

| <b>RADIO REPORT</b><br><b>FCC 47 CFR Part 15C</b><br><b>Digital transmission systems operating within the 2400.0 MHz - 2483.5 MHz band</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Report Reference No</b>                                                                                                                 | G0M-2112-1241-TFC247BL-V02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Testing Laboratory</b>                                                                                                                  | Eurofins Product Service GmbH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Address</b>                                                                                                                             | Storkower Str. 38c<br>15526 Reichenwalde<br>Germany                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Accreditation</b>                                                                                                                       |    <br>DAkkS - Registration number : D-PL-12092-01-03 (ISED)<br>ISED Testing Laboratory site: 3470A<br>DAkkS - Registration number : D-PL-12092-01-04 (FCC)<br>FCC Filed Test Laboratory, Reg.-No.: 96970 |
| <b>Applicant</b>                                                                                                                           | fischertechnik GmbH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Address</b>                                                                                                                             | Klaus-Fischer-Str. 1<br>72178 Waldachtal<br>Germany                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Test Specification</b>                                                                                                                  | 47 CFR Part 15C<br>RSS-247, Issue 2, 2017-02<br>RSS-Gen, Issue 5, Amendment 2, 2021-02                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Non-Standard Test Method</b>                                                                                                            | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Equipment under Test (EUT):</b>                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Product Description</b>                                                                                                                 | Roboter Chassis Early Coding for Toy and Education market                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Model(s)</b>                                                                                                                            | Roboter Chassis 183268                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Additional Model(s)</b>                                                                                                                 | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Brand Name(s)</b>                                                                                                                       | fischertechnik                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Hardware Version(s)</b>                                                                                                                 | PL-221c                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Software Version(s)</b>                                                                                                                 | 0.20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>FCC ID</b>                                                                                                                              | 2AFD4-183268                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>IC</b>                                                                                                                                  | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Test Result</b>                                                                                                                         | <b>PASSED</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------------------------------------------------------|
| <b>Possible test case verdicts:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |                                                                                       |
| Required by standard but not tested                                                                                                                                                                                                                                                                                                                                                                                                                                            | N/T                      |                                                                                       |
| Not required by standard                                                                                                                                                                                                                                                                                                                                                                                                                                                       | N/R                      |                                                                                       |
| Not applicable to EUT                                                                                                                                                                                                                                                                                                                                                                                                                                                          | N/A                      |                                                                                       |
| Test object does meet the requirement                                                                                                                                                                                                                                                                                                                                                                                                                                          | P(PASS)                  |                                                                                       |
| Test object does not meet the requirement                                                                                                                                                                                                                                                                                                                                                                                                                                      | F(FAIL)                  |                                                                                       |
| <b>Testing:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                                                                                       |
| Test Lab Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 20 °C - 30 °C            |                                                                                       |
| Test Lab Humidity                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 25 % - 55 %              |                                                                                       |
| Date of receipt of test item                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2022-03-04               |                                                                                       |
| <b>Report:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                          |                                                                                       |
| Compiled by                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Burkhard Pudell          |                                                                                       |
| Tested by (+ signature)<br>(Responsible for Test)                                                                                                                                                                                                                                                                                                                                                                                                                              | Burkhard Pudell          |   |
| Approved by (+ signature)<br>(Radio Team Leader)                                                                                                                                                                                                                                                                                                                                                                                                                               | Dr.-Ing. Dhamia Almozani |  |
| Approved by (+ signature)<br>(Test Lab Engineer)                                                                                                                                                                                                                                                                                                                                                                                                                               | Wilfried Treffke         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                                                                                       |
| Date of Issue                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2022-12-12               |                                                                                       |
| Total number of pages                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 41                       |                                                                                       |
| <b>General Remarks:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                          |                                                                                       |
| <p>The test results presented in this report relate only to the object tested.</p> <p>The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.</p> <p>This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.</p> |                          |                                                                                       |
| <b>Additional Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                          |                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                                                                                       |

## VERSION HISTORY

| Version History |            |                                                                                                                                                                                                                                                                            |            |
|-----------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Version         | Issue Date | Remarks                                                                                                                                                                                                                                                                    | Revised By |
| 01              | 2022-10-18 | Initial Release                                                                                                                                                                                                                                                            |            |
| 02              | 2022-12-12 | <p>Replaced document: G0M-2112-1241-TFC247BL-V01<br/>Replaced by: G0M-2112-1241-TFC247BL -V02</p> <p>Reason: Add. FCC-ID: 2AFD4-183268 and<br/>FCC-ID Radio Module SQGBL651 at page 6.</p> <p>Add. FCC Module Report Information to<br/>test mode/ comment at page 12.</p> | B. Pudell  |

## ABBREVIATIONS AND ACRONYMS

| Acronyms         |                                                     |
|------------------|-----------------------------------------------------|
| Acronym          | Description                                         |
| EUT              | Equipment Under Test                                |
| FCC              | Federal Communications Commission                   |
| ISED             | Innovation, Science and Economic Development Canada |
| RBW              | Resolution bandwidth                                |
| RMS              | Root mean square                                    |
| VBW              | Video bandwidth                                     |
| V <sub>NOM</sub> | Nominal supply voltage                              |

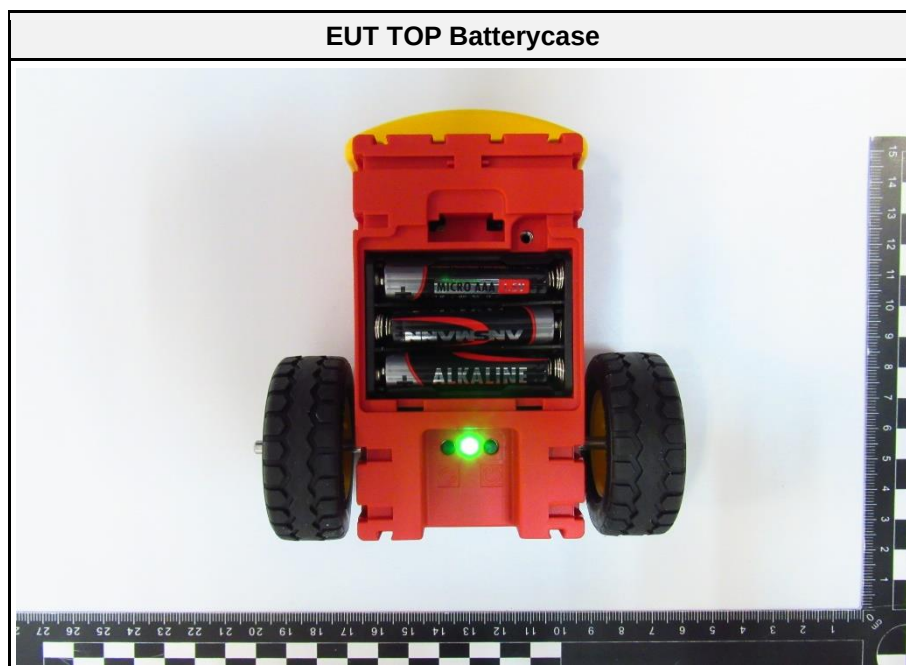
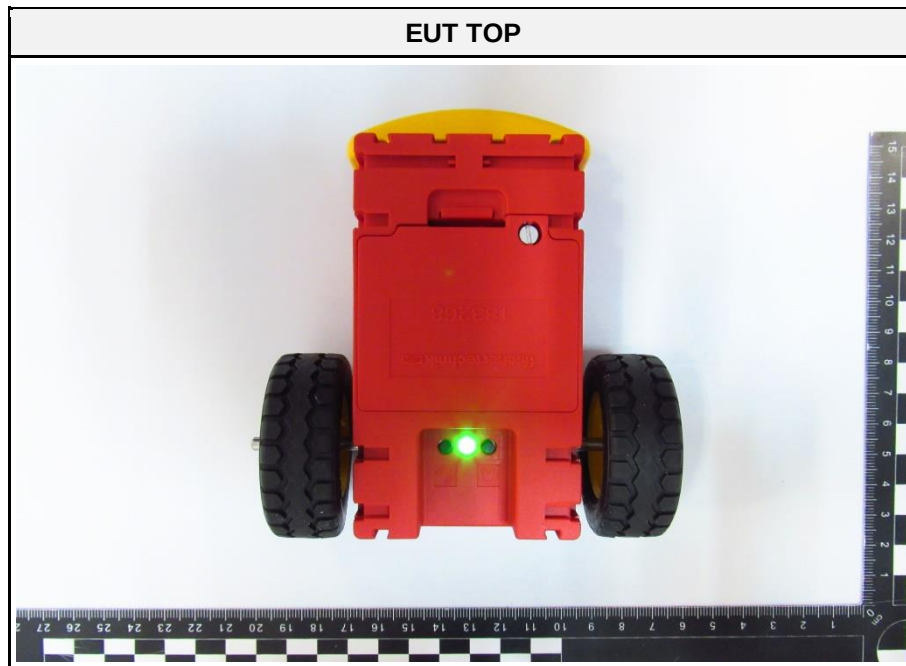
## REPORT INDEX

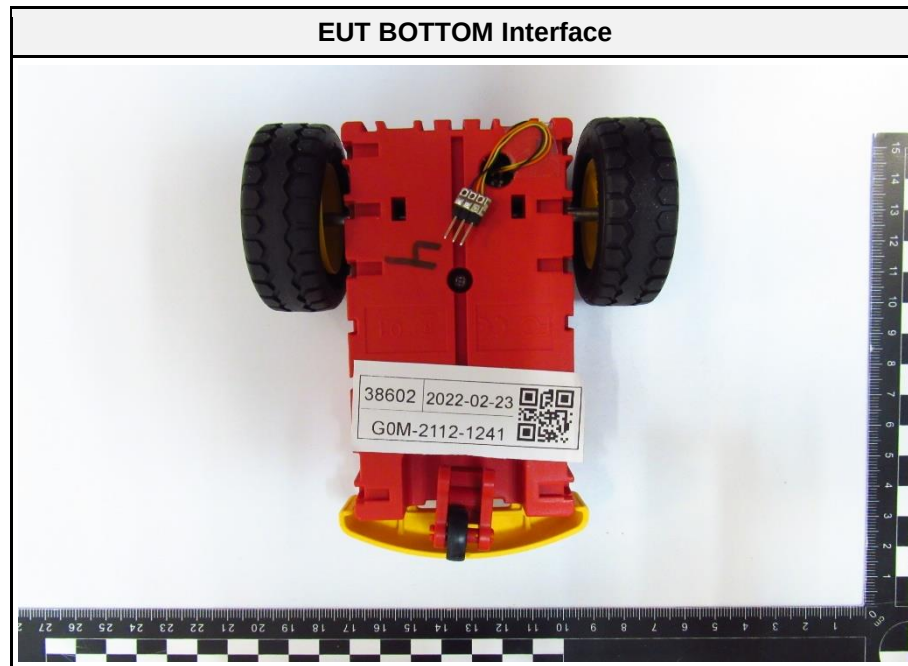
|          |                                                                    |           |
|----------|--------------------------------------------------------------------|-----------|
| <b>1</b> | <b>Equipment (Test Item) Under Test.....</b>                       | <b>6</b>  |
| 1.1      | Photos – Equipment External .....                                  | 7         |
| 1.2      | Photos – Equipment Internal .....                                  | 10        |
| 1.3      | Support Equipment.....                                             | 12        |
| 1.4      | Test Modes .....                                                   | 12        |
| 1.5      | Test Frequencies.....                                              | 12        |
| 1.6      | Sample emission level calculation.....                             | 13        |
| <b>2</b> | <b>Result Summary.....</b>                                         | <b>14</b> |
| <b>3</b> | <b>Test Conditions and Results.....</b>                            | <b>15</b> |
| 3.1      | Test Conditions and Results - Transmitter radiated emissions ..... | 15        |
| ANNEX A  | Transmitter spurious emissions .....                               | 22        |

## 1 Equipment (Test Item) Under Test

|                          |                                                                                                            |                                    |
|--------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------|
| Description              | Roboter Chassis Early Coding for Toy and Education market                                                  |                                    |
| Model                    | Roboter Chassis 183268                                                                                     |                                    |
| Additional Model(s)      | None                                                                                                       |                                    |
| Brand Name(s)            | fischertechnik                                                                                             |                                    |
| Serial Number(s)         | 183268 (SID: 38602)                                                                                        |                                    |
| Hardware Version(s)      | PL-221c                                                                                                    |                                    |
| Software Version(s)      | 0.20                                                                                                       |                                    |
| PMN                      | none                                                                                                       |                                    |
| HVIN                     | none                                                                                                       |                                    |
| FVIN                     | none                                                                                                       |                                    |
| HMN                      | none                                                                                                       |                                    |
| FCC ID                   | 2AFD4-183268                                                                                               |                                    |
| IC                       | N/A                                                                                                        |                                    |
| Equipment type           | End Product                                                                                                |                                    |
| Radio type               | Transceiver                                                                                                |                                    |
| Assigned frequency bands | 2400 - 2483.5 MHz                                                                                          |                                    |
| Radio technology         | Bluetooth LE 5.0                                                                                           |                                    |
| Bluetooth Specification  | LE 1M PHY                                                                                                  | Yes                                |
|                          | LE 2M PHY                                                                                                  | No                                 |
|                          | LE Coded PHY S=2 (500 kbit)                                                                                | No                                 |
|                          | LE Coded PHY S=8 (125 kbit)                                                                                | No                                 |
|                          | Stable Modulation Index - Transmitter                                                                      | No                                 |
|                          | Stable Modulation Index - Receiver                                                                         | No                                 |
| Modulation               | GFSK                                                                                                       |                                    |
| Number of antenna ports  | 1                                                                                                          |                                    |
| Radio Module             | Type                                                                                                       | WiFi/ Bluetooth module             |
|                          | Model                                                                                                      | 453-00005 / Chip: nRF52810         |
|                          | Manufacturer                                                                                               | Laird / Chip: Nordic Semiconductor |
|                          | HW Version                                                                                                 | none                               |
|                          | SW Version                                                                                                 | none                               |
|                          | FCC-ID                                                                                                     | SQGBL651                           |
|                          | IC                                                                                                         | None                               |
| Antenna                  | Type                                                                                                       | Printed PCB antenna                |
|                          | Model                                                                                                      | Laird dipol                        |
|                          | Manufacturer                                                                                               | Laird                              |
|                          | Gain                                                                                                       | max 2.0 dBi                        |
| Supply Voltage           | V <sub>NOM</sub>                                                                                           | 4.5 V DC (3x AAA Battery)          |
| Operating Temperature    | T <sub>NOM</sub>                                                                                           | 20 °C                              |
| AC/DC-Adaptor            | Model                                                                                                      | none                               |
|                          | Vendor                                                                                                     | none                               |
|                          | Input                                                                                                      | none                               |
|                          | Output                                                                                                     | none                               |
| Manufacturer             | Knobloch Elektronik- Produktions- und Vertriebs GmbH<br>Selitstraße 10<br>55234 Erbes-Büdesheim<br>GERMANY |                                    |

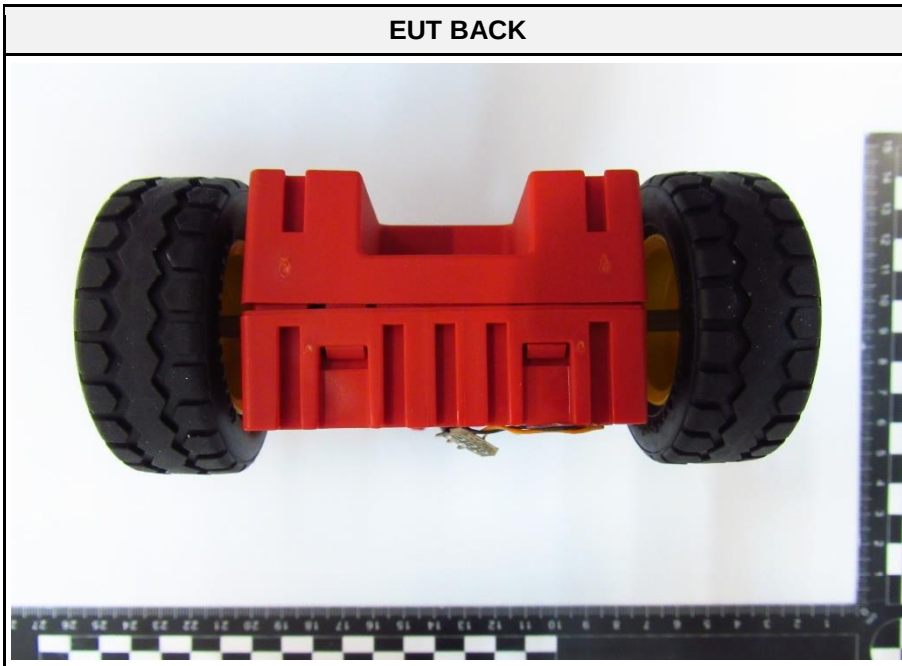
## 1.1 Photos – Equipment External



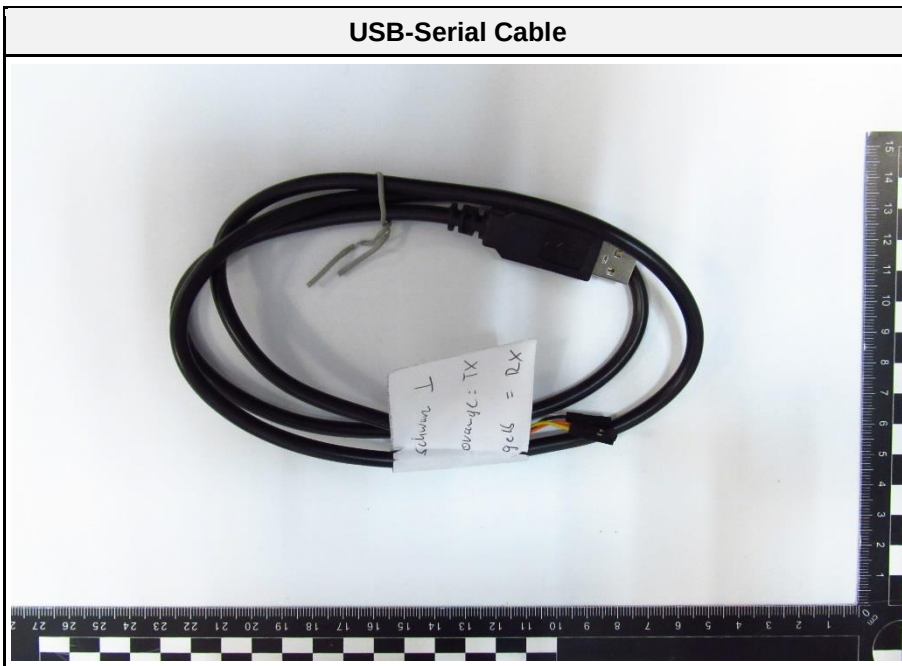




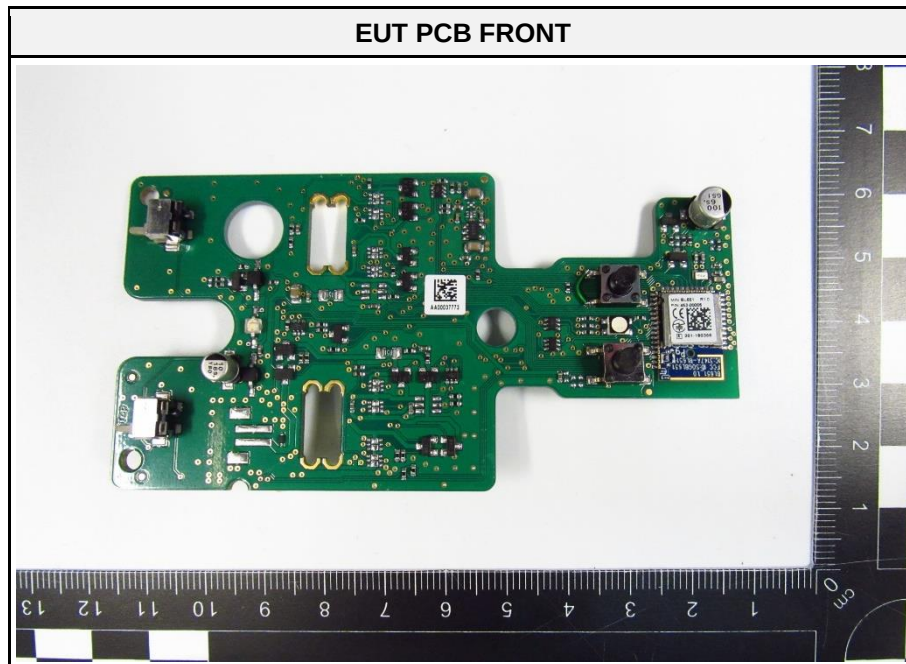
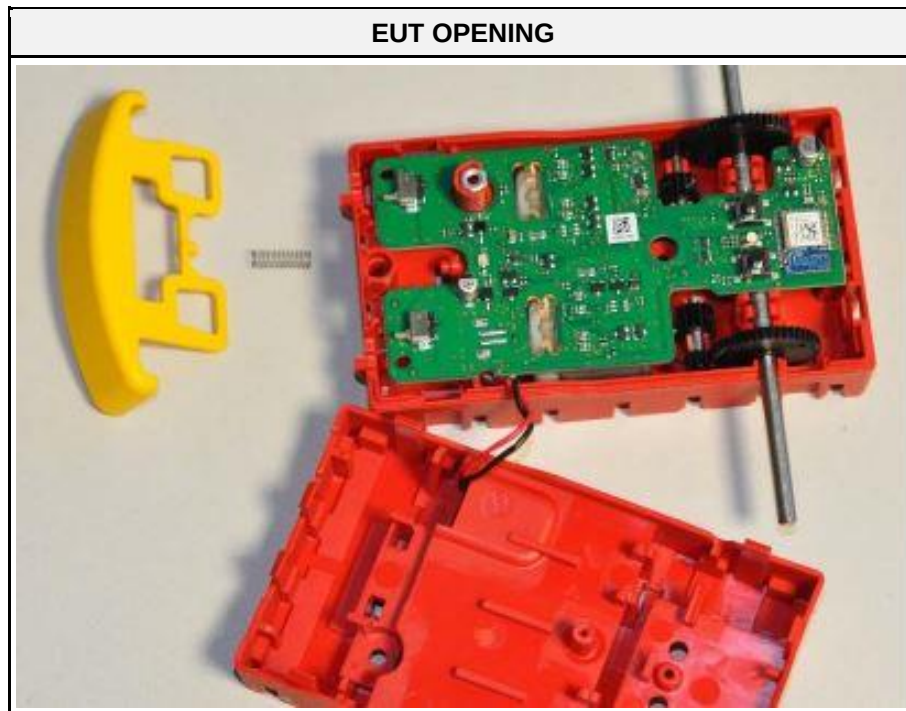
EUT BACK



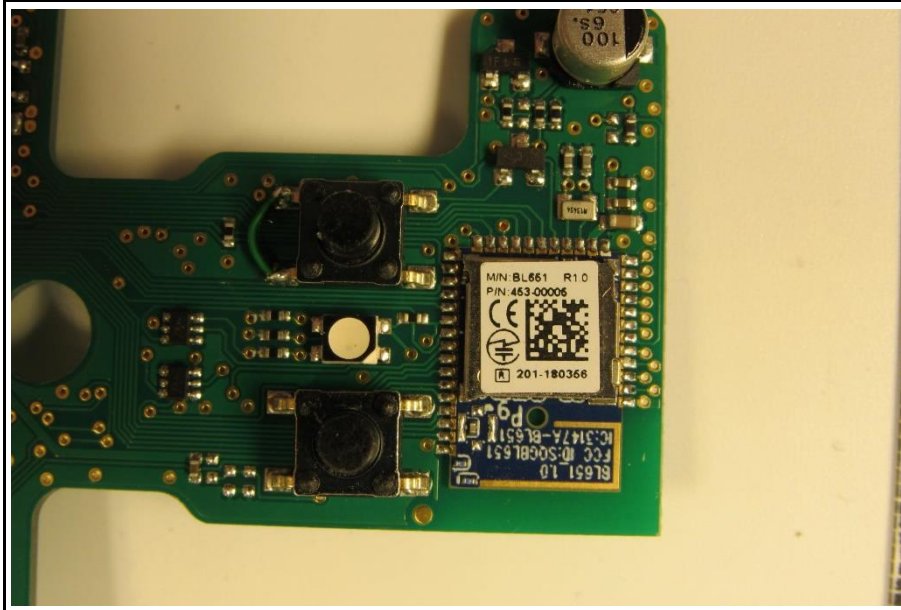
USB-Serial Cable



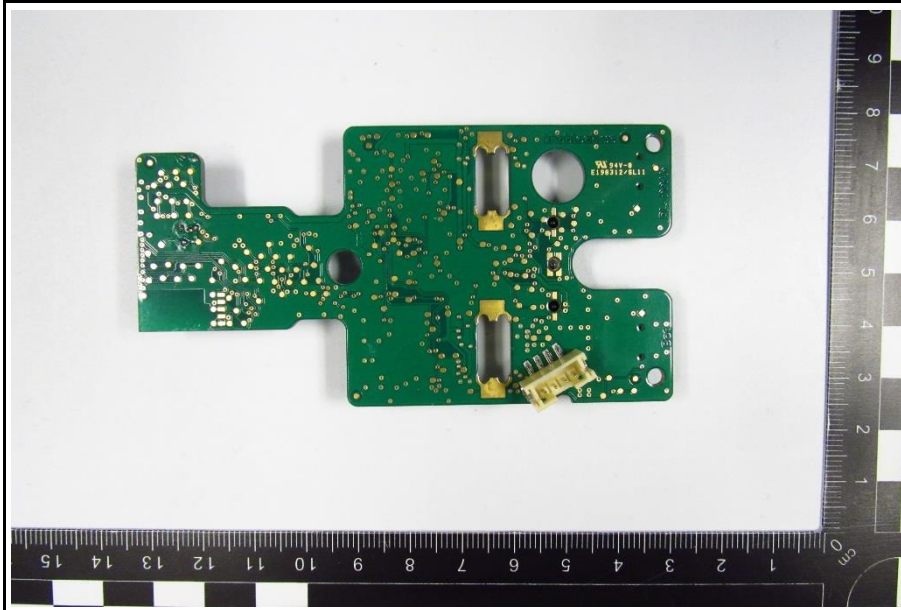
## 1.2 Photos – Equipment Internal



EUT BT-Module



EUT PCB BACK



### 1.3 Support Equipment

| Product Type | Device              | Manufacturer | Model  | Comment      |
|--------------|---------------------|--------------|--------|--------------|
| SIM          | Laptop              | Lenovo       | L460   | Control unit |
| CBL          | USB Adapter         | none         | none   | USB - Serial |
| SFT          | Remote Control      | Putty v0.76  | Lenovo | Control tool |
| Description: |                     |              |        |              |
| AE           | Auxiliary Equipment |              |        |              |
| SIM          | Simulator           |              |        |              |
| CBL          | Connecting Cable    |              |        |              |
| SFT          | Software            |              |        |              |
| Comment:     |                     |              |        |              |

### 1.4 Test Modes

| Mode                                                                                                                                                                                                                                                                                                                                                                         | Description                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| GFSK                                                                                                                                                                                                                                                                                                                                                                         | Mode = Transmit<br>Modulation = GFSK<br>Packet type = LE 1M PHY<br>Payload = 37 byte<br>Duty cycle = 64%<br>Power setting = 4 dBm |
| Receive                                                                                                                                                                                                                                                                                                                                                                      | Mode = Receive                                                                                                                    |
| Comment: The above settings were found as worst case during pre-tests. / The above settings are found as worst case during evaluation of the original modular test report FCC [FR852803AE Rev.01], issued on [2018.Jun.] by [International Certification Corp. – TAF Lab. 2732] and. Conducted peak/average output power was evaluated to determine the worst case settings. |                                                                                                                                   |

### 1.5 Test Frequencies

| Designator | Mode    | Channel | Frequency [MHz] |
|------------|---------|---------|-----------------|
| F1         | Tx / Rx | 0       | 2402            |
| F2         | Tx / Rx | 19      | 2440            |
| F3         | Tx / Rx | 39      | 2480            |

## 1.6 Sample emission level calculation

The following is a description of terms and a sample calculation, as appears in the radiated emissions data table. The numbers used in the calculation are for example only. There is no direct correlation to the specific data taken for the product described in this document:

Reading:

This is the reading obtained on the spectrum analyzer in dBμV. Any external preamplifiers used are taken into account through internal analyzer settings.

A.F.:

This is the antenna factor for the receiving antenna. It is a conversion factor, which converts electric fields strengths to voltages, which can be measured directly on the spectrum analyzer. It is treated as a loss in dB. Cable losses have been included with the A.F. to simplify the calculations. The antenna factor is used in calculations as follows:

$$\text{Reading on Analyzer (dB}\mu\text{V)} + \text{A.F. (dB/m)} = \text{Net field strength (dB}\mu\text{V/m)}$$

Net:

This is the net field strength measurement (as shown above).

Limit:

This is the FCC Class B radiated emission limit (in units of dBμV/m). The FCC limits are given in units of μV/m. The following formula is used to convert the units of μV/m to dBμV/m:

$$\text{Limit (dB}\mu\text{V/m)} = 20 \cdot \log(\mu\text{V/m})$$

Margin:

This is the margin of compliance below the FCC limit. The units are given in dB. A negative margin indicates the emission was below the limit. A positive margin indicates that the emission exceeds the limit.

Example only:

|                      |               |   |                           |           |
|----------------------|---------------|---|---------------------------|-----------|
| Reading + AF         | = Net Reading | : | Net reading - FCC limit   | = Margin  |
| +21.5 dBμV + 26 dB/m | = 47.5 dBμV/m | : | 47.5 dBμV/m - 57.0 dBμV/m | = -9.5 dB |

## 2 Result Summary

| FCC 47 CFR Part 15C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                         |                  |        |                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------|--------|-----------------------|
| Product Standard Reference                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Requirement                             | Reference Method | Result | Remarks               |
| ISED RSS-Gen, Issue 5 A2 (section 6.7)                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Occupied Bandwidth                      | ANSI C63.10-2013 | N/R    |                       |
| FCC § 15.247(a)(2)<br>ISED RSS-247, Issue 2 (section 5.2)                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6 dB Bandwidth                          | ANSI C63.10-2013 | N/T    |                       |
| FCC § 15.247(b)<br>ISED RSS-247, Issue 2 (section 5.4)                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Maximum peak conducted power            | ANSI C63.10-2013 | N/T    |                       |
| FCC § 15.247(e)<br>ISED RSS-247, Issue 2 (section 5.2)                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Power spectral density                  | ANSI C63.10-2013 | N/T    |                       |
| FCC § 15.207<br>ISED RSS-247, Issue 2 (section 3.1)                                                                                                                                                                                                                                                                                                                                                                                                                                                             | AC power line conducted emissions       | ANSI C63.10-2013 | N/R    | Battery supplied only |
| FCC § 15.247(d)<br>ISED RSS-247, Issue 2 (section 5.5)                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Band edge compliance                    | ANSI C63.10-2013 | N/T    |                       |
| FCC § 15.247(d)<br>ISED RSS-247, Issue 2 (section 5.5)                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Conducted spurious emissions            | ANSI C63.10-2013 | N/T    |                       |
| FCC § 15.247(d)<br>FCC § 15.209<br>ISED RSS-Gen, Issue 5 A2 (section 6.13)                                                                                                                                                                                                                                                                                                                                                                                                                                      | Transmitter radiated spurious emissions | ANSI C63.10-2013 | PASS   |                       |
| ISED RSS-247, Issue 2 (section 3.1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Receiver radiated spurious emissions    | ANSI C63.4-2014  | N/R    |                       |
| <p>Comment: The Decision Rule is applied on the basis of ETSI TR 102 273 and ETSI TR 100 028. These standards provide guidance on how to calculate and apply measurement uncertainty whilst providing maximum uncertainties allowance. In all cases due consideration will be given to ILAC-G8:09/2019. Where a result is considered conditional in respect of its proximity to the limit line, the customer would be made aware of situation so that they can make an informed decision on how to proceed.</p> |                                         |                  |        |                       |

| Possible Test Case Verdicts |                                              |
|-----------------------------|----------------------------------------------|
| PASS                        | Test object does meet the requirements       |
| FAIL                        | Test object does not meet the requirements   |
| N/T                         | Required by standard but not tested          |
| N/R                         | Not required by standard for the test object |



### 3 Test Conditions and Results

#### 3.1 Test Conditions and Results - Transmitter radiated emissions

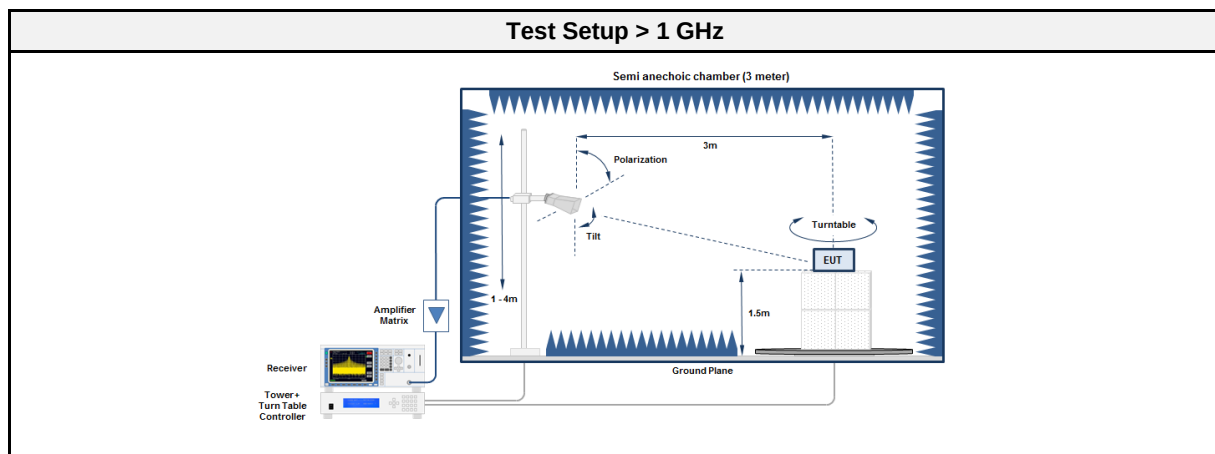
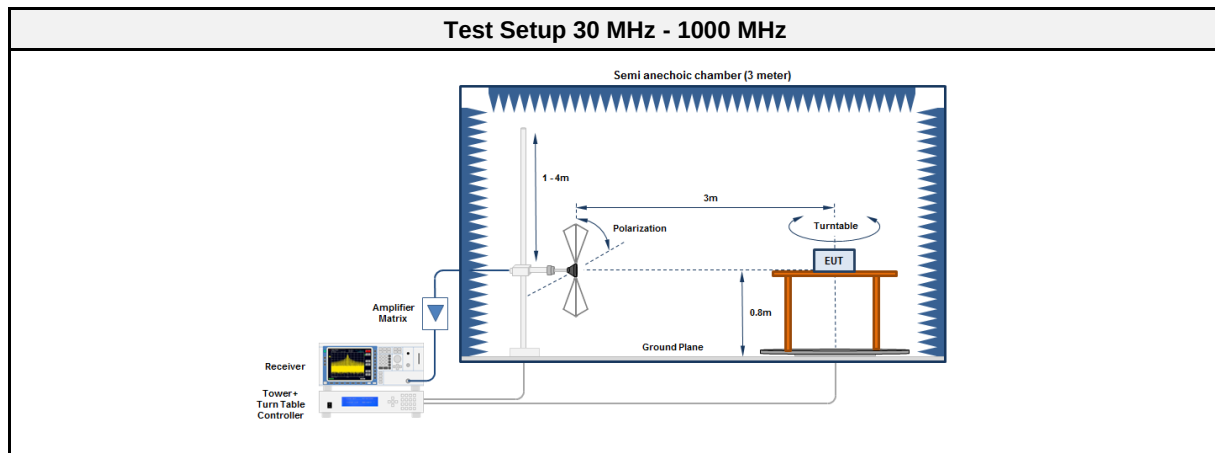
##### 3.1.1 Information

| Test Information        |                                  |
|-------------------------|----------------------------------|
| Reference               | FCC § 15.247(d); FCC § 15.209    |
| Measurement Uncertainty | ± 5.95 dB                        |
| Measurement Method      | ANSI C63.10 6.4, 6.5, 6.6, 11.12 |
| Operator                | Burkhard Pudell                  |
| Date                    | 2022-03-07                       |

##### 3.1.2 Limits

| Limits                   |            |                          |                             |
|--------------------------|------------|--------------------------|-----------------------------|
| Frequency range<br>[MHz] | Detector   | Field strength<br>[μV/m] | Measurement distance<br>[m] |
| 0.009 - 0.09             | Average    | 2400/F[kHz]              | 300                         |
| 0.09 - 0.110             | Quasi-Peak | 2400/F[kHz]              | 300                         |
| 0.110 - 0.490            | Average    | 2400/F[kHz]              | 300                         |
| 0.490 - 1.705            | Quasi-Peak | 24000/F[kHz]             | 30                          |
| 1.705 - 30.0             | Quasi-Peak | 30                       | 30                          |
| 30 - 88                  | Quasi-Peak | 100                      | 3                           |
| 88 - 216                 | Quasi-Peak | 150                      | 3                           |
| 216 - 960                | Quasi-Peak | 200                      | 3                           |
| 960 - 1000               | Quasi-Peak | 500                      | 3                           |
| >1000                    | Average    | 500                      | 3                           |

### 3.1.3 Setup



### 3.1.4 Equipment

| Test Software |                  |            |          |
|---------------|------------------|------------|----------|
| Description   | Manufacturer     | Name       | Version  |
| EMC Software  | DARE Instruments | RadiMation | 2020.1.8 |

| Test Equipment 30 MHz - 1000 MHz |              |                |            |           |          |
|----------------------------------|--------------|----------------|------------|-----------|----------|
| Description                      | Manufacturer | Model          | Identifier | Cal. Date | Cal. Due |
| Anechoic Chamber                 | Frankonia    | AC1            | EF00062    | 2021-02   | 2024-02  |
| Measurement Receiver             | Agilent      | N9038A-526/WXP | EF01070    | 2021-07   | 2022-07  |
| Antenna                          | R&S          | HK 116         | EF00030    | 2021-05   | 2024-05  |
| Antenna                          | R&S          | HL 223         | EF00187    | 2019-05   | 2022-05  |

| Test Equipment > 1 GHz |                    |                |            |           |          |
|------------------------|--------------------|----------------|------------|-----------|----------|
| Description            | Manufacturer       | Model          | Identifier | Cal. Date | Cal. Due |
| Anechoic Chamber       | Frankonia          | AC1            | EF00062    | 2021-02   | 2024-02  |
| Measurement Receiver   | Agilent            | N9038A-526/WXP | EF01070    | 2021-07   | 2022-07  |
| Antenna                | Schwarzbeck        | BBHA 9120D     | EF00018    | 2019-10   | 2022-10  |
| Antenna                | Schwarzbeck        | HWRD 650       | EF01679    | 2021-03   | 2022-03  |
| Antenna                | Amplifier Research | AT4560         | EF00302    | 2021-06   | 2023-06  |

Test Report No.: G0M-2112-1241-TFC247BL-V02

Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany



### 3.1.5 Procedure

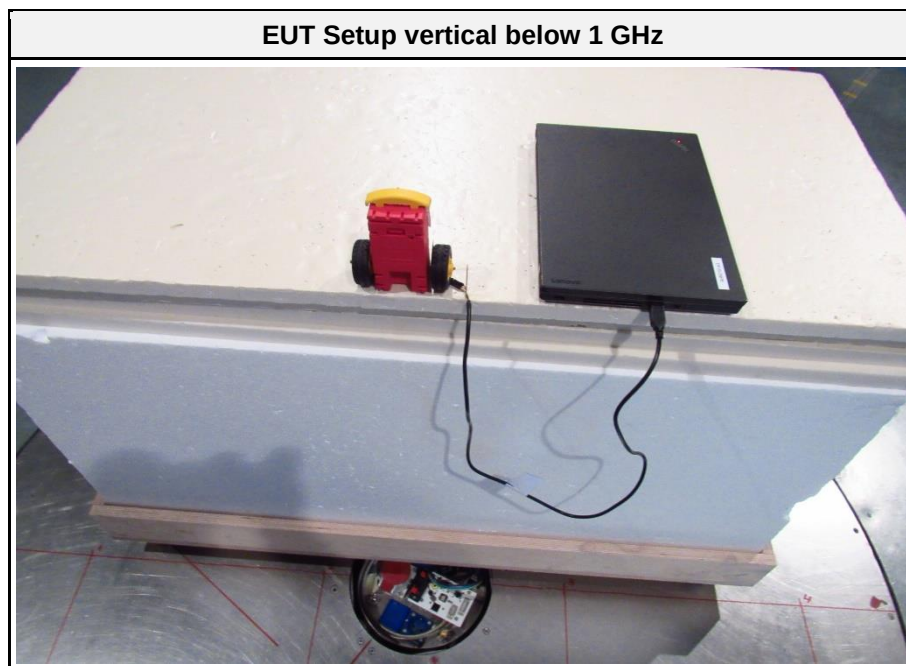
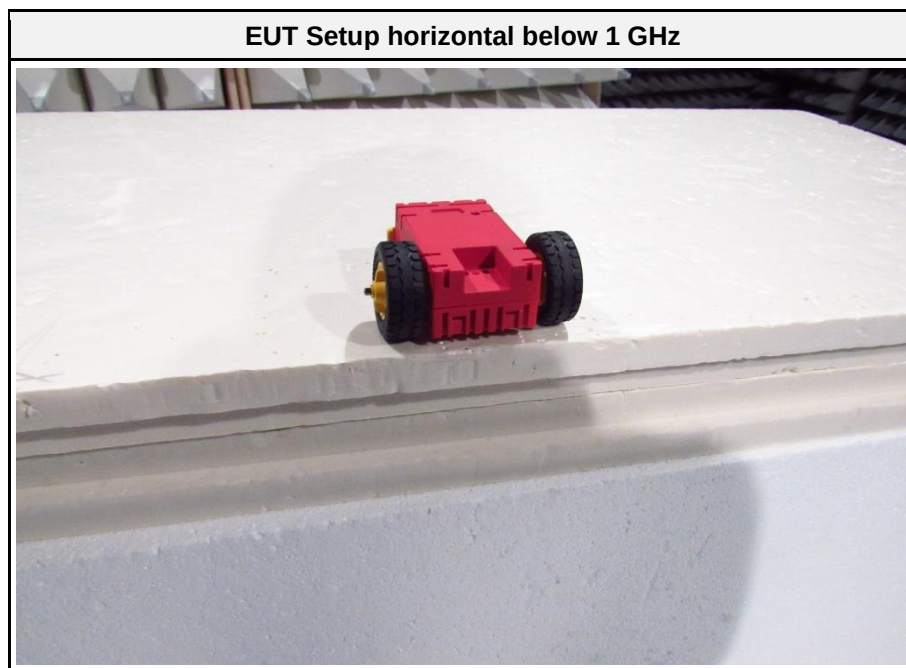
| Test Procedure 30 MHz - 1000 MHz |                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------|
| 1.                               | EUT is placed on a non conducting support at the center of a turn table 0.8 m above the ground |
| 2.                               | EUT set to test mode                                                                           |
| 3.                               | The receiver is set to peak detection with max hold                                            |
| 4.                               | The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m        |
| 5.                               | All significant emissions are measured again using the corresponding final detector            |

| Test Procedure > 1 GHz |                                                                                                |
|------------------------|------------------------------------------------------------------------------------------------|
| 1.                     | EUT is placed on a non conducting support at the center of a turn table 1.5 m above the ground |
| 2.                     | EUT set to test mode                                                                           |
| 3.                     | The receiver is set to peak detection with max hold                                            |
| 4.                     | The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m        |
| 5.                     | All significant emissions are measured again using the corresponding final detector            |

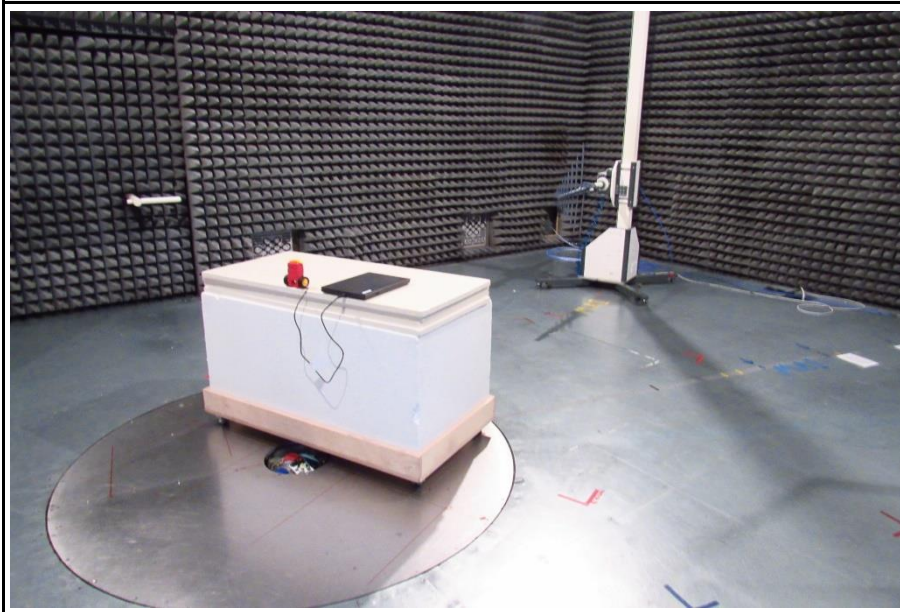
### 3.1.6 Results

| Test Results  |                |                |      |      |                |             |
|---------------|----------------|----------------|------|------|----------------|-------------|
| Channel [MHz] | Emission [MHz] | Level [dBμV/m] | Det. | Pol. | Limit [dBμV/m] | Margin [dB] |
| 2402          | 168.0188       | 32.30          | pk   | ver  | 43.50          | -11.24      |
| 2402          | 4803.3         | 45.89          | avg  | ver  | 54.00          | -08.11      |
| 2402          | 4803.6         | 45.37          | avg  | ver  | 54.00          | -08.63      |
| 2402          | 4803.7         | 50.27          | avg  | ver  | 54.00          | -03.73      |
| 2440          | 168.0273       | 32.20          | pk   | ver  | 43.50          | -11.31      |
| 2440          | 4879.6         | 44.72          | avg  | ver  | 54.00          | -09.28      |
| 2440          | 4879.6         | 45.61          | avg  | ver  | 54.00          | -08.39      |
| 2440          | 4880.5         | 46.86          | avg  | ver  | 54.00          | -07.14      |
| 2480          | 167.9975       | 31.90          | pk   | ver  | 43.50          | -11.61      |
| 2480          | 4959           | 42.36          | avg  | ver  | 54.00          | -11.64      |
| 2480          | 4959           | 42.36          | avg  | ver  | 54.00          | -11.64      |
| 2480          | 4960           | 48.14          | avg  | ver  | 54.00          | -05.86      |

### 3.1.7 Setup Photos



Setup for TX measurement below 1 GHz

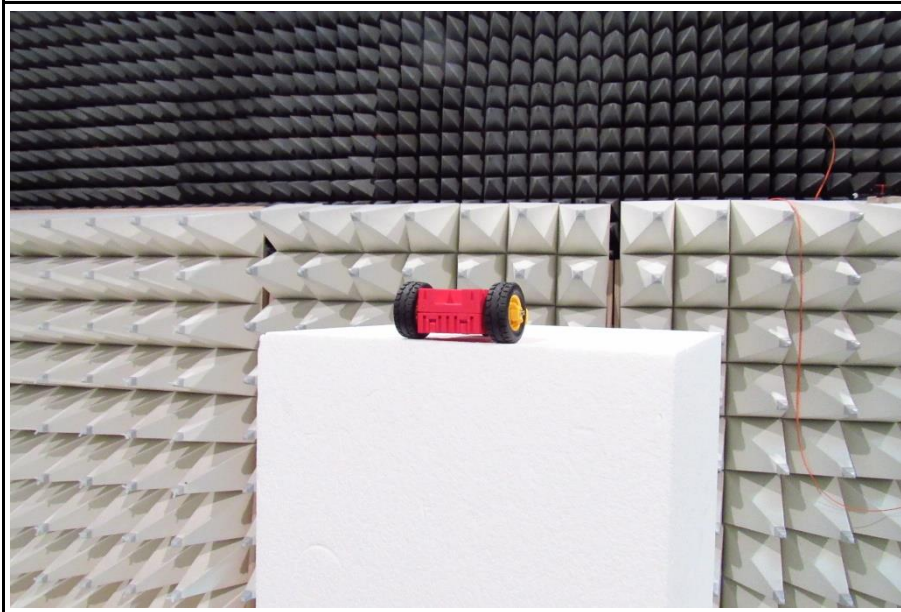


Setup for TX measurement below 1 GHz

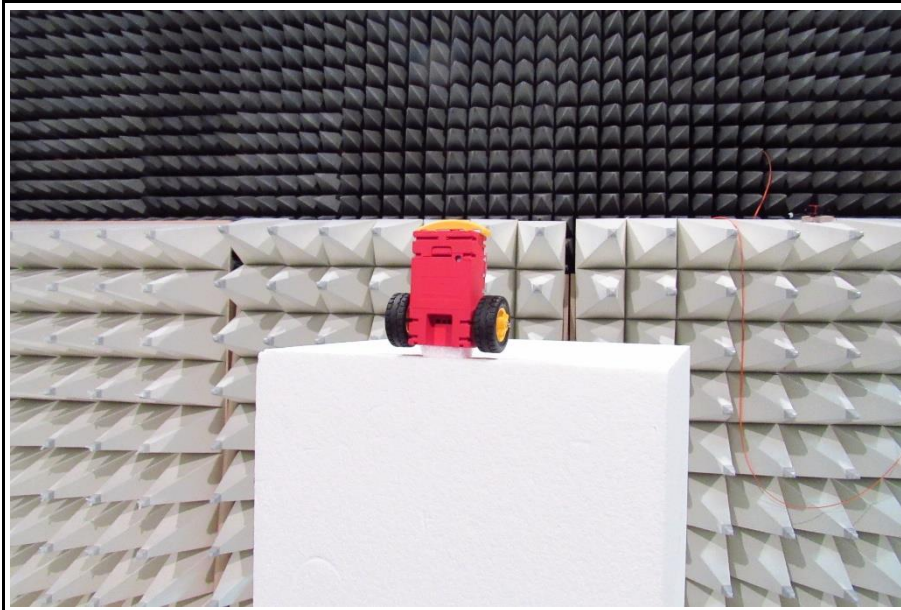




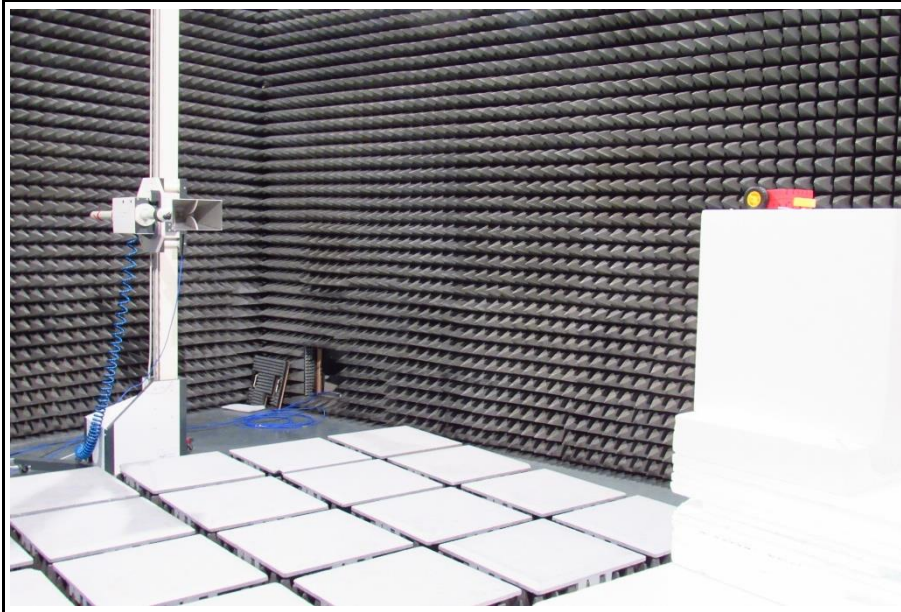
**EUT Setup horizontal above 1 GHz**



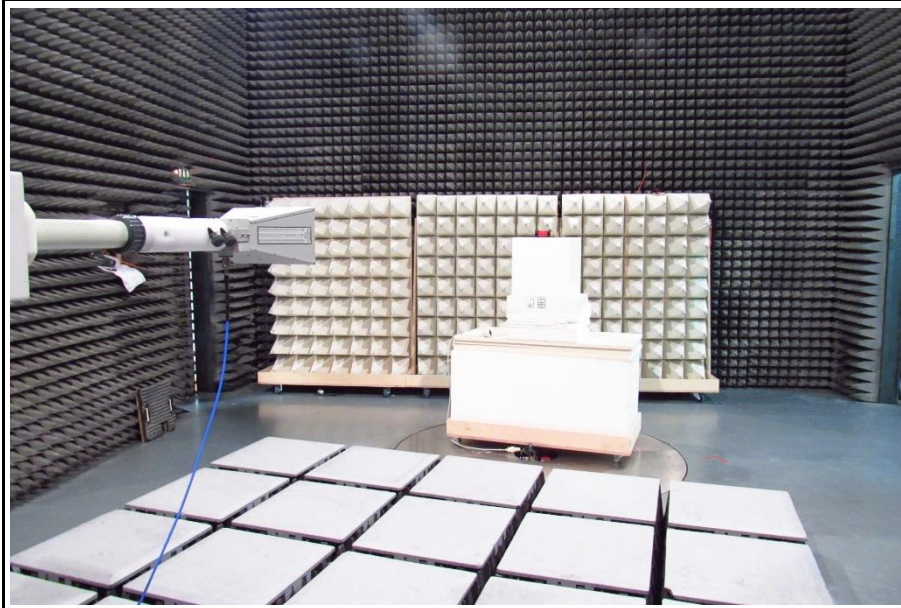
**EUT Setup vertical above 1 GHz**



Setup for TX measurement above 1 GHz



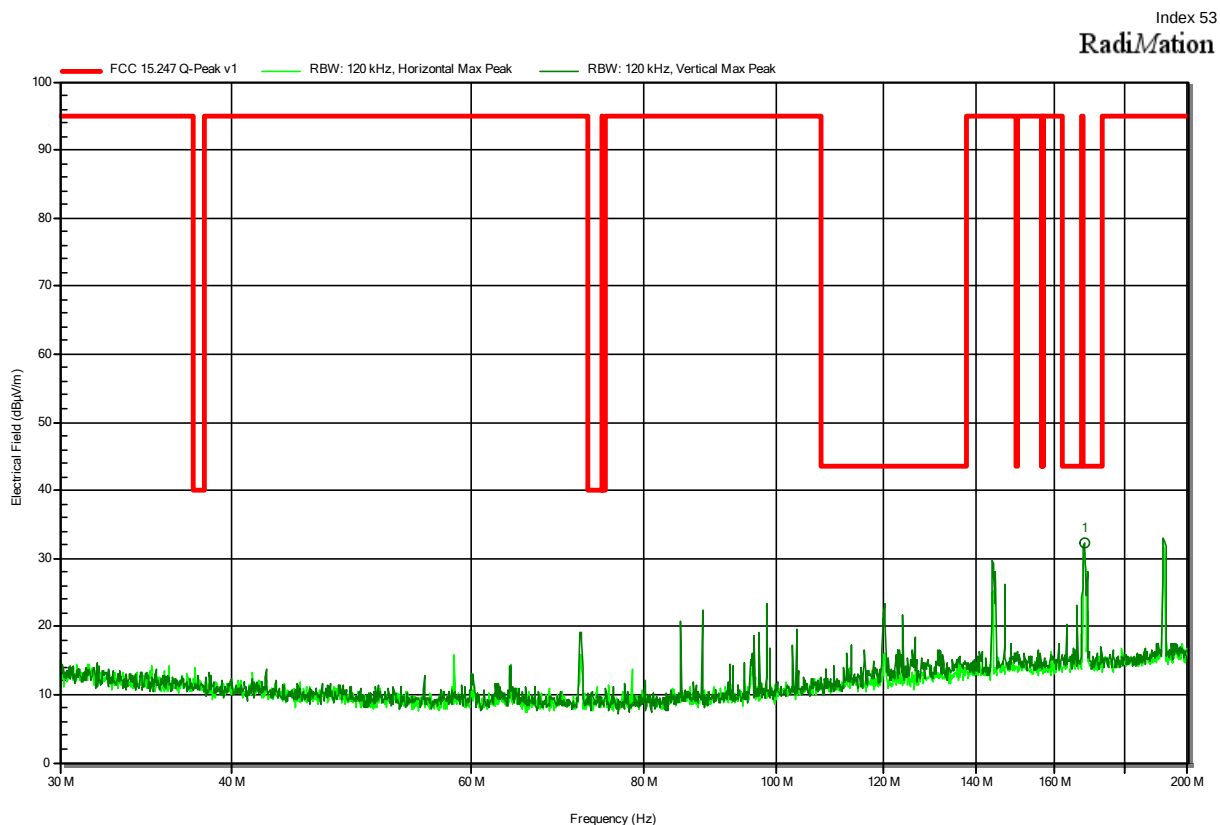
Setup for TX measurement above 1 GHz



## ANNEX A Transmitter spurious emissions

### Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2112-1241  
 Applicant: fischertechnik GmbH  
 Model Description: Roboter Chassis Early Coding for Toy and Education market  
 Model: Roboter Chassis 183268  
 Test Sample ID: 38602 (SN:183268 )  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 24 °Celsius, Vnom: 4.5 V DC (3x AA Battery)  
 Antenna: Rohde & Schwarz HK 116  
 Measurement distance: 3 m  
 Mode: Tx; BT-LE\_CH 0 (2402 MHz)\_1Mbite\_GFSK\_37 Byte\_Pmax= 4 dBm  
 Test Date: 2022-03-07  
 Note: EUT vertical



| Frequency    | Peak        | Peak Limit  | Peak Difference | Peak Status | Polarization |
|--------------|-------------|-------------|-----------------|-------------|--------------|
| 168.0188 MHz | 32.3 dBμV/m | 43.5 dBμV/m | -11.24 dB       | Pass        | Vertical     |

Test Report No.: G0M-2112-1241-TFC247BL-V02

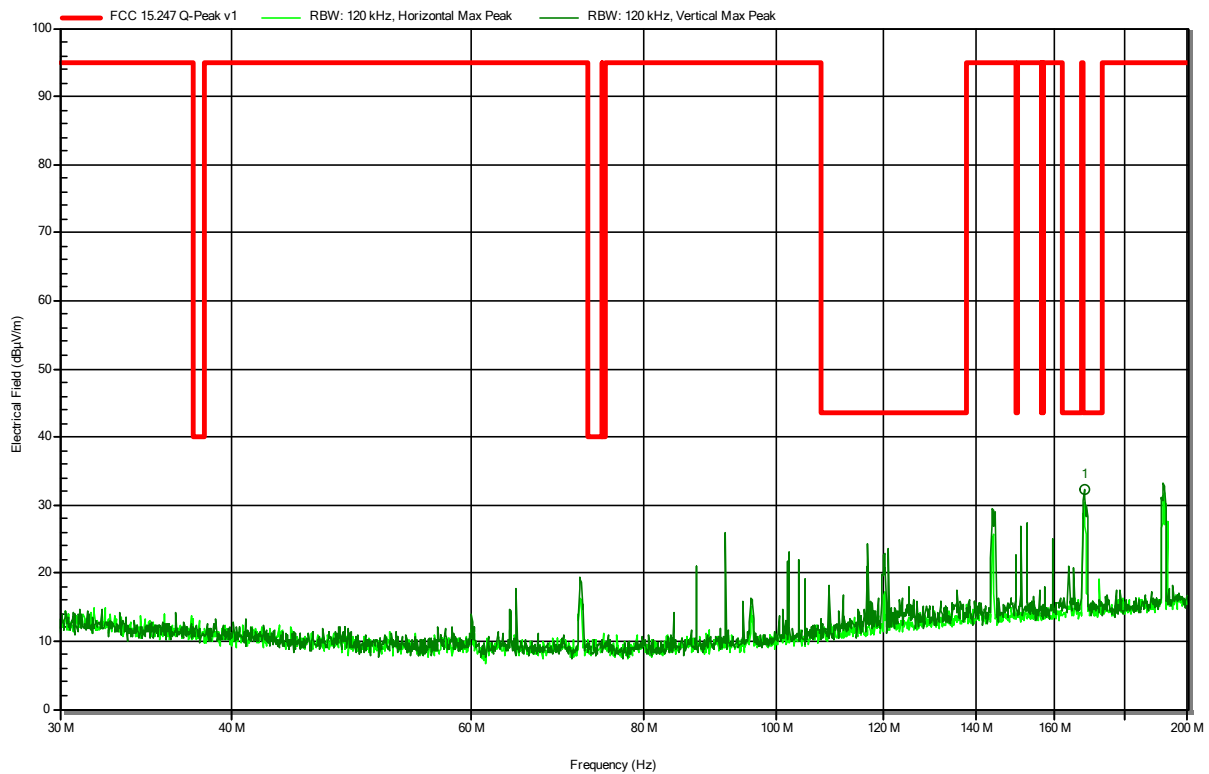
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2112-1241  
 Applicant: fischertechnik GmbH  
 Model Description: Roboter Chassis Early Coding for Toy and Education market  
 Model: Roboter Chassis 183268  
 Test Sample ID: 38602 (SN:183268 )  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 24 °Celsius, Vnom: 4.5 V DC (3x AA Battery)  
 Antenna: Rohde & Schwarz HK 116  
 Measurement distance: 3 m  
 Mode: Tx; BT-LE\_CH 19 (2440 MHz)\_1Mbite\_GFSK\_37 Byte\_Pmax= 4 dBm  
 Test Date: 2022-03-07  
 Note: EUT vertical

Index 54

RadiMation



| Frequency    | Peak        | Peak Limit  | Peak Difference | Peak Status | Polarization |
|--------------|-------------|-------------|-----------------|-------------|--------------|
| 168.0273 MHz | 32.2 dBµV/m | 43.5 dBµV/m | -11.31 dB       | Pass        | Vertical     |

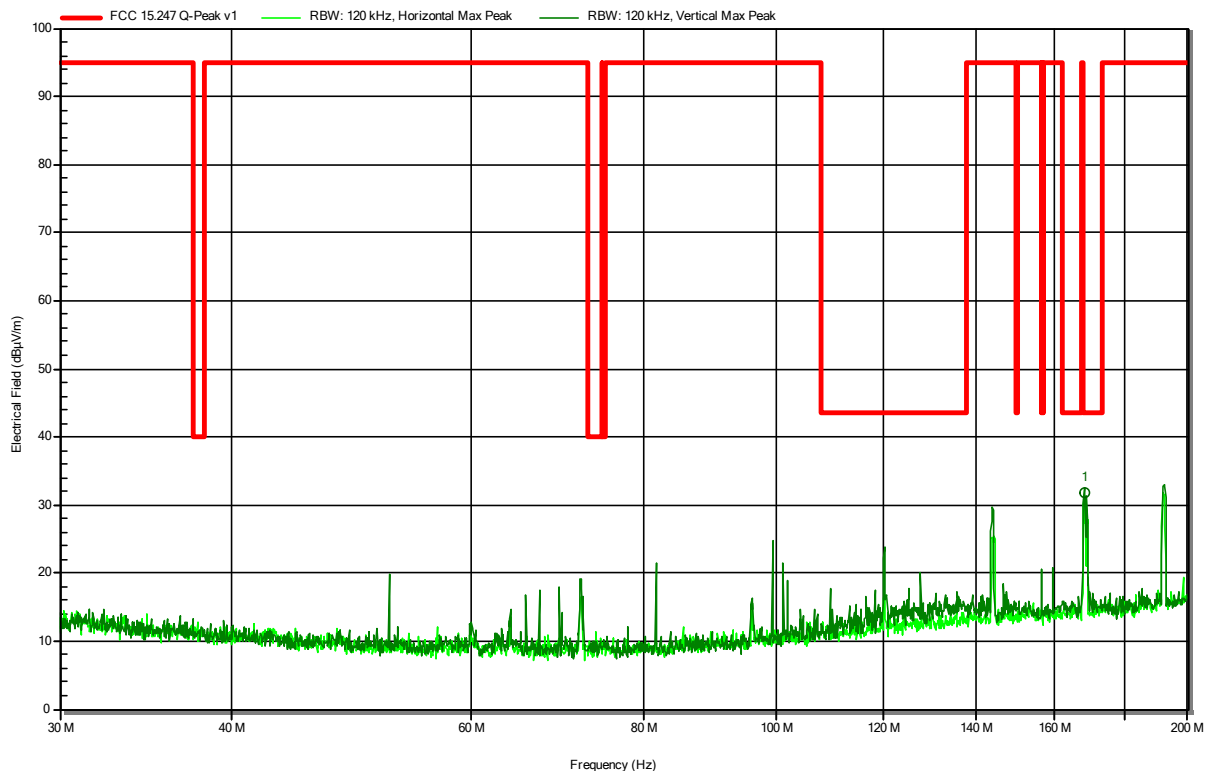


## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2112-1241  
 Applicant: fischertechnik GmbH  
 Model Description: Roboter Chassis Early Coding for Toy and Education market  
 Model: Roboter Chassis 183268  
 Test Sample ID: 38602 (SN:183268 )  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 24 °Celsius, Vnom: 4.5 V DC (3x AA Battery)  
 Antenna: Rohde & Schwarz HK 116  
 Measurement distance: 3 m  
 Mode: Tx; BT-LE\_CH 39 (2480 MHz)\_1Mbite\_GFSK\_37 Byte\_Pmax= 4 dBm  
 Test Date: 2022-03-07  
 Note: EUT vertical

Index 55

RadiMation



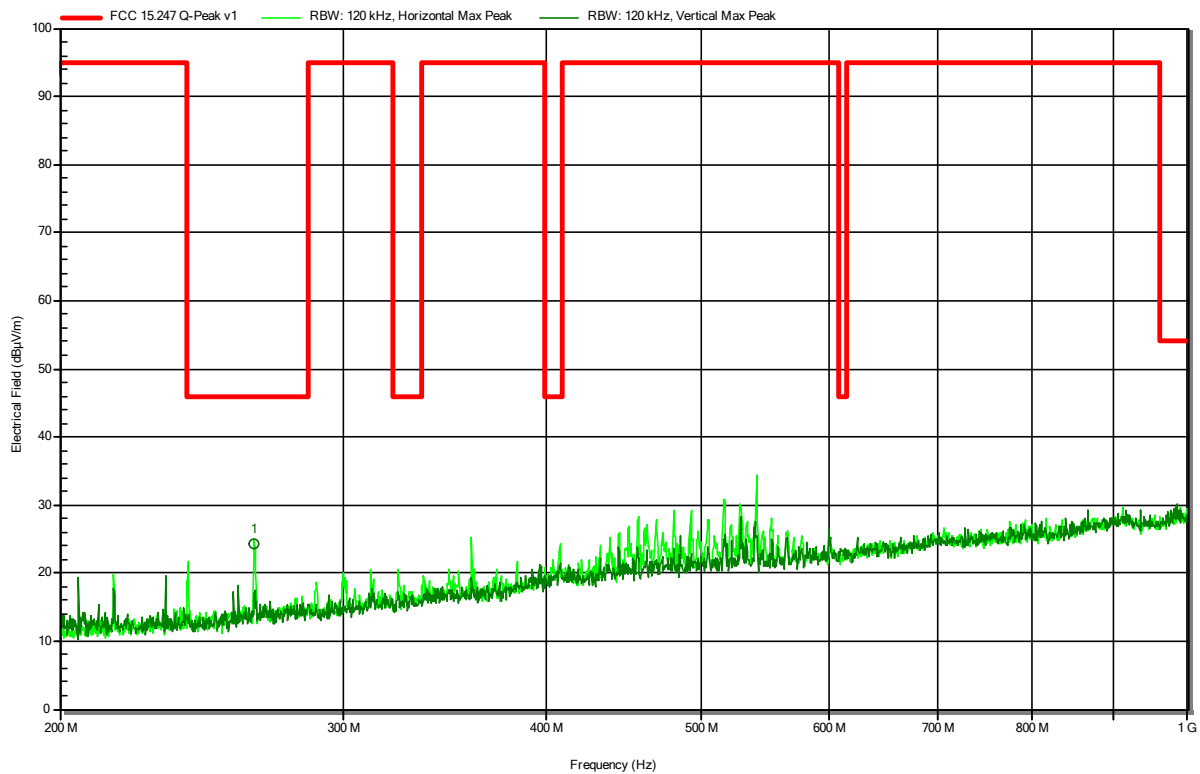
| Frequency    | Peak        | Peak Limit  | Peak Difference | Peak Status | Polarization |
|--------------|-------------|-------------|-----------------|-------------|--------------|
| 167.9975 MHz | 31.9 dBµV/m | 43.5 dBµV/m | -11.61 dB       | Pass        | Vertical     |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2112-1241  
 Applicant: fischertechnik GmbH  
 Model Description: Roboter Chassis Early Coding for Toy and Education market  
 Model: Roboter Chassis 183268  
 Test Sample ID: 38602 (SN:183268 )  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 24 °Celsius, Vnom: 4.5 V DC (3x AA Battery)  
 Antenna: Rohde & Schwarz HL 223  
 Measurement distance: 3 m  
 Mode: Tx; BT-LE\_CH 0 (2402 MHz)\_1Mbite\_GFSK\_37 Byte\_Pmax= 4 dBm  
 Test Date: 2022-03-07  
 Note: EUT vertical

Index 52

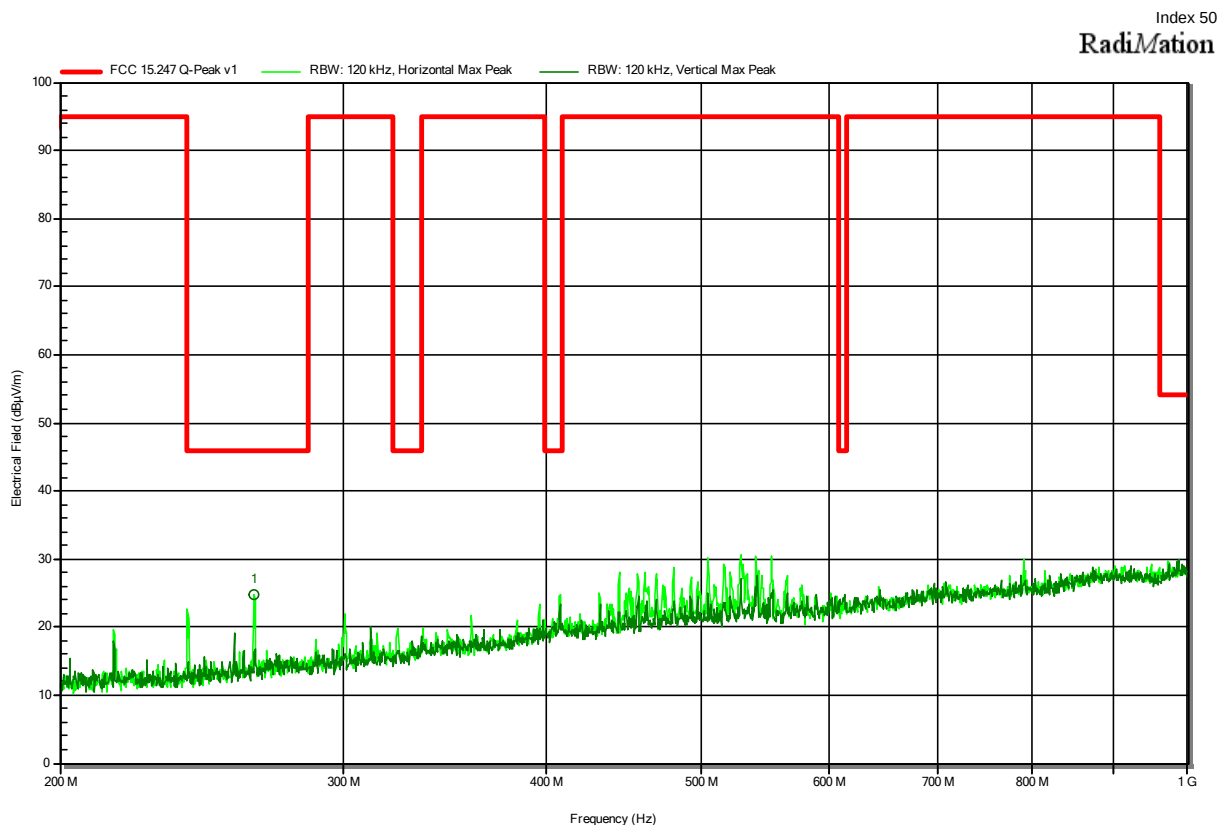
RadiMation



| Frequency  | Peak        | Peak Limit | Peak Difference | Peak Status | Polarization |
|------------|-------------|------------|-----------------|-------------|--------------|
| 263.98 MHz | 24.4 dBμV/m | 46 dBμV/m  | -21.63 dB       | Pass        | Horizontal   |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2112-1241  
 Applicant: fischertechnik GmbH  
 Model Description: Roboter Chassis Early Coding for Toy and Education market  
 Model: Roboter Chassis 183268  
 Test Sample ID: 38602 (SN:183268 )  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 24 °Celsius, Vnom: 4.5 V DC (3x AA Battery)  
 Antenna: Rohde & Schwarz HL 223  
 Measurement distance: 3 m  
 Mode: Tx; BT-LE\_CH 19 (2440 MHz)\_1Mbite\_GFSK\_37 Byte\_Pmax= 4 dBm  
 Test Date: 2022-03-07  
 Note: EUT vertical



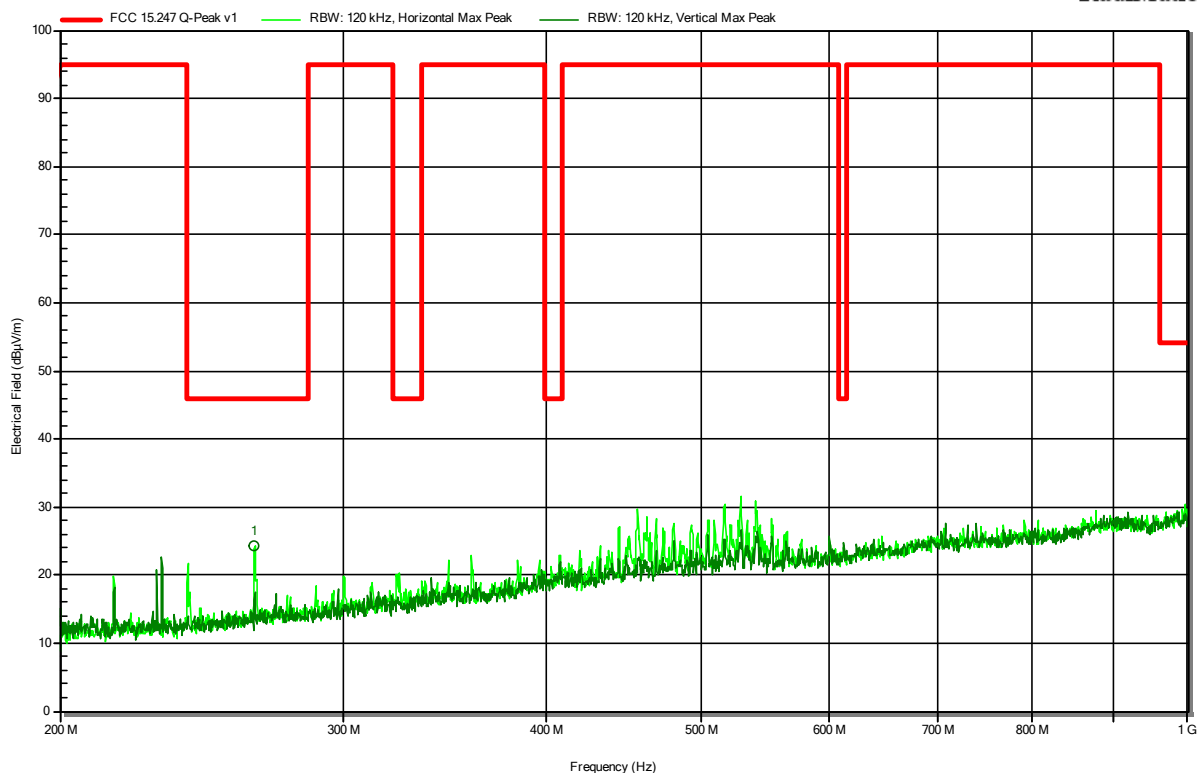
| Frequency  | Peak        | Peak Limit | Peak Difference | Peak Status | Polarization |
|------------|-------------|------------|-----------------|-------------|--------------|
| 263.96 MHz | 24.7 dBμV/m | 46 dBμV/m  | -21.32 dB       | Pass        | Horizontal   |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2112-1241  
 Applicant: fischertechnik GmbH  
 Model Description: Roboter Chassis Early Coding for Toy and Education market  
 Model: Roboter Chassis 183268  
 Test Sample ID: 38602 (SN:183268 )  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 24 °Celsius, Vnom: 4.5 V DC (3x AA Battery)  
 Antenna: Rohde & Schwarz HL 223  
 Measurement distance: 3 m  
 Mode: Tx; BT-LE\_CH 39 (2480 MHz)\_1Mbite\_GFSK\_37 Byte\_Pmax= 4 dBm  
 Test Date: 2022-03-07  
 Note: EUT vertical

Index 51

RadiMation



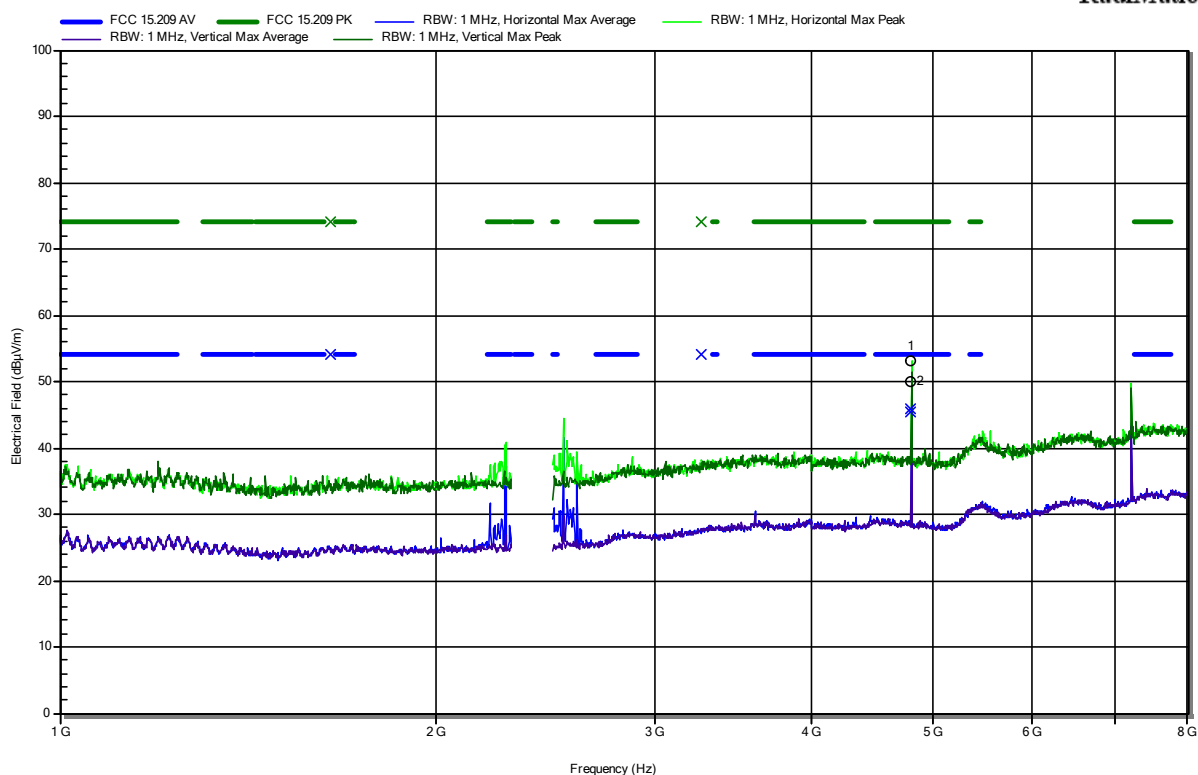
| Frequency  | Peak        | Peak Limit | Peak Difference | Peak Status | Polarization |
|------------|-------------|------------|-----------------|-------------|--------------|
| 264.02 MHz | 24.3 dBµV/m | 46 dBµV/m  | -21.67 dB       | Pass        | Horizontal   |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2112-1241  
 Applicant: fischertechnik GmbH  
 Model Description: Roboter Chassis Early Coding for Toy and Education market  
 Model: Roboter Chassis 183268  
 Test Sample ID: 38602 (SN:183268 )  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mrs Hoang  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 24 °Celsius, Vnom: 4.5 V DC (3x AA Battery)  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; BT-LE\_CH 0 (2402 MHz)\_1Mbite\_GFSK\_37 Byte\_Pmax= 4 dBm  
 Test Date: 2022-03-11  
 Note: EUT horizontal

Index 64

RadiMation



| Frequency  | Peak         | Peak Limit | Peak Difference | Peak Status | Polarization |
|------------|--------------|------------|-----------------|-------------|--------------|
| 4.8033 GHz | 53.11 dBµV/m | 74 dBµV/m  | -20.89 dB       | Pass        | Horizontal   |
| 4.8036 GHz | 50.05 dBµV/m | 74 dBµV/m  | -23.95 dB       | Pass        | Vertical     |

| Frequency  | Average      | Average Limit | Average Difference | Average Status | Polarization |
|------------|--------------|---------------|--------------------|----------------|--------------|
| 4.8033 GHz | 45.89 dBµV/m | 54 dBµV/m     | -8.11 dB           | Pass           | Horizontal   |
| 4.8036 GHz | 45.37 dBµV/m | 54 dBµV/m     | -8.63 dB           | Pass           | Vertical     |

Test Report No.: G0M-2112-1241-TFC247BL-V02

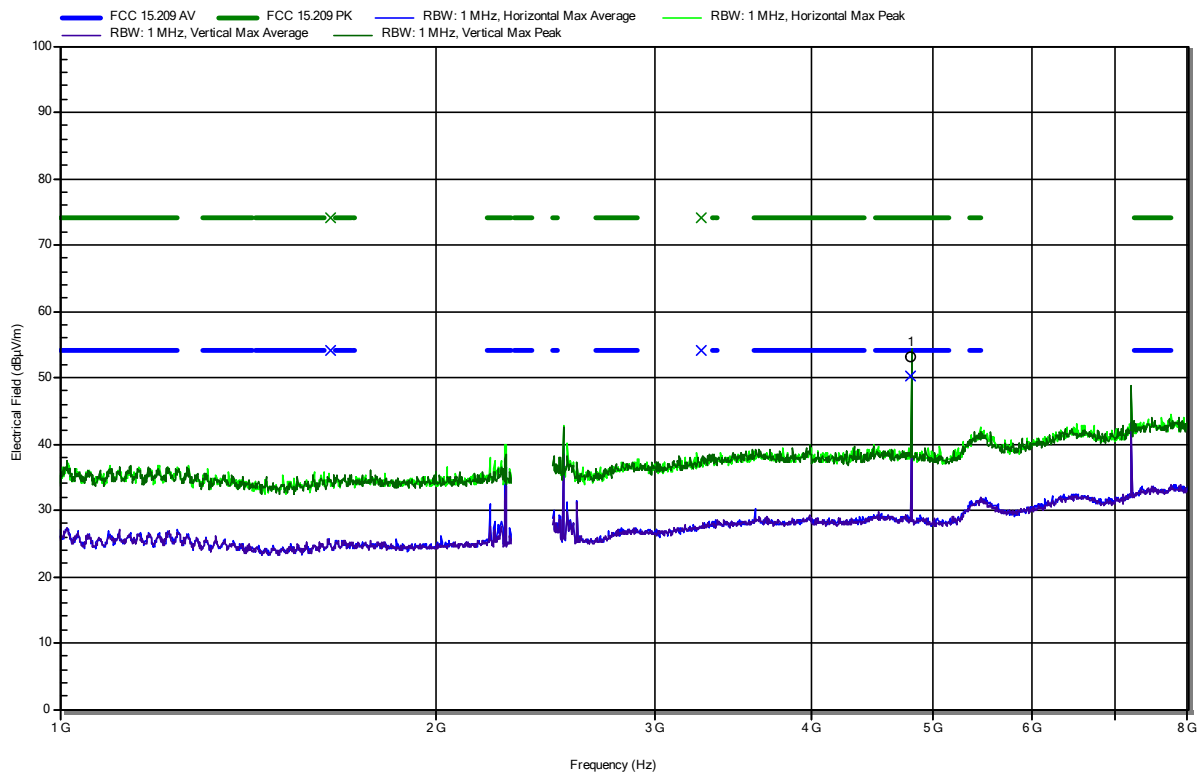
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2112-1241  
 Applicant: fischertechnik GmbH  
 Model Description: Roboter Chassis Early Coding for Toy and Education market  
 Model: Roboter Chassis 183268  
 Test Sample ID: 38602 (SN:183268 )  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mrs Hoang  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 24 °Celsius, Vnom: 4.5 V DC (3x AA Battery)  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; BT-LE\_CH 0 (2402 MHz)\_1Mbite\_GFSK\_37 Byte\_Pmax= 4 dBm  
 Test Date: 2022-03-11  
 Note: EUT vertical

Index 63

RadiMation



| Frequency  | Peak         | Peak Limit    | Peak Difference    | Peak Status    | Polarization |
|------------|--------------|---------------|--------------------|----------------|--------------|
| 4.8037 GHz | 53.1 dBµV/m  | 74 dBµV/m     | -20.9 dB           | Pass           | Vertical     |
| Frequency  | Average      | Average Limit | Average Difference | Average Status | Polarization |
| 4.8037 GHz | 50.27 dBµV/m | 54 dBµV/m     | -3.73 dB           | Pass           | Vertical     |

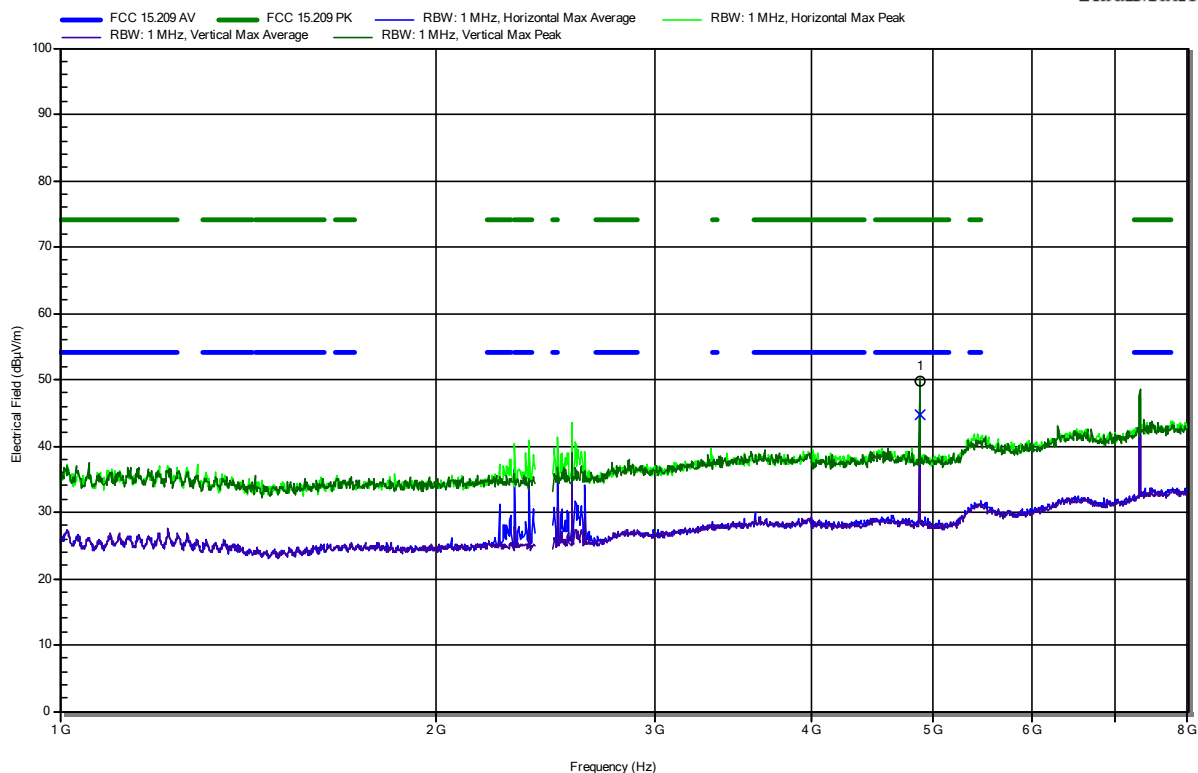


## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2112-1241  
 Applicant: fischertechnik GmbH  
 Model Description: Roboter Chassis Early Coding for Toy and Education market  
 Model: Roboter Chassis 183268  
 Test Sample ID: 38602 (SN:183268 )  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mrs Hoang  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 24 °Celsius, Vnom: 4.5 V DC (3x AA Battery)  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; BT-LE\_CH 19 (2440 MHz)\_1Mbite\_GFSK\_37 Byte\_Pmax= 4 dBm  
 Test Date: 2022-03-11  
 Note: EUT horizontal

Index 69

RadiMation



|                         |                         |                            |                                |                        |                          |
|-------------------------|-------------------------|----------------------------|--------------------------------|------------------------|--------------------------|
| Frequency<br>4.8796 GHz | Peak<br>49.69 dBµV/m    | Peak Limit<br>74 dBµV/m    | Peak Difference<br>-24.31 dB   | Peak Status<br>Pass    | Polarization<br>Vertical |
| Frequency<br>4.8796 GHz | Average<br>44.72 dBµV/m | Average Limit<br>54 dBµV/m | Average Difference<br>-9.28 dB | Average Status<br>Pass | Polarization<br>Vertical |

Test Report No.: G0M-2112-1241-TFC247BL-V02

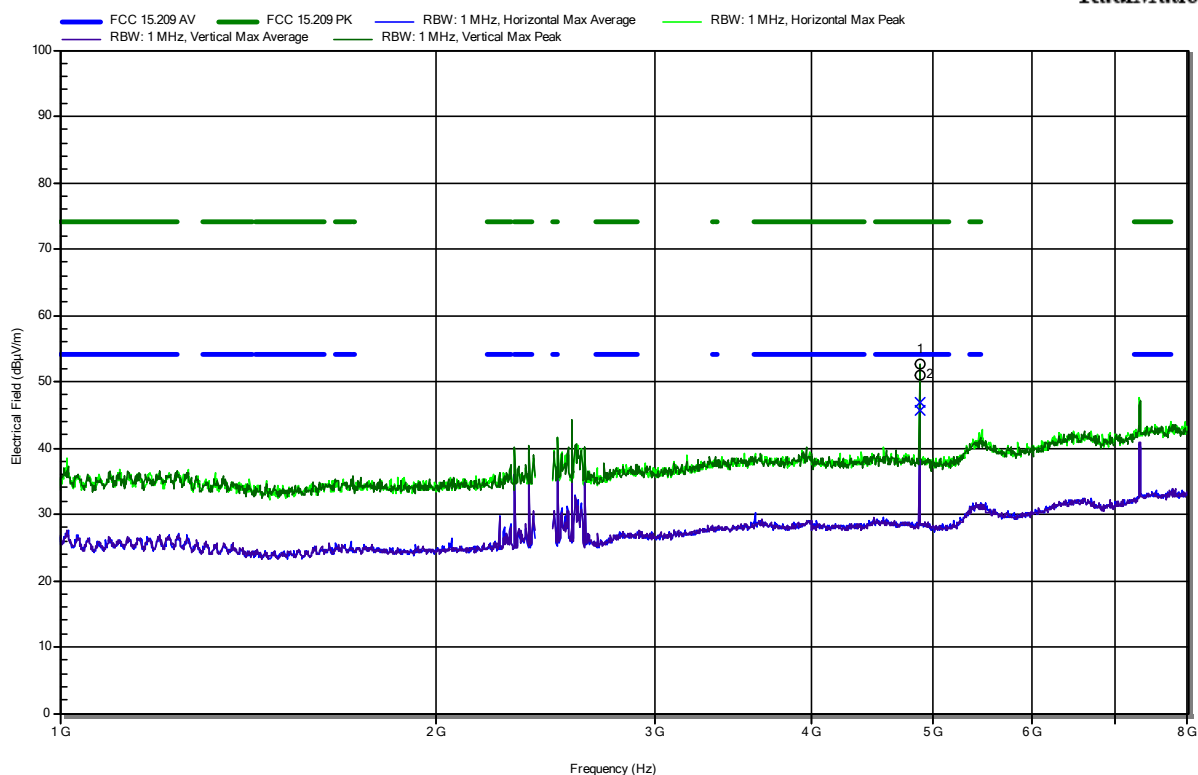
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2112-1241  
 Applicant: fischertechnik GmbH  
 Model Description: Roboter Chassis Early Coding for Toy and Education market  
 Model: Roboter Chassis 183268  
 Test Sample ID: 38602 (SN:183268 )  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mrs Hoang  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 24 °Celsius, Vnom: 4.5 V DC (3x AA Battery)  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; BT-LE\_CH 19 (2440 MHz)\_1Mbite\_GFSK\_37 Byte\_Pmax= 4 dBm  
 Test Date: 2022-03-11  
 Note: EUT vertical

Index 68

RadiMation



| Frequency  | Peak         | Peak Limit | Peak Difference | Peak Status | Polarization |
|------------|--------------|------------|-----------------|-------------|--------------|
| 4.8796 GHz | 52.58 dBµV/m | 74 dBµV/m  | -21.42 dB       | Pass        | Vertical     |
| 4.8805 GHz | 50.92 dBµV/m | 74 dBµV/m  | -23.08 dB       | Pass        | Horizontal   |

| Frequency  | Average      | Average Limit | Average Difference | Average Status | Polarization |
|------------|--------------|---------------|--------------------|----------------|--------------|
| 4.8796 GHz | 45.61 dBµV/m | 54 dBµV/m     | -8.39 dB           | Pass           | Vertical     |
| 4.8805 GHz | 46.86 dBµV/m | 54 dBµV/m     | -7.14 dB           | Pass           | Horizontal   |

Test Report No.: G0M-2112-1241-TFC247BL-V02

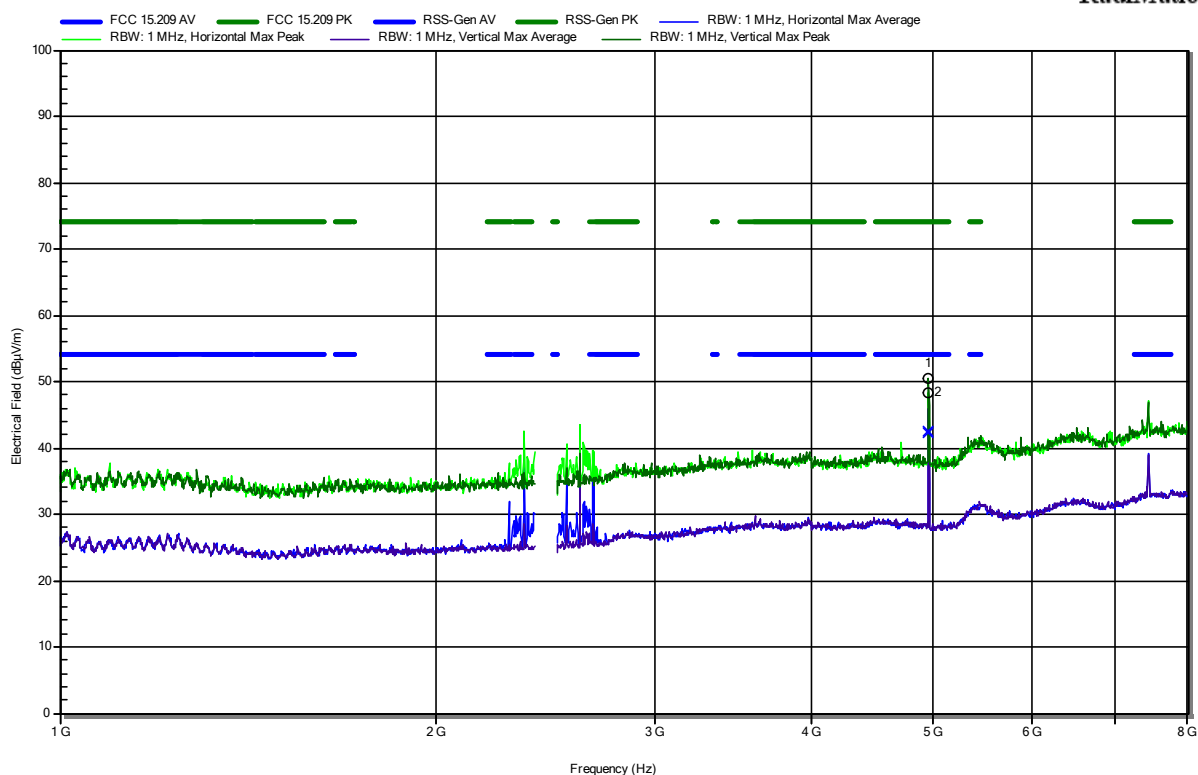
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2112-1241  
 Applicant: fischertechnik GmbH  
 Model Description: Roboter Chassis Early Coding for Toy and Education market  
 Model: Roboter Chassis 183268  
 Test Sample ID: 38602 (SN:183268 )  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mrs Hoang  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 24 °Celsius, Vnom: 4.5 V DC (3x AA Battery)  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; BT-LE\_CH 39 (2480 MHz)\_1Mbite\_GFSK\_37 Byte\_Pmax= 4 dBm  
 Test Date: 2022-03-11  
 Note: EUT horizontal

Index 67

RadiMation



| Frequency | Peak         | Peak Limit | Peak Difference | Peak Status | Polarization |
|-----------|--------------|------------|-----------------|-------------|--------------|
| 4.959 GHz | 50.41 dBµV/m | 74 dBµV/m  | -23.59 dB       | Pass        | Vertical     |
| 4.959 GHz | 48.4 dBµV/m  | 74 dBµV/m  | -25.6 dB        | Pass        | Horizontal   |

| Frequency | Average      | Average Limit | Average Difference | Average Status | Polarization |
|-----------|--------------|---------------|--------------------|----------------|--------------|
| 4.959 GHz | 42.36 dBµV/m | 54 dBµV/m     | -11.64 dB          | Pass           | Vertical     |
| 4.959 GHz | 42.49 dBµV/m | 54 dBµV/m     | -11.51 dB          | Pass           | Horizontal   |

Test Report No.: G0M-2112-1241-TFC247BL-V02

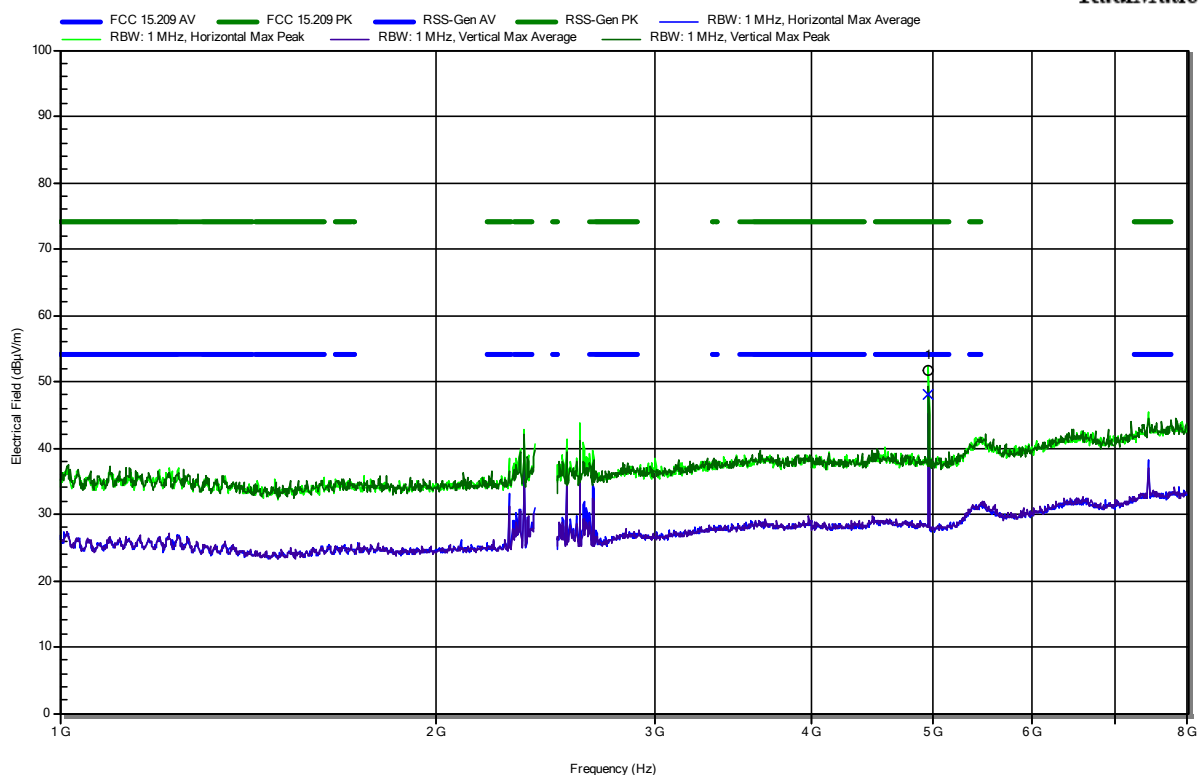
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2112-1241  
 Applicant: fischertechnik GmbH  
 Model Description: Roboter Chassis Early Coding for Toy and Education market  
 Model: Roboter Chassis 183268  
 Test Sample ID: 38602 (SN:183268 )  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mrs Hoang  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 24 °Celsius, Vnom: 4.5 V DC (3x AA Battery)  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; BT-LE\_CH 39 (2480 MHz)\_1Mbite\_GFSK\_37 Byte\_Pmax= 4 dBm  
 Test Date: 2022-03-11  
 Note: EUT vertical

Index 66

RadiMation



|           |              |               |                    |                |              |
|-----------|--------------|---------------|--------------------|----------------|--------------|
| Frequency | Peak         | Peak Limit    | Peak Difference    | Peak Status    | Polarization |
| 4.96 GHz  | 51.76 dBµV/m | 74 dBµV/m     | -22.24 dB          | Pass           | Horizontal   |
| Frequency | Average      | Average Limit | Average Difference | Average Status | Polarization |
| 4.96 GHz  | 48.14 dBµV/m | 54 dBµV/m     | -5.86 dB           | Pass           | Horizontal   |

Test Report No.: G0M-2112-1241-TFC247BL-V02

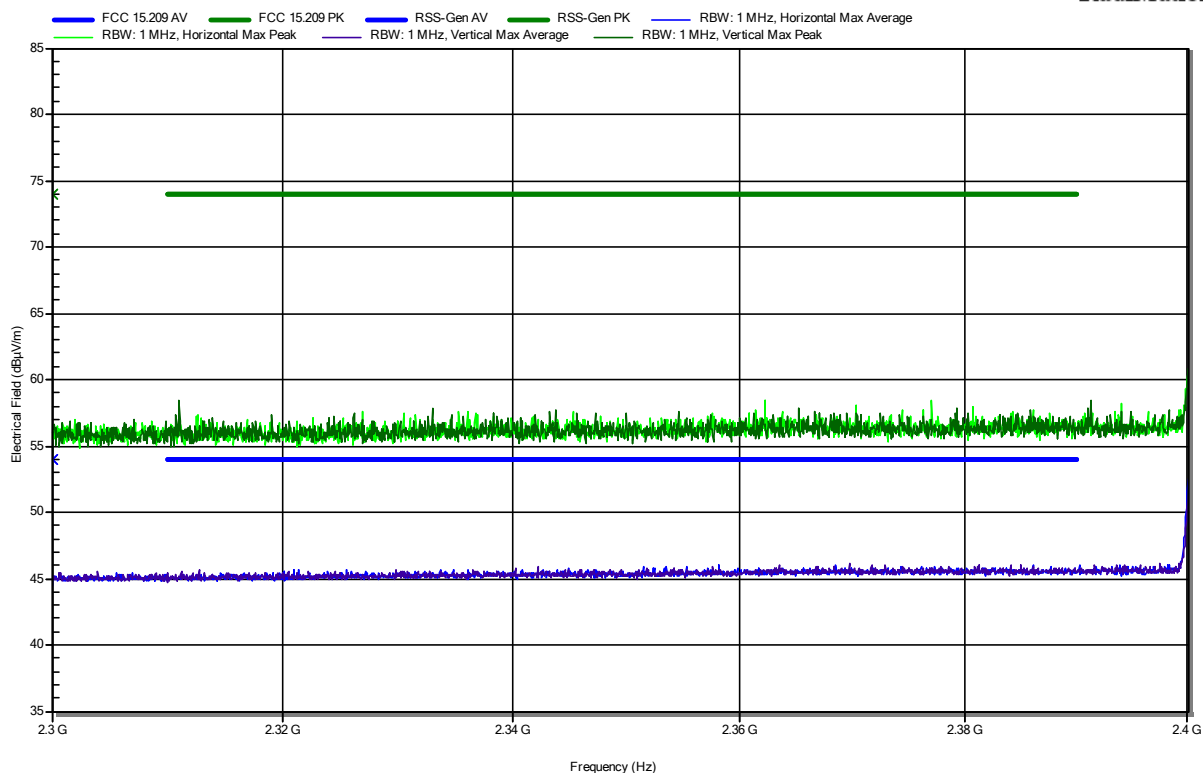
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2112-1241  
 Applicant: fischertechnik GmbH  
 Model Description: Roboter Chassis Early Coding for Toy and Education market  
 Model: Roboter Chassis 183268  
 Test Sample ID: 38602 (SN:183268 )  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mrs Hoang  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 24 °Celsius, Vnom: 4.5 V DC (3x AA Battery)  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; BT-LE\_CH 0 (2402 MHz)\_1Mbite\_GFSK\_37 Byte\_Pmax= 4 dBm  
 Test Date: 2022-03-11  
 Note: lower bandedge EUT vertical

Index 62

RadiMation

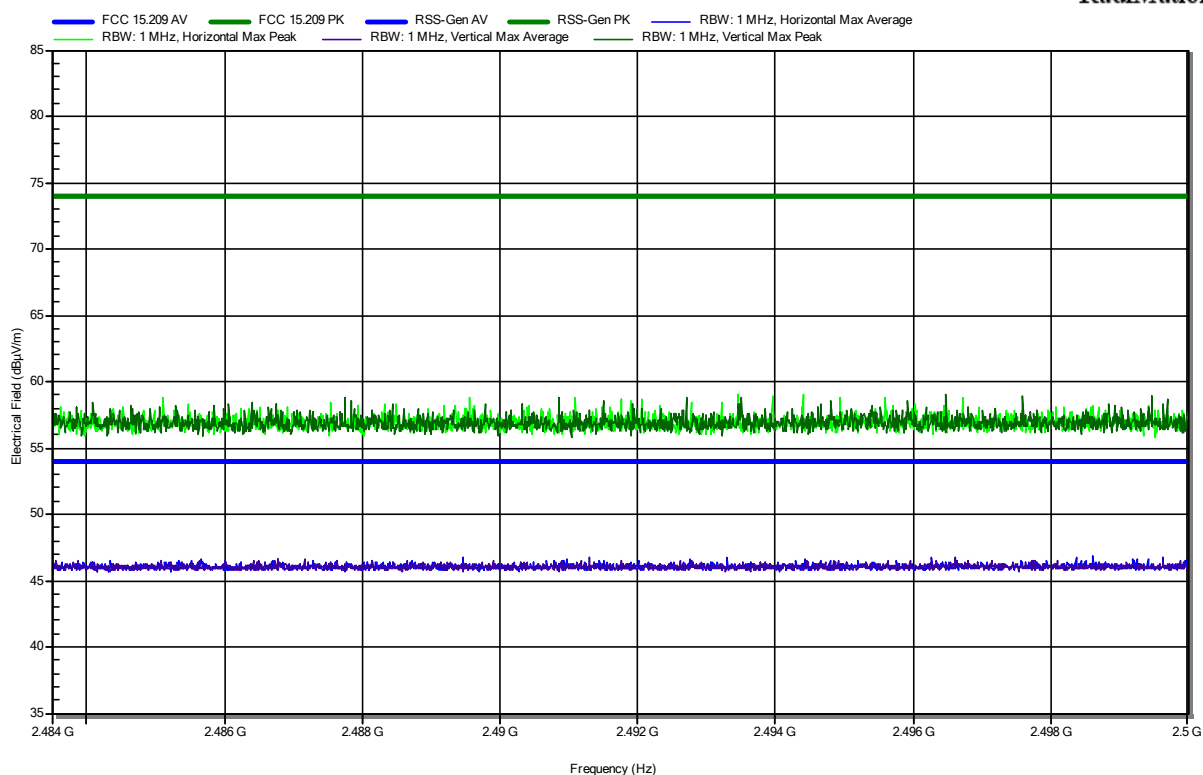


## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2112-1241  
 Applicant: fischertechnik GmbH  
 Model Description: Roboter Chassis Early Coding for Toy and Education market  
 Model: Roboter Chassis 183268  
 Test Sample ID: 38602 (SN:183268 )  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mrs Hoang  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 24 °Celsius, Vnom: 4.5 V DC (3x AA Battery)  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; BT-LE\_CH 39 (2480 MHz)\_1Mbite\_GFSK\_37 Byte\_Pmax= 4 dBm  
 Test Date: 2022-03-11  
 Note: upper bandedge EUT vertical

Index 65

RadiMation

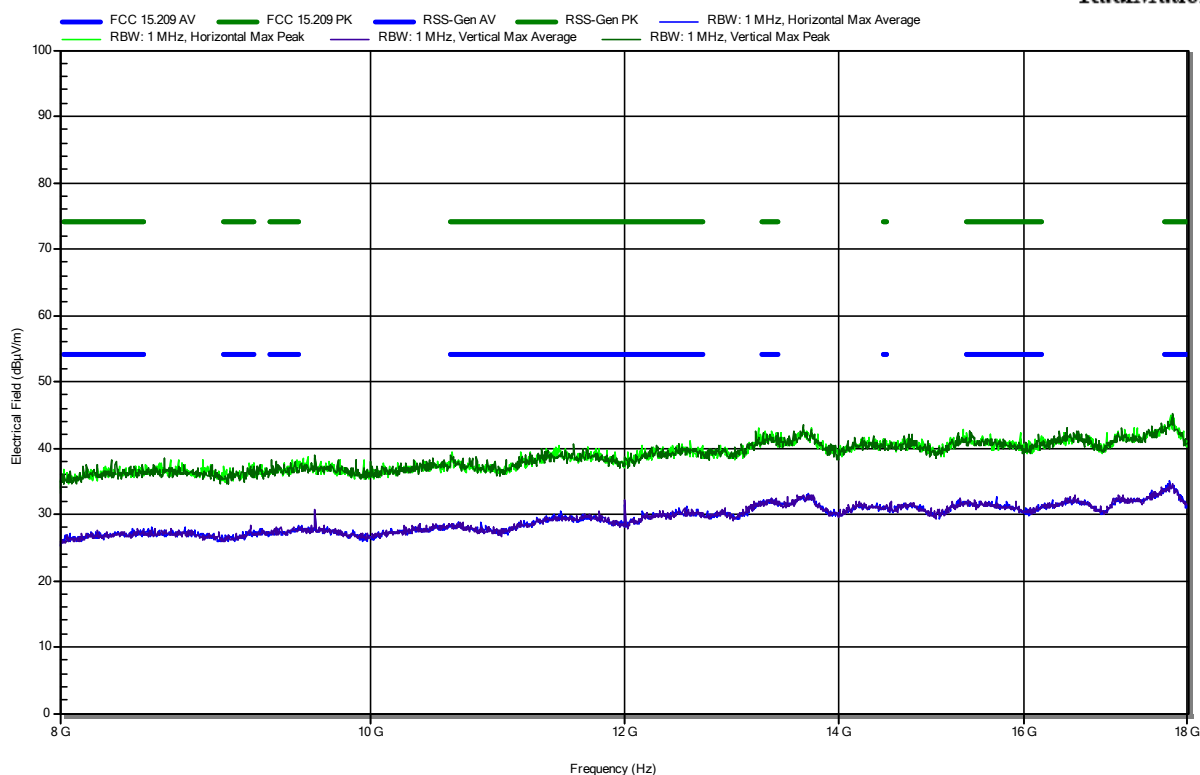


## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2112-1241  
 Applicant: fischertechnik GmbH  
 Model Description: Roboter Chassis Early Coding for Toy and Education market  
 Model: Roboter Chassis 183268  
 Test Sample ID: 38602 (SN:183268 )  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mrs Hoang  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 24 °Celsius, Vnom: 4.5 V DC (3x AA Battery)  
 Antenna: Schwarzbeck HWRD 650  
 Measurement distance: 3 m  
 Mode: Tx; BT-LE\_CH 0 (2402 MHz)\_1Mbite\_GFSK\_37 Byte\_Pmax= 4 dBm  
 Test Date: 2022-03-07  
 Note: EUT vertical

Index 56

RadiMation



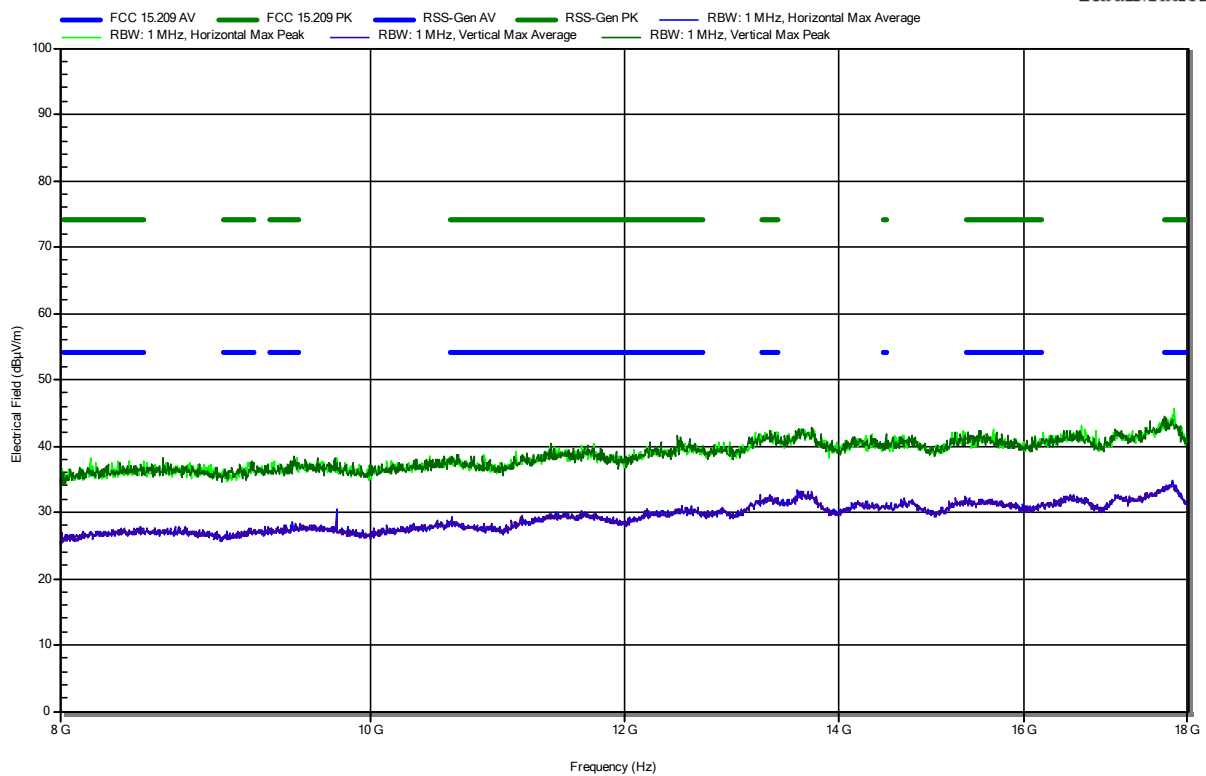


## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2112-1241  
 Applicant: fischertechnik GmbH  
 Model Description: Roboter Chassis Early Coding for Toy and Education market  
 Model: Roboter Chassis 183268  
 Test Sample ID: 38602 (SN:183268 )  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mrs Hoang  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 24 °Celsius, Vnom: 4.5 V DC (3x AA Battery)  
 Antenna: Schwarzbeck HWRD 650  
 Measurement distance: 3 m  
 Mode: Tx; BT-LE\_CH 19 (2440 MHz)\_1Mbite\_GFSK\_37 Byte\_Pmax= 4 dBm  
 Test Date: 2022-03-07  
 Note: EUT vertical

Index 57

RadiMation

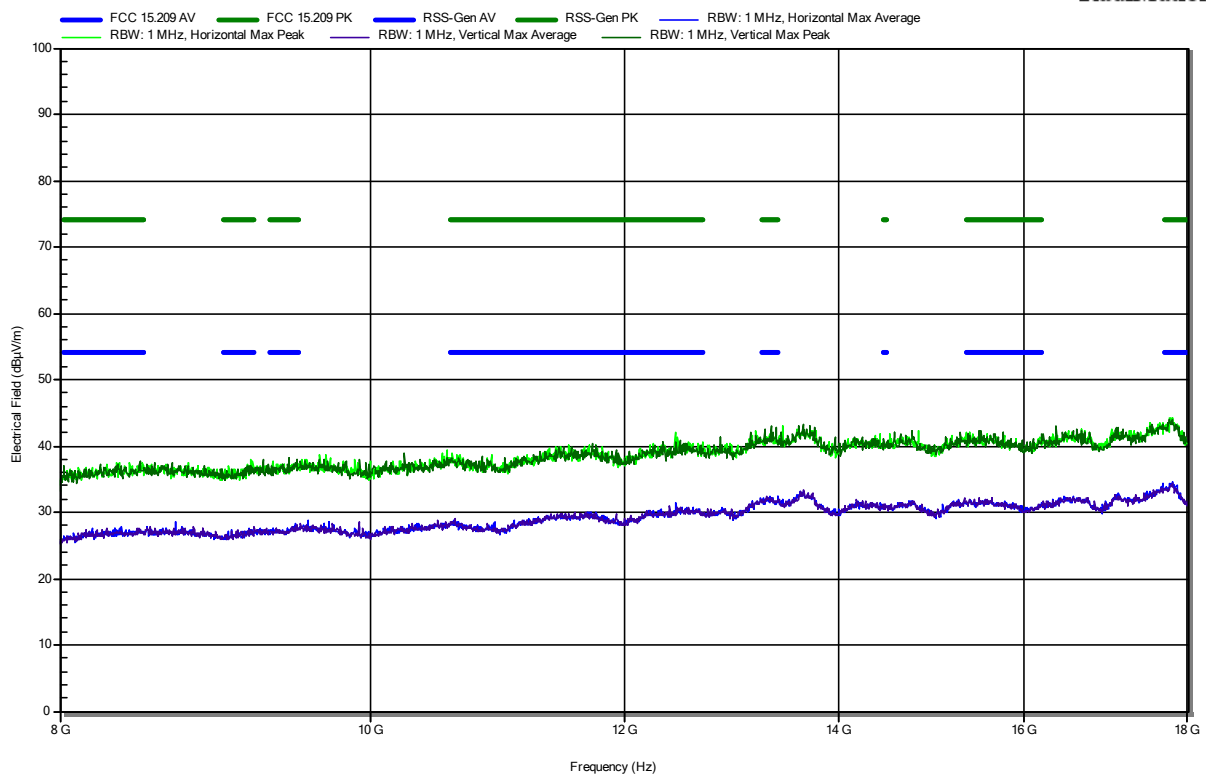


## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2112-1241  
 Applicant: fischertechnik GmbH  
 Model Description: Roboter Chassis Early Coding for Toy and Education market  
 Model: Roboter Chassis 183268  
 Test Sample ID: 38602 (SN:183268 )  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mrs Hoang  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 24 °Celsius, Vnom: 4.5 V DC (3x AA Battery)  
 Antenna: Schwarzbeck HWRD 650  
 Measurement distance: 3 m  
 Mode: Tx; BT-LE\_CH 39 (2480 MHz)\_1Mbite\_GFSK\_37 Byte\_Pmax= 4 dBm  
 Test Date: 2022-03-07  
 Note: EUT vertical

Index 58

RadiMation

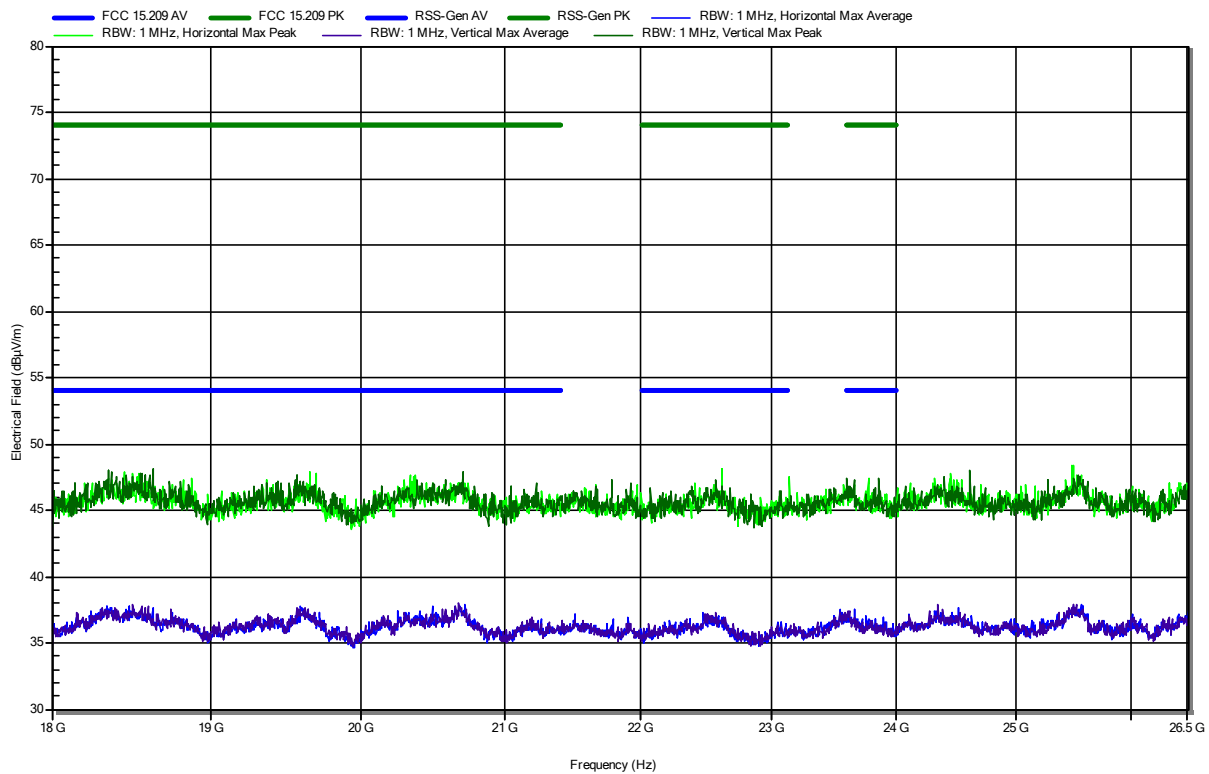


## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2112-1241  
 Applicant: fischertechnik GmbH  
 Model Description: Roboter Chassis Early Coding for Toy and Education market  
 Model: Roboter Chassis 183268  
 Test Sample ID: 38602 (SN:183268 )  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mrs Hoang  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 24 °Celsius, Vnom: 4.5 V DC (3x AA Battery)  
 Antenna: Amplifier Research AT4560  
 Measurement distance: 3 m  
 Mode: Tx; BT-LE\_CH 0 (2402 MHz)\_1Mbite\_GFSK\_37 Byte\_Pmax= 4 dBm  
 Test Date: 2022-03-07  
 Note: EUT vertical

Index 61

RadiMation

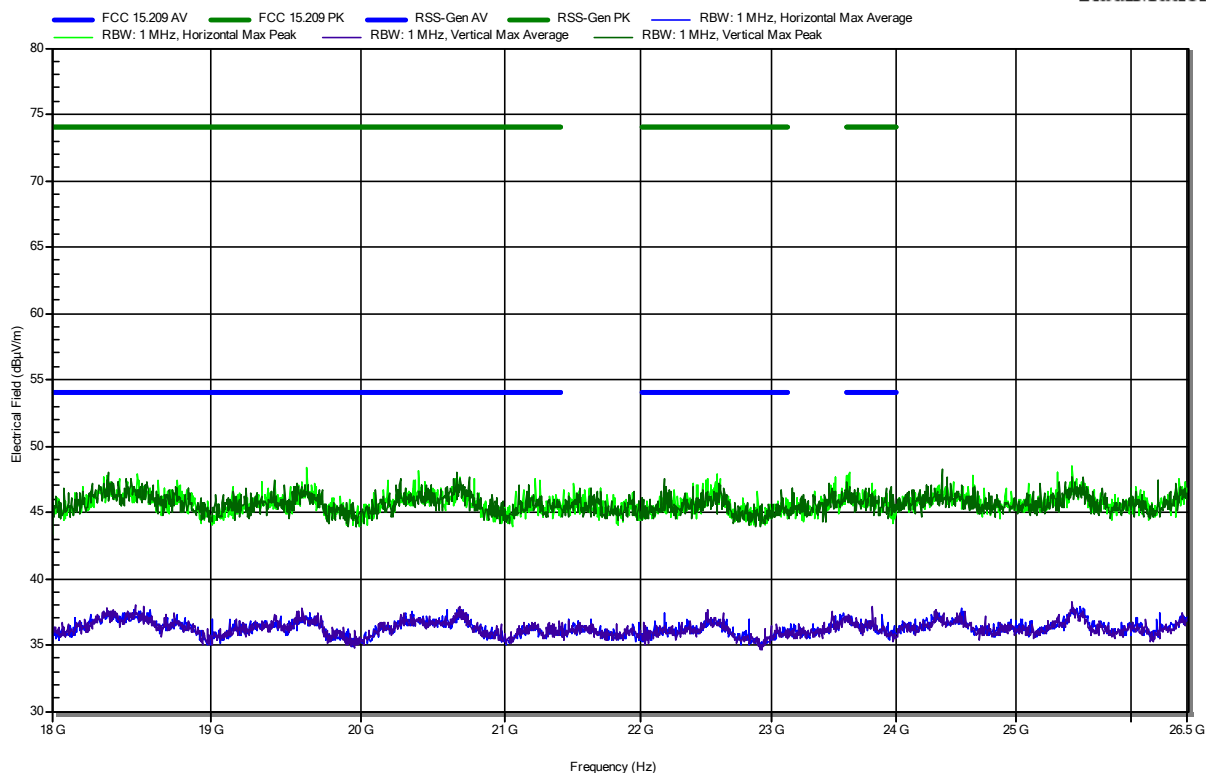


## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2112-1241  
 Applicant: fischertechnik GmbH  
 Model Description: Roboter Chassis Early Coding for Toy and Education market  
 Model: Roboter Chassis 183268  
 Test Sample ID: 38602 (SN:183268 )  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mrs Hoang  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 24 °Celsius, Vnom: 4.5 V DC (3x AA Battery)  
 Antenna: Amplifier Research AT4560  
 Measurement distance: 3 m  
 Mode: Tx; BT-LE\_CH 19 (2440 MHz)\_1Mbite\_GFSK\_37 Byte\_Pmax= 4 dBm  
 Test Date: 2022-03-07  
 Note: EUT vertical

Index 60

RadiMation

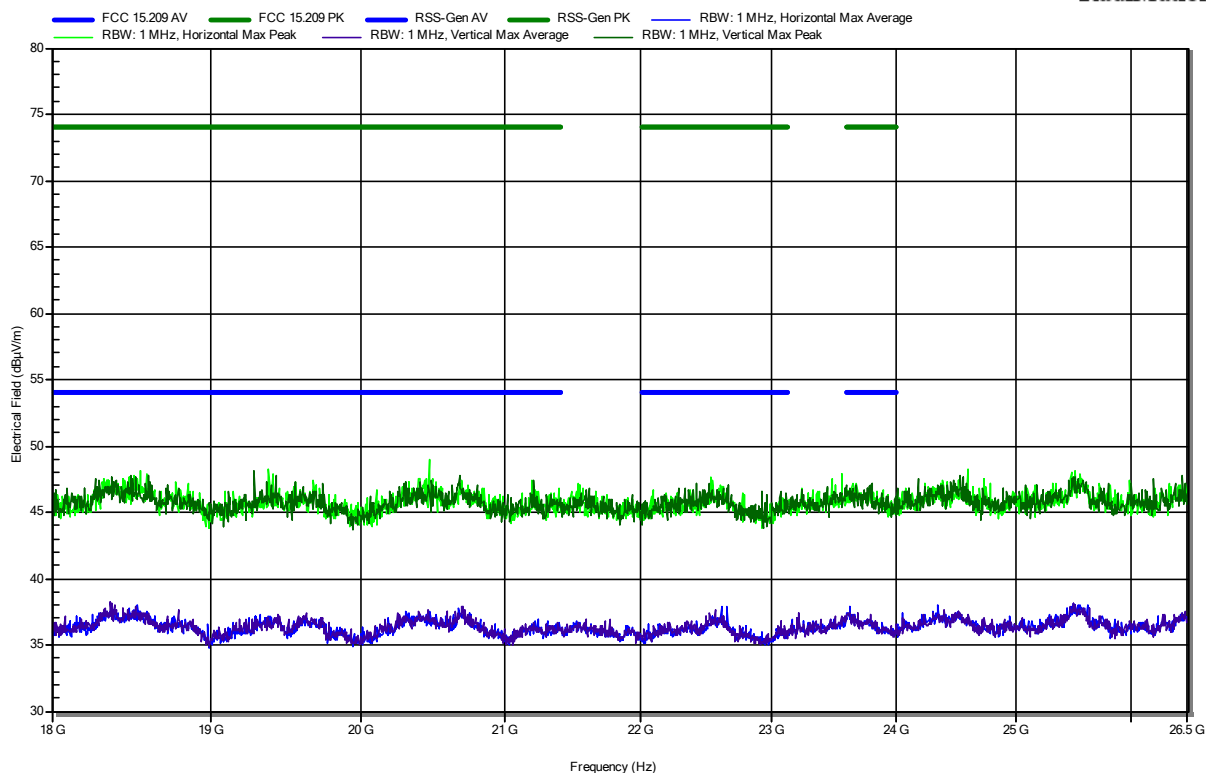


## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2112-1241  
 Applicant: fischertechnik GmbH  
 Model Description: Roboter Chassis Early Coding for Toy and Education market  
 Model: Roboter Chassis 183268  
 Test Sample ID: 38602 (SN:183268 )  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mrs Hoang  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 24 °Celsius, Vnom: 4.5 V DC (3x AA Battery)  
 Antenna: Amplifier Research AT4560  
 Measurement distance: 3 m  
 Mode: Tx; BT-LE\_CH 39 (2480 MHz)\_1Mbite\_GFSK\_37 Byte\_Pmax= 4 dBm  
 Test Date: 2022-03-07  
 Note: EUT vertical

Index 59

RadiMation



== = END OF TEST REPORT == =