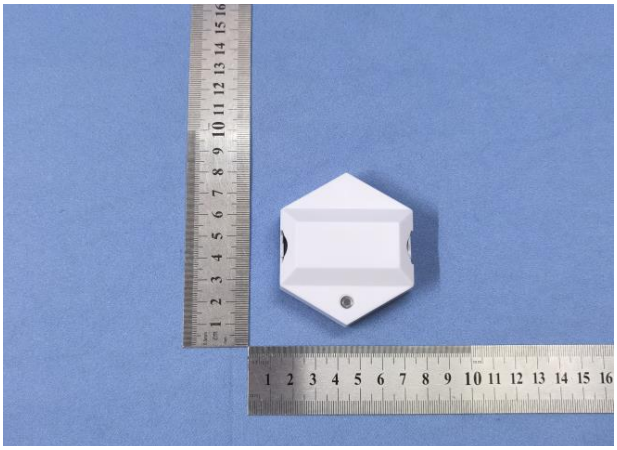
Prüfbericht - Produkte
Test Report - Products

Prüfbericht-Nr.: *Test report no.*:	**CN255GUC 001**	**Auftrags-Nr.:** *Order no.*:	158317059	Seite 1 von 35 *Page 1 of 35*
Kunden-Referenz-Nr.: *Client reference no.*:	N/A	**Auftragsdatum:** *Order date:*	2025-09-09	
Auftraggeber: *Client*:	Ravensburger Verlag GmbH Otto-Maier-Straße 1, 88214 Ravensburg, Germany			
Prüfgegenstand: *Test item*:	Short Range Device -GT-PWR Color detector (2.4GHz)			
Bezeichnung / Typ-Nr.: *Identification / Type no.*:	910976			
Auftrags-Inhalt: *Order content*:	FCC Certification			
Prüfgrundlage: *Test specification*:	FCC Part 15 Subpart C, ANSI C63.10-2020			

Wareneingangsdatum: *Date of sample receipt*:	2024-05-21
Prüfmuster-Nr.: *Test sample no:*	A003723678-001
Prüfzeitraum: *Testing period*:	2024-05-21 to 2024-05-31
Ort der Prüfung: *Place of testing*:	Hong Kong
Prüflaboratorium: *Testing laboratory:*	TÜV Rheinland Hong Kong Ltd.
Prüfergebnis*: *Test result**:	Pass



geprüft von: tested by/ supervised by:	X	**genehmigt von:** *authorized by*:	X
Datum: *Date:* 2025-10-10	Monica Tai / Wooga Wu	**Ausstellungsdatum:** *Issue date:* 2025-10-10	Billy Yip
Stellung / Position:	Assistant Test Engineer	**Stellung** / Position:	Authorizer

Sonstiges / *Other*: "Decision Rule" document announced in our website (https://www.tuv.com/landingpage/en/qm-gcn/) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.

FCC ID: 2A2XI976
Doc number: 37385-01-002 & 37385-01-003, SAP number: 1060969

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*

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. *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.*
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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. *Test clauses with remark of * are subcontracted to qualified subcontractors and descripted under the respective test clause in the report.* *Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.*
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnisen 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 bezueglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. *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.*

Table of Content

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Product Information

Manufacturers declarations

	Transmitter
Operating frequency range	2402-2404, 2469-2471 MHz
Type of modulation	GFSK
Number of channels	6
Frequency channel	2402, 2403, 2404, 2469, 2470, 2471 MHz
Type of antenna	PCB antenna
Power level	fix
Connection to public utility power line	No
Nominal voltage	1.5 V DC
Occupied bandwidth	Not available
Channel bandwidth	1MHz
Emission designator	F1D
Frequency stability	Not available

Product function and intended use

The equipment under test (EUT) is a radio control toy transmitter operating at 2.4GHz. It is powered by battery only.

FCC ID: 2A2XI976

Models	**Product description**
910976	Short Range Device -GT-PWR Color detector (2.4GHz)

Submitted documents

Nil

Independent Operation Modes

The basic operation modes are:

- Transmitting mode.

For further information refer to User Manual

Related Submittal(s) Grants

This is a single application for certification of the transmitter.

Remark

This report is prepared for standard update. After evaluation, no test was performed. All other test result is originated from test report CN2499X5 001 issued on 2024-07-12.

Absatz *Clause*	**Anforderungen - Prüfungen /** *Requirements - Tests*	**Messergebnisse – Bemerkungen/** *Measuring results - Remarks*	**Ergebnis** *Result*

Test Set-up and Operation Mode

Principle of Configuration Selection

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.

Test Operation and Test Software

Test operation should refer to test methodology.

- Test mode samples with maximum RF output power and duty cycle and capable to transmit continuously at the lowest, middle and highest frequency channels is provided by the applicant for the testing.
-

Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

- None

Countermeasures to achieve EMC Compliance

- None

Test Methodology

Radiated Emission

The radiated emission measurements of the transmitter part were performed according to the procedures in ANSI C63.10-2020.

For measurement below 1GHz - the equipment under test (EUT) was placed at the middle of the 80 cm height turntable. For measurement above 1GHz - the EUT was placed at the middle of the 1.5 m height turntable and RF absorbing material was placed on ground plane between turntable and measuring antenna. During the testing, the EUT was operated standalone and arranged for maximum emissions. The EUT was tested in three orthogonal planes.

The investigation is performed with the EUT rotated 360 ˚, the antenna height scanned between 1m and 4m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations. Repeat the measurement steps until the maximum emissions were obtained.

All radiated tests were performed at an antenna to EUT with 3 meters distance, unless stated otherwise in particular parts of this test report.

Field Strength Calculation

The field strength at 3 m was established by adding the meter reading of the spectrum analyzer to the factors associated with antenna correction factor, cable loss, preamplifiers and filter attenuation.

The equation is expressed as follow:

FS = R + AF + CF + FA – PA

Where

FS = Field Strength in dBuV/m at 3 meters.
R = Reading of Spectrum Analyzer in dBuV.
AF = Antenna Factor in dB.
CF = Cable Attenuation Factor in dB.
FA = Filter Attenuation Factor in dB.
PA = Preamplifier Factor in dB.

FA and PA are only be used for the measuring frequency above 1 GHz.

Conducted Emission Calculation

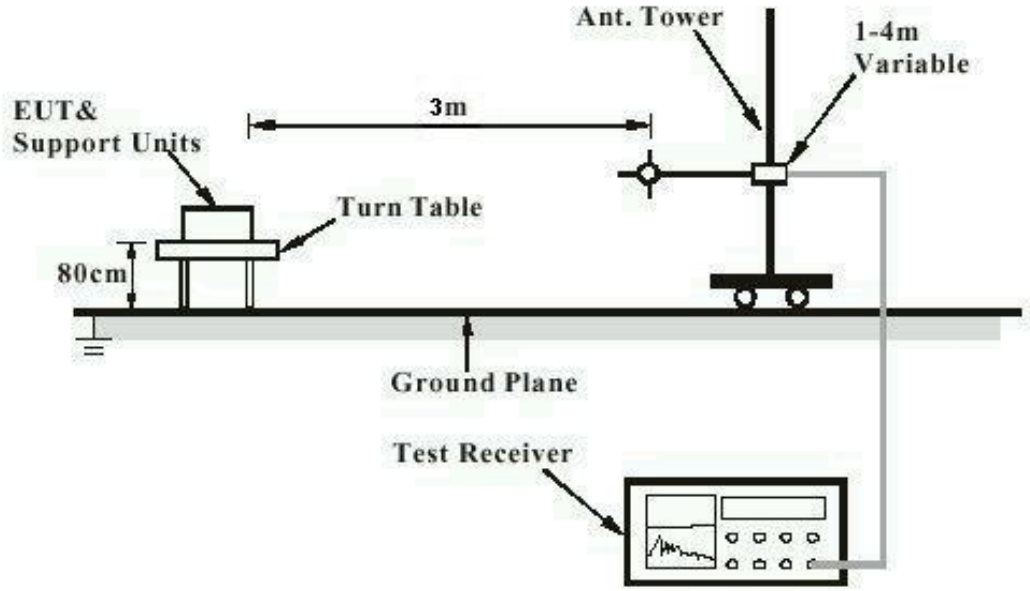
Receiver reading Rr (dBµV)
LISN insertion loss Ll (dB)
Cable loss Cl (dB)

Result (dBµV) = Rr + Ll + Cl
Sample: Rr = 40.2 dBµV
Ll = 10.2 dB
Cl = 0.3 dB

Result = 40.2 + 10.2 + 0.3 = 50.7 dBµV

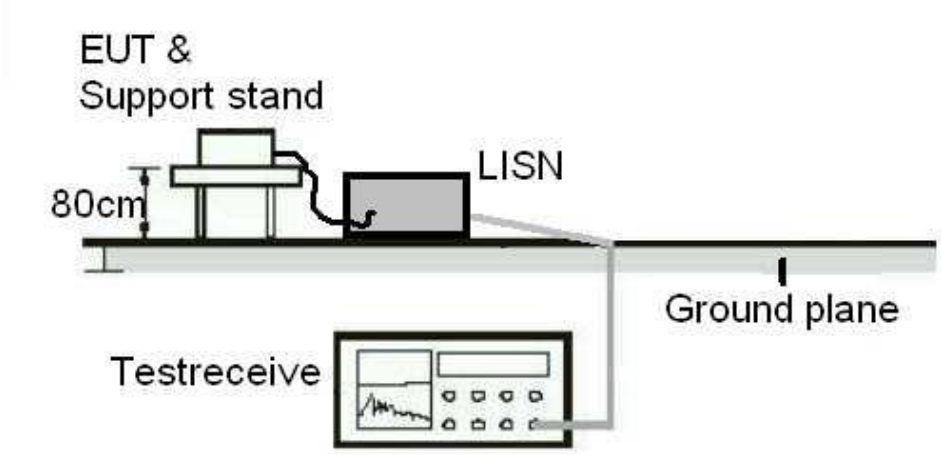
Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test



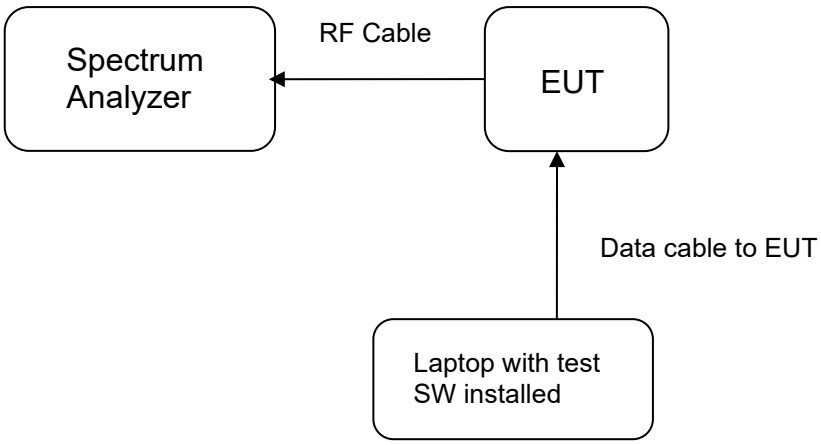
Note: Measurements above 1 GHz are done with a table height of 1.5m. In addition, there is RF absorbing material on the floor of the test site for above 1GHz measurement.

Diagram of Measurement Equipment Configuration for Mains Conduction Measurement (if applicable)



Absatz *Clause*	**Anforderungen - Prüfungen /** *Requirements - Tests*	**Messergebnisse – Bemerkungen/** *Measuring results - Remarks*	**Ergebnis** *Result*

Diagram of Equipment Configuration for Antenna-port Conducted Measurement (if applicable)



Test Facility

Test Laboratory Information

TÜV Rheinland Hong Kong Ltd.
Address: 3-4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, N.T., Hong Kong
Tel.: +852 2192 1000
Fax: +852 2192 1001
Email: service-gc@tuv.com

The test facility is recognized or accredited by the following organizations:
FCC
Designation Number : HK0013

Hong Kong Productivity Council
Address: LG 1/F., HKPC Building, 78 Tat Chee Road
Tel.: +852 2788 6396
Fax: +852 2788 5405
Email: emc@hkpc.org

The test facility is recognized or accredited by the following organizations:
FCC
Designation Number : HK0012

List of Test and Measurement Instruments

Hong Kong Productivity Council

Radiated Emission

Equipment	Manufacturer	Type	Cal. Date	Due Date
Multi-functional Anechoic Chamber (NSA)	Albatross	---	2024-01-06	2025-01-06
Multi-functional Anechoic Chamber (VSWR)	Albatross	---	2024-01-04	2025-01-04
Test Receiver	Rohde & Schwarz	ESU40	2024-03-09	2025-03-09
Double-Ridged Waveguide Horn	EMCO	3117	2023-11-21	2024-11-21
Bi-conical Antenna	Rohde & Schwarz	HK116	2022-10-24	2024-10-24
Log Periodic Antenna	Rohde & Schwarz	HL223	2022-10-25	2024-10-25
Cable	SF118/11N/11 N/12000MM	Huber+Suhner	2024-01-06	2025-01-06
Microwave amplifier	COM-POWER Corporation	PAM-118A	2024-03-04	2025-03-04
High Pass Filter	Trilithic	23042	2024-10-29	2025-10-29

TÜV Rheinland Hong Kong Ltd.

Radio Test

Equipment	Manufacturer	Type	Cal. Date	Due Date
Spectrum Analyzer	R & S	FSV40	2023-07-13	2024-07-13

Measurement Uncertainty

The estimated combined standard uncertainty for powerline conducted emissions measurements is ±3.22dB.

The estimated combined standard uncertainty for radiated emissions measurements is ±2.44dB (9kHz to 30MHz) and ±5.92dB (30MHz to 1000MHz) and is ±4.92dB (1GHz to 18GHz).

The estimated combined standard uncertainty for antenna conducted emission is ±1.94dB

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of k=2, which for the level of confidence is approximately 95%.

Absatz *Clause*	**Anforderungen - Prüfungen /** *Requirements - Tests*	**Messergebnisse – Bemerkungen/** *Measuring results - Remarks*	**Ergebnis** *Result*

Results FCC Part 15 - Subpart C

FCC 15.203 – Antenna Requirement 1		**Pass**
Requirement:	No antenna other than that furnished by the responsible party shall be used with the device	
Results:	a) Antenna type	PCB antenna
	b) Manufacturer and model no.:	N/A
	c) Peak Gain:	0 dBi
Verdict:	Pass	

FCC 15.204 – Antenna Requirement 2	**Pass**
Requirement:	An intentional radiator may be operated only with the antenna with which it is authorized. If an antenna is marketed with the intentional radiator, it shall be of a type which is authorized with the intentional radiator.
Results:	Only one integral antenna can be used.
Verdict:	Pass

FCC 15.207 – Conducted Emission on AC Mains	**N/A**
There is no AC power input or output ports on the EUT.	

Absatz *Clause*	**Anforderungen - Prüfungen /** *Requirements - Tests*	**Messergebnisse – Bemerkungen/** *Measuring results - Remarks*	**Ergebnis** *Result*

FCC 15.215 (c) – 20 dB Bandwidth **Pass**

Test Specification : ANSI C63.10 – 2020
Test date : 2024-05-31
Mode of operation : Tx mode
Port of testing : Antenna port
Supply voltage : 1.5 V DC
Temperature : 21.4ºC
Humidity : 38.6%

Requirement The intentional radiators must be designed to ensure that the 20dB bandwidth of the emission, is contained within the frequency band designated in the rule section under which the equipment is operated.

Results: Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and packet types.
For test protocols refer to Appendix 1.

Frequency (MHz)	**20 dB left (MHz)**	**Limit (MHz)**	**20 dB right (MHz)**	**Limit (MHz)**
2402	2401.667	> 2400	2402.701	< 2483.5
2404	2403.660	> 2400	2404.695	< 2483.5
2471	2470.559	> 2400	2471.709	< 2483.5

ANSI C63.10 – 6.9.3 – Occupied Bandwidth **N/A**

Test Specification : ANSI C63.10 – 2020
Test date : 2024-05-31
Mode of operation : Tx mode
Port of testing : Antenna port
Supply voltage : 1.5 V DC
Temperature : 21.4ºC
Humidity : 38.6%

Requirement N/A

Results: Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and packet types.
For test protocols refer to Appendix 1.

Frequency (MHz)	**Left (MHz)**	**Right (MHz)**	**99% bandwidth (MHz)**
2402	2401.659	2402.687	1.027
2404	2403.653	2404.687	1.035
2471	2470.588	2471.767	1.179

Absatz *Clause*	**Anforderungen - Prüfungen /** *Requirements - Tests*	**Messergebnisse – Bemerkungen/** *Measuring results - Remarks*	**Ergebnis** *Result*

FCC 15.249 (a) – Field Strength of Fundamental and Harmonics **Pass**

Test Specification : ANSI C63.10 – 2020
Test date : 2024-05-28
Mode of operation : Tx mode
Port of testing : Enclosure
Frequency range : 9kHz - 25GHz
Supply voltage : 1.5 V DC
Temperature : 21ºC
Humidity : 59%

Requirement: The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following limit.

Results:

Fundamental Frequency: 2402MHz Vertical Polarization

Frequency MHz	**Level dBµV/m**	**Limit / Detector dBµV/m**
2402.000	84.1	114.0 / PK
2402.000	54.8	94.0 / AV

Fundamental Frequency: 2402MHz Horizontal Polarization

Frequency MHz	**Level dBµV/m**	**Limit / Detector dBµV/m**
2402.000	85.9	114.0 / PK
2402.000	56.9	94.0 / AV

Harmonics: 2402MHz Vertical Polarization

Frequency MHz	**Level dBµV/m**	**Limit / Detector dBµV/m**
4804.000	56.8	74.0 / PK
4804.000	32.4	54.0 / AV
7206.000	55.1	74.0 / PK
7206.000	32.0	54.0 / AV

Harmonics: 2402MHz Horizontal Polarization

Frequency MHz	**Level dBµV/m**	**Limit / Detector dBµV/m**
4804.000	53.4	74.0 / PK
4804.000	31.0	54.0 / AV
7206.000	54.0	74.0 / PK
7206.000	31.7	54.0 / AV

Absatz *Clause*	**Anforderungen - Prüfungen /** *Requirements - Tests*	**Messergebnisse – Bemerkungen/** *Measuring results - Remarks*	**Ergebnis** *Result*

Fundamental Frequency: 2404MHz	Vertical Polarization	
Frequency MHz	**Level dBµV/m**	**Limit / Detector dBµV/m**
2404.000	83.9	114.0 / PK
2404.000	54.5	94.0 / AV
Fundamental Frequency: 2404MHz	Horizontal Polarization	
Frequency MHz	**Level dBµV/m**	**Limit / Detector dBµV/m**
2404.000	86.2	114.0 / PK
2404.000	56.8	94.0 / AV
Harmonics: 2404MHz	Vertical Polarization	
Frequency MHz	**Level dBµV/m**	**Limit / Detector dBµV/m**
4808.000	56.8	74.0 / PK
4808.000	32.4	54.0 / AV
7212.000	55.2	74.0 / PK
7212.000	32.0	54.0 / AV
Harmonics: 2404MHz	Horizontal Polarization	
Frequency MHz	**Level dBµV/m**	**Limit / Detector dBµV/m**
4808.000	56.4	74.0 / PK
4808.000	32.4	54.0 / AV
7212.000	54.9	74.0 / PK
7212.000	32.0	54.0 / AV

Fundamental Frequency: 2471MHz	Vertical Polarization	
Frequency MHz	**Level dBµV/m**	**Limit / Detector dBµV/m**
2471.000	83.6	114.0 / PK
2471.000	54.1	94.0 / AV
Fundamental Frequency: 2471MHz	Horizontal Polarization	
Frequency MHz	**Level dBµV/m**	**Limit / Detector dBµV/m**
2471.000	86.4	114.0 / PK
2471.000	56.9	94.0 / AV
Harmonics: 2471MHz	Vertical Polarization	
Frequency MHz	**Level dBuV/m**	**Limit / Detector dBµV/m**
4942.000	56.7	74.0 / PK
4942.000	32.0	54.0 / AV
7413.000	52.4	74.0 / PK
7413.000	30.8	54.0 / AV
Harmonics: 2471MHz	Horizontal Polarization	
Frequency MHz	**Level dBµV/m**	**Limit / Detector dBµV/m**
4942.000	59.0	74.0 / PK
4942.000	33.5	54.0 / AV
7413.000	51.1	74.0 / PK
7413.000	30.3	54.0 / AV

Absatz *Clause*	**Anforderungen - Prüfungen /** *Requirements - Tests*	**Messergebnisse – Bemerkungen/** *Measuring results - Remarks*	**Ergebnis** *Result*

FCC 15.249 (d) – Out of Band Radiated Emission **Pass**

Test Specification	: ANSI C63.10 – 2020
Test date	: 2024-05-28
Mode of operation	: Tx mode
Port of testing	: Enclosure
Frequency range	: 9kHz - 25GHz
Supply voltage	: 1.5 V DC
Temperature	: 21ºC
Humidity	: 59%

Requirement: The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following limit.

Results: All three transmit frequency modes comply with the field strength limit of section 15.209. There is no spurious found below 30MHz.

TX Frequency: 2402MHz Vertical Polarization

Frequency MHz	**Level dBµV/m**	**Limit / Detector dBµV/m**
2400.000	60.2	74.0 / PK
2400.000	22.0	54.0 / AV
2390.000	54.0	74.0 / PK
2390.000	21.4	54.0 / AV

TX Frequency: 2402MHz Horizontal Polarization

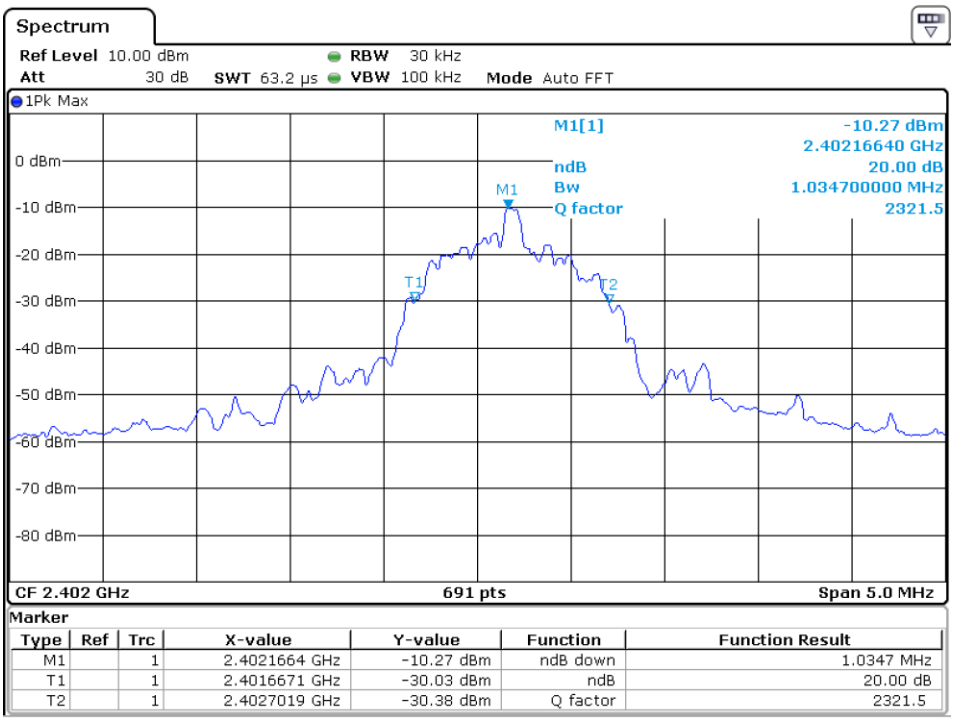
Frequency MHz	**Level dBµV/m**	**Limit / Detector dBµV/m**
2400.000	64.3	74.0 / PK
2400.000	23.5	54.0 / AV
2390.000	49.6	74.0 / PK
2390.000	21.5	54.0 / AV

TX Frequency: 2404MHz	Vertical Polarization	
Frequency MHz	**Level dBµV/m**	**Limit / Detector dBµV/m**
No Peak Found	---	74.0 / PK
No Peak Found	---	54.0 / AV
TX Frequency: 2404MHz	Horizontal Polarization	
Frequency MHz	**Level dBµV/m**	**Limit / Detector dBµV/m**
No Peak Found	---	74.0 / PK
No Peak Found	---	54.0 / AV
TX Frequency: 2471MHz	Vertical Polarization	
Frequency MHz	**Level dBµV/m**	**Limit / Detector dBµV/m**
2483.500	47.9	74.0 / PK
2483.500	21.2	54.0 / AV
TX Frequency: 2471MHz	Horizontal Polarization	
Frequency MHz	**Level dBµV/m**	**Limit / Detector dBµV/m**
2483.500	55.4	74.0 / PK
2483.500	21.8	54.0 / AV

Appendix 1

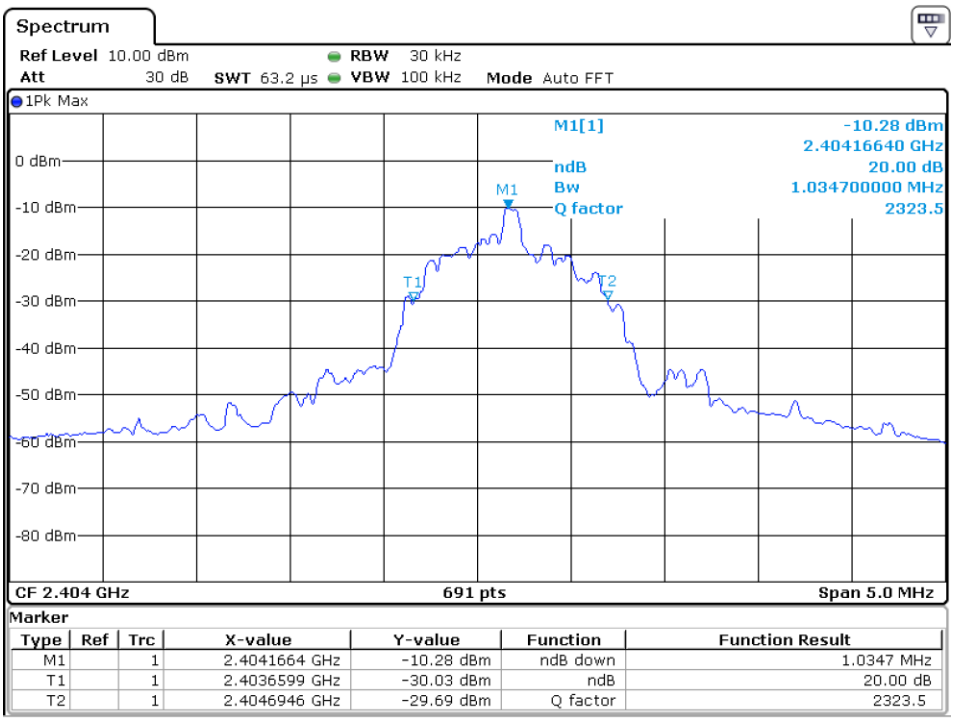
Test Results

Test results of 20 dB Bandwidth



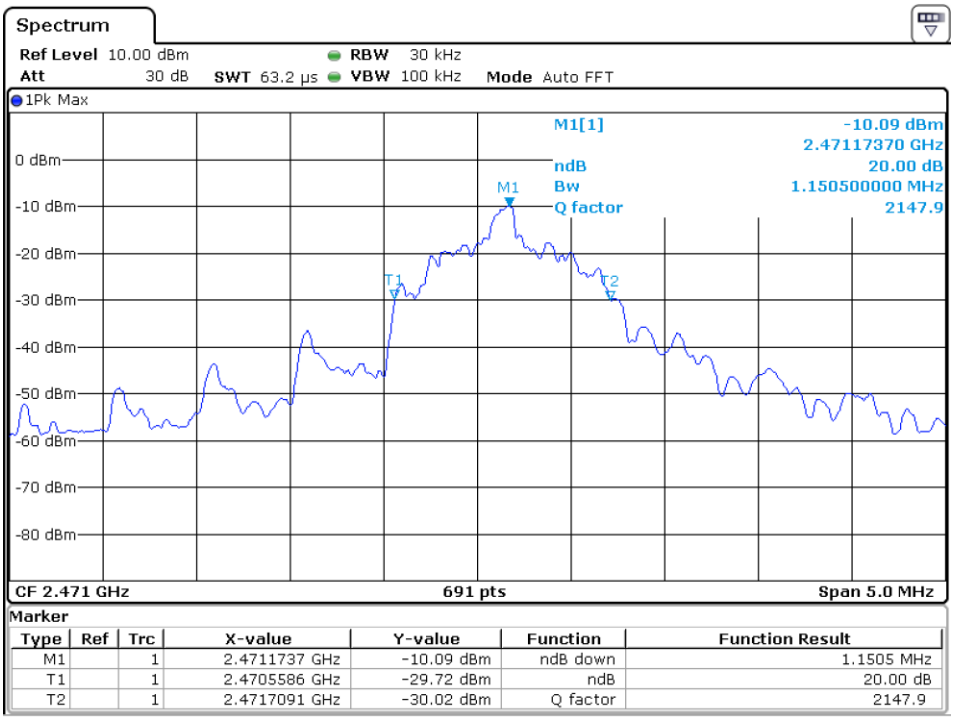
Date: 31.MAY.2024 15:15:00

Tx frequency: 2402MHz



Date: 31.MAY.2024 15:16:58

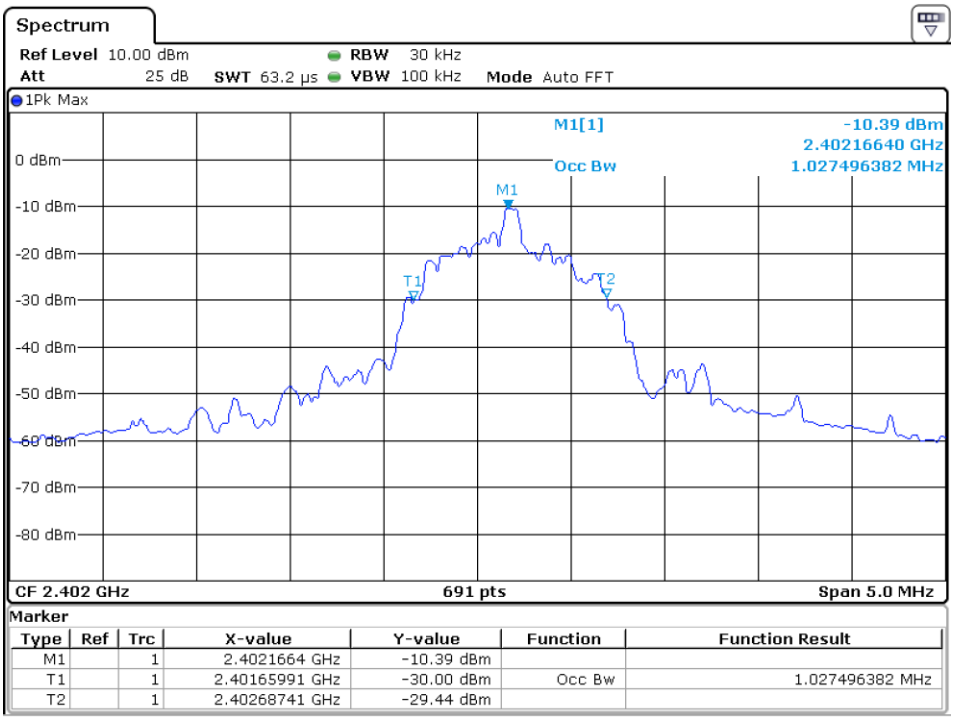
Tx frequency: 2404MHz



Date: 31.MAY.2024 15:18:03

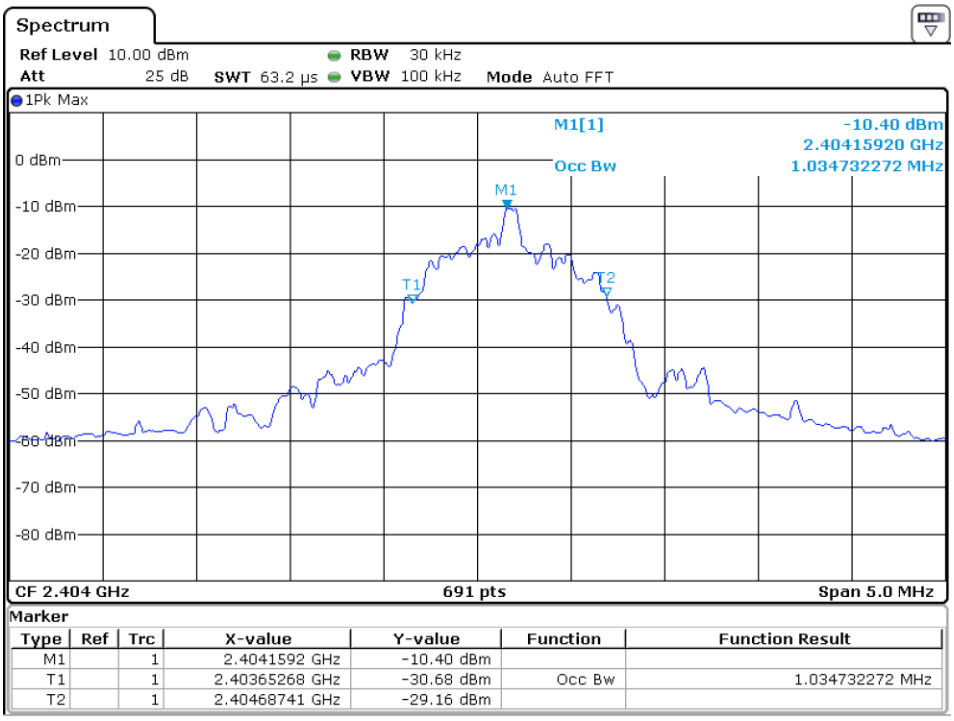
Tx frequency: 2471MHz

Test results of 99% Occupied Bandwidth



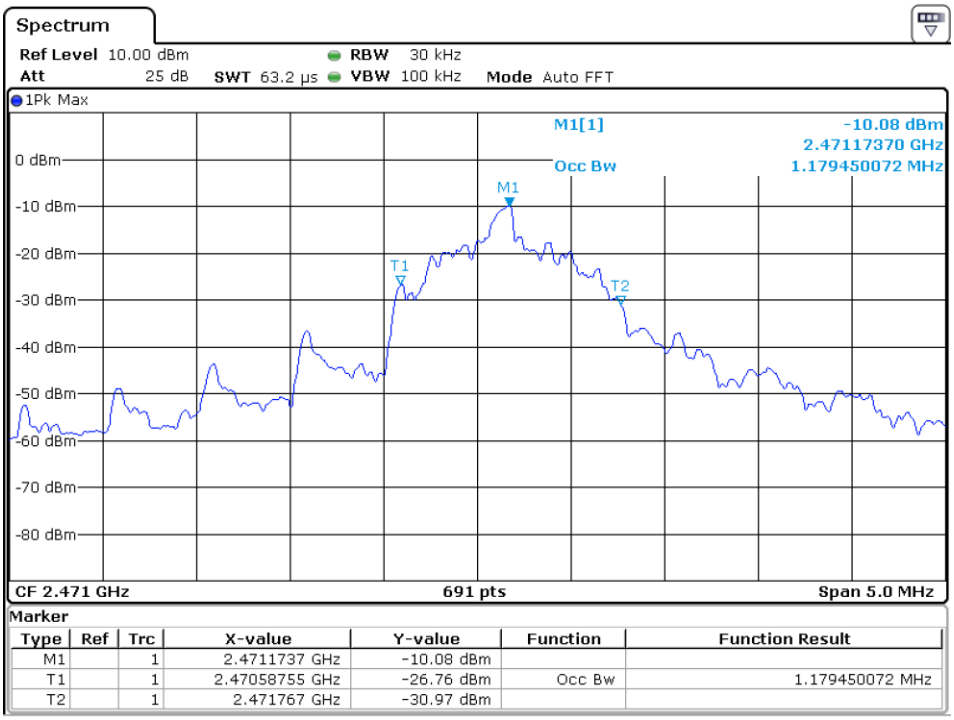
Date: 31.MAY.2024 15:16:09

Tx frequency: 2402MHz



Date: 31.MAY.2024 15:17:16

Tx frequency: 2404MHz



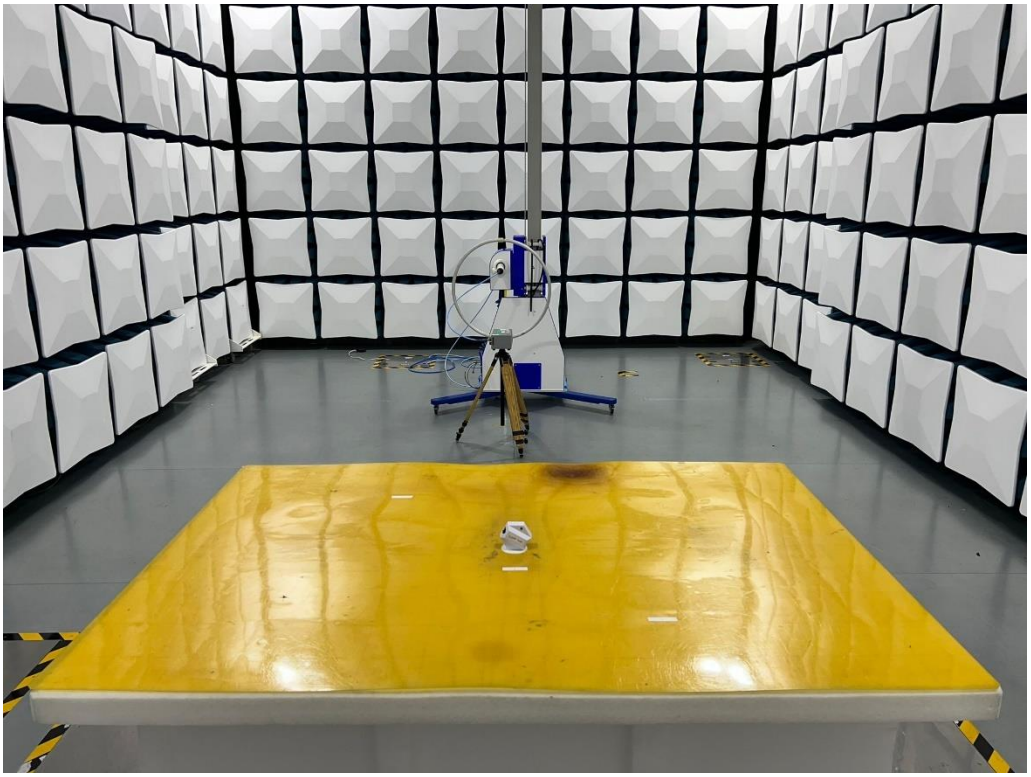
Date: 31.MAY.2024 15:18:26

Tx frequency: 2471MHz

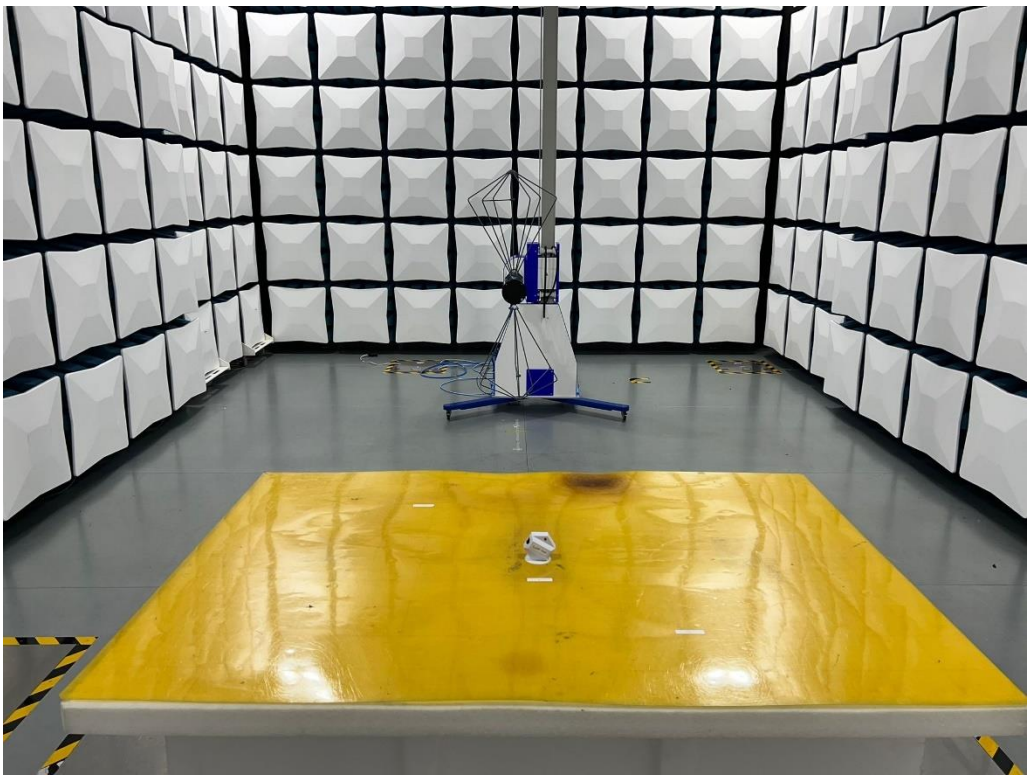
Appendix 2

Test Setup Photos

Absatz *Clause*	**Anforderungen - Prüfungen /** *Requirements - Tests*	**Messergebnisse – Bemerkungen/** *Measuring results - Remarks*	**Ergebnis** *Result*

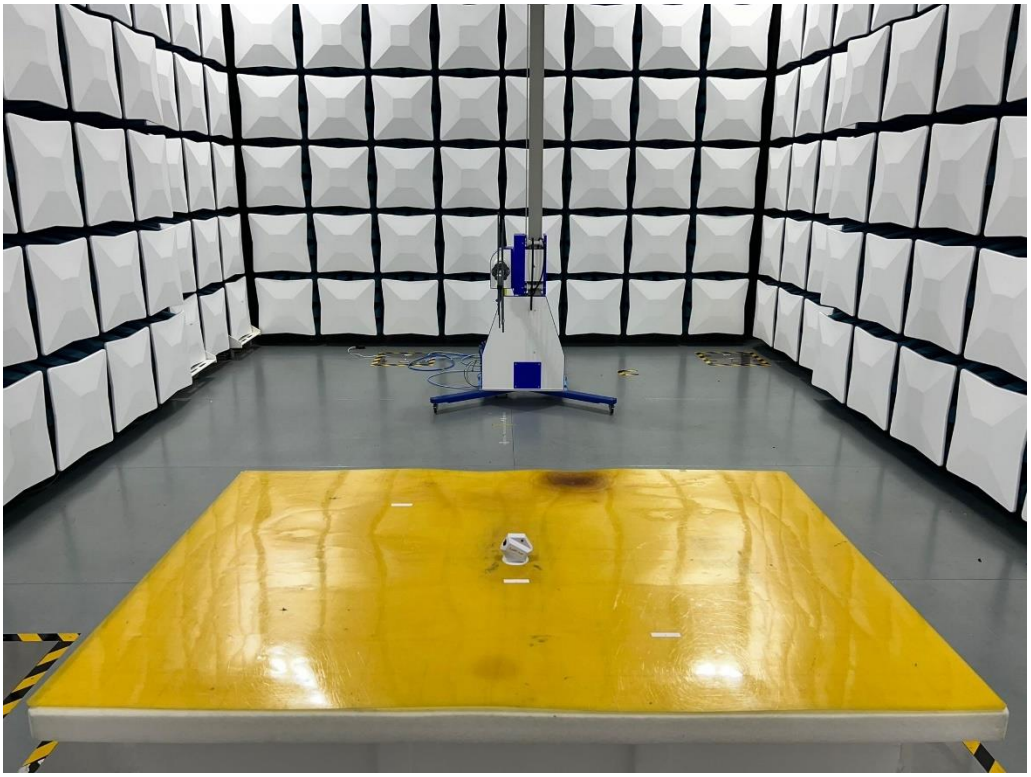


Set-up for Radiated Emission (9 kHz-30 MHz)



Set-up for Radiated Emission (30 MHz-200 MHz)

Absatz *Clause*	**Anforderungen - Prüfungen /** *Requirements - Tests*	**Messergebnisse – Bemerkungen/** *Measuring results - Remarks*	**Ergebnis** *Result*



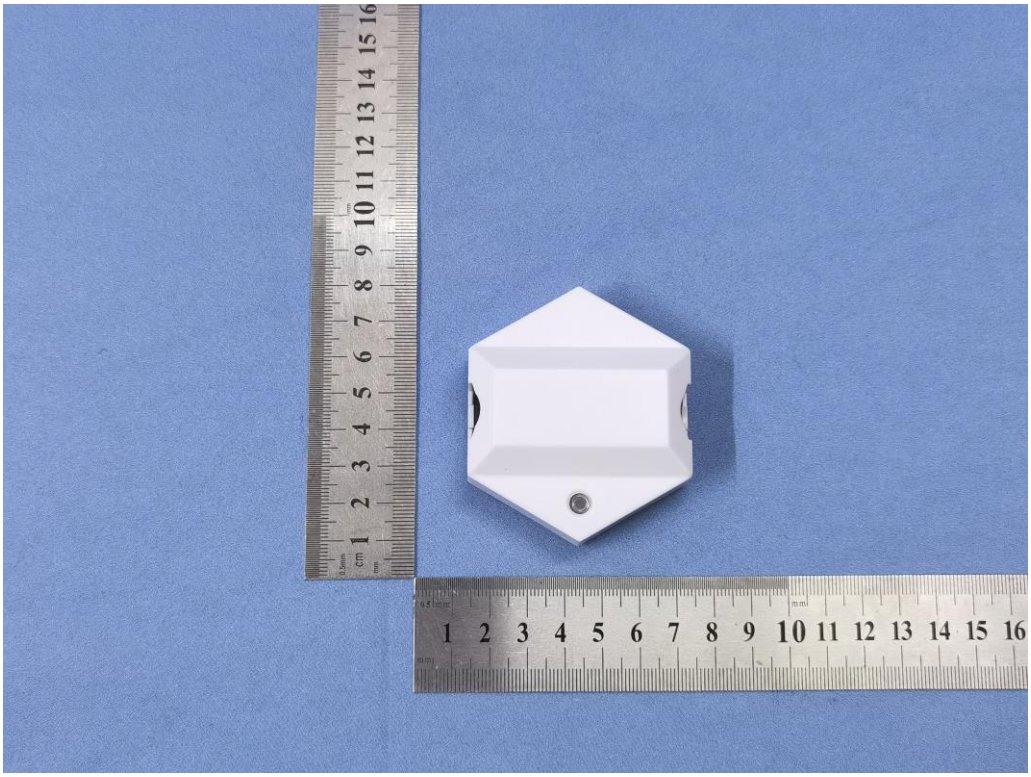
Set-up for Radiated Emission (200 MHz-1000 MHz)

Set-up for Radiated Emission (1 GHz above)

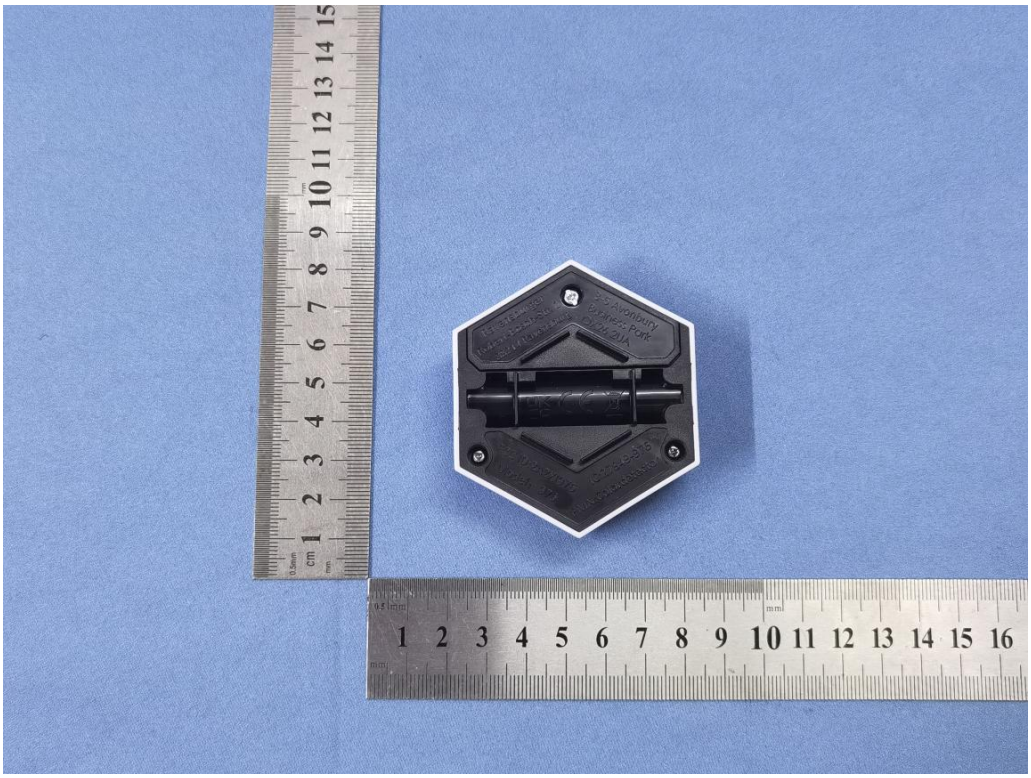
Appendix 3

EUT External Photos

FCC ID: 2A2XI976

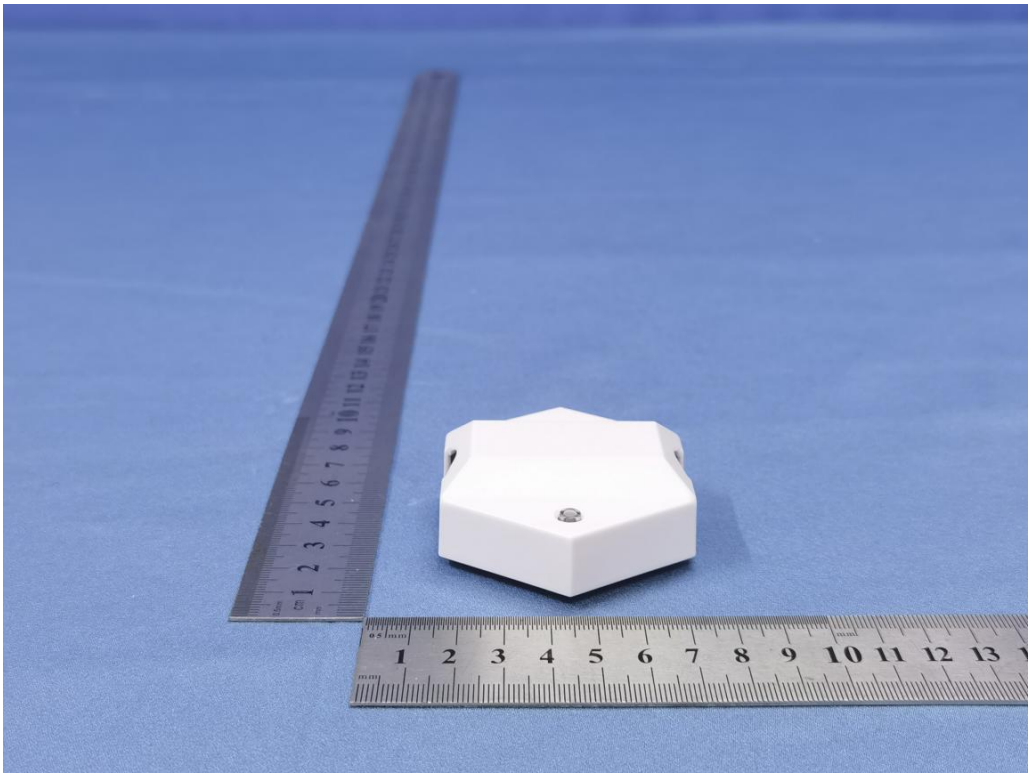


External View

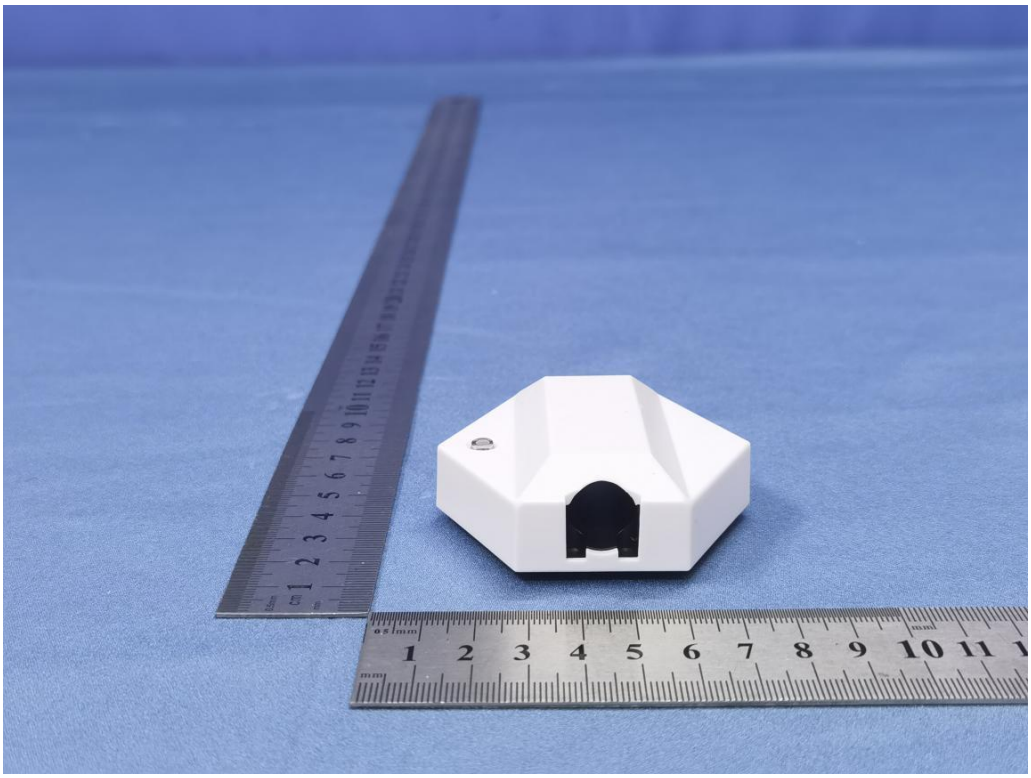


External View

Absatz *Clause*	**Anforderungen - Prüfungen /** *Requirements - Tests*	**Messergebnisse – Bemerkungen/** *Measuring results - Remarks*	**Ergebnis** *Result*

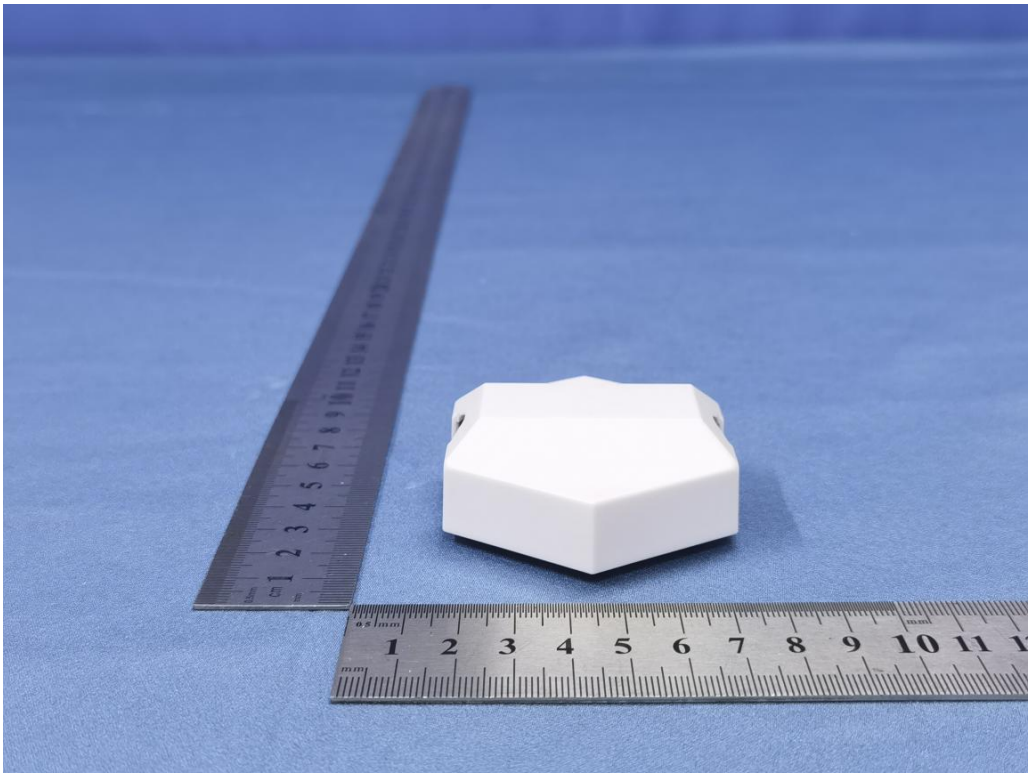


External View

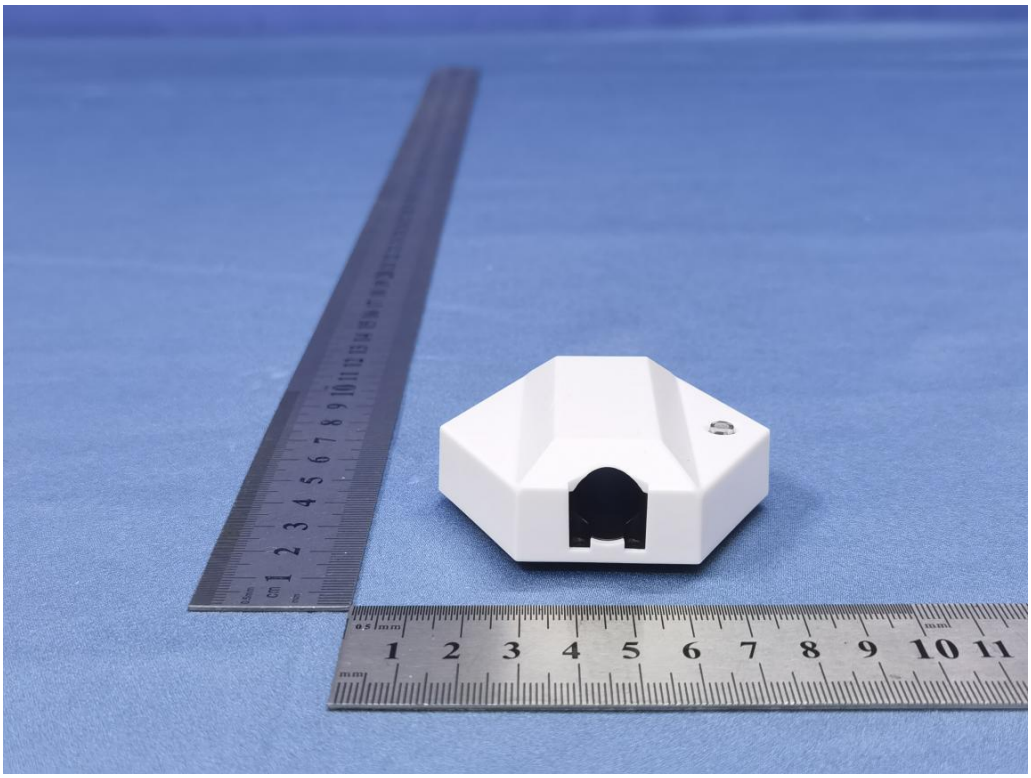


External View

Absatz *Clause*	**Anforderungen - Prüfungen /** *Requirements - Tests*	**Messergebnisse – Bemerkungen/** *Measuring results - Remarks*	**Ergebnis** *Result*



External View

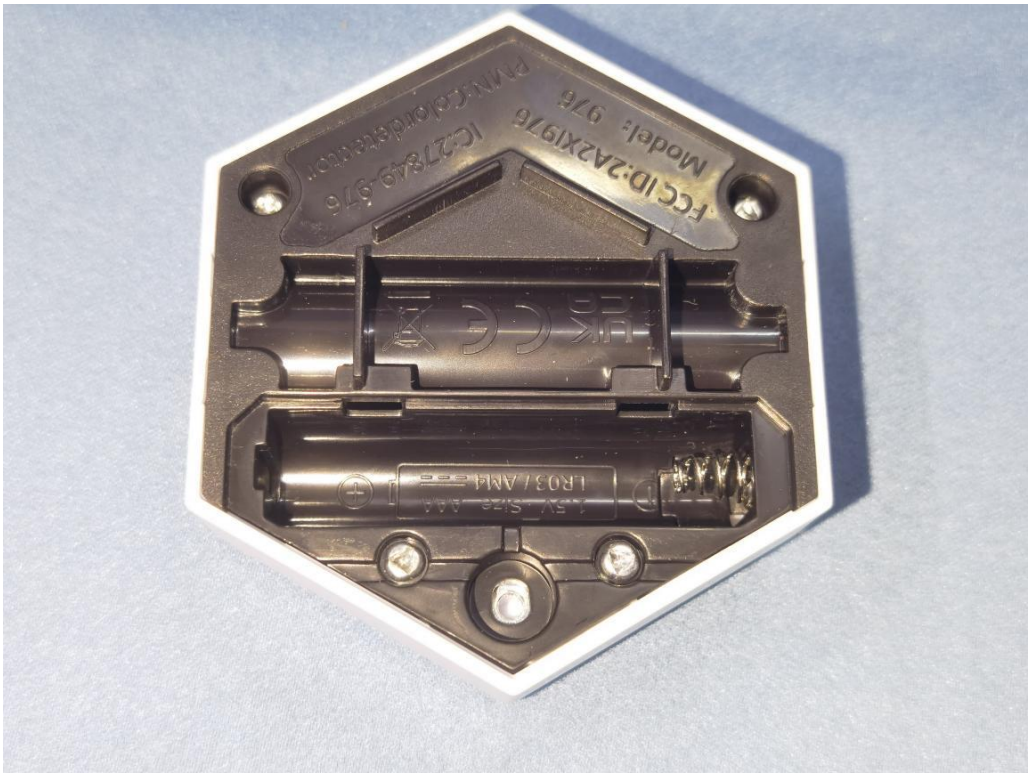


External View

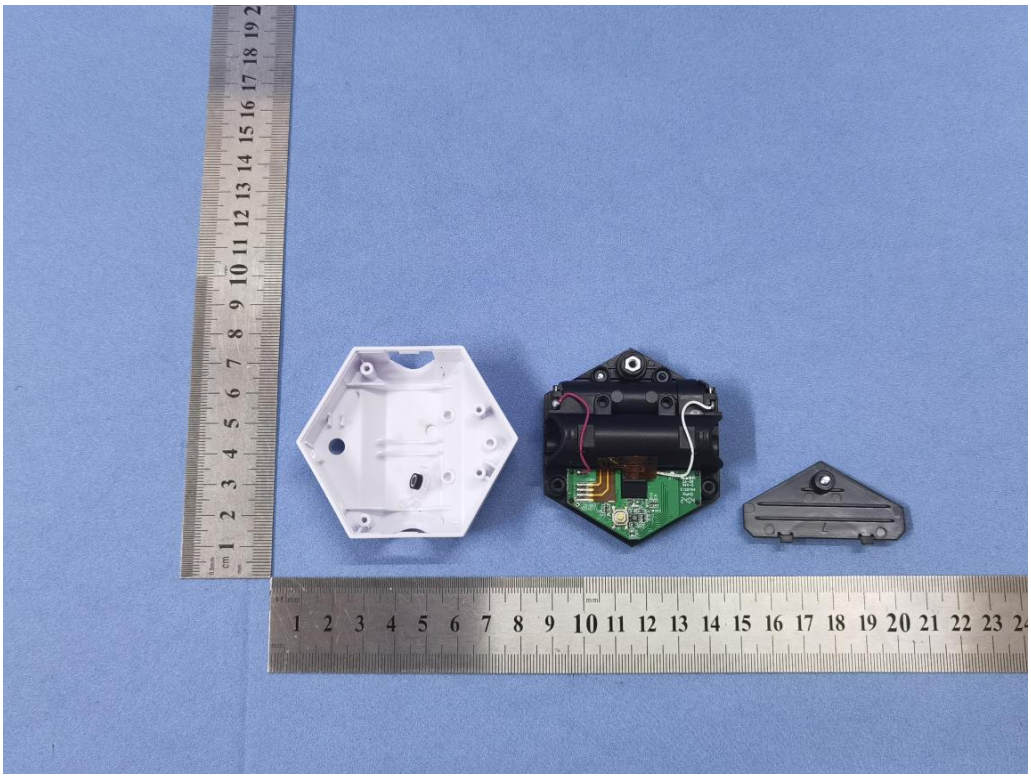
Appendix 4

EUT Internal Photos

FCC ID: 2A2XI976

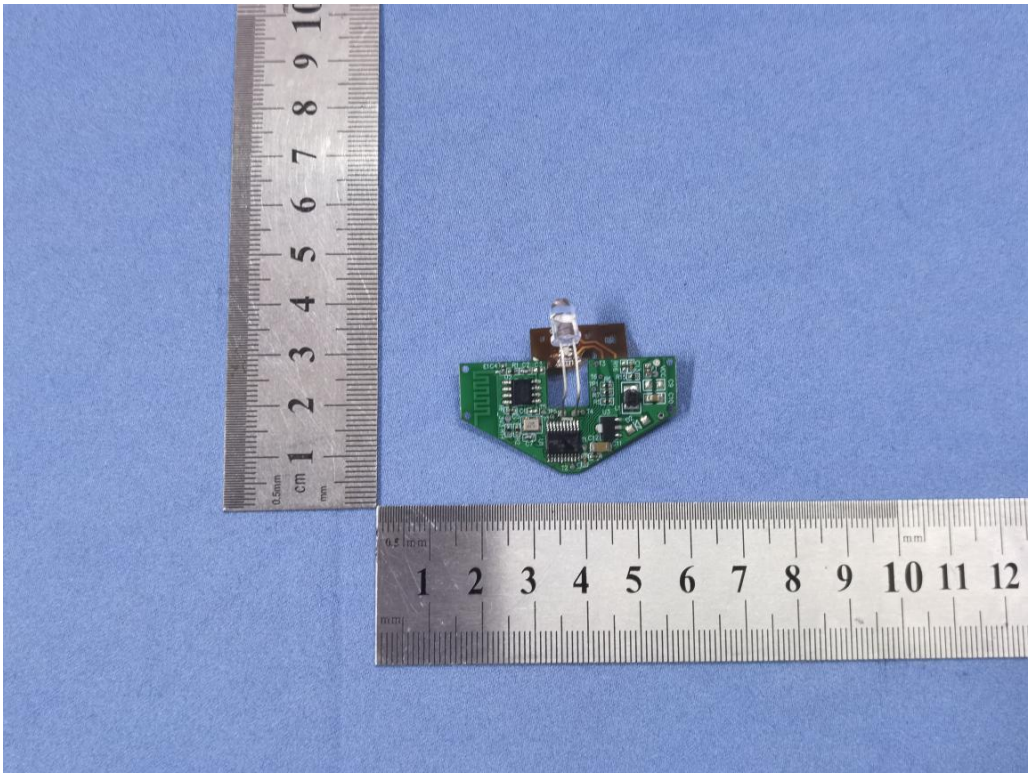


Internal View

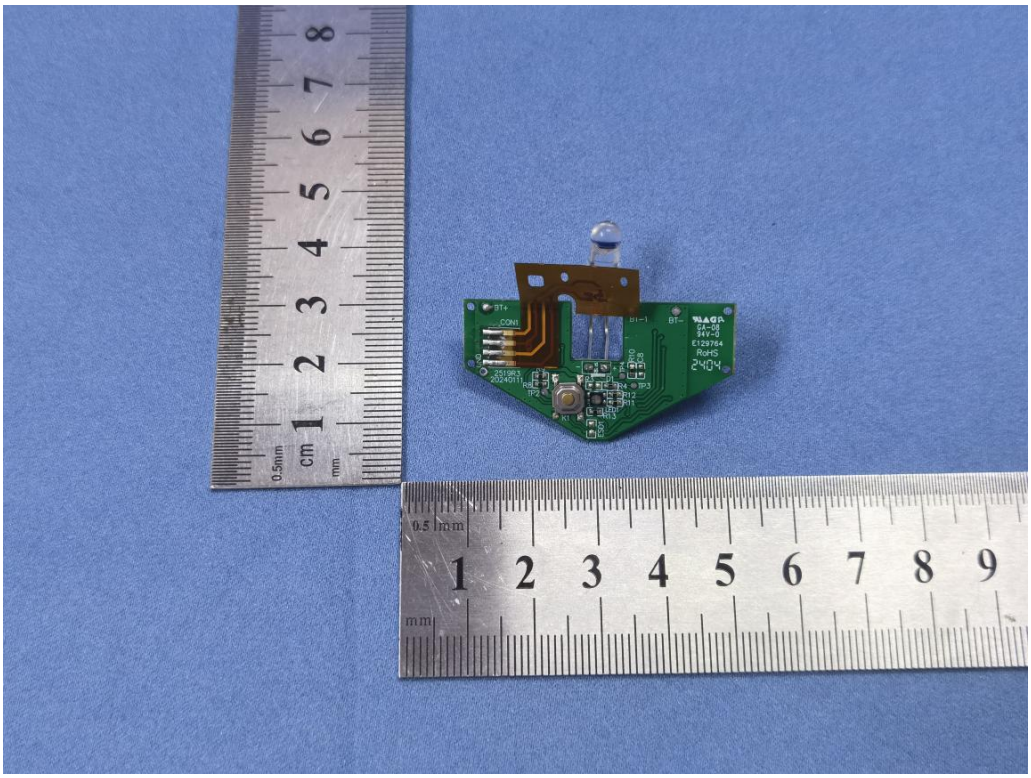


Internal View

Absatz *Clause*	**Anforderungen - Prüfungen /** *Requirements - Tests*	**Messergebnisse – Bemerkungen/** *Measuring results - Remarks*	**Ergebnis** *Result*



Internal View



Internal View

Appendix 5

RF Exposure Information

FCC ID: 2A2XI976

Absatz *Clause*	**Anforderungen - Prüfungen /** *Requirements - Tests*	**Messergebnisse – Bemerkungen/** *Measuring results - Remarks*	**Ergebnis** *Result*

Maximum Transmitter Power

Frequency (MHz)	Maximum peak field strength (dBµV/m)	Maximum transmitter power (mW)
2402	85.9	0.117
2404	86.2	0.125
2471	86.4	0.131

Note: The maximum peak field strength was taken from table of “Subclause 15.249(a) – Field Strength of Fundamental and Harmonics”.

For FCC

According to KDB 447498 D01:
The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 5 mm are determined by:

[(*max. power of channel, including tune-up tolerance, mW*) / (*min. test separation distance, mm*)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

• f(GHz) is the RF channel transmit frequency in GHz
• Power and distance are rounded to the nearest mW and mm before calculation
• The result is rounded to one decimal place for comparison
• 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

Result:

(0.117/5)*√2.402 = 0.0363 <3.0

(0.125/5)*√2.404 = 0.0388 <3.0

(0.131/5)*√2.471 = 0.0412 <3.0

Conclusion: No SAR is required.