

Prüfbericht-Nr.: Test report no.:	CN26AHSW 001	Auftrags-Nr.: Order no.:	27233343	Seite 1 von 21 Page 1 of 21
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2026-05-08	
Auftraggeber: Client:	Ningbo Dooya Mechanic & Electronic Technology Co., Ltd. No.168 Shengguang Road, Luotuo, Zhenhai, Ningbo ZHEJIANG, China			
Prüfgegenstand: Test item:	BLE & Thread Module			
Bezeichnung / Typ-Nr.: Identification / Type no.:	DD6600-RF			
Auftrags-Inhalt: Order content:	Test Report			
Prüfgrundlage: Test specification:	CFR Title 47 FCC Part 15: Subpart C Section 15.247 RSS-247 Issue 4 July 2025 RSS-Gen Issue 5 February 2021			
Wareneingangsdatum: Date of sample receipt:	2026-05-09	Please refer to photo documents		
Prüfmuster-Nr.: Test sample no.:	A004266891-001~008			
Prüfzeitraum: Testing period:	2026-05-11 - 2026-05-16			
Ort der Prüfung: Place of testing:	Shenzhen PSI Testing Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:			genehmigt von: authorized by:	
Datum: Date:	2026-05-26	Ausstellungsdatum: Issue date:		2026-05-26
Stellung / Position:	Sachverständige(r)/Expert	Stellung / Position:		Sachverständige(r)/Expert
Sonstiges / Other:	FCC ID: VYYDD6600 IC: 21396-DD6600 HVIN: DD6600-RF This report is for FCC C2PC change and IC C3PC chagne. Note: Based on the originalre report CN25N81S 001 & CN25N81S 002 adding Thread function and two antennas of Bluetooth, due to these change, partical test for Bluetooth and full test for Thread, other conducted power refer to originalre report.			
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
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Anmerkungen
Remarks

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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 115:2023, 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 115:2023, 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>

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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 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

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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 LE

Appendix B: Test Results of Thread

Appendix C: Photographs of the Test Set-up

2 Test Sites

2.1 Test Facilities

Shenzhen PSI Testing Co., Ltd.

1-2F, Building 5, Yudafu Industrial Park, No.10, Xingye West Road, Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104
A2LA CAB identifier: CN0158

TÜV Rheinland (Shenzhen) Co., Ltd. subcontract all test to Shenzhen PSI Testing Co., Ltd. And this test at this site have been conducted under the supervision of a TÜV Rheinland engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Firmware Version	Last Cal.	Cal. Interval
1.	9*6*6 anechoic chamber	SKET	9*6*6	N/A	/	2025.12.18	3 Year
2.	Test Receiver	Rohde&Schwarz	ESCI 7	101032/003	4.42 SP3	2025.12.18	1 Year
3.	Loop Antenna	Schwarz beck	FMZB 1519B	00128	/	2025.01.02	2 Year
4.	Bilog Antenna	Schwarz beck	VULB 9168	01448	/	2025.01.02	2 Year
5.	Spectrum Analyzer	Rohde&Schwarz	FSV-40N	101648	3.70	2025.12.18	1 Year
6.	Horn Antenna	Schwarz beck	BBHA 9120 D	02706	/	2025.01.02	2 Year
7.	Amplifier	SKET	LAPA_01G18G-45dB	SK2022032901	/	2025.12.18	1 Year
8.	Horn Antenna	Schwarz beck	BBHA 9170	00946	/	2024.12.31	2 Year
9.	Amplifier	SKET	LNPA_0118G-45	SK2020010801	/	2025.12.18	1 Year
10.	RF Power Probe	Rohde&Schwarz	NRP-Z11	1138.3004.02-117725-vh	/	2025.12.18	1 Year
11.	RF Power Probe	Rohde&Schwarz	NRP-Z11	1138.3004.02-1111533-Fz	/	2025.12.18	1 Year
12.	Vector Signal Generator	Agilent	N5182A	MY47420724	/	2025.12.18	1 Year
13.	Analog signal generator	Agilent	N5181A	MY50145363	/	2025.12.18	1 Year
14.	Comprehensive Test Instrument	Rohde&Schwarz	CMW 500	145266	/	2025.12.18	1 Year
15.	Spectrum Analyzer	Agilent	N9020A	MY51281067	A.14.03	2025.12.18	1 Year
16.	Temp. & Humid Chamber	Auchno	9606	/	/	2025.12.18	1 Year
17.	Regulated DC Power Supply	Xinouhua	ADC120V10A	202211251638		2025.12.18	1 Year

For Test Software Information

Item	Software Name	Manufacturer	Version
RE	EMC-I	Farad	PSI-3A1
RF	RTS	TACHOY	V1.0.0

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

Item	Uncertainty
Radiation Emission test in 3m chamber(30MHz to 1GHz)	4.51dB
Radiation Emission test in 3m chamber(1GHz to 18GHz)	5.07dB
Radiation Emission test in 3m chamber(18GHz to 40GHz)	5.21dB
Radio Frequency	48.24KHz
Conducted RF Power	0.41dB
Power Spectral Density	0.39 dB
Occupied-Bandwidth	968Hz
Duty Cycle	1%
Conducted-Spurious Emission	1.26dB

Note: Measurement Uncertainty (95% confidence levels, k=2).

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B & C 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.

2.7 Status of Facility Used for Testing

The Shenzhen PSI Testing Co., Ltd. Test facility located at 1-2F, Building 5, Yudafu Industrial Park, No.10, Xingye West Road, Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104 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 product is BLE & Thread Module which supports Bluetooth low energy and Thread wireless technologies.

1. Addition of Alternative Antennas for BLE Function: Long antenna (ANT1) and Chip antenna (ANT2) as below:

	Model	Antenna type	Antenna Gain
ANT1	SHZD2400-2U-K11	Omnidirectional dipole antenna	1.60dBi
ANT2	ANT7020LL05R2400A	Chip Antenna	2.62dBi

For the BLE function, the peak conducted output power and spurious emissions have been re-assessed.

2. Addition of Thread Function via Software, Thread has three antennas: Short antenna (ANT1), Long antenna (ANT2) and Chip antenna (ANT3) as below:

	Model	Antenna type	Antenna Gain
ANT1	SHZD2400-1U-K3-1	Omnidirectional dipole antenna	1.00dBi
ANT2	SHZD2400-2U-K11	Omnidirectional dipole antenna	1.60dBi
ANT3	ANT7020LL05R2400A	Chip Antenna	2.62dBi

all other hardware, circuitry, PCB layout, components, enclosure, and operating parameters remain unchanged from the originally certified product.

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:	BLE & Thread Module
Type Designation:	DD6600-RF
FCC ID:	VYYDD6600
IC:	21396-DD6600
HVIN:	DD6600-RF
FVIN:	A/03
Operating Voltage:	DC 3.3V
Technical Specification of Bluetooth LE	
Operating Frequency:	2402 MHz to 2480 MHz
Type of Modulation:	GFSK
Channel Number:	40 channels
Channel Separation:	2MHz
Data Rate:	1Mbps, 2Mbps, 125kbps, 500kbps
Antenna Type:	External antenna
Antenna Number:	1
Antenna Gain:	1.6 dBi for ANT1 2.62dBi for ANT2 (Provided by the Client)
Technical Specification of Thread	

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Operating Frequency:	2405 MHz to 2480 MHz
Type of Modulation:	GFSK
Channel Number:	16 channels
Channel Separation:	5 MHz
Antenna Type:	External antenna
Antenna Number:	1
Antenna Gain:	1.0 dBi for ANT1 1.6 dBi for ANT2 2.62 dBi for ANT3 (Provided by the Client)

Note: The correctness of all data provided by customer in the test report is ensured and responsible of the customer. Any misjudgment of the test results caused by the use of incorrect data provided by customer shall be borne by the customer.

Table 4: RF Channel and Frequency of Bluetooth LE

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

Test frequencies are lowest channel: 2402 MHz, middle channel: 2440 MHz and highest channel: 2480 MHz for Bluetooth LE

Table 5: RF Channel and Frequency of Thread

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
1	2405	5	2425	9	2445	13	2465
2	2410	6	2430	10	2450	14	2470
3	2415	7	2435	11	2455	15	2475
4	2420	8	2440	12	2460	16	2480

Test frequencies are lowest channel: 2405 MHz, middle channel: 2440 MHz and highest channel: 2480 MHz for Thread

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Bluetooth transmitting mode
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- B. On, Thread transmitting mode
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- | | |
|-------------------------|----------------------------------|
| - Application Form | - User Manual |
| - Operation Description | - FCC/IC Label and Location Info |

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 *DD6600-RF* in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 6: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Notebook PC	Dell	Latitude 3490	N/A
Adapter	MFG	HA65NS5-00	N/A
USB TO TTL	Junyan	CH340G	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)

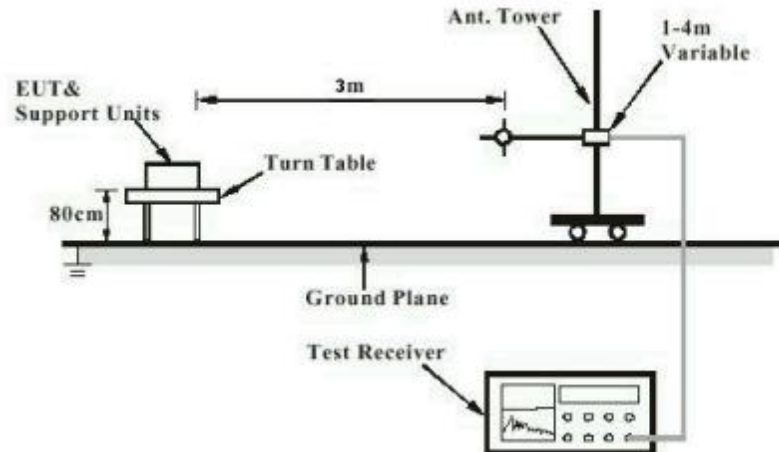


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

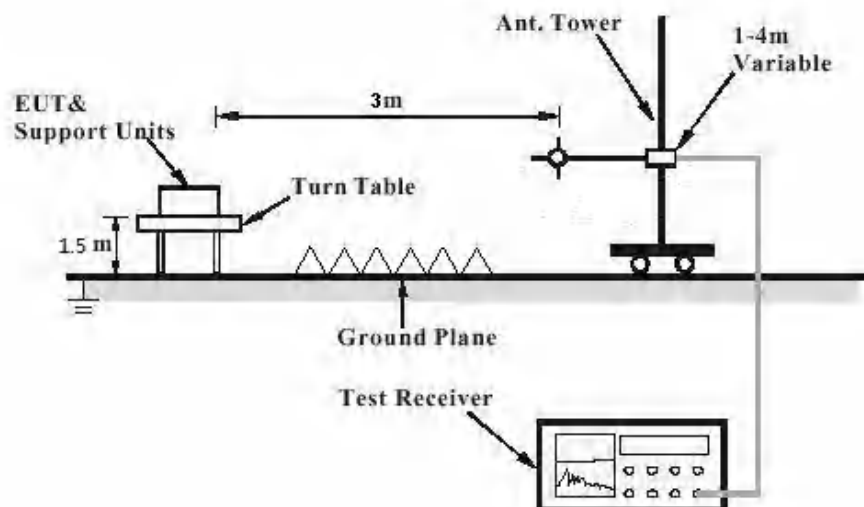
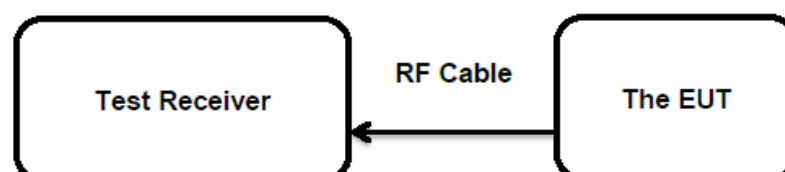


Diagram of Measurement Configuration for Conducted Transmitter Measurement



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 has Line Antennas and External antennas, permanent attachment and no consideration of replacement, refer to section 3.2 for details.

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)(3) RSS-247 Clause 6.3.2
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	: < 1.0 W
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-05-11 to 2026-05-14
Input voltage	: DC 3.3V
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 24 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101.2 kPa

For the measurement records, refer to the appendix A, B.

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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
Limits	: < 8 dBm / 3kHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-05-11 to 2026-05-14
Input voltage	: DC 3.3V
Operation mode	: B
Test channel	: Low / Middle / High
Ambient temperature	: 24 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101.2 kPa

For the measurement records, refer to the appendix A.

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5.1.4 6dB Bandwidth

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(a)(2) RSS-247 Clause 6.3.1
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	: > 500 kHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-05-11 to 2026-05-14
Input voltage	: DC 3.3V
Operation mode	: B
Test channel	: Low / Middle / High
Ambient temperature	: 24 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101.2 kPa

For the measurement records, refer to the appendix A.

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5.1.5 99% Bandwidth

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

Test standard	: FCC Part 15.247(a) RSS-Gen Clause 6.7
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	: Within assigned band 2400-2483.5MHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-05-11 to 2026-05-14
Input voltage	: DC 3.3V
Operation mode	: B
Test channel	: Low / Middle / High
Ambient temperature	: 24 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101.2 kPa

For the measurement records, refer to the appendix A.

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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	: 2026-05-11 to 2026-05-18
Input voltage	: DC 3.3V
Operation mode	: B
Test channel	: Low / Middle / High
Ambient temperature	: 24 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101.2 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.

5.1.7 Radiated Spurious Emission

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

Test standard	: FCC Part 15.247(d) & FCC Part 15.205 RSS-247 Clause 2.4
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 Section 8.9 & 8.10
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2026-05-15 to 2026-05-16
Input voltage	: DC 3.3V
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: Refer to test results
Relative humidity	: Refer to test results
Atmospheric pressure	: 101.2 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, B.

6 Photographs of the Test Set-Up

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

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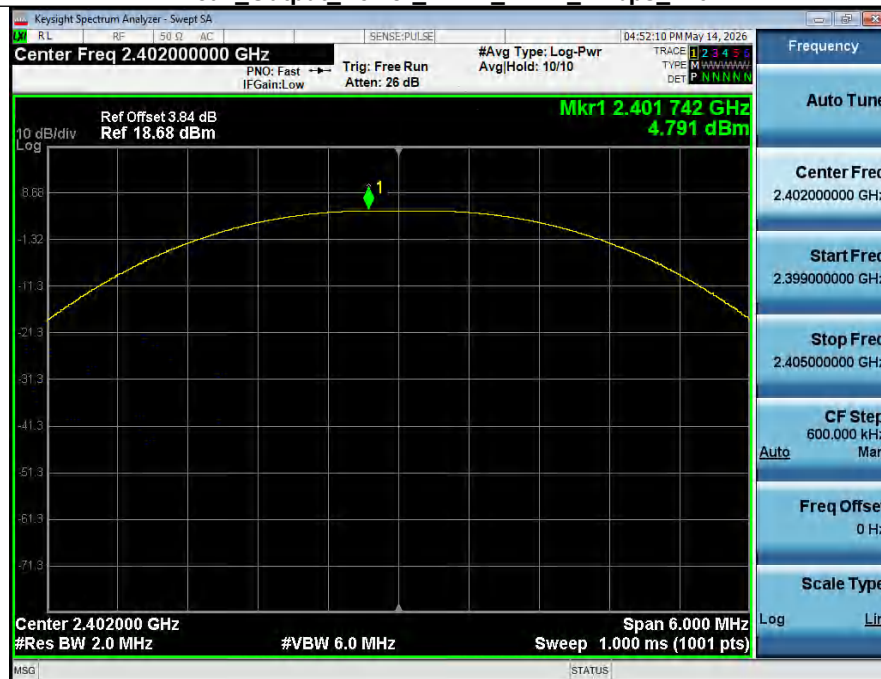
Appendix A: Test Results of Bluetooth LE

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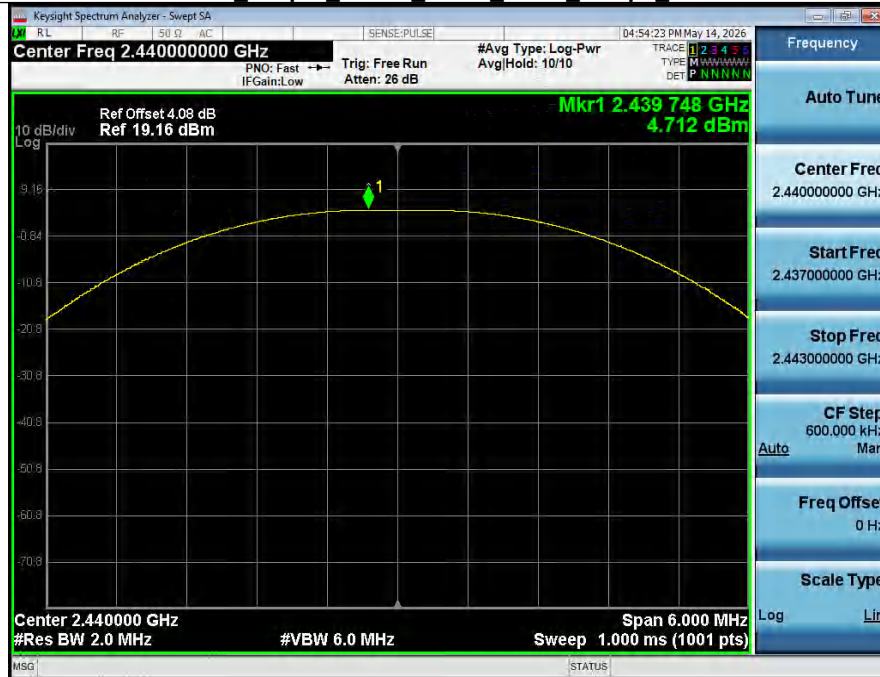
Appendix A.1: Test Results of Peak Conducted Output Power

Condition	Antenna	Rate	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1Mbps	2402.00	4.79	3.01	1000	Pass
NVNT	ANT1	1Mbps	2440.00	4.71	2.96	1000	Pass
NVNT	ANT1	1Mbps	2480.00	4.30	2.69	1000	Pass
NVNT	ANT1	2Mbps	2402.00	4.81	3.03	1000	Pass
NVNT	ANT1	2Mbps	2440.00	4.74	2.98	1000	Pass
NVNT	ANT1	2Mbps	2480.00	4.32	2.70	1000	Pass
NVNT	ANT1	125KHz	2402.00	4.84	3.05	1000	Pass
NVNT	ANT1	125KHz	2440.00	4.75	2.99	1000	Pass
NVNT	ANT1	125KHz	2480.00	4.35	2.72	1000	Pass
NVNT	ANT1	500KHz	2402.00	4.72	2.96	1000	Pass
NVNT	ANT1	500KHz	2440.00	4.63	2.90	1000	Pass
NVNT	ANT1	500KHz	2480.00	4.22	2.64	1000	Pass

Peak_Output_Power_NVNT_ANT1_1Mbps_2402



Peak Output Power NVNT ANT1 1Mbps 2440



Peak Output Power NVNT ANT1 1Mbps 2480



Peak Output Power NVNT ANT1 2Mbps 2402



Peak Output Power NVNT ANT1 2Mbps 2440



Peak Output Power NVNT ANT1 2Mbps 2480



Peak Output Power NVNT ANT1 125KHz 2402



Peak Output Power NVNT ANT1 125KHz 2440



Peak Output Power NVNT ANT1 125KHz 2480



Peak Output Power NVNT ANT1 500KHz 2402



Peak Output Power NVNT ANT1 500KHz 2440



Peak Output Power NVNT ANT1 500KHz 2480



Appendix A.2: 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.

30MHz - 1GHz(Worst case ANT2 result were shown)

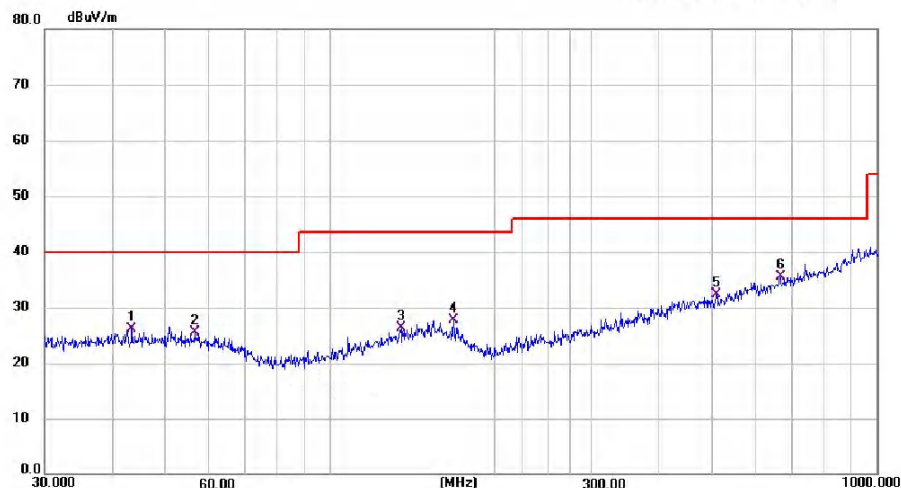


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Test Site: PSI EMC Lab-3m Chamber	Polarization: Vertical	Temperature: 26 °C
EUT: BLE & Thread Module	Distance:	Humidity: 54 %RH
M/N: BLE & Thread Module	Test Engineer: Felix	
Test Mode: BLE 1M 2402M		
Test Voltage: DC 3.3V		
Note:		

Radiated Emission Measurement

Test Date: 2026/5/16 13:31:32



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	43.3534	12.05	14.03	26.08	40.00	-13.92	QP	100	152	P	
2	56.3948	12.05	13.43	25.48	40.00	-14.52	QP	100	200	P	
3	134.5591	12.11	14.11	26.22	43.50	-17.28	QP	100	156	P	
4	167.8242	13.22	14.51	27.73	43.50	-15.77	QP	100	312	P	
5	508.2582	12.29	20.02	32.31	46.00	-13.69	QP	100	158	P	
6 *	665.8034	12.32	23.25	35.57	46.00	-10.43	QP	100	183	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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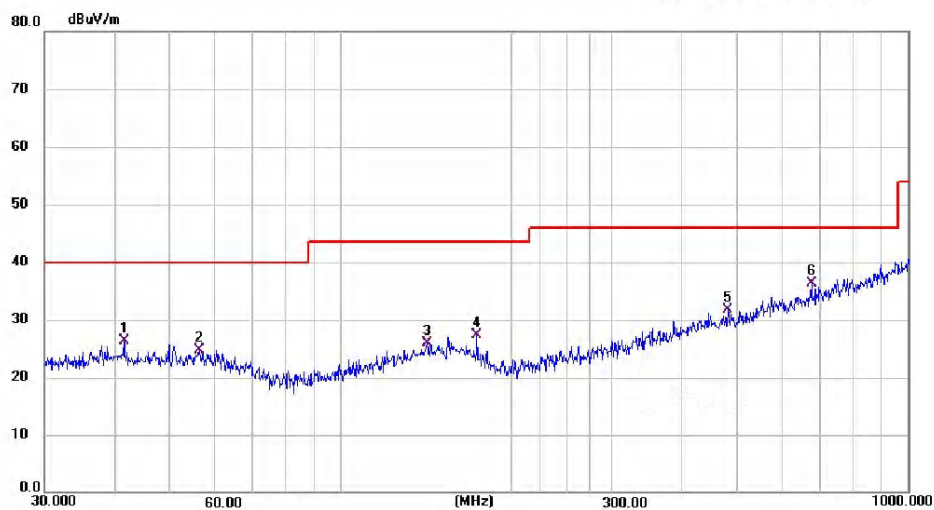
Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 1M 2402M
Test Voltage: DC 3.3V
Note:

Polarization: **Horizontal**
Distance:
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/16 13:36:53



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	41.4215	12.04	14.18	26.22	40.00	-13.78	QP	200	316	P	
2	56.1974	11.33	13.44	24.77	40.00	-15.23	QP	200	254	P	
3	141.8262	11.38	14.61	25.99	43.50	-17.51	QP	200	215	P	
4	173.8135	13.54	13.77	27.31	43.50	-16.19	QP	200	68	P	
5	480.5276	12.22	19.52	31.74	46.00	-14.26	QP	200	360	P	
6 *	675.2080	12.93	23.40	36.33	46.00	-9.67	QP	200	48	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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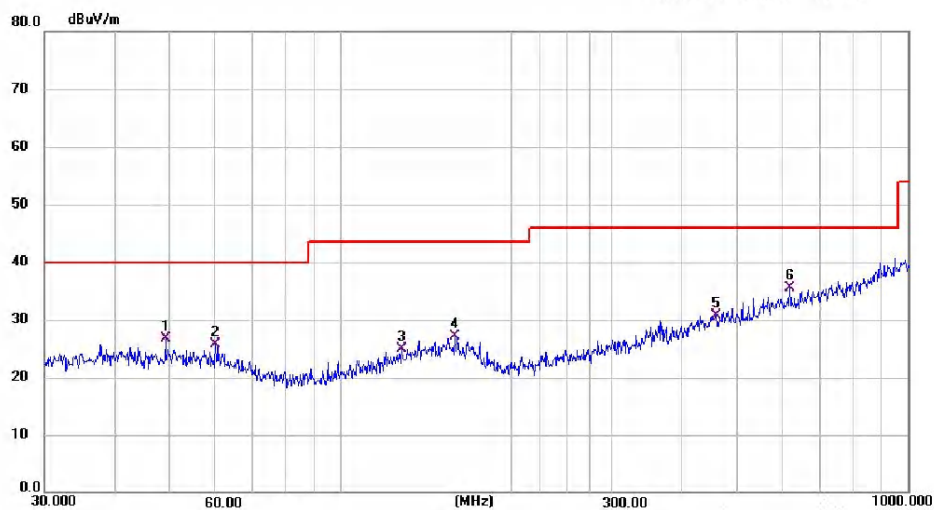
Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 1M 2480M
Test Voltage: DC 3.3V
Note:

Polarization: **Horizontal**
Distance:
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/16 13:41:23



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	49.0144	13.00	13.77	26.77	40.00	-13.23	QP	200	106	P	
2	60.0691	12.37	13.25	25.62	40.00	-14.38	QP	200	154	P	
3	128.1130	11.15	13.70	24.85	43.50	-18.65	QP	200	182	P	
4	158.6677	11.89	15.17	27.06	43.50	-16.44	QP	200	65	P	
5	459.1144	11.51	19.24	30.75	46.00	-15.25	QP	200	354	P	
6 *	618.5368	13.18	22.41	35.59	46.00	-10.41	QP	200	128	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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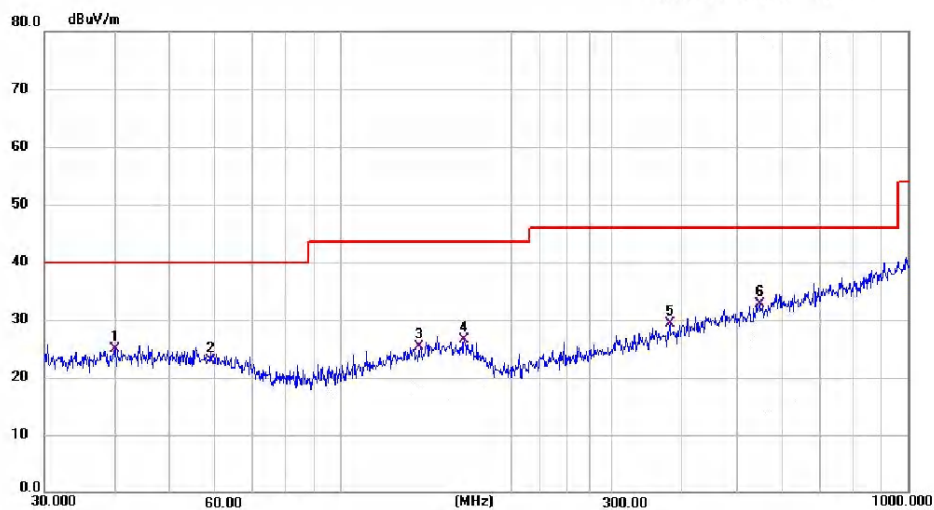
Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 1M 2480M
Test Voltage: DC 3.3V
Note:

Polarization: **Vertical**
Distance:
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/16 13:45:47



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	39.9942	10.58	14.28	24.86	40.00	-15.14	QP	100	52	P	
2	58.8185	9.54	13.31	22.85	40.00	-17.15	QP	100	185	P	
3	137.9028	10.99	14.33	25.32	43.50	-18.18	QP	100	61	P	
4	164.9075	11.69	14.76	26.45	43.50	-17.05	QP	100	354	P	
5	379.9141	12.08	17.16	29.24	46.00	-16.76	QP	100	96	P	
6 *	547.0977	11.72	20.98	32.70	46.00	-13.30	QP	100	189	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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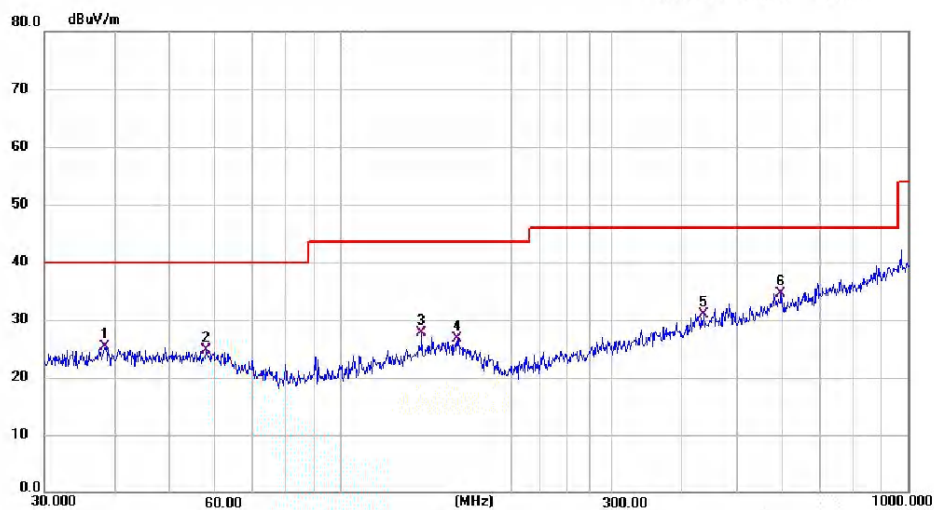
Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 2M 2402M
Test Voltage: DC 3.3V
Note:

Polarization: **Vertical**
Distance:
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/16 13:50:16



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	38.4809	11.32	14.06	25.38	40.00	-14.62	QP	100	316	P	
2	57.7962	11.27	13.36	24.63	40.00	-15.37	QP	100	215	P	
3	138.8735	13.38	14.39	27.77	43.50	-15.73	QP	100	84	P	
4	160.9089	11.66	15.10	26.76	43.50	-16.74	QP	100	156	P	
5	435.5898	12.21	18.73	30.94	46.00	-15.06	QP	100	344	P	
6 *	597.2234	12.53	22.01	34.54	46.00	-11.46	QP	100	157	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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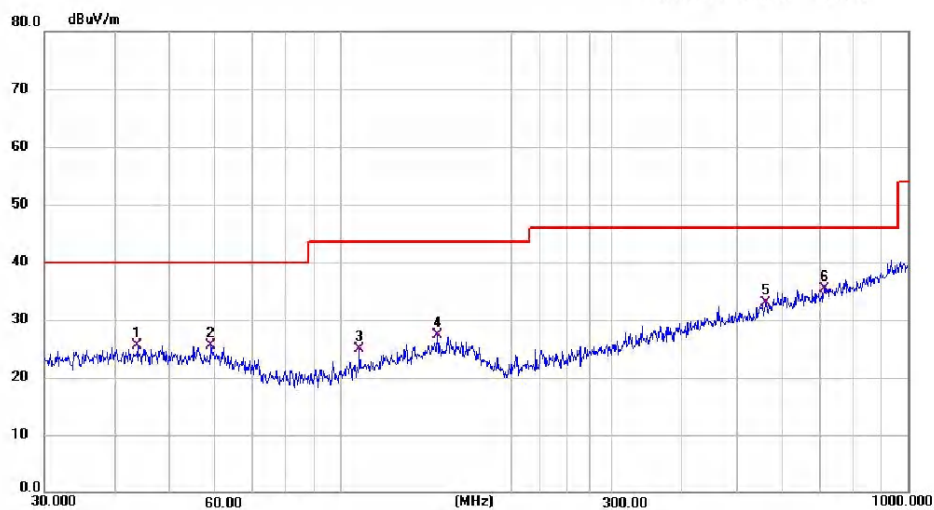
Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 2M 2402M
Test Voltage: DC 3.3V
Note:

Polarization: **Horizontal**
Distance:
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/16 13:56:34



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	43.8119	11.48	13.99	25.47	40.00	-14.53	QP	200	108	P	
2	58.8185	12.28	13.31	25.59	40.00	-14.41	QP	200	256	P	
3	107.8877	13.03	11.79	24.82	43.50	-18.68	QP	200	347	P	
4	147.9214	12.18	15.06	27.24	43.50	-16.26	QP	200	258	P	
5	560.6928	11.59	21.26	32.85	46.00	-13.15	QP	200	1698	P	
6 *	711.6734	11.31	23.98	35.29	46.00	-10.71	QP	200	125	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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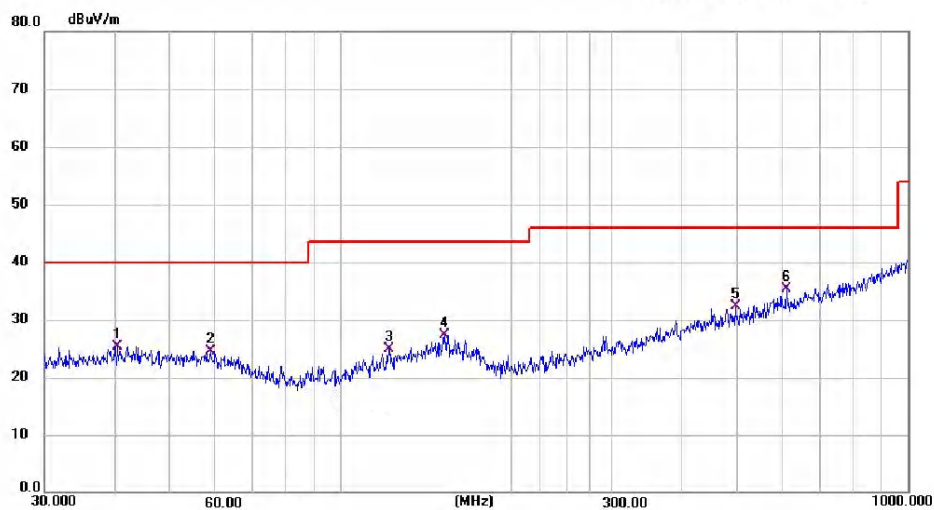
Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 2M 2480M
Test Voltage: DC 3.3V
Note:

Polarization: **Horizontal**
Distance:
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/16 14:26:53



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	40.4172	11.15	14.25	25.40	40.00	-14.60	QP	200	216	P	
2	58.8185	11.29	13.31	24.60	40.00	-15.40	QP	200	124	P	
3	121.5486	11.60	13.26	24.86	43.50	-18.64	QP	200	65	P	
4	152.1297	12.09	15.21	27.30	43.50	-16.20	QP	200	48	P	
5	495.9344	12.61	19.76	32.37	46.00	-13.63	QP	200	184	P	
6 *	609.9217	13.07	22.25	35.32	46.00	-10.68	QP	200	153	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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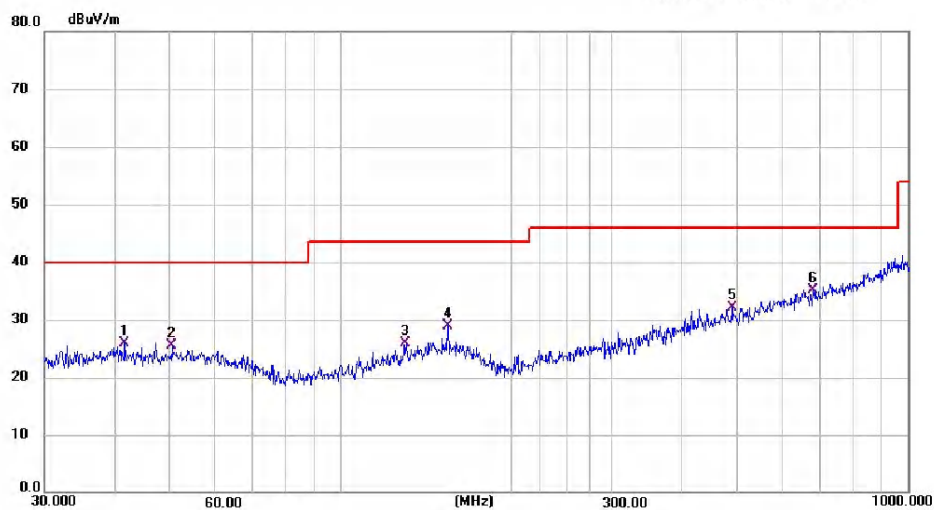
Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 2M 2480M
Test Voltage: DC 3.3V
Note:

Polarization: **Vertical**
Distance:
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/16 14:32:21



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	41.5670	11.82	14.16	25.98	40.00	-14.02	QP	100	125	P	
2	50.4089	11.81	13.72	25.53	40.00	-14.47	QP	100	147	P	
3	130.3789	11.98	13.84	25.82	43.50	-17.68	QP	100	158	P	
4	154.2786	13.65	15.20	28.85	43.50	-14.65	QP	100	265	P	
5	489.0269	12.43	19.65	32.08	46.00	-13.92	QP	100	318	P	
6 *	679.9600	11.67	23.48	35.15	46.00	-10.85	QP	100	250	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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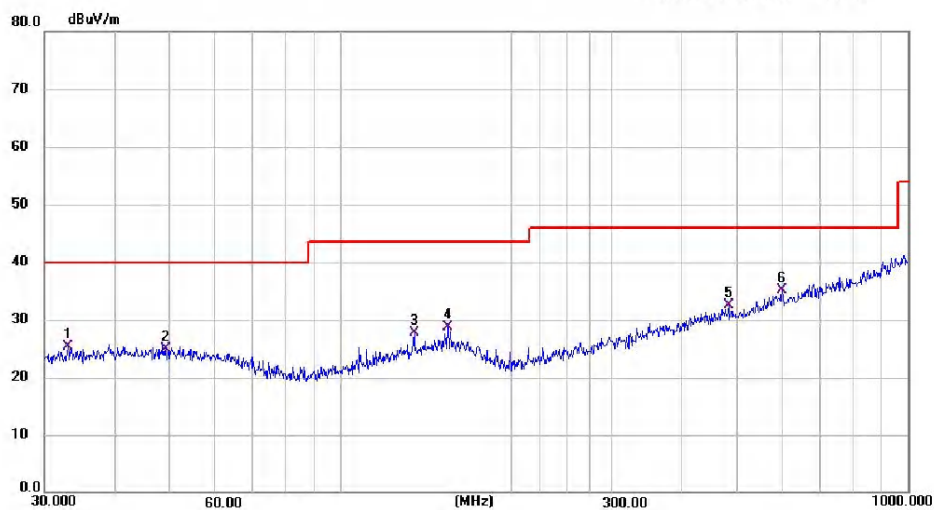
Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 500k 2402M
Test Voltage: DC 3.3V
Note:

Polarization: **Vertical**
Distance:
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/16 14:37:20



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	32.9791	11.72	13.50	25.22	40.00	-14.78	QP	100	328	P	
2	49.0145	11.17	13.77	24.94	40.00	-15.06	QP	100	158	P	
3	134.5592	13.58	14.11	27.69	43.50	-15.81	QP	100	249	P	
4	154.2786	13.49	15.20	28.69	43.50	-14.81	QP	100	266	P	
5	482.2156	13.00	19.55	32.55	46.00	-13.45	QP	100	158	P	
6 *	599.3212	12.97	22.05	35.02	46.00	-10.98	QP	100	121	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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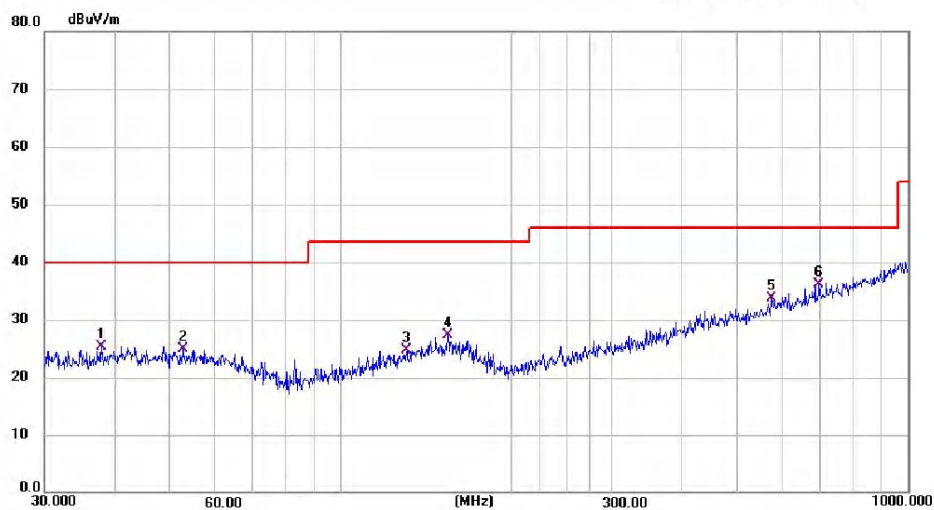
Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 500k 2402M
Test Voltage: DC 3.3V
Note:

Polarization: **Horizontal**
Distance:
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/16 14:41:58



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	37.8121	11.32	13.96	25.28	40.00	-14.72	QP	200	116	P	
2	52.5753	11.22	13.62	24.84	40.00	-15.16	QP	200	358	P	
3	130.8369	10.92	13.87	24.79	43.50	-18.71	QP	200	152	P	
4	154.2786	12.07	15.20	27.27	43.50	-16.23	QP	200	128	P	
5	574.6258	12.19	21.54	33.73	46.00	-12.27	QP	200	220	P	
6 *	696.8567	12.33	23.76	36.09	46.00	-9.91	QP	200	295	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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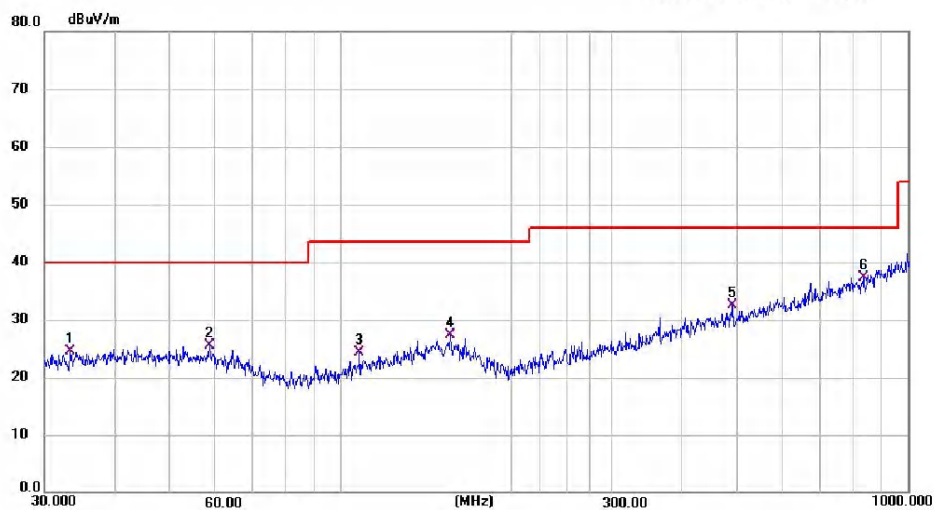
Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 500k 2480M
Test Voltage: DC 3.3V
Note:

Polarization: **Vertical**
Distance:
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/16 14:58:27



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	33.3279	10.93	13.51	24.44	40.00	-15.56	QP	100	105	P	
2	58.6126	12.13	13.32	25.45	40.00	-14.55	QP	100	236	P	
3	107.8877	12.57	11.79	24.36	43.50	-19.14	QP	100	215	P	
4	155.9101	12.11	15.19	27.30	43.50	-16.20	QP	100	183	P	
5	490.7447	12.86	19.68	32.54	46.00	-13.46	QP	100	236	P	
6 *	833.3171	11.92	25.43	37.35	46.00	-8.65	QP	100	65	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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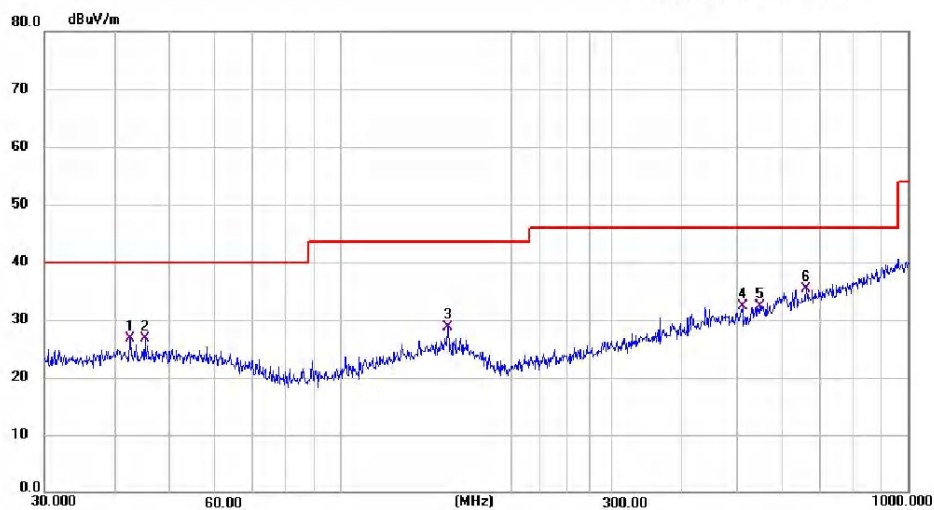
Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 500k 2480M
Test Voltage: DC 3.3V
Note:

Polarization: **Horizontal**
Distance:
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/16 15:05:49



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	42.4508	12.59	14.09	26.68	40.00	-13.32	QP	200	216	P	
2	45.0583	12.80	13.91	26.71	40.00	-13.29	QP	200	154	P	
3	154.2786	13.46	15.20	28.66	43.50	-14.84	QP	200	235	P	
4	510.0436	12.15	20.06	32.21	46.00	-13.79	QP	200	354	P	
5	547.0977	11.26	20.98	32.24	46.00	-13.76	QP	200	214	P	
6 *	661.1505	12.13	23.17	35.30	46.00	-10.70	QP	200	354	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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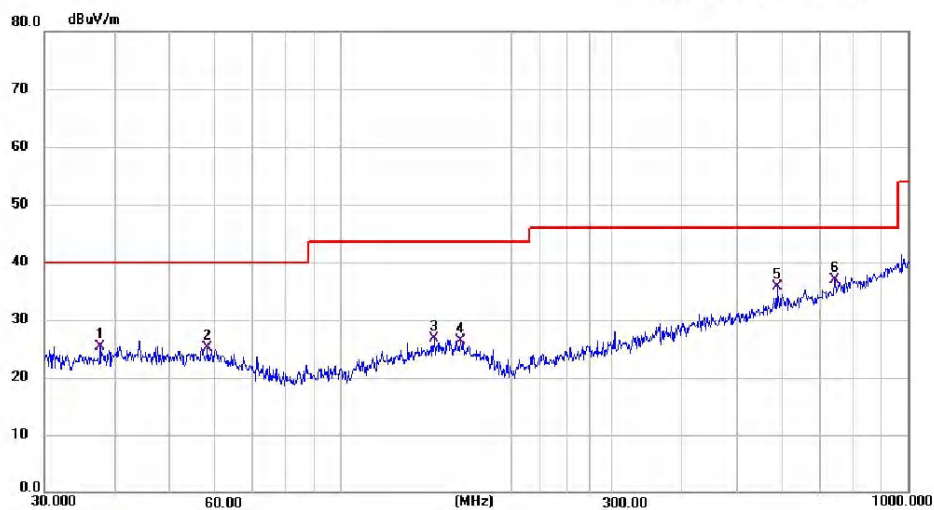
Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 125k 2402M
Test Voltage: DC 3.3V
Note:

Polarization: **Horizontal**
Distance:
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/16 15:12:25



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	37.6798	11.44	13.94	25.38	40.00	-14.62	QP	200	156	P	
2	58.2030	11.85	13.34	25.19	40.00	-14.81	QP	200	248	P	
3	145.8611	11.83	14.91	26.74	43.50	-16.76	QP	200	158	P	
4	162.6106	11.38	14.95	26.33	43.50	-17.17	QP	200	147	P	
5	586.8437	13.88	21.79	35.67	46.00	-10.33	QP	200	264	P	
6 *	742.2587	12.55	24.42	36.97	46.00	-9.03	QP	200	320	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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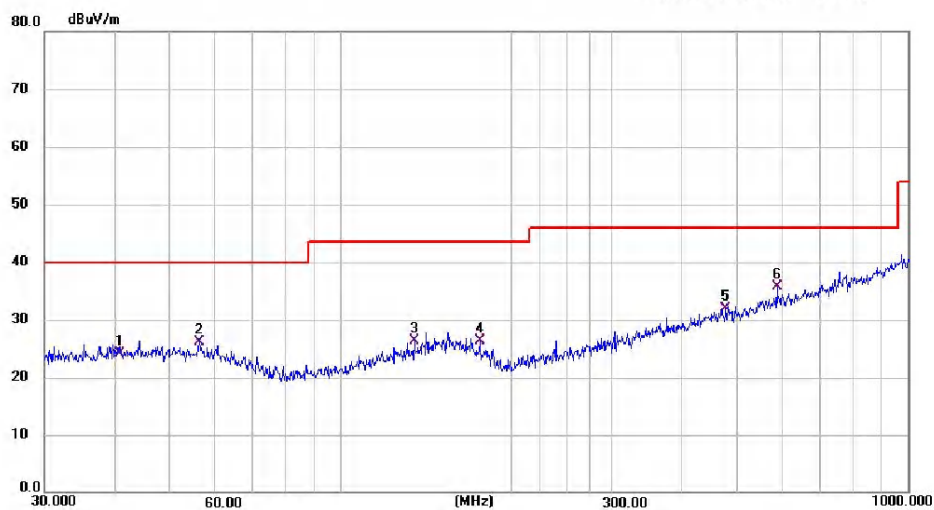
Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 125k 2402M
Test Voltage: DC 3.3V
Note:

Polarization: **Vertical**
Distance:
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/16 15:18:35



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	40.7016	9.82	14.22	24.04	40.00	-15.96	QP	100	154	P	
2	56.1974	12.69	13.44	26.13	40.00	-13.87	QP	100	241	P	
3	134.5592	12.18	14.11	26.29	43.50	-17.21	QP	100	268	P	
4	175.6516	12.88	13.50	26.38	43.50	-17.12	QP	100	326	P	
5	477.1694	12.37	19.47	31.84	46.00	-14.16	QP	100	216	P	
6 *	586.8437	13.88	21.79	35.67	46.00	-10.33	QP	100	62	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 125k 2480M
Test Voltage: DC 3.3V
Note:

Polarization: **Horizontal**
Distance:
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/16 15:35:53



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	40.5591	11.24	14.23	25.47	40.00	-14.53	QP	200	125	P	
2	55.4147	11.36	13.48	24.84	40.00	-15.16	QP	200	256	P	
3	123.2655	10.76	13.38	24.14	43.50	-19.36	QP	200	347	P	
4	154.2786	12.68	15.20	27.88	43.50	-15.62	QP	200	285	P	
5	422.0577	12.57	18.35	30.92	46.00	-15.08	QP	200	128	P	
6 *	645.1195	12.62	22.90	35.52	46.00	-10.48	QP	200	69	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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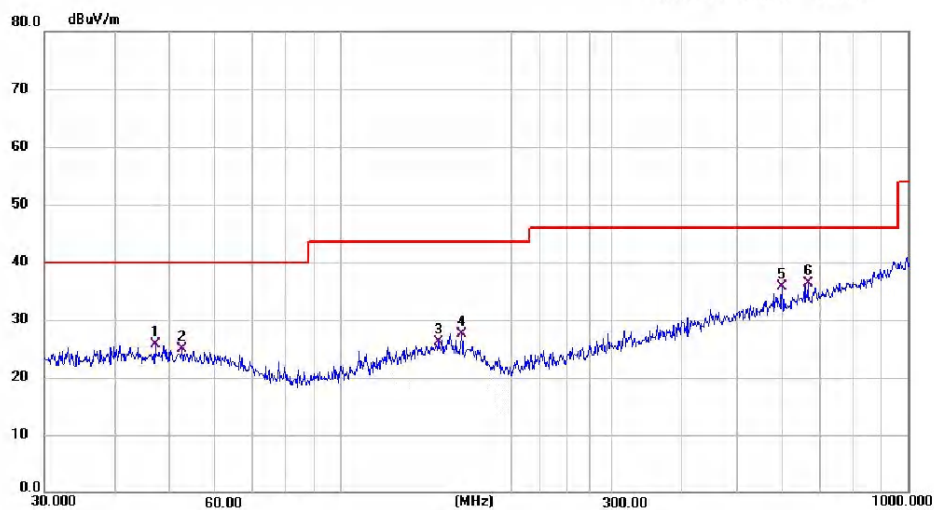
Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 125k 2480M
Test Voltage: DC 3.3V
Note:

Polarization: **Vertical**
Distance:
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/16 15:41:20



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	46.9948	11.95	13.84	25.79	40.00	-14.21	QP	100	169	P	
2	52.3912	11.26	13.63	24.89	40.00	-15.11	QP	100	45	P	
3	148.4410	11.00	15.10	26.10	43.50	-17.40	QP	100	268	P	
4	163.1818	12.60	14.90	27.50	43.50	-16.00	QP	100	348	P	
5	599.3212	13.69	22.05	35.74	46.00	-10.26	QP	100	311	P	
6 *	665.8035	13.09	23.25	36.34	46.00	-9.66	QP	100	55	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit

1GHz - 18GHz for ANT1

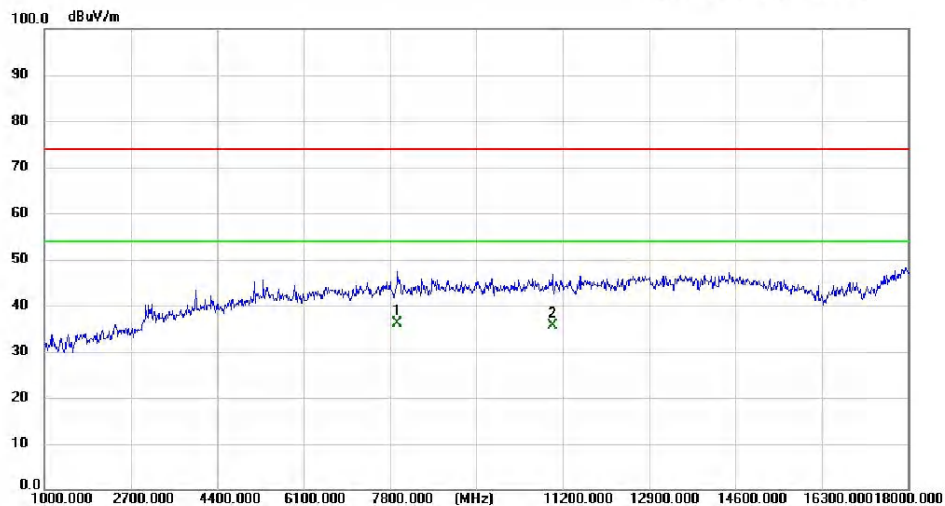


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Test Site: PSI EMC Lab-3m Chamber	Polarization: Vertical	Temperature: 26 °C
EUT: BLE & Thread Module	Distance: 3m	Humidity: 54 %RH
M/N: BLE & Thread Module	Test Engineer: Felix	
Test Mode: BLE 1M 2402M		
Test Voltage: DC 3.3V		
Note:		

Radiated Emission Measurement

Test Date: 2026/5/15 23:01:27



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	7967.875	52.85	-16.75	36.10	54.00	-17.90	AVG	150	206	P	
2	11008.750	50.60	-15.08	35.52	54.00	-18.48	AVG	150	124	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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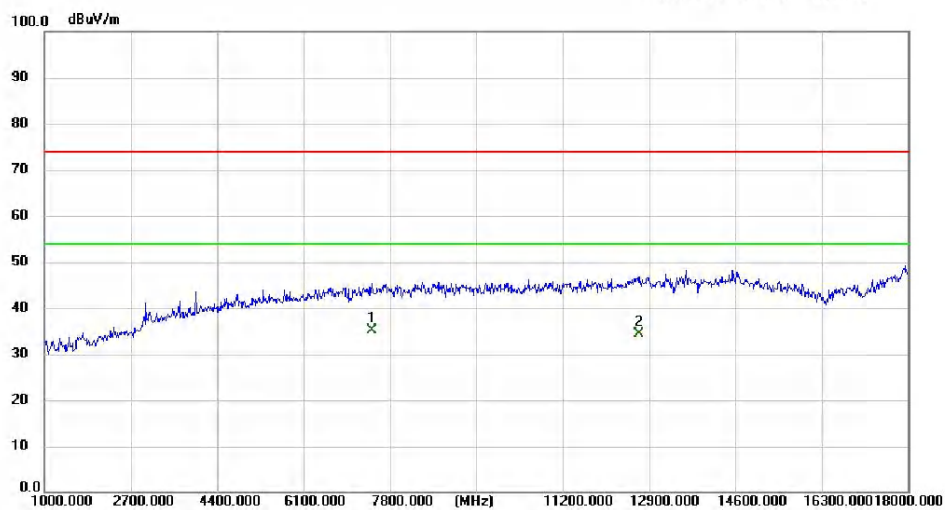
Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 1M 2402M
Test Voltage: DC 3.3V
Note:

Polarization: **Horizontal**
Distance: 3m
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/15 23:06:32



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	7443.000	52.23	-17.11	35.12	54.00	-18.88	AVG	150	326	P	
2	12719.375	48.59	-14.09	34.50	54.00	-19.50	AVG	150	308	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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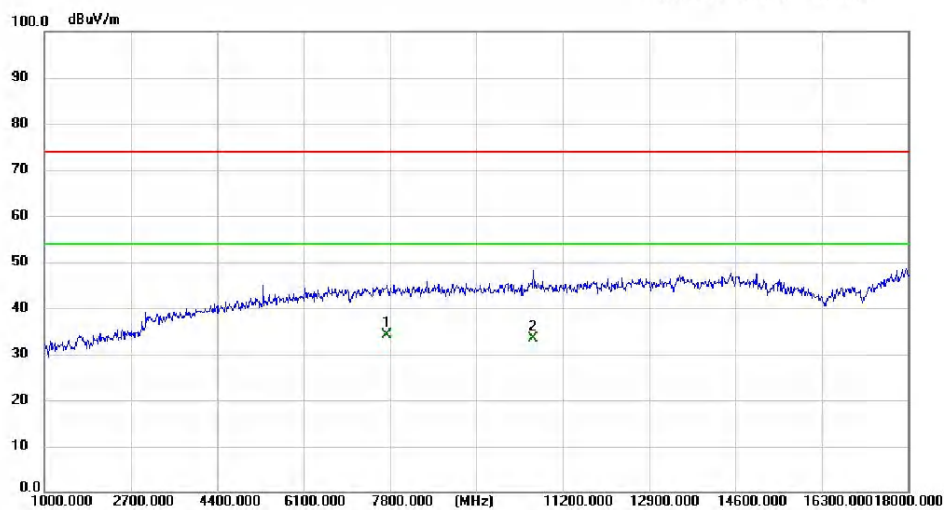
Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 1M 2440M
Test Voltage: DC 3.3V
Note:

Polarization: **Horizontal**
Distance: 3m
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/15 23:10:27



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	7763.875	51.03	-16.88	34.15	54.00	-19.85	AVG	150	240	P	
2	10634.750	48.95	-15.45	33.50	54.00	-20.50	AVG	150	148	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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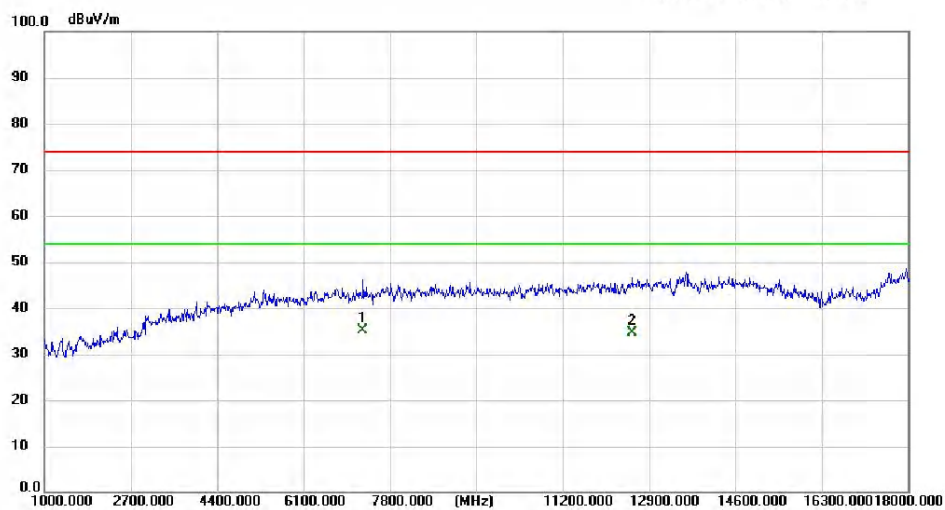
Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 1M 2440M
Test Voltage: DC 3.3V
Note:

Polarization: **Vertical**
Distance: 3m
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/15 23:15:59



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	7275.125	52.34	-17.22	35.12	54.00	-18.88	AVG	150	211	P	
2	12585.500	48.76	-14.20	34.56	54.00	-19.44	AVG	150	185	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit