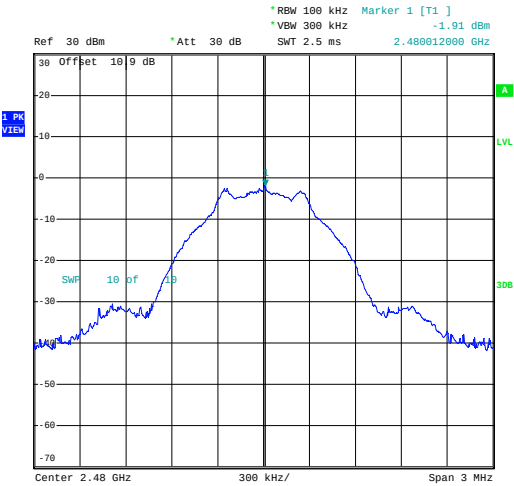
Date: 22.JUL.2026 19:03:06

BLE_1M-Ant1-2440-30~1000-PASS



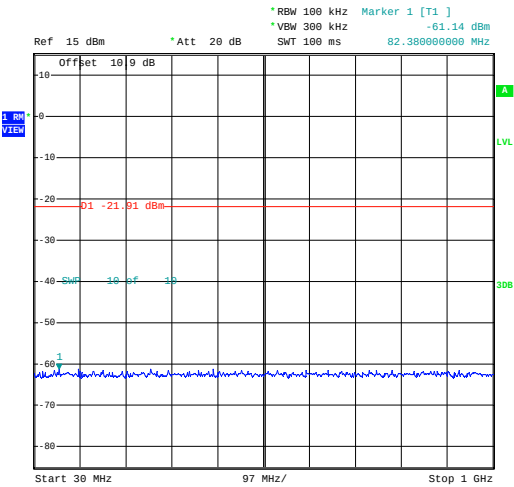
Date: 22.JUL.2026 19:04:50

BLE_1M-Ant1-2440-1000~26500-PASS



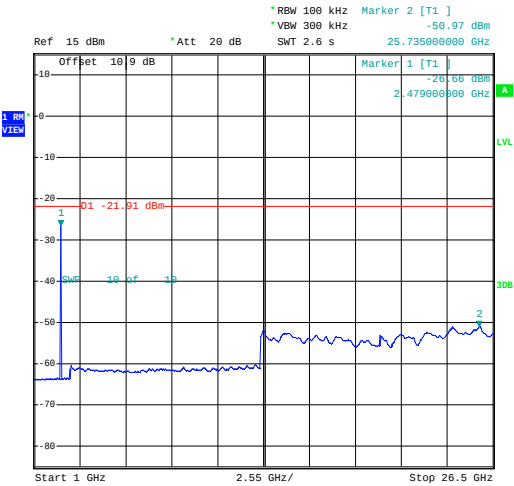
Date: 22.JUL.2026 19:10:54

BLE_1M-Ant1-2480-0-Reference-PASS



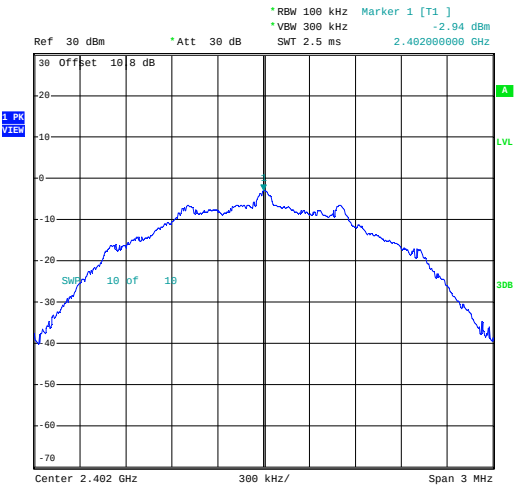
Date: 22.JUL.2026 19:11:09

BLE_1M-Ant1-2480-30~1000-PASS



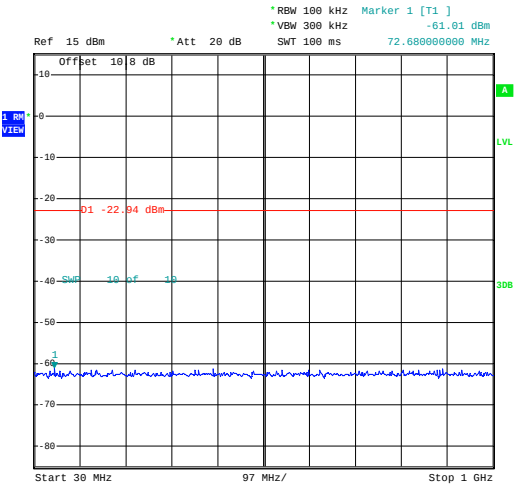
Date: 22.JUL.2026 19:12:54

BLE_1M-Ant1-2480-1000~26500-PASS



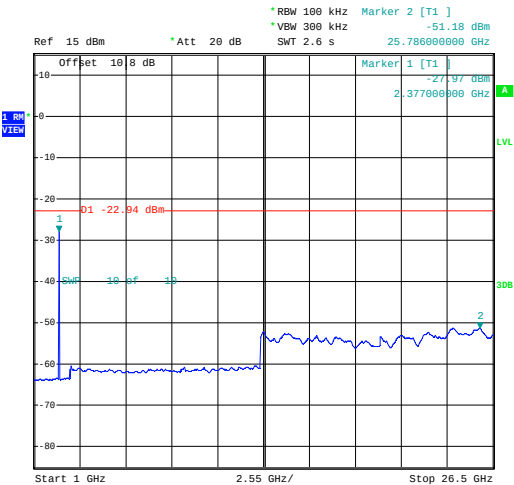
Date: 22.JUL.2026 19:26:28

BLE 2M-Ant1-2402-0~Reference-PASS



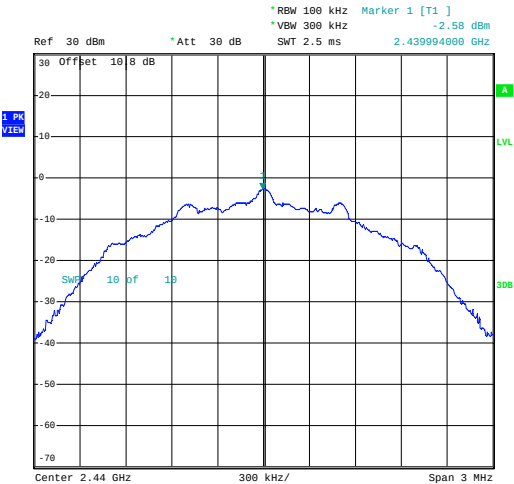
Date: 22.JUL.2026 19:26:43

BLE 2M-Ant1-2402-30~1000-PASS



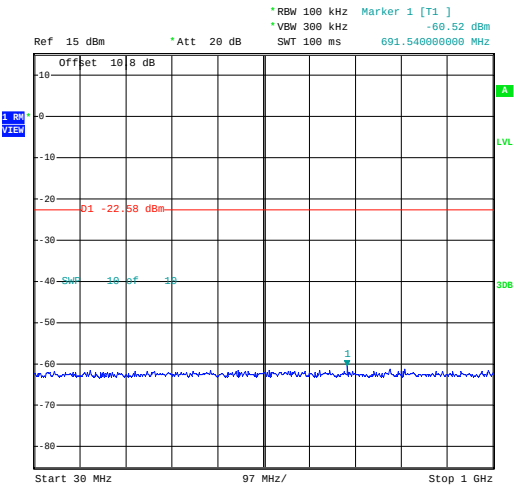
Date: 22.JUL.2026 19:28:28

BLE_2M-Ant1-2402-1000~26500-PASS



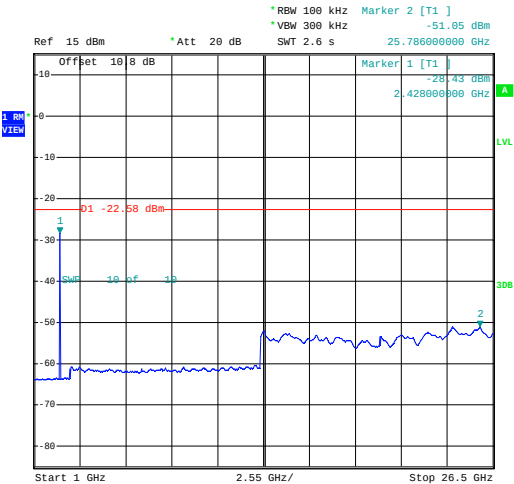
Date: 22.JUL.2026 19:33:14

BLE_2M-Ant1-2440-0~Reference-PASS



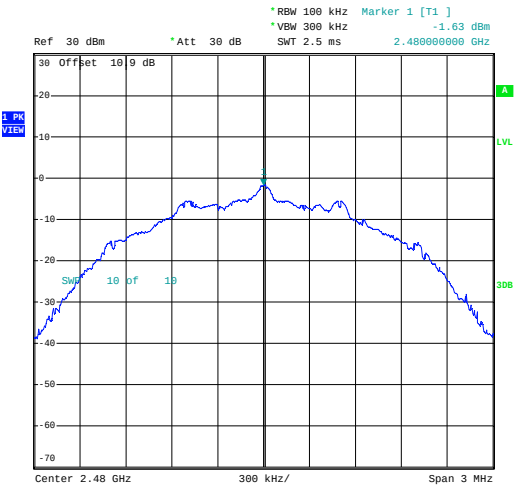
Date: 22.JUL.2026 19:33:29

BLE_2M-Ant1-2440-30~1000-PASS



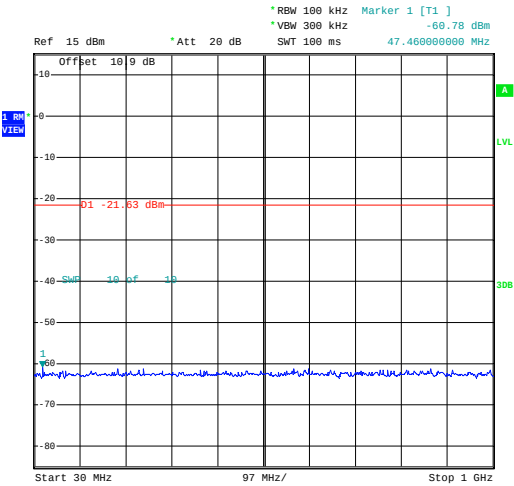
Date: 22.JUL.2026 19:35:13

BLE_2M-Ant1-2440-1000~26500-PASS



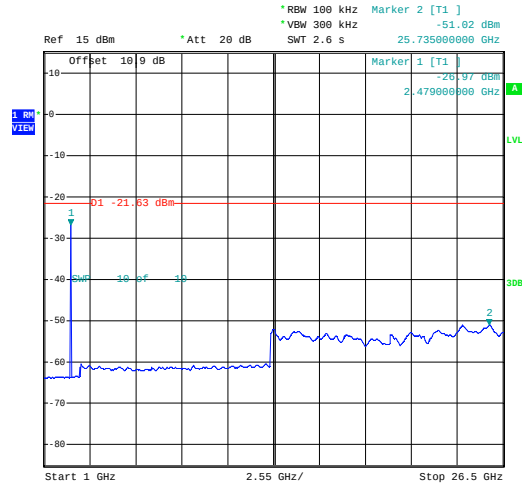
Date: 22.JUL.2026 19:54:18

BLE 2M-Ant1-2480-0~Reference-PASS



Date: 22.JUL.2026 19:54:33

BLE 2M-Ant1-2480-30~1000-PASS



Date: 22.JUL.2026 19:56:17

BLE 2M-Ant1-2480-1000~26500-PASS

8. Emissions in Restricted Bands

BLE mode

TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Gain [dBi]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE 1M	Ant1	Low	2402	Peak	2390.000	3.96	-39.37	≤-21.20	55.83	≤74	PASS
BLE 1M	Ant1	Low	2402	Peak	2310.000	3.96	-39.29	≤-21.20	55.91	≤74	PASS
BLE 1M	Ant1	Low	2402	Peak	2341.370	3.96	-37.44	≤-21.20	57.76	≤74	PASS
BLE 1M	Ant1	Low	2402	AV	2390.000	3.96	-52.3	≤-41.20	42.90	≤54	PASS
BLE 1M	Ant1	Low	2402	AV	2310.000	3.96	-51.6	≤-41.20	43.60	≤54	PASS
BLE 1M	Ant1	Low	2402	AV	2310.920	3.96	-51.57	≤-41.20	43.63	≤54	PASS
BLE 1M	Ant1	High	2480	Peak	2483.500	3.96	-46.31	≤-21.20	48.89	≤74	PASS
BLE 1M	Ant1	High	2480	Peak	2500.000	3.96	-56.00	≤-21.20	39.2	≤74	PASS
BLE 1M	Ant1	High	2480	Peak	2483.600	3.96	-47.53	≤-21.20	47.67	≤74	PASS
BLE 1M	Ant1	High	2480	AV	2483.500	3.96	-64.23	≤-41.20	30.97	≤54	PASS
BLE 1M	Ant1	High	2480	AV	2500.000	3.96	-69.35	≤-41.20	25.85	≤54	PASS
BLE 1M	Ant1	High	2480	AV	2483.600	3.96	-64.65	≤-41.20	30.55	≤54	PASS
BLE 2M	Ant1	Low	2402	Peak	2390.000	3.96	-38.88	≤-21.20	56.32	≤74	PASS
BLE 2M	Ant1	Low	2402	Peak	2310.000	3.96	-38.61	≤-21.20	56.59	≤74	PASS
BLE 2M	Ant1	Low	2402	Peak	2360.060	3.96	-37.3	≤-21.20	57.90	≤74	PASS
BLE 2M	Ant1	Low	2402	AV	2390.000	3.96	-51.57	≤-41.20	43.63	≤54	PASS
BLE 2M	Ant1	Low	2402	AV	2310.000	3.96	-50.94	≤-41.20	44.26	≤54	PASS
BLE 2M	Ant1	Low	2402	AV	2317.220	3.96	-50.77	≤-41.20	44.43	≤54	PASS
BLE 2M	Ant1	High	2480	Peak	2483.500	3.96	-45.93	≤-21.20	49.27	≤74	PASS
BLE 2M	Ant1	High	2480	Peak	2500.000	3.96	-55.12	≤-21.20	40.08	≤74	PASS
BLE 2M	Ant1	High	2480	Peak	2483.600	3.96	-46.94	≤-21.20	48.26	≤74	PASS
BLE 2M	Ant1	High	2480	AV	2483.500	3.96	-58.06	≤-41.20	37.14	≤54	PASS
BLE 2M	Ant1	High	2480	AV	2500.000	3.96	-66.94	≤-41.20	28.26	≤54	PASS
BLE 2M	Ant1	High	2480	AV	2483.600	3.96	-58.96	≤-41.20	36.24	≤54	PASS

9. Test Results of Radiated Spurious Emissions

BLE mode

The below test data were the worst result after the EUT was tested with Low Energy mode:1MHz, 2MHz

TUV Rheinland (Guangdong) Ltd.

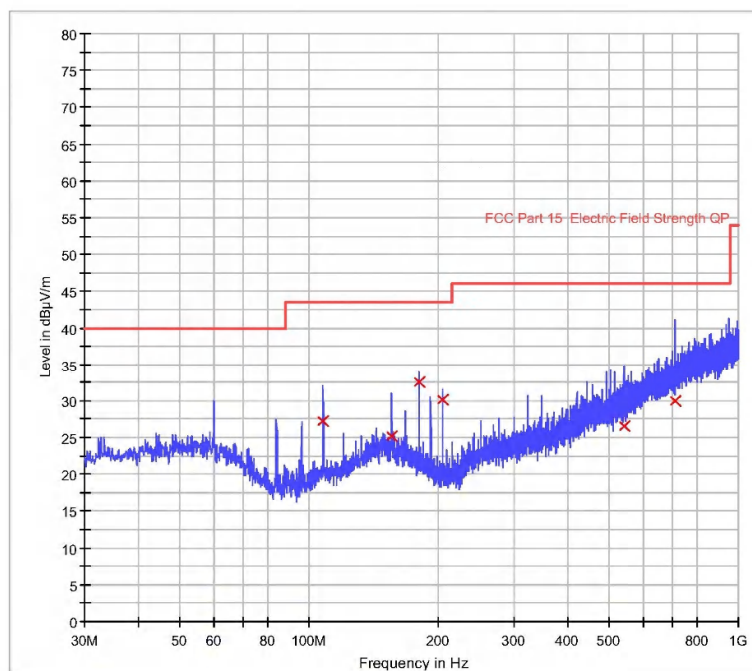
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	
Test Item:	Exoskeleton robot
Identification:	EG01
Test Standard:	FCC Part 15C
Test Detail:	Radiated Emission
Operation Mode:	TX BLE HIGH
Climate Condition:	23 °C, 56 %, 101kPa
Test Voltage/ Freq:	Battery
Receipt No:	170440177
Report No:	/
Result:	Pass
Comment:	Test distance is 3m; Horizontal

Subrange 1	
Frequency range:	30-1000MHz
Receiver:	ESCI 3
Transducer:	VULB9168



Tested by:		Reviewed by:	
	20260814		20260825

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
107.960000	27.2	1000.0	120.000	H	17.5	16.3	43.5
155.960000	25.2	1000.0	120.000	H	21.2	18.3	43.5
180.000000	32.5	1000.0	120.000	H	19.7	11.0	43.5
204.000000	30.2	1000.0	120.000	H	17.9	13.3	43.5
539.960000	26.6	1000.0	120.000	H	28.1	19.4	46.0
712.640000	30.1	1000.0	120.000	H	31.6	16.0	46.0

Tested by:


20260814

Reviewed by:


20260825

TUV Rheinland (Guangdong) Ltd.

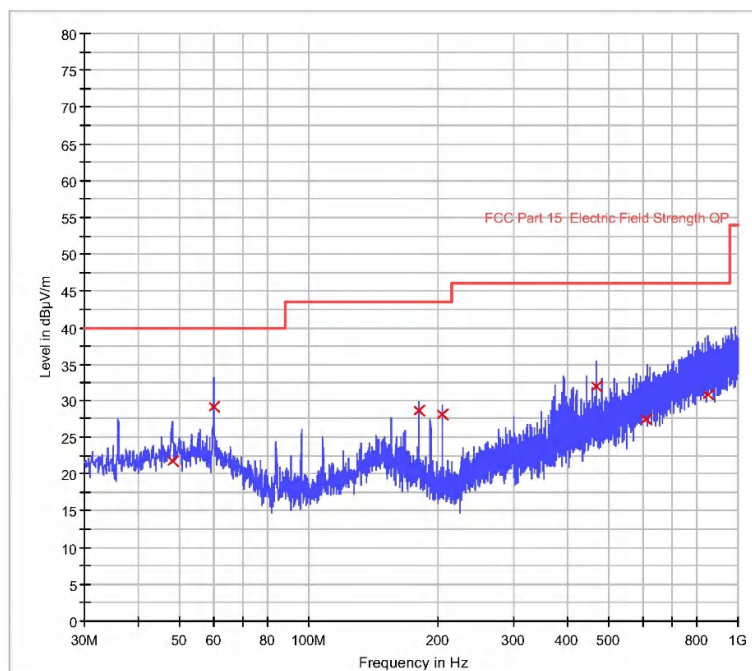
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	
Test Item:	Exoskeleton robot
Identification:	EG01
Test Standard:	FCC Part 15C
Test Detail:	Radiated Emission
Operation Mode:	TX BLE HIGH
Climate Condition:	23 °C, 56 %, 101kPa
Test Voltage/ Freq:	Battery
Receipt No:	170440177
Report No:	/
Result:	Pass
Comment:	Test distance is 3m; Vertical

Subrange 1	
Frequency range:	30-1000MHz
Receiver:	ESCI 3
Transducer:	VULB9168



Tested by:

Jason Li
20260817

Reviewed by:

Judy Chen
20260825

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

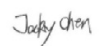
Limit and Margin

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
48.080000	21.8	1000.0	120.000	V	20.7	18.2	40.0
59.960000	29.1	1000.0	120.000	V	20.3	11.0	40.0
180.000000	28.6	1000.0	120.000	V	19.7	15.0	43.5
204.000000	28.1	1000.0	120.000	V	17.9	15.4	43.5
468.080000	32.0	1000.0	120.000	V	26.7	14.0	46.0
612.000000	27.4	1000.0	120.000	V	30.2	18.6	46.0
852.200000	30.8	1000.0	120.000	V	33.8	15.2	46.0

Tested by:


20260817

Reviewed by:


20260825

TUV Rheinland (Guangdong) Ltd.

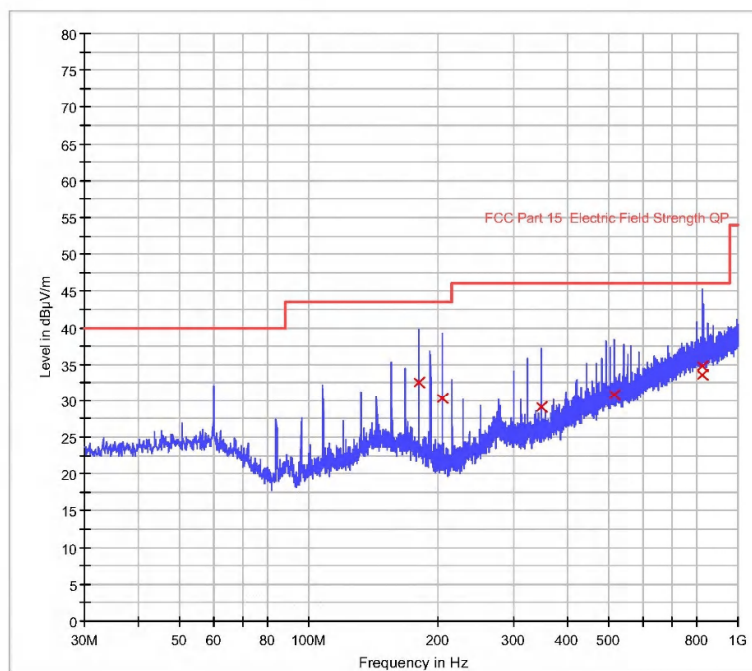
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	
Test Item:	Exoskeleton robot
Identification:	EG01
Test Standard:	FCC Part 15C
Test Detail:	Radiated Emission
Operation Mode:	TX BLE LOW
Climate Condition:	23 °C, 56 %, 101kPa
Test Voltage/ Freq:	Battery
Receipt No:	170440177
Report No:	/
Result:	Pass
Comment:	Test distance is 3m; Horizontal

Subrange 1	
Frequency range:	30-1000MHz
Receiver:	ESCI 3
Transducer:	VULB9168



Tested by:

Janson Li
20260817

Reviewed by:

Judy Chen
20260825

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

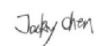
Limit and Margin

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
180.000000	32.6	1000.0	120.000	H	19.7	10.9	43.5
204.000000	30.4	1000.0	120.000	H	17.9	13.1	43.5
348.040000	29.1	1000.0	120.000	H	23.1	16.9	46.0
516.080000	30.8	1000.0	120.000	H	27.7	15.2	46.0
825.040000	34.8	1000.0	120.000	H	33.6	11.3	46.0
825.640000	33.5	1000.0	120.000	H	33.7	12.5	46.0

Tested by:


20260817

Reviewed by:


20260825

TUV Rheinland (Guangdong) Ltd.

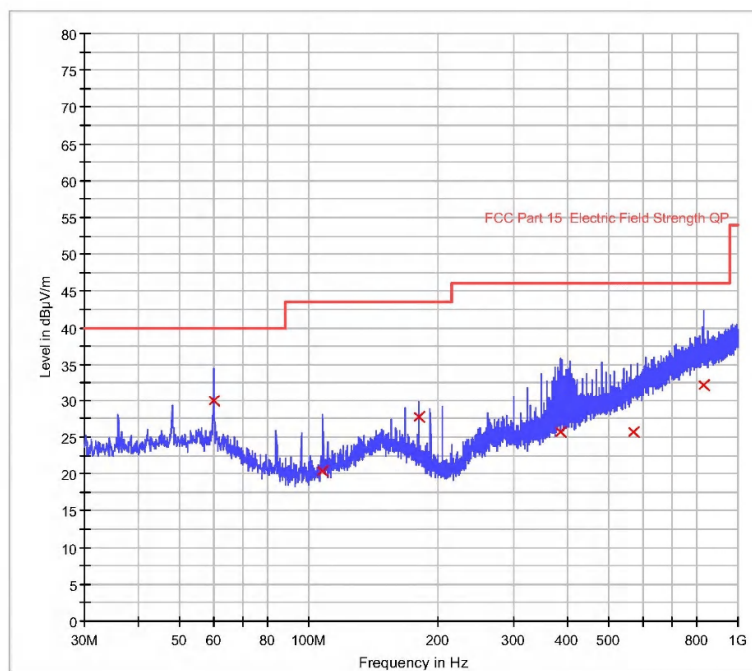
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	
Test Item:	Exoskeleton robot
Identification:	EG01
Test Standard:	FCC Part 15C
Test Detail:	Radiated Emission
Operation Mode:	TX BLE LOW
Climate Condition:	23 °C, 56 %, 101kPa
Test Voltage/ Freq:	Battery
Receipt No:	170440177
Report No:	/
Result:	Pass
Comment:	Test distance is 3m; Vertical

Subrange 1	
Frequency range:	30-1000MHz
Receiver:	ESCI 3
Transducer:	VULB9168



Tested by:

Janson Li
20260817

Reviewed by:

Judy Chen
20260825

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
59.960000	29.9	1000.0	120.000	V	20.3	10.1	40.0
107.960000	20.5	1000.0	120.000	V	17.5	23.0	43.5
180.000000	27.8	1000.0	120.000	V	19.7	15.7	43.5
386.120000	25.7	1000.0	120.000	V	24.4	20.3	46.0
572.480000	25.8	1000.0	120.000	V	28.8	20.2	46.0
833.520000	32.2	1000.0	120.000	V	33.8	13.9	46.0

Tested by:


20260817

Reviewed by:


20260825

TUV Rheinland (Guangdong) Ltd.

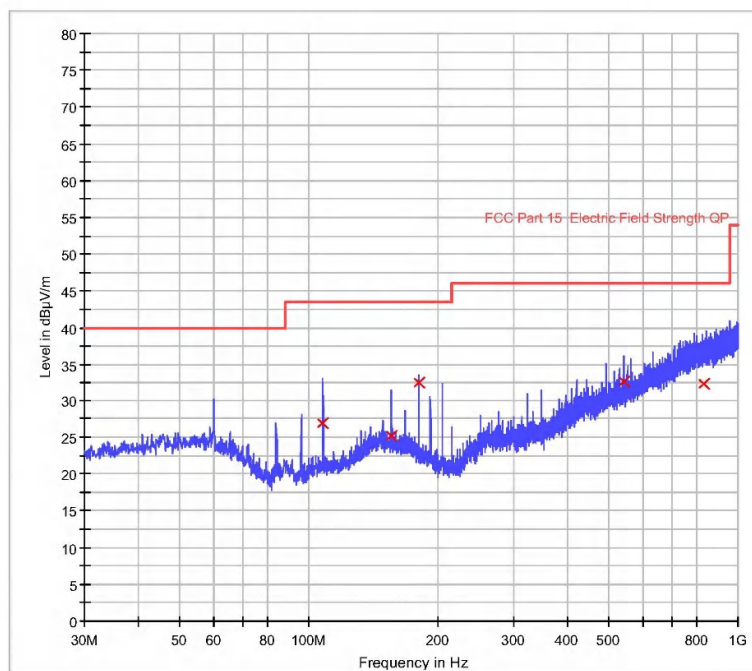
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	
Test Item:	Exoskeleton robot
Identification:	EG01
Test Standard:	FCC Part 15C
Test Detail:	Radiated Emission
Operation Mode:	TX BLE MID
Climate Condition:	23 °C, 56 %, 101kPa
Test Voltage/ Freq:	Battery
Receipt No:	170440177
Report No:	/
Result:	Pass
Comment:	Test distance is 3m; Horizontal

Subrange 1	
Frequency range:	30-1000MHz
Receiver:	ESCI 3
Transducer:	VULB9168



Tested by:

Janson Li
20260817

Reviewed by:

Judy Chen
20260825

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

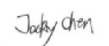
Limit and Margin

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
107.960000	26.9	1000.0	120.000	H	17.5	16.6	43.5
155.960000	25.2	1000.0	120.000	H	21.2	18.3	43.5
180.000000	32.5	1000.0	120.000	H	19.7	11.0	43.5
540.080000	32.7	1000.0	120.000	H	28.1	13.3	46.0
831.480000	32.4	1000.0	120.000	H	33.9	13.6	46.0

Tested by:


20260817

Reviewed by:


20260825

TUV Rheinland (Guangdong) Ltd.

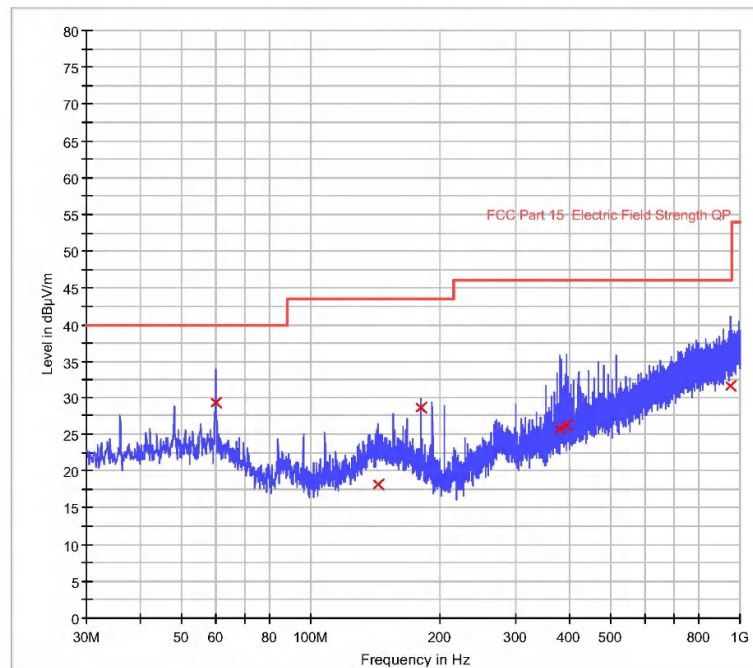
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	
Test Item:	Exoskeleton robot
Identification:	EG01
Test Standard:	FCC Part 15C
Test Detail:	Radiated Emission
Operation Mode:	TX BLE MID
Climate Condition:	23 °C, 56 %, 101kPa
Test Voltage/ Freq:	Battery
Receipt No:	170440177
Report No:	/
Result:	Pass
Comment:	Test distance is 3m; Vertical

Subrange 1	
Frequency range:	30-1000MHz
Receiver:	ESCI 3
Transducer:	VULB9168



Tested by:

Janson Li
20260817

Reviewed by:

Judy Chen
20260825

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

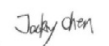
Limit and Margin

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
59.960000	29.2	1000.0	120.000	V	20.3	10.8	40.0
143.000000	18.1	1000.0	120.000	V	20.9	25.4	43.5
180.000000	28.6	1000.0	120.000	V	19.7	14.9	43.5
380.880000	25.7	1000.0	120.000	V	24.3	20.3	46.0
395.320000	26.2	1000.0	120.000	V	24.6	19.9	46.0
947.120000	31.8	1000.0	120.000	V	35.1	14.2	46.0

Tested by:


20260817

Reviewed by:


20260825

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

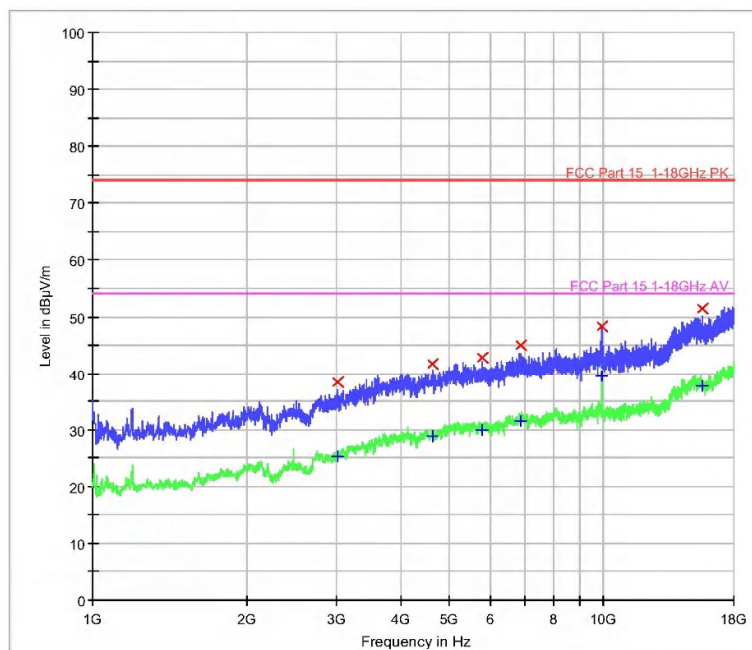
EMC Test Record (Emission)

Common Information

Manufacturer:	
Test Item:	Exoskeleton robot
Identification:	EG01
Test Standard:	FCC Part 15C
Test Detail:	Radiated Emission
Operation Mode:	TX BLE HIGH
Climate Condition:	23 °C, 56 %, 101kPa
Test Voltage/ Freq:	Battery
Receipt No:	170440177
Report No:	/
Result:	Pass
Comment:	Test distance is 3m; Horizontal

Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREFO11-A02-05_1GHz-18GHz_With PreAMP EXT



Tested by:

Janson Li
20260814

Reviewed by:

Judy Chen
20260825

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
3008.000000	38.4	1000.0	1000.000	H	-17.0	35.6	74.0
4623.000000	41.7	1000.0	1000.000	H	-12.6	32.3	74.0
5783.500000	42.7	1000.0	1000.000	H	-10.9	31.3	74.0
6903.000000	44.9	1000.0	1000.000	H	-9.0	29.1	74.0
9906.000000	48.2	1000.0	1000.000	H	-6.3	25.8	74.0
15618.000000	51.4	1000.0	1000.000	H	-1.9	22.6	74.0

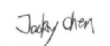
Limit and Margin AV

Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBμV/m)
3008.000000	25.2	1000.0	1000.000	H	-17.0	28.8	54.0
4623.000000	28.9	1000.0	1000.000	H	-12.6	25.1	54.0
5783.500000	29.9	1000.0	1000.000	H	-10.9	24.1	54.0
6903.000000	31.6	1000.0	1000.000	H	-9.0	22.4	54.0
9906.000000	39.5	1000.0	1000.000	H	-6.3	14.5	54.0
15618.000000	37.8	1000.0	1000.000	H	-1.9	16.2	54.0

Tested by:


20260814

Reviewed by:


20260825

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

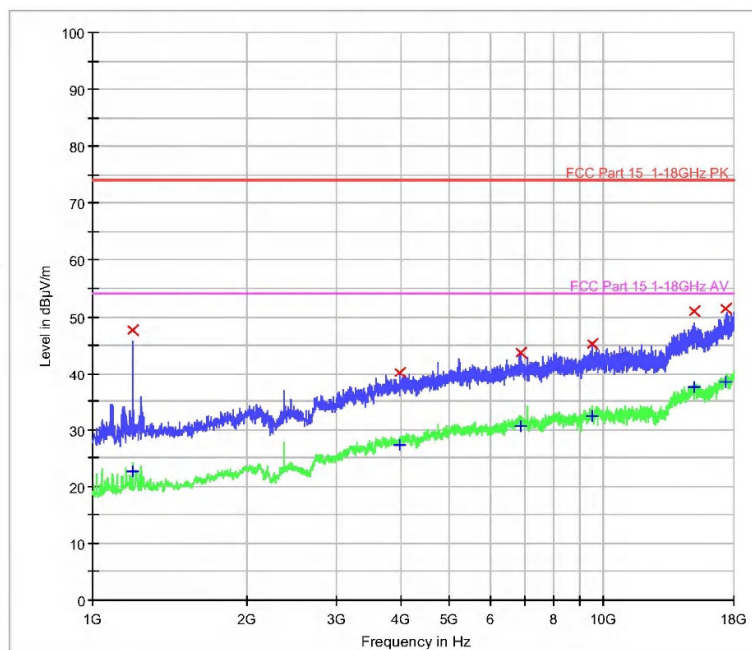
EMC Test Record (Emission)

Common Information

Manufacturer:	
Test Item:	Exoskeleton robot
Identification:	EG01
Test Standard:	FCC Part 15C
Test Detail:	Radiated Emission
Operation Mode:	TX BLE HIGH
Climate Condition:	23 °C, 56 %, 101kPa
Test Voltage/ Freq:	Battery
Receipt No:	170440177
Report No:	/
Result:	Pass
Comment:	Test distance is 3m; Vertical

Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREFO11-A02-05_1GHz-18GHz_With PreAMP EXT



Tested by:

Janson Li
20260814

Reviewed by:

Judy Chen
20260825

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
1195.500000	47.7	1000.0	1000.000	V	-24.0	26.3	74.0
3983.500000	40.1	1000.0	1000.000	V	-14.0	33.9	74.0
6863.000000	43.6	1000.0	1000.000	V	-9.1	30.4	74.0
9498.000000	45.3	1000.0	1000.000	V	-6.5	28.7	74.0
15054.500000	50.9	1000.0	1000.000	V	-1.9	23.1	74.0
17320.000000	51.4	1000.0	1000.000	V	1.2	22.6	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBμV/m)
1195.500000	22.7	1000.0	1000.000	V	-24.0	31.3	54.0
3983.500000	27.2	1000.0	1000.000	V	-14.0	26.8	54.0
6863.000000	30.7	1000.0	1000.000	V	-9.1	23.3	54.0
9498.000000	32.3	1000.0	1000.000	V	-6.5	21.7	54.0
15054.500000	37.4	1000.0	1000.000	V	-1.9	16.6	54.0
17320.000000	38.3	1000.0	1000.000	V	1.2	15.7	54.0

Tested by:


20260814

Reviewed by:


20260825