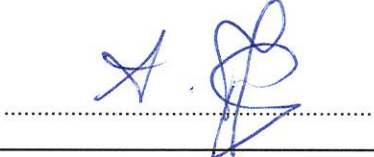


| EMC TEST REPORT                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Title 47 CFR Part 15B, ISED ICES-003 Issue 7 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Report Reference No                          | G0M-2103-9685-EF0115B-V01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Testing Laboratory                           | Eurofins Product Service GmbH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Address                                      | Storkower Str. 38c<br>15526 Reichenwalde<br>Germany                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Accreditation                                |     <p> A2LA - Registration number: 1983.01 (ISED)<br/> ISED wireless device testing laboratory: CN 3470A<br/> DAKKS - Registration number : D-PL-12092-01-04 (FCC)<br/> FCC Filed Test Laboratory, Reg.-No.: 96970 </p> |
| Applicant                                    | Dräger Safety AG & Co. KGaA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Address                                      | Revalstraße 1<br>23560 Lübeck<br>GERMANY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Test Specification Standard(s)               | Title 47 CFR Part 15 Subpart B<br>ISED ICES-003 Issue 7<br>ANSI C63.4:2014+A1:2017                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Non-Standard Test Method                     | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Equipment under Test (EUT):</b>           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Product Description                          | Fixed Gas Detector                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Model(s)                                     | Polytron 6100 EC WL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Additional Model(s)                          | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Brand Name(s)                                | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Hardware Version(s)                          | RC003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Software Version(s)                          | Transmitter: P6100 V1.5.0, Centero FW v1.5.02c, Bootloader V2.5.0, SW Telit BLT V3.12.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| FCC-ID                                       | X6O-RC003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| IC                                           | 5895F-RC003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Test Result                                  | <b>PASSED</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------|
| <b>Possible test case verdicts:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |                                                                                      |
| required by standard but not tested                                                                                                                                                                                                                                                                                                                                                                                                                                            | N/T             |                                                                                      |
| not required by standard                                                                                                                                                                                                                                                                                                                                                                                                                                                       | N/R             |                                                                                      |
| required by standard but not appl. to test object                                                                                                                                                                                                                                                                                                                                                                                                                              | N/A             |                                                                                      |
| test object does meet the requirement                                                                                                                                                                                                                                                                                                                                                                                                                                          | P(PASS)         |                                                                                      |
| test object does not meet the requirement                                                                                                                                                                                                                                                                                                                                                                                                                                      | F(FAIL)         |                                                                                      |
| <b>Testing:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |                                                                                      |
| Date of receipt of test item                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2021-05-04      |                                                                                      |
| <b>Report:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |                                                                                      |
| Compiled by                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Stephan Liebich |                                                                                      |
| Tested by (+ signature)<br>(Responsible for Test)                                                                                                                                                                                                                                                                                                                                                                                                                              | Stephan Liebich |   |
| Approved by (+ signature)<br>(Test Lab Technician)                                                                                                                                                                                                                                                                                                                                                                                                                             | Andreas Pflug   |  |
| Date of Issue                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2021-11-18      |                                                                                      |
| Total number of pages                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 58              |                                                                                      |
| <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>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                                                                                      |
| --                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |                                                                                      |

## ABBREVIATIONS AND ACRONYMS

| Acronyms         |                                                     |
|------------------|-----------------------------------------------------|
| Acronym          | Description                                         |
| EUT              | Equipment Under Test                                |
| FCC              | Federal Communications Commission                   |
| ISED             | Innovation, Science and Economic Development Canada |
| T <sub>NOM</sub> | Nominal operating temperature                       |
| V <sub>NOM</sub> | Nominal supply voltage                              |

## VERSION HISTORY

| Version History |            |                 |            |
|-----------------|------------|-----------------|------------|
| Version         | Issue Date | Remarks         | Revised By |
| 01              | 2021-11-18 | Initial Release |            |

## REPORT INDEX

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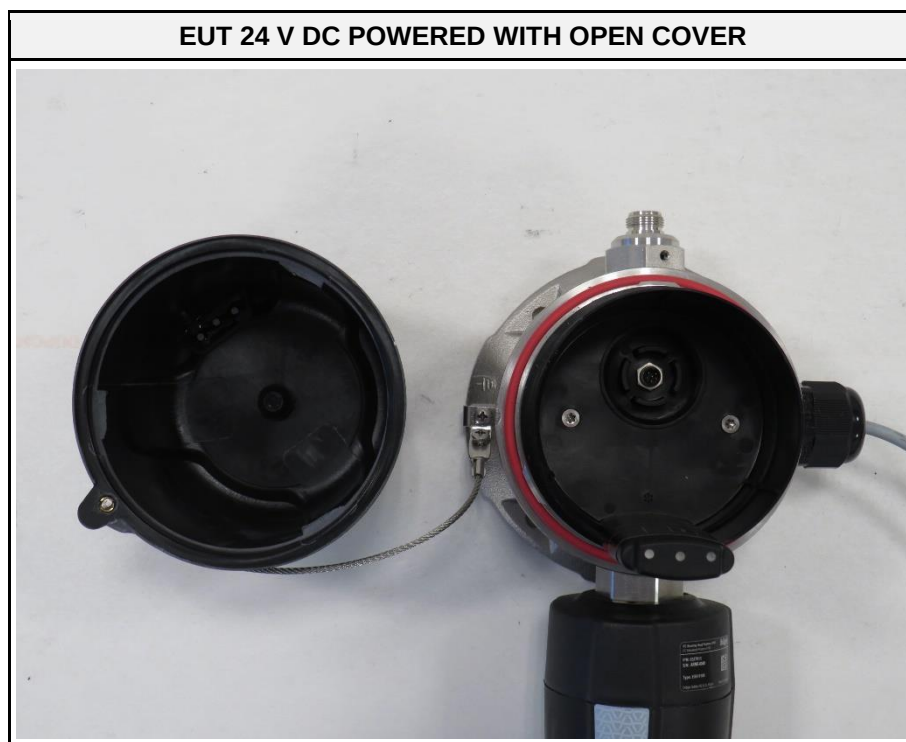
## 1 Equipment (Test Item) Under Test

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                            |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| Description                      | The Polytron 6100 EC WL is a wireless transmitter for continuous monitoring of toxic gases and oxygen. The intrinsically safe and SIL2 rated gas warning transmitter provides wireless signal transmission and power supply. The internal battery pack allows continuous operation for up to 24 months. This makes the Polytron a flexible and cost-efficient solution for plant expansions, upgrades or new installations. |                                                            |
| Model                            | Polytron 6100 EC WL                                                                                                                                                                                                                                                                                                                                                                                                         |                                                            |
| Additional Model(s)              | None                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                            |
| Brand Name(s)                    | None                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                            |
| Serial Number(s)                 | Prototype DUT3 (battery powered)<br>Prototype DUT4 (hard wired)                                                                                                                                                                                                                                                                                                                                                             |                                                            |
| Sample-ID                        | 34488 (battery powered)<br>34490 (hard wired)                                                                                                                                                                                                                                                                                                                                                                               |                                                            |
| Hardware Version(s)              | RC003                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                            |
| Software Version(s)              | Transmitter: P6100 V1.5.0, Centro FW v1.5.02c, Bootloader V2.5.0, SW Telit BLT V3.12.002                                                                                                                                                                                                                                                                                                                                    |                                                            |
| EUT Dimensions [cm]              | 28 x 15 x 13                                                                                                                                                                                                                                                                                                                                                                                                                |                                                            |
| FCC-ID                           | X6O-RC003                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                            |
| IC                               | 5895F-RC003                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                            |
| Class                            | Class B                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                            |
| Equipment type                   | Table top                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                            |
| Highest internal frequency [MHz] | 2483.5 (radio frequency)<br>32.0 (clock frequency)                                                                                                                                                                                                                                                                                                                                                                          |                                                            |
| Radio Module 1                   | Type                                                                                                                                                                                                                                                                                                                                                                                                                        | Bluetooth Low Energy (LE)                                  |
|                                  | Model                                                                                                                                                                                                                                                                                                                                                                                                                       | BlueMod + S42 ATEX                                         |
|                                  | Manufacturer                                                                                                                                                                                                                                                                                                                                                                                                                | Telit Communication                                        |
|                                  | FCC-ID                                                                                                                                                                                                                                                                                                                                                                                                                      | RFRMS42                                                    |
|                                  | IC                                                                                                                                                                                                                                                                                                                                                                                                                          | 4957A-MS42                                                 |
| Radio Module 2                   | Type                                                                                                                                                                                                                                                                                                                                                                                                                        | ZigBee (WHART)                                             |
|                                  | Model                                                                                                                                                                                                                                                                                                                                                                                                                       | Centro LLC                                                 |
|                                  | Manufacturer                                                                                                                                                                                                                                                                                                                                                                                                                | CW24-012                                                   |
|                                  | FCC-ID                                                                                                                                                                                                                                                                                                                                                                                                                      | 2ANDP-CW24-012                                             |
|                                  | IC                                                                                                                                                                                                                                                                                                                                                                                                                          | 23069-CW24012                                              |
| Supply Voltage                   | V <sub>NOM</sub>                                                                                                                                                                                                                                                                                                                                                                                                            | 24.0 V DC<br>14.4 V DC by not rechargeable Lithium battery |
| AC/DC-Adaptor                    | None                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                            |
| Manufacturer                     | Dräger Safety AG & Co. KGaA<br>Revalstraße 1<br>23560 Lübeck<br>GERMANY                                                                                                                                                                                                                                                                                                                                                     |                                                            |

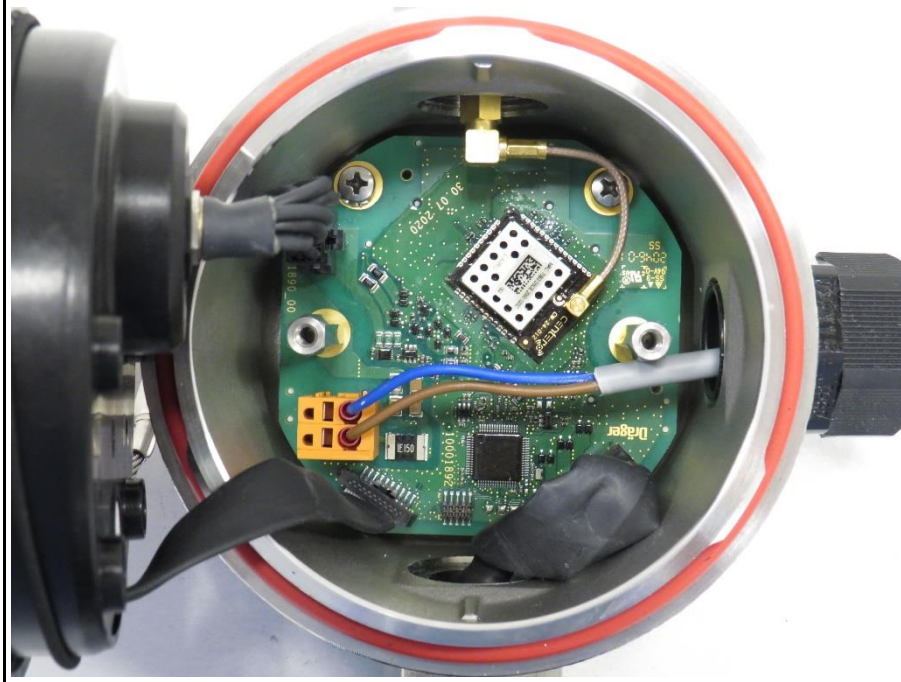
## 1.1 Equipment Ports

| Name         | Type                                              | Attributes                                                                              | Comment                                                                       |
|--------------|---------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| DC Mains     | DC                                                | Count: 1<br>Cable length [m]: >3<br>Direction: In<br>Service only: No<br>Shielded: No   | Rated power between 10 V DC and 30 V DC, if none battery powered              |
| Antenna      | IO                                                | Count: 1<br>Cable length [m]: <20<br>Direction: IO<br>Service only: No<br>Shielded: Yes | Cable length between 0 m and 20 m; Antenna is grounded to earth on both sides |
| Description: |                                                   |                                                                                         |                                                                               |
| AC           | AC mains power input/output port                  |                                                                                         |                                                                               |
| DC           | DC power input/output port                        |                                                                                         |                                                                               |
| BAT          | DC power input port connected to external battery |                                                                                         |                                                                               |
| IO           | Input/Output port                                 |                                                                                         |                                                                               |
| TP           | Telecommunication port                            |                                                                                         |                                                                               |
| NE           | Non-electrical port                               |                                                                                         |                                                                               |

## 1.2 Equipment Photos - Internal



**EUT 24 V DC POWERED WITHOUT BATTERY CASE**



**EUT BATTERY POWERED WITH OPEN COVER AND BATTERY**



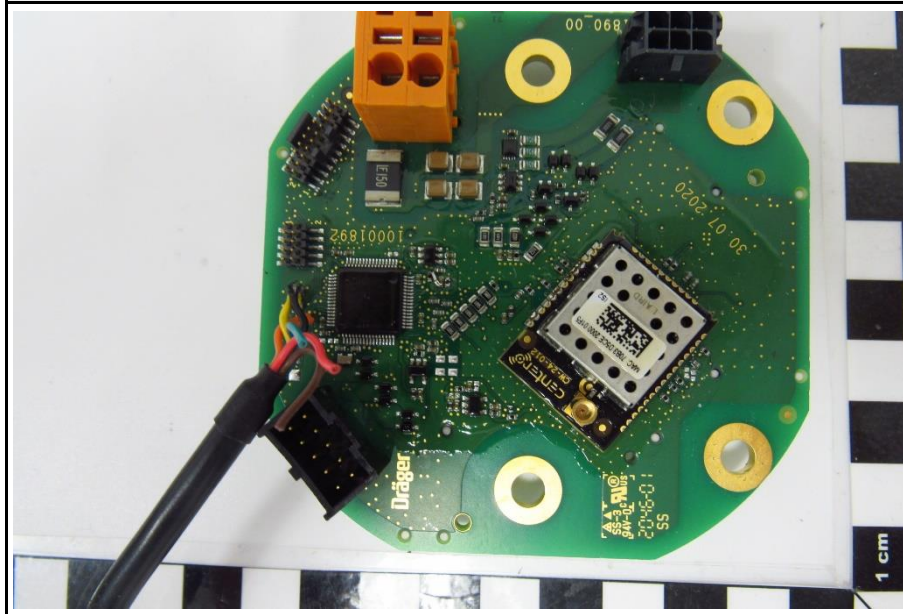
**EUT BATTERY POWERED WITH OPEN COVER AND WITHOUT BATTERY**



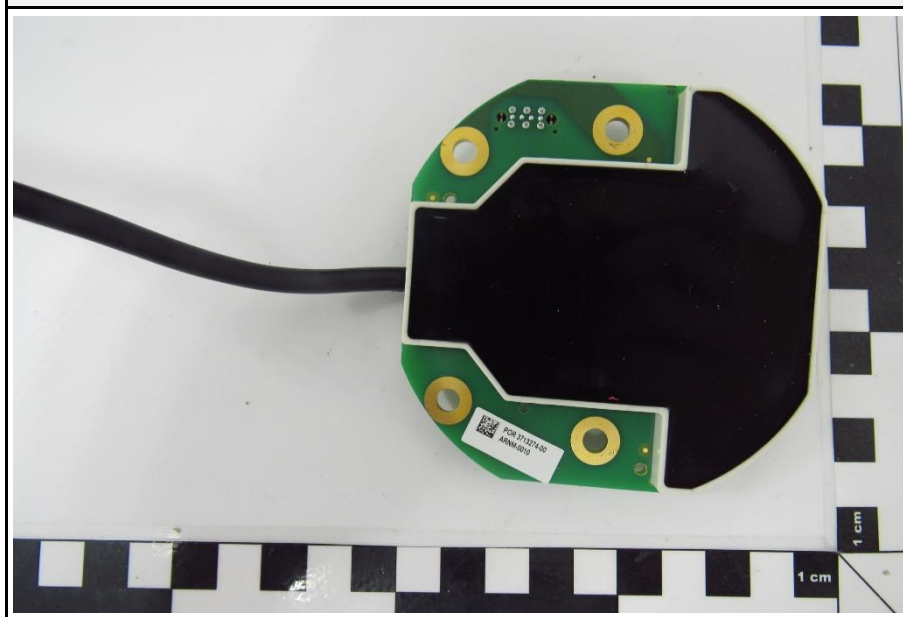
**EUT BATTERY POWERED WITHOUT BATTERY CASE**



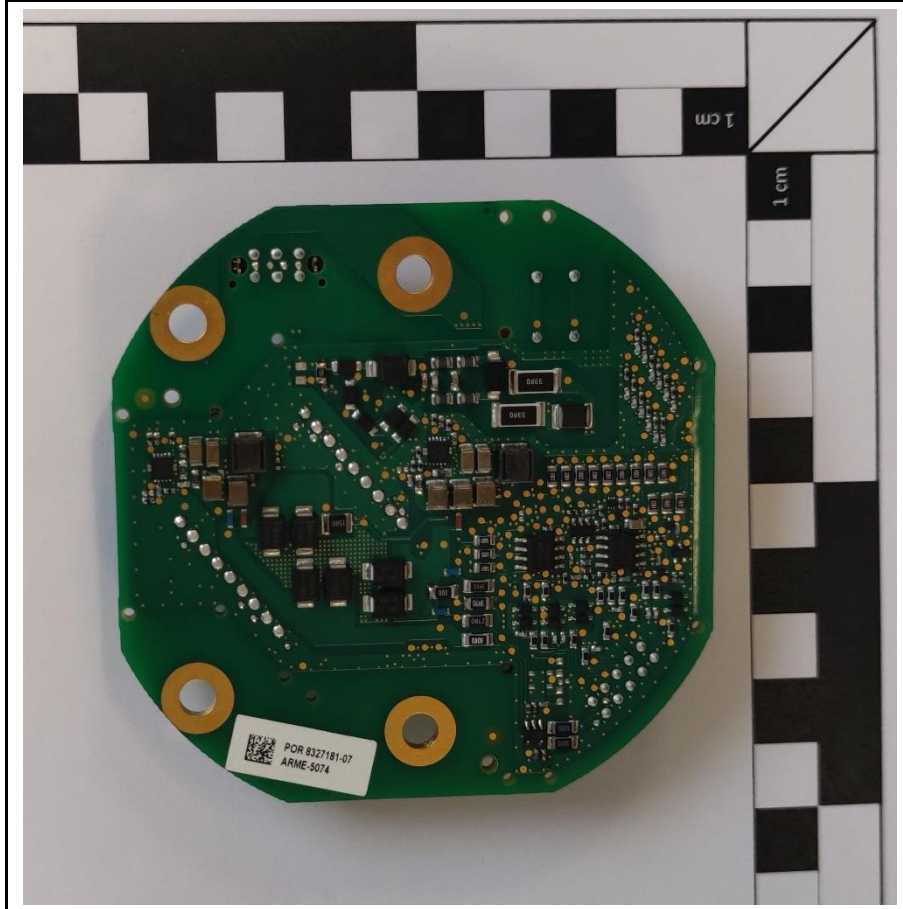
EUT PCB TOP SIDE



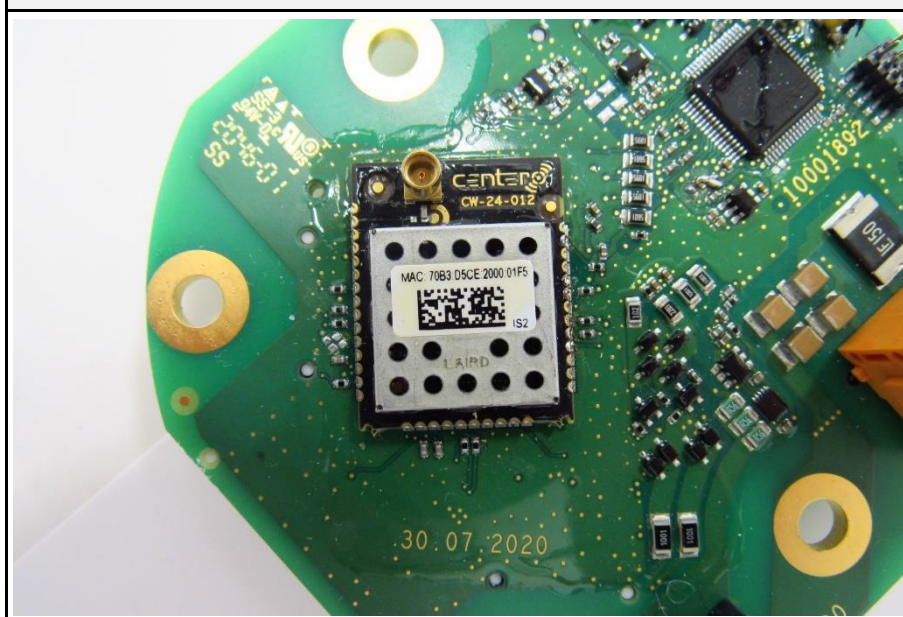
EUT PCB BOTTOM SIDE WITH COVER



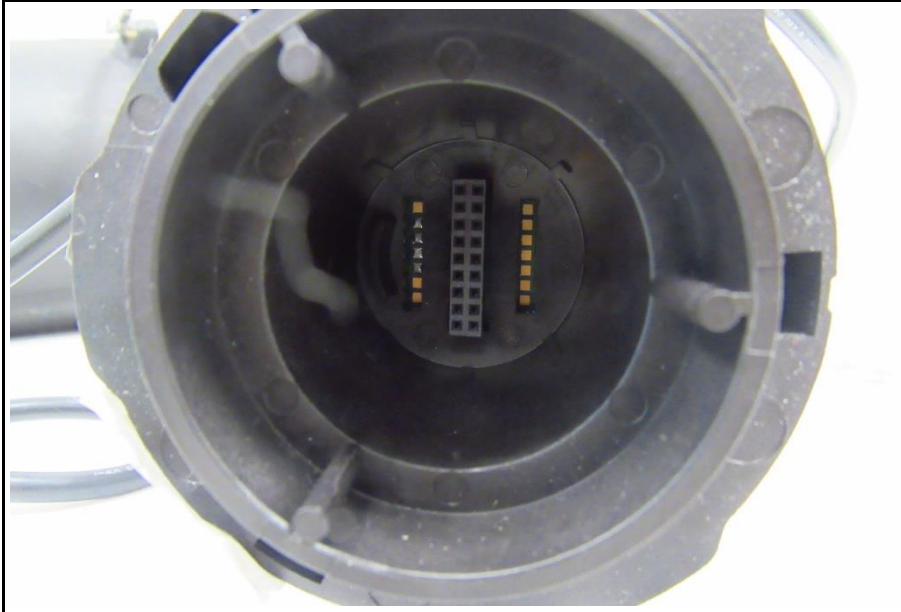
EUT PCB BOTTOM SIDE WITHOUT COVER



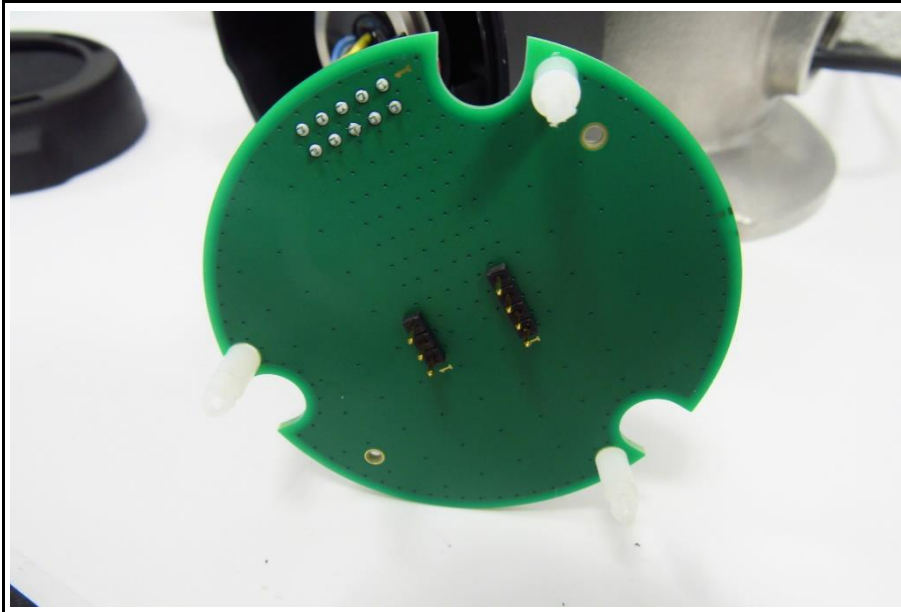
RADIO MODULE



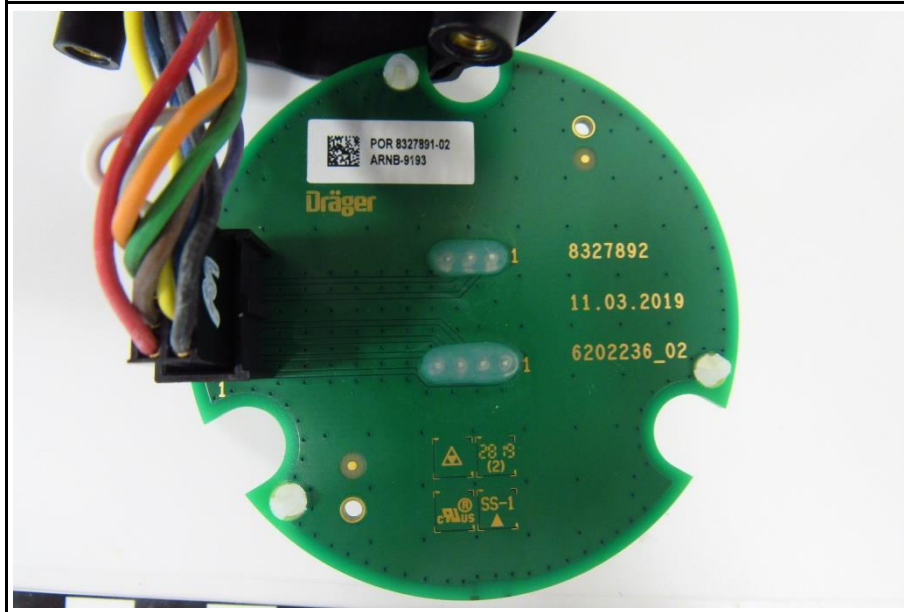
**SENSOR CONNECTOR**



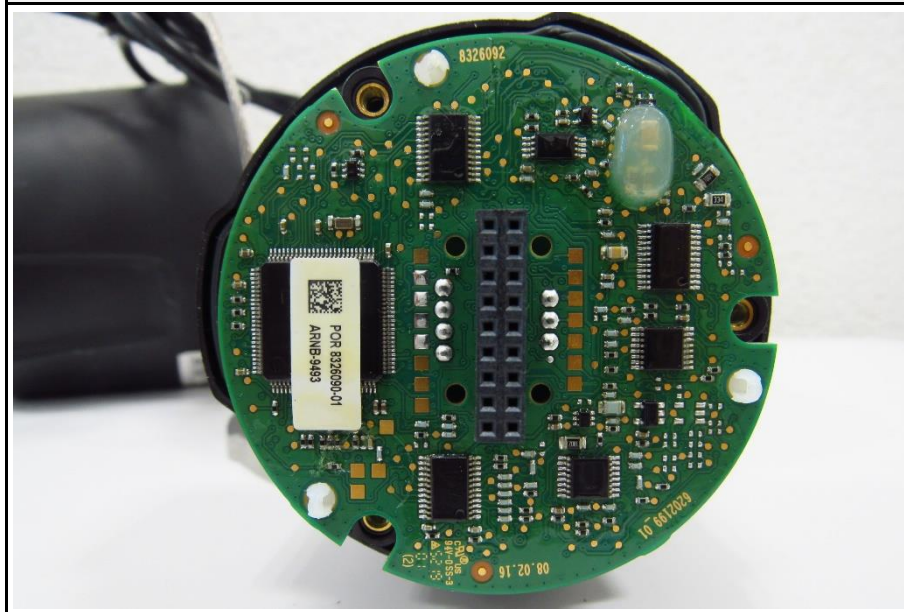
**SENSOR INTERFACE TOP SIDE**



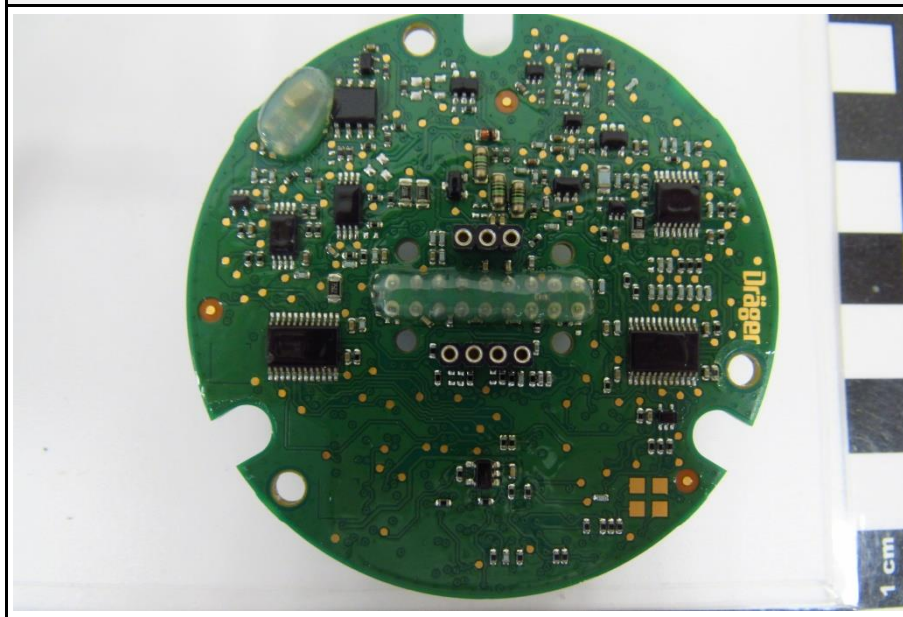
### SENSOR INTERFACE BOTTOM SIDE



### SENSOR LOGIC PCB TOP SIDE



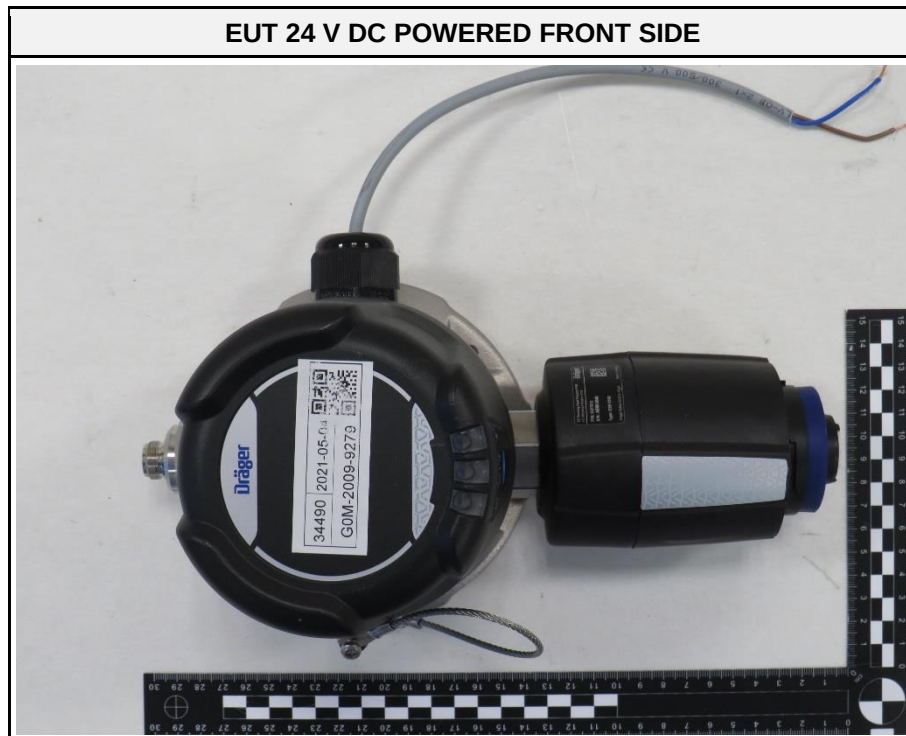
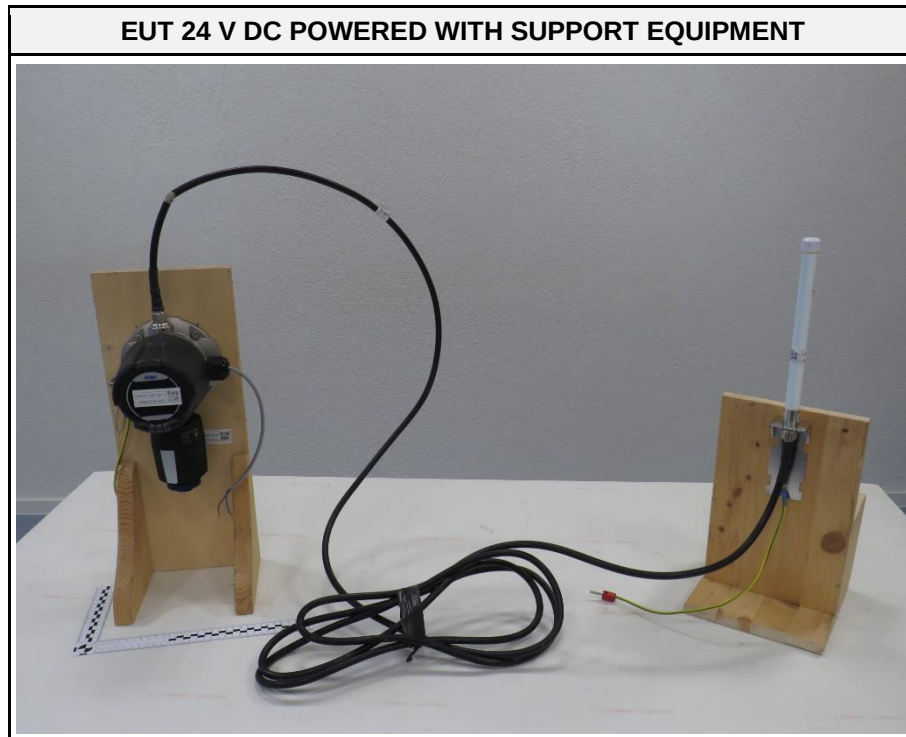
### SENSOR LOGIC PCB BOTTOM SIDE



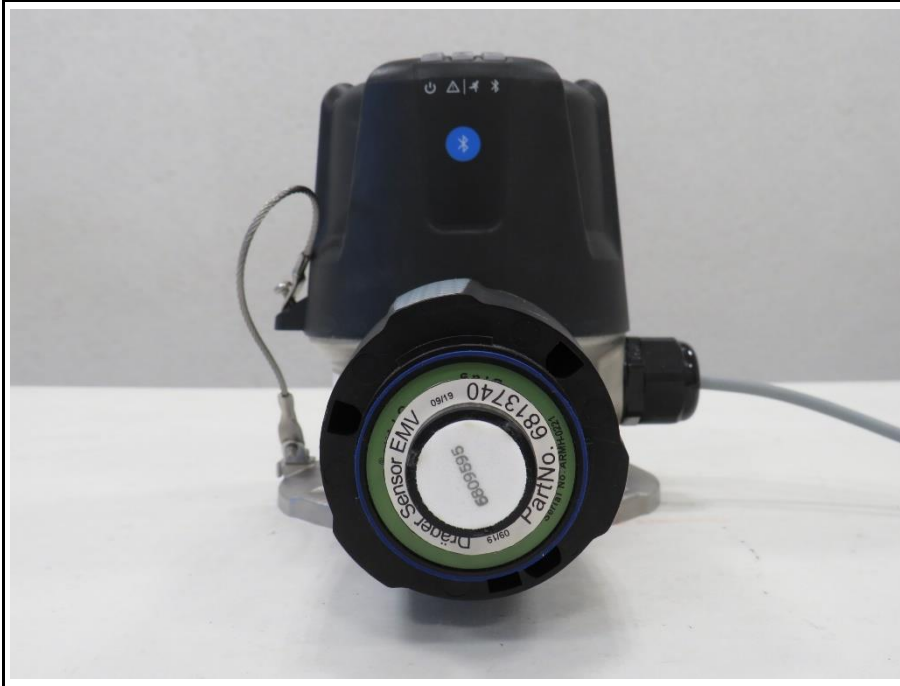
### EUT BATTERY



### 1.3 Equipment Photos - External



EUT 24 V DC POWERED BOTTOM SIDE



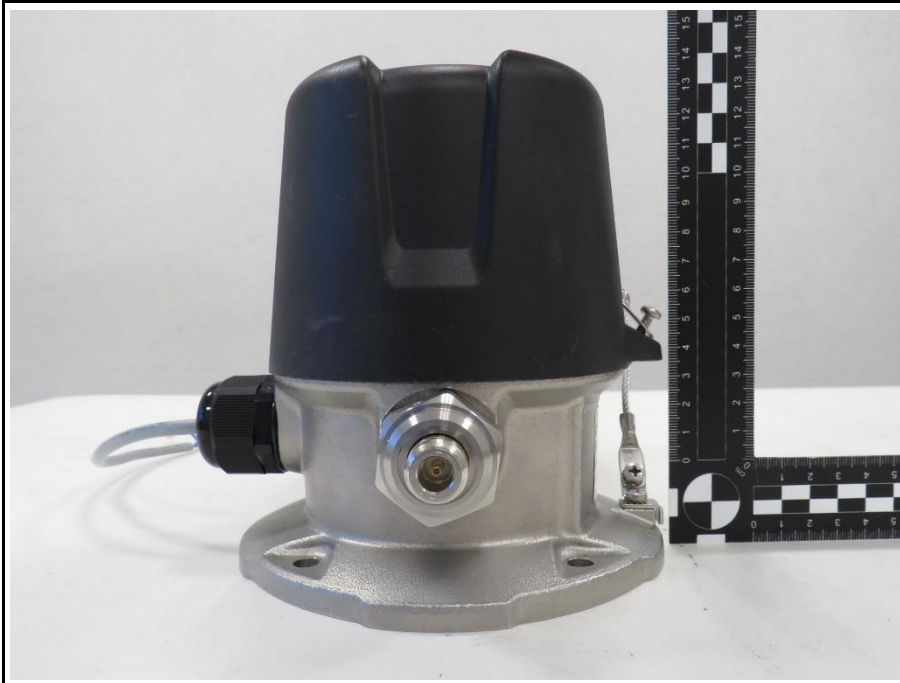
EUT 24 V DC POWERED LEFT SIDE



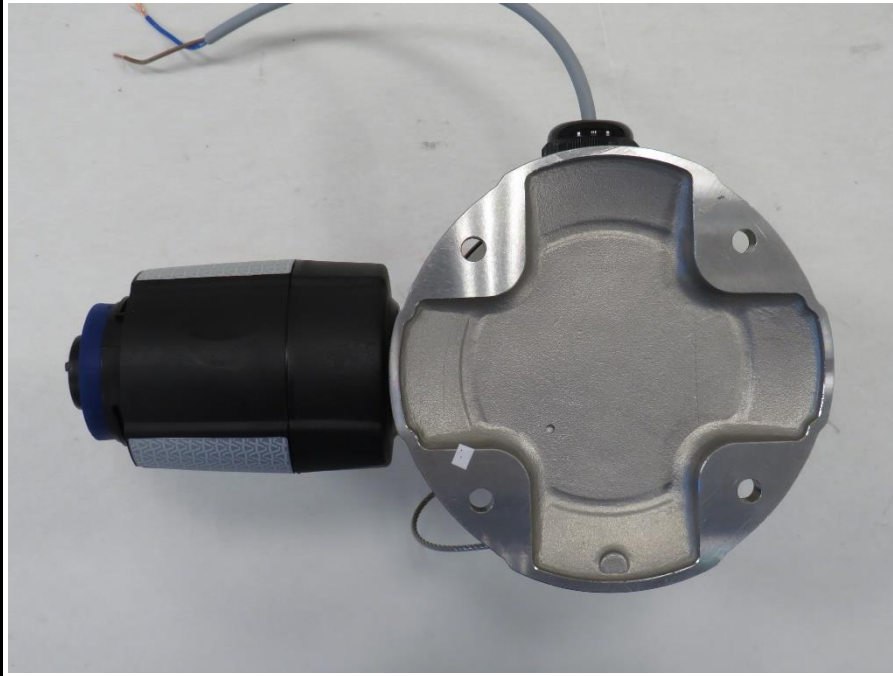
**EUT 24 V DC POWERED RIGHT SIDE**



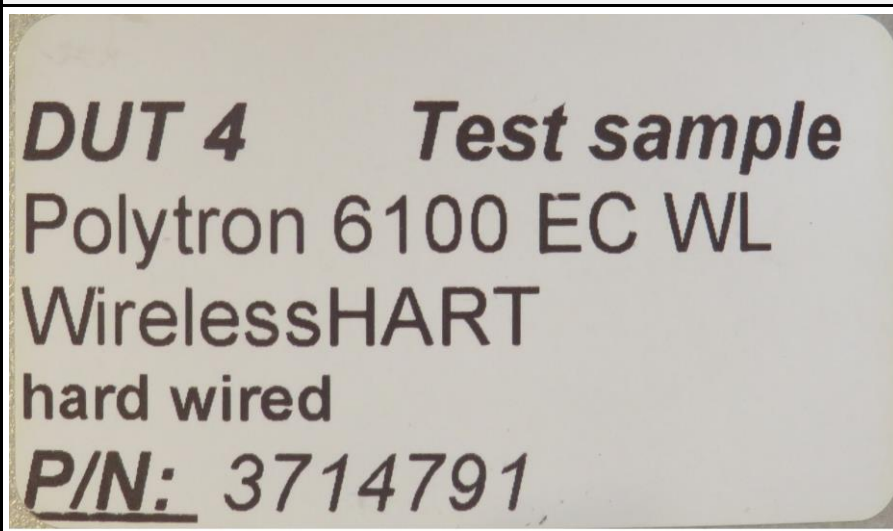
**EUT 24 V DC POWERED TOP SIDE**



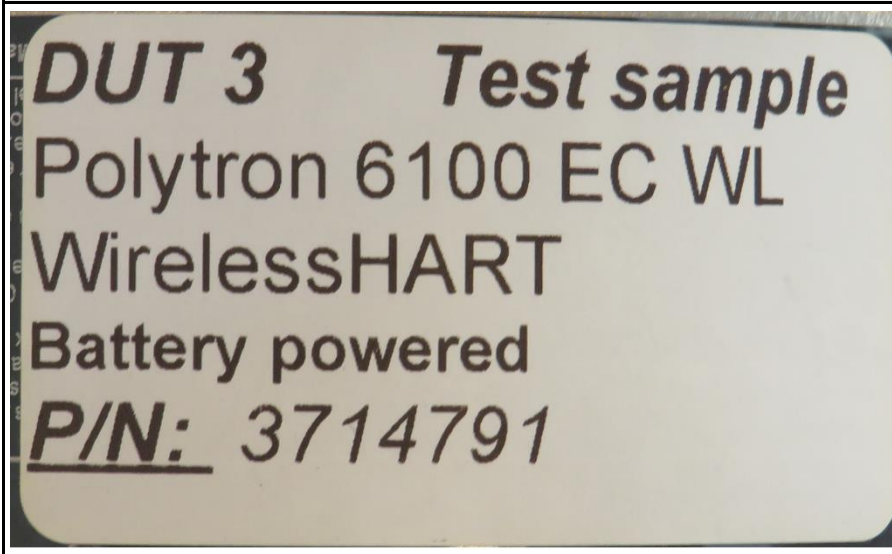
EUT 24 V DC POWERED REAR SIDE



hard wired LABEL



Battery powered LABEL



EUT BATTERY POWERED WITH SUPPORT EQUIPMENT



**EUT BATTERY POWERED IN PERSPECTIVE I**



**EUT BATTERY POWERED IN PERSPECTIVE II**



EUT BATTERY POWERED FRONT SIDE



EUT BATTERY POWERED BOTTOM SIDE



EUT BATTERY POWERED LEFT SIDE



EUT BATTERY POWERED TOP SIDE



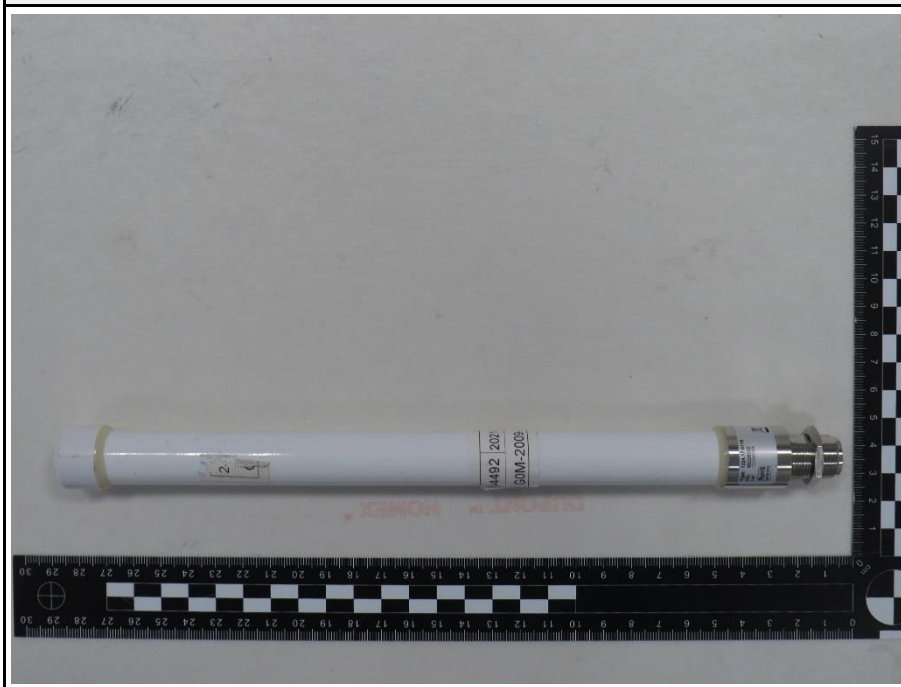
**EUT BATTERY POWERED RIGHT SIDE**



**EUT BATTERY POWERED REAR SIDE**

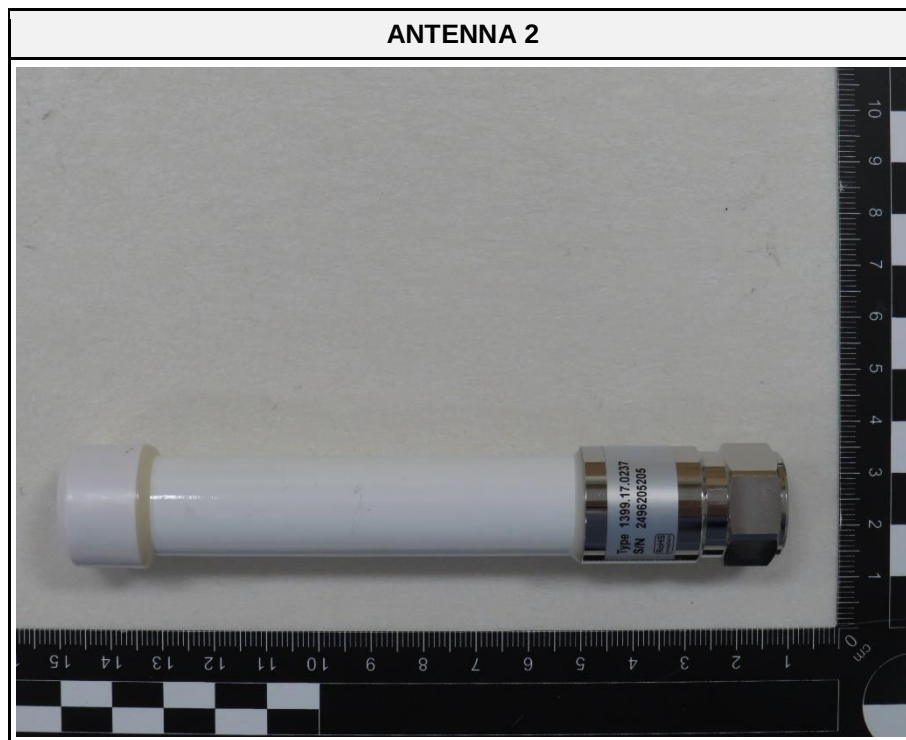


ANTENNA 1



LABEL ANTENNA 1





SENSOR LABEL



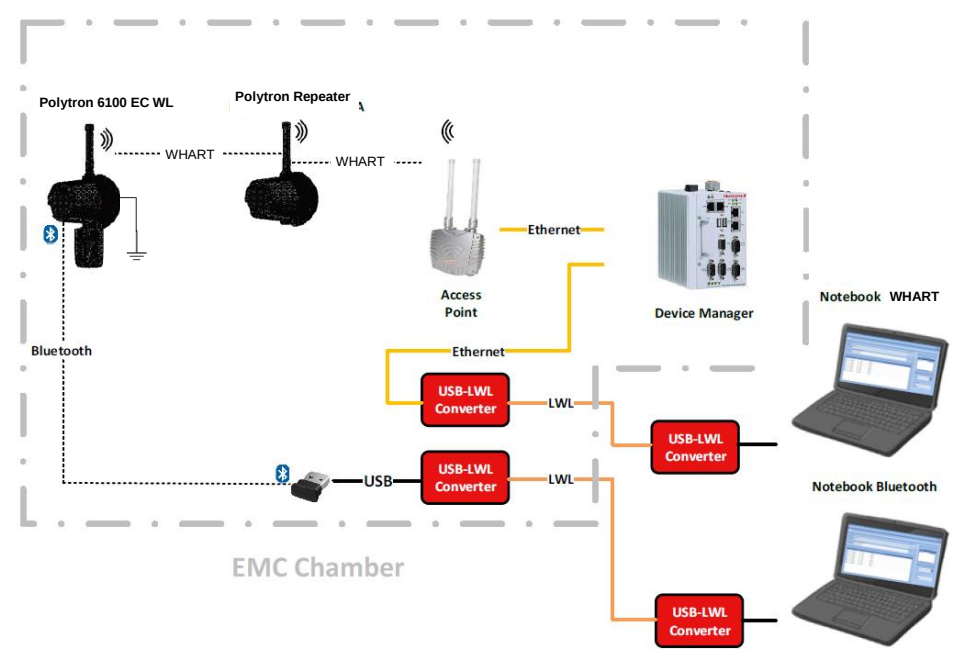
## 1.4 Support Equipment

| Product Type | Device                              | Manufacturer    | Model                                        | Comment                                                        |
|--------------|-------------------------------------|-----------------|----------------------------------------------|----------------------------------------------------------------|
| AE           | Polytron Repeater WirelessHART      | Dräger          | Polytron Repeater WirelessHART               | Repeater for Wireless HART network; Customer Support Equipment |
| AE           | Antenna 1                           | Huber+Suhner    | 1324.17.0114                                 | Customer Support Equipment                                     |
| AE           | Antenna 2                           | Huber+Suhner    | 1399.17.0237                                 | Customer Support Equipment                                     |
| AE           | Honeywell Wireless Device Manager   | Honeywell       | WDMY                                         | Customer Support Equipment                                     |
| AE           | Honeywell Field Device Access Point | Honeywell       | FDAP2                                        | Customer Support Equipment                                     |
| CBL          | Remote Antenna Cable                | Huber+Suhner    | SPUMA 400-FR                                 | 5 m; Customer Support Equipment                                |
| MON          | Laptop                              | Dell            | Latitude 5490                                | Customer Support Equipment                                     |
| AE           | AC/DC-Adaptor                       | Phoenix Contact | 2902991                                      | Customer Support Equipment to provide 24 V DC                  |
| SW           | Honeywell Device Manager Station    | Honeywell       | OneWireless 320.3.2.0                        | Customer Support Equipment for ZigBee monitoring               |
| SW           | GSTERM                              | Dräger          | GasSecure Service Application – v1.75.1.1313 | Customer Support Equipment for Bluetooth LE monitoring         |
| Description: |                                     |                 |                                              |                                                                |
| AE           | Auxiliary Equipment                 |                 |                                              |                                                                |
| SIM          | Simulator                           |                 |                                              |                                                                |
| MON          | Monitoring Equipment                |                 |                                              |                                                                |
| CBL          | Connecting Cable                    |                 |                                              |                                                                |
| SW           | Software                            |                 |                                              |                                                                |
| Comment: --  |                                     |                 |                                              |                                                                |

## 1.5 Operational Modes

| Mode #      | Description                                                                                                                                                                |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1           | EUT sends sensor data every eight seconds to Polytron Repeater WirelessHART via ZigBee (WHART) and status information every one second to Laptop via Bluetooth connection. |
| Comment: -- |                                                                                                                                                                            |

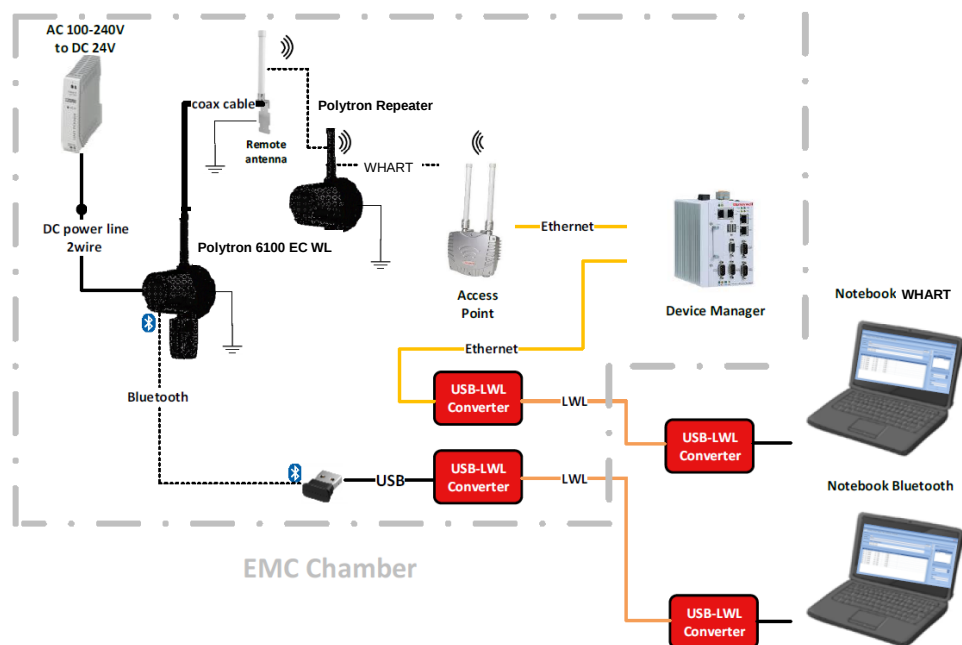
## 1.6 EUT Configuration

| Configuration # | Description                                                                                                                                                                                                                                                               |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1               | <p>EUT powered by 14.4 V DC not rechargeable Lithium battery.<br/> EUT with Antenna 2.<br/> EUT is connected to functional earth (1 m cable length).</p> <p><b>Block diagram:</b></p>  |

2

EUT powered by 24.0 V DC via AC/DC-Adaptor.  
AC/DC-Adaptor powered by 230 V / 50 Hz.  
EUT is connected with Antenna 1 via five-meter Remote Antenna Cable (1 m cable length).  
Remote Antenna Cable and EUT are connected to functional earth (1 m cable length).

**Block diagram:**



Comment: --

## 1.7 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 analyser in dBµV. Any external preamplifiers used are taken into account through internal analyser 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 analyser. 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:

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

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

| Title 47 CFR Part 15B, ISED ICES-003 Issue 7 |                                   |                             |        |         |
|----------------------------------------------|-----------------------------------|-----------------------------|--------|---------|
| Reference                                    | Requirement                       | Reference Method            | Result | Remarks |
| Emission                                     |                                   |                             |        |         |
| FCC 15.109<br>ICES-003, 3.2.2                | Radiated emissions                | ANSI C63.4:2014<br>+A1:2017 | PASS   | --      |
| FCC 15.107<br>ICES-003, 3.2.1                | AC power line conducted emissions | ANSI C63.4:2014<br>+A1:2017 | PASS   | --      |
| Comment:                                     |                                   |                             |        |         |

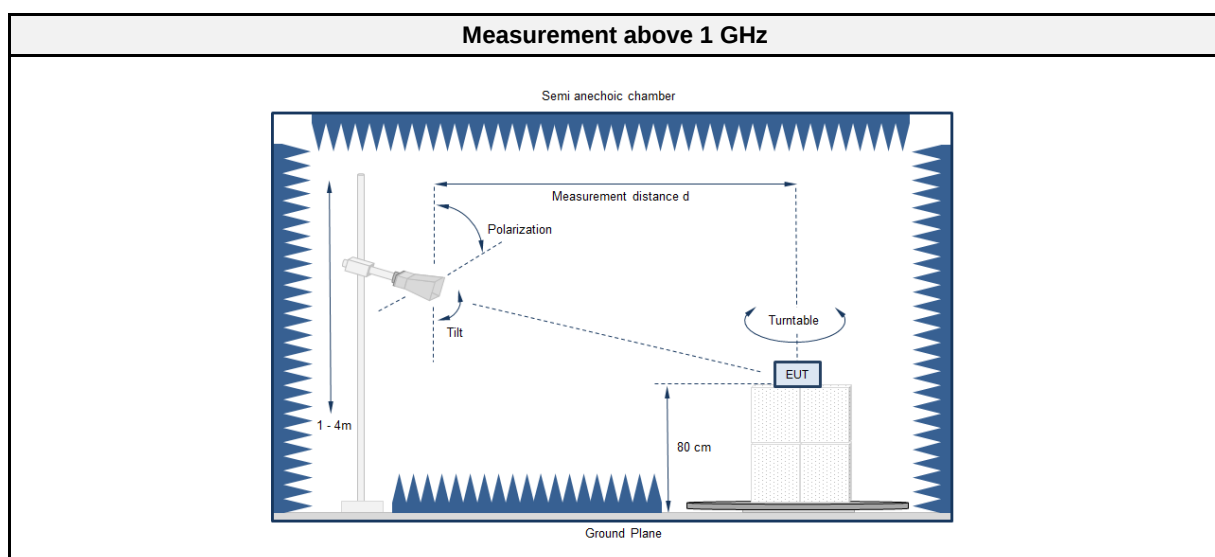
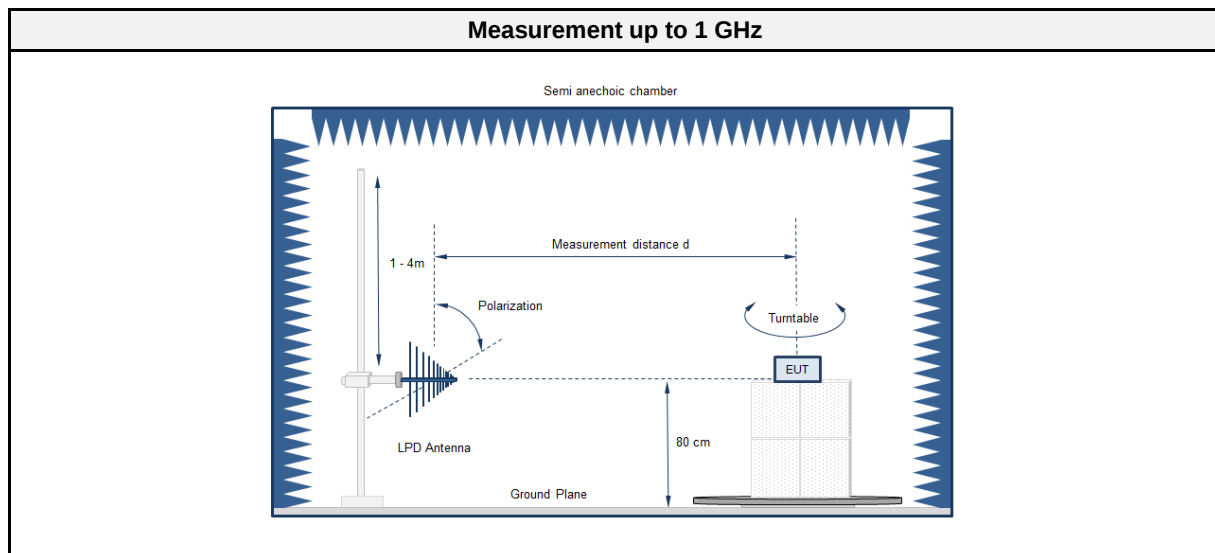
| Possible Test Case Verdicts |                                              |
|-----------------------------|----------------------------------------------|
| PASS                        | Test object does meet the requirements       |
| FAIL                        | Test object does not meet the requirements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

## 2.1 Test Conditions and Results - Radiated emissions acc. to ANSI C63.4

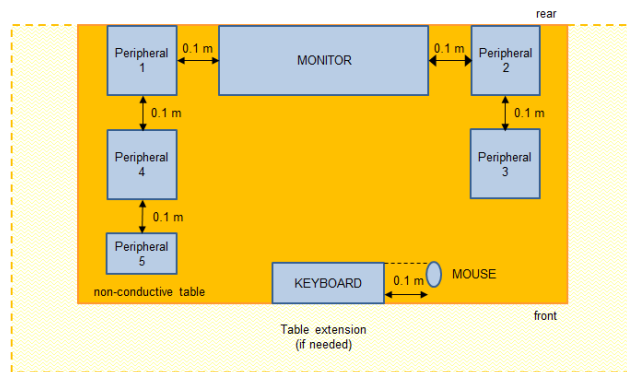
### 2.1.1 Information

| Test Information                 |                                   |
|----------------------------------|-----------------------------------|
| Reference                        | FCC 15.109, ICES-003, 3.2.2       |
| Reference method                 | ANSI C63.4:2014+A1:2017 Section 8 |
| Equipment class                  | Class B                           |
| Equipment type                   | Table top                         |
| Highest internal frequency [MHz] | 2483.5                            |
| Measurement range                | 30 MHz to 13000 MHz               |
| Temperature [°C]                 | 19 – 23                           |
| Humidity [%]                     | 46 – 50                           |
| Operator                         | Stephan Liebich                   |
| Date                             | 2021-09-23                        |

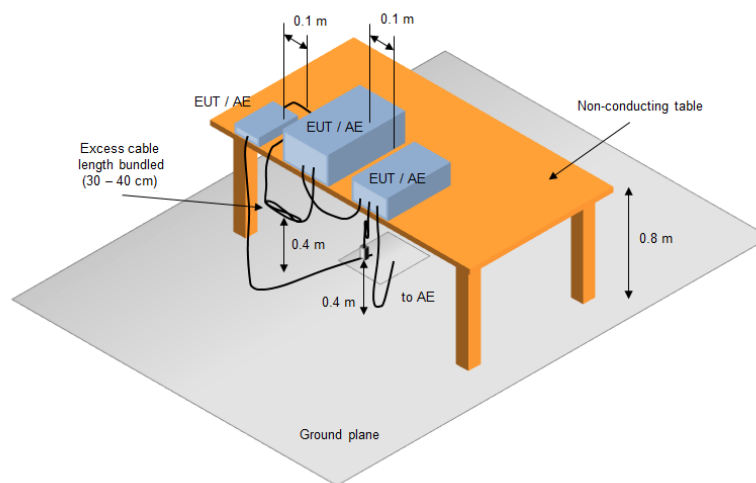
### 2.1.2 Setup



### Equipment placement - Table top



### Test Setup



### 2.1.3 Equipment

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

| Test Equipment           |                                                        |                   |            |           |          |
|--------------------------|--------------------------------------------------------|-------------------|------------|-----------|----------|
| Description              | Manufacturer                                           | Model             | Identifier | Cal. Date | Cal. Due |
| Anechoic chamber (NSA)   | Frankonia                                              | AC1               | EF00062    | 2021-02   | 2024-02  |
| Anechoic chamber (SVSWR) | Frankonia                                              | AC 1              | EF01011    | 2019-06   | 2022-06  |
| Programmable AC Source   | Chroma ATE Inc.                                        | 61604             | EF01068    | 2021-07   | 2022-07  |
| EMI Test Receiver        | Keysight                                               | N9038A-526/WXP    | EF01070    | 2021-07   | 2022-07  |
| Biconical Antenna        | R&S                                                    | HK 116            | EF00030    | 2021-05   | 2024-05  |
| LPD Antenna              | R&S                                                    | HL 223            | EF00187    | 2019-05   | 2022-05  |
| Horn Antenna             | Schwarzbeck                                            | BBHA9120D         | EF00018    | 2019-10   | 2022-10  |
| Programmable AC Source   | Chroma ATE Inc.                                        | 61604             | EF01068    | 2021-07   | 2022-07  |
| Digital Multimeter       | Rohde & Schwarz GmbH & Co. KG - Zentralservice München | HMC8012           | EF01481    | 2021-08   | 2022-08  |
| Climatic Sensor          | Embedded Data Systems, LLC.                            | 2800100000254 17E | EF01054    | 2021-03   | 2022-03  |

### 2.1.4 Procedure

| Exploratory measurement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. The EUT was placed on a non-conductive table at a height of 0.8m.</li> <li>2. The EUT and support equipment, if needed, were set up to simulate typical usage.</li> <li>3. Cables, of type and length specified by the manufacturer, were connected to at least one port of each type and were terminated by a device or simulating load of actual usage.</li> <li>4. The antenna was placed at a distance of 3 or 10 m.</li> <li>5. The received signal was monitored at the measurement receiver.</li> <li>6. This procedure has to be performed in both antenna polarizations, horizontal and vertical.</li> <li>7. The arrangement of the equipment with the maximum emission level is shown on the setup picture at item 2.1.2</li> </ol> |

| Final measurement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. The EUT was placed on a 0.8 m non-conductive table at a 3 m distance from the receive antenna. The antenna output was connected to the measurement receiver.</li> <li>2. A biconical antenna was used for the frequency range 30 – 200 MHz, a logarithmic periodical antenna was used for the frequency range from 200 – 1000 MHz. Above one 1 GHz a Double Ridged Broadband Horn antenna was used. The antenna was placed on an adjustable height antenna mast.</li> <li>3. The EUT and cable arrangement were based on the exploratory measurement results.</li> <li>4. Emissions were maximized at each frequency by rotating the EUT and adjusting the receive antenna height and polarization. The maximum values were recorded.</li> <li>5. The test data of the worst-case conditions were recorded and shown on the next pages.</li> </ol> |

### 2.1.5 Limits

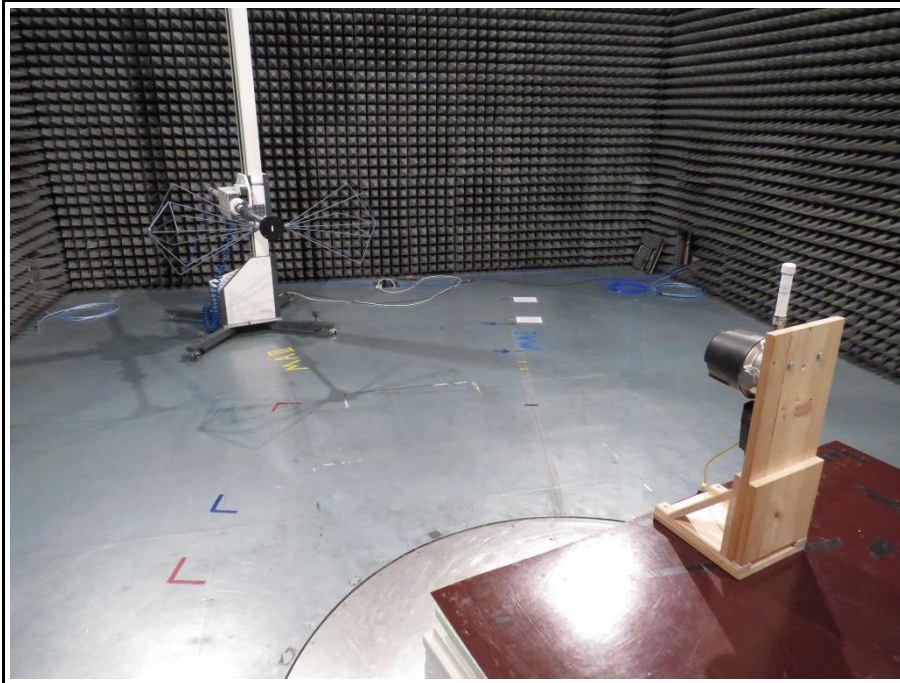
| Class B @ 3 m      |            |                         |
|--------------------|------------|-------------------------|
| Frequency<br>[MHz] | Detector   | Limit<br>[dB $\mu$ V/m] |
| 30 - 88            | Quasi-peak | 40                      |
| 88 - 216           | Quasi-peak | 43.5                    |
| 216 - 960          | Quasi-peak | 46                      |
| 960 - 1000         | Quasi-peak | 54                      |
| > 1000             | Peak       | 74                      |
|                    | Average    | 54                      |

### 2.1.6 Results

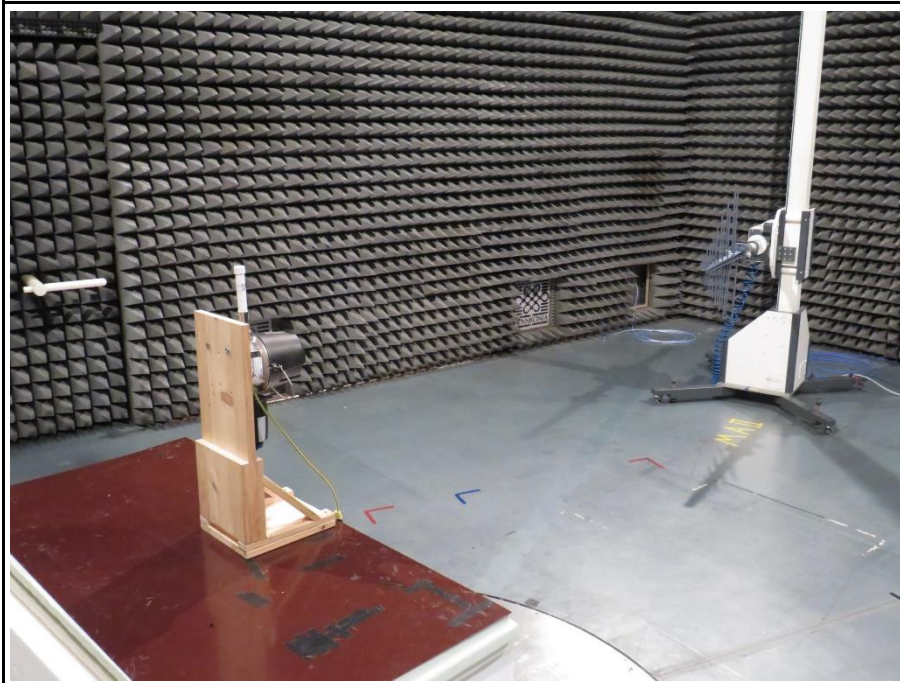
| Test Results     |                   |         |        |
|------------------|-------------------|---------|--------|
| Operational mode | EUT Configuration | Verdict | Remark |
| 1                | 1                 | PASS    | --     |
| 1                | 2                 | PASS    | --     |

### 2.1.7 Setup Photos

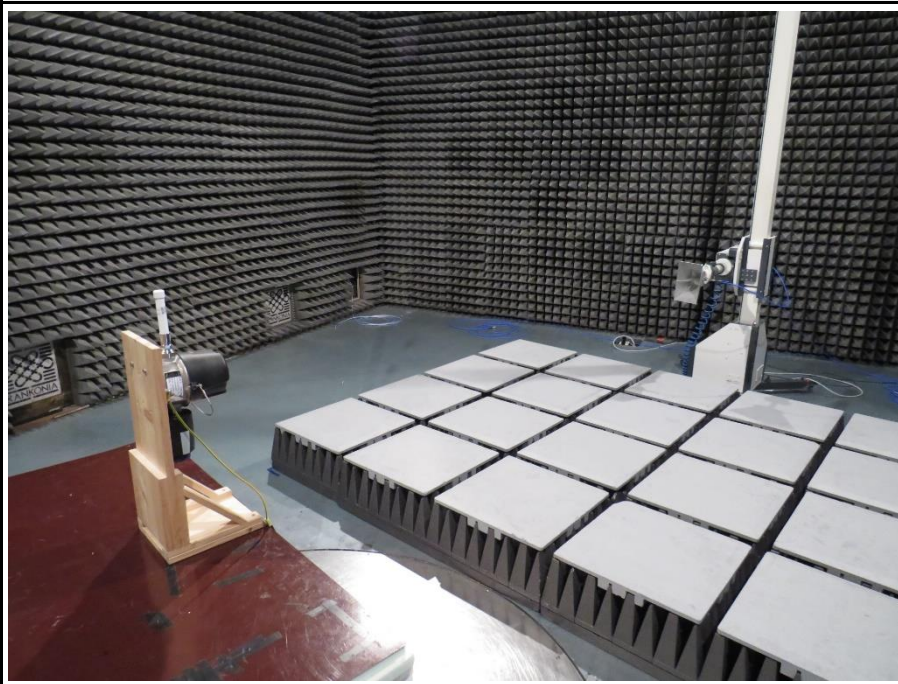
**RADIATED EMISSION- 30 MHz to 200 MHz - CONFIGURATION 1**



**RADIATED EMISSION- 200 MHz to 1 GHz - CONFIGURATION 1**



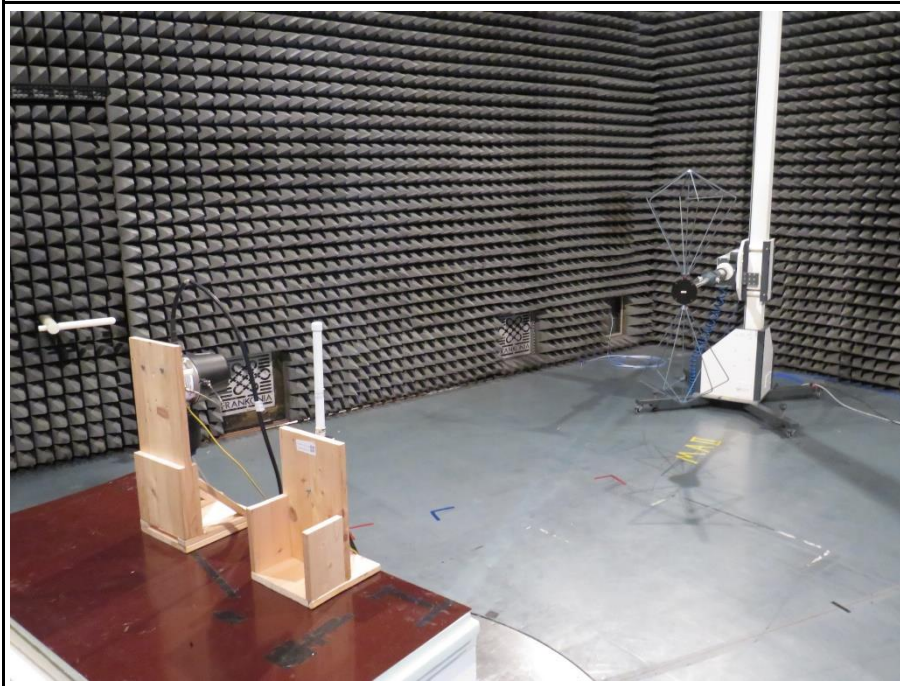
**RADIATED EMISSION- 1 GHz to 13 GHz - CONFIGURATION 1**



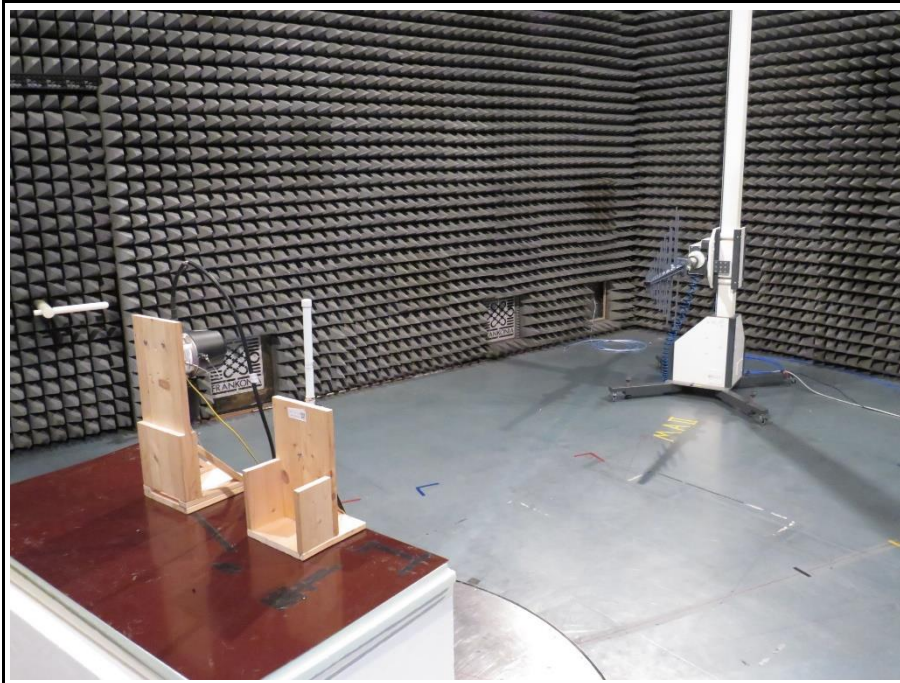
**RADIATED EMISSION- FOCUS - CONFIGURATION 1**



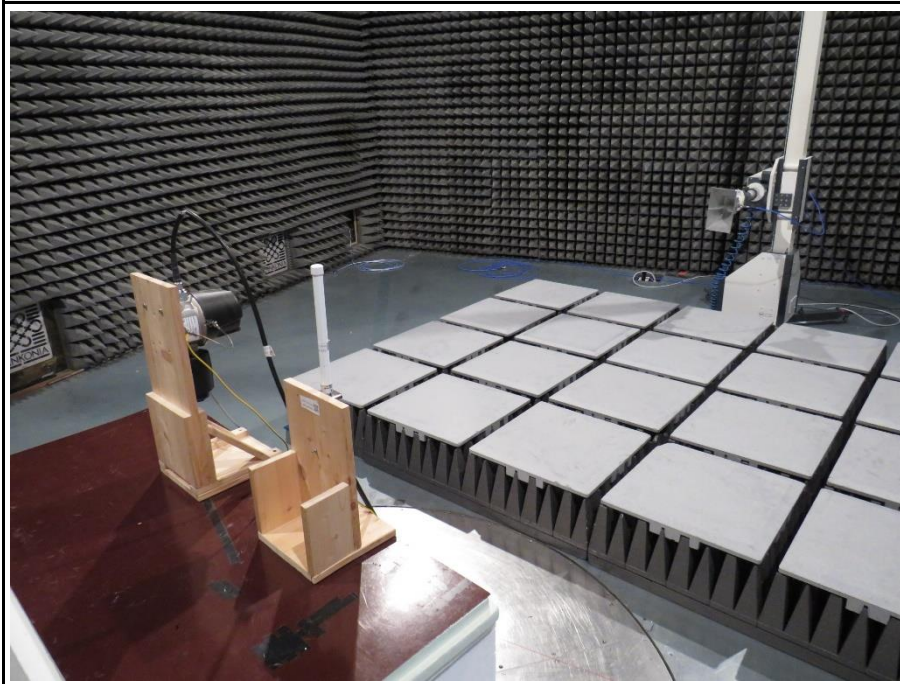
**RADIATED EMISSION- 30 MHz to 200 MHz - CONFIGURATION 2**



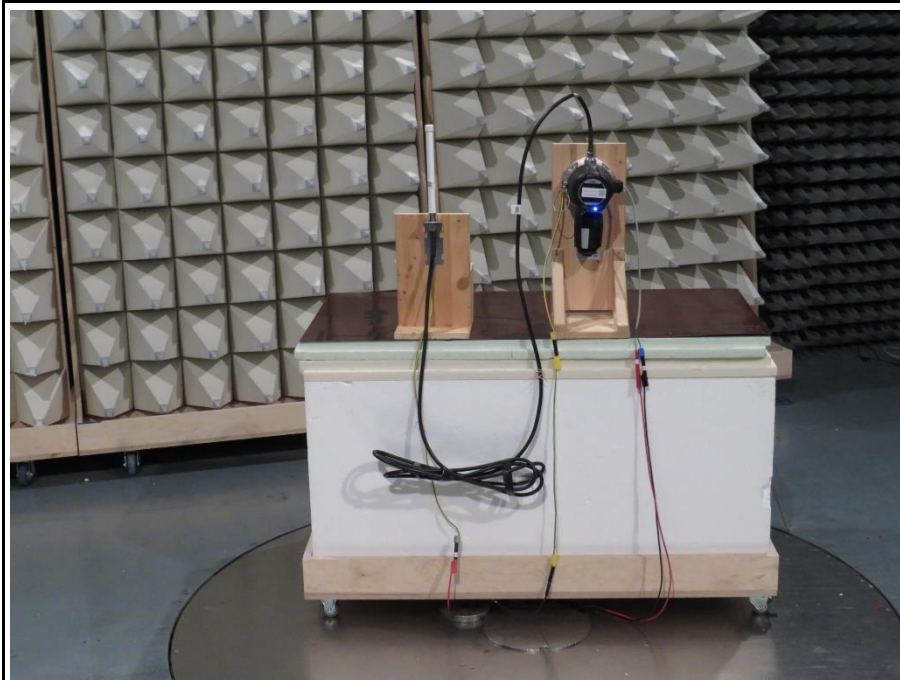
**RADIATED EMISSION- 200 MHz to 1 GHz - CONFIGURATION 2**



**RADIATED EMISSION- 1 GHz to 13 GHz - CONFIGURATION 2**



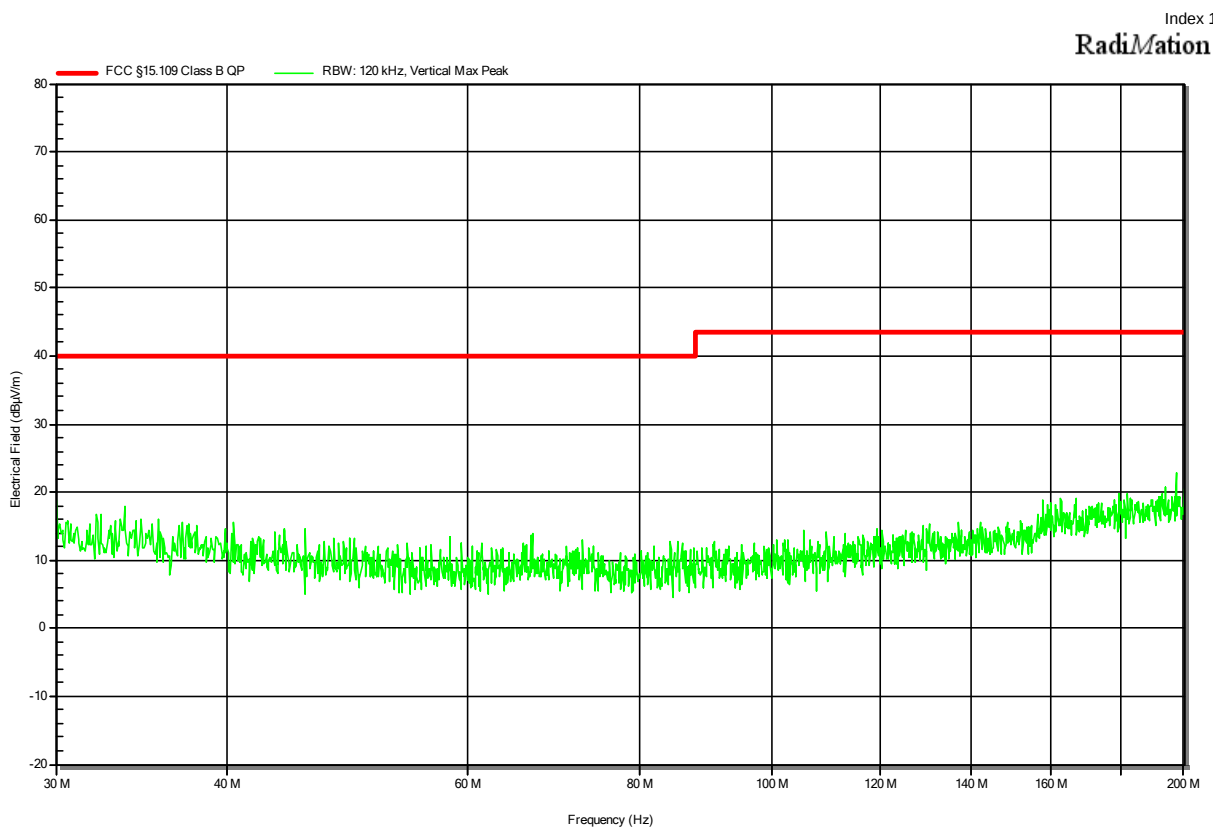
**RADIATED EMISSION- FOCUS - CONFIGURATION 2**



## 2.1.8 Records

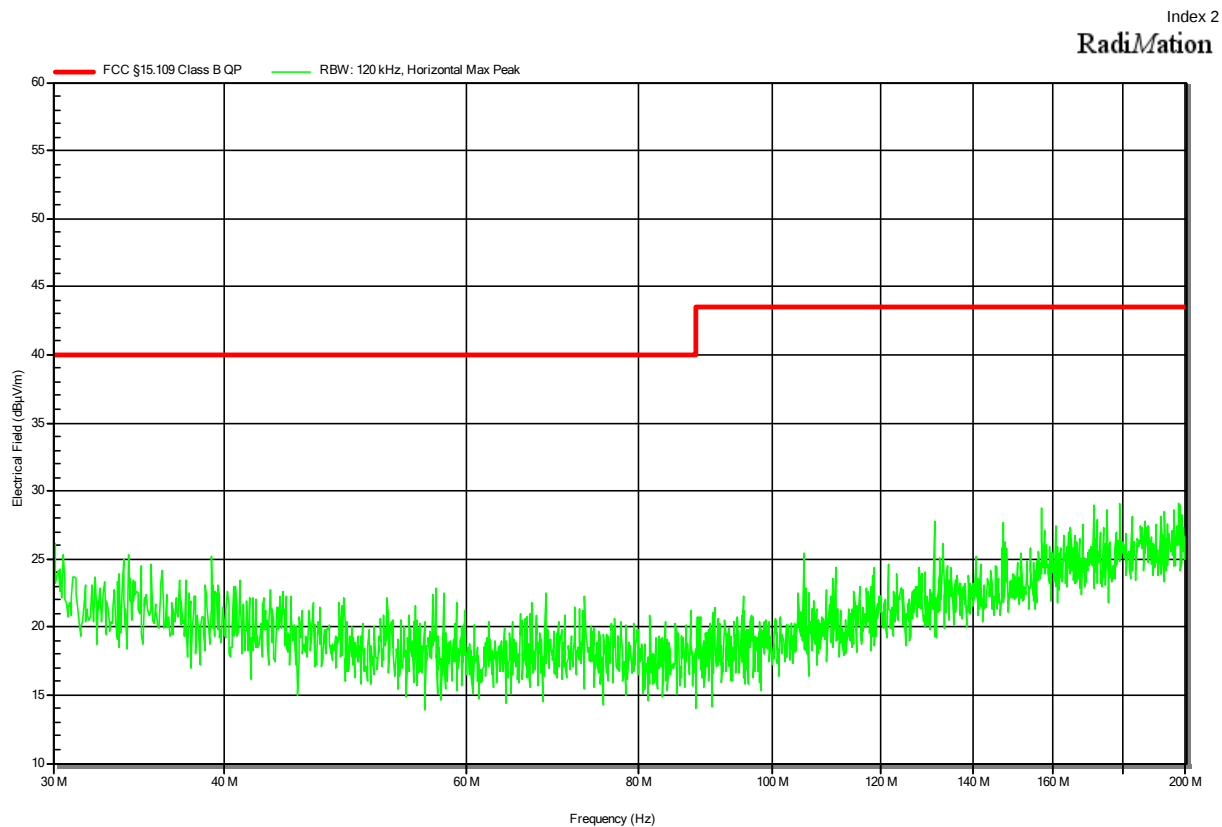
**Radiated emissions  
according to FCC part 15B**

|                                          |                                                                                                |
|------------------------------------------|------------------------------------------------------------------------------------------------|
| Project Number:                          | G0M-2103-9685                                                                                  |
| Applicant:                               | Dräger Safety AG & Co. KGaA                                                                    |
| Model Description:                       | Fixed Gas Detector                                                                             |
| Model:                                   | Polytron 6100 EC WL                                                                            |
| Test Sample ID:                          | 34488                                                                                          |
| Test Site:                               | Eurofins Product Service GmbH                                                                  |
| Operator:                                | Mr. Liebich                                                                                    |
| Test Date:                               | 2021-09-23                                                                                     |
| Operating Conditions:                    | ambient temperature: 20 °Celsius<br>power input: 14.4 V DC by not rechargeable Lithium battery |
| Antenna:                                 | Rohde & Schwarz HK 116, Vertical                                                               |
| Measurement Distance:                    | 3m                                                                                             |
| Operational Mode &<br>EUT Configuration: | Mode 1<br>Configuration 1                                                                      |
| Note 1:                                  | --                                                                                             |



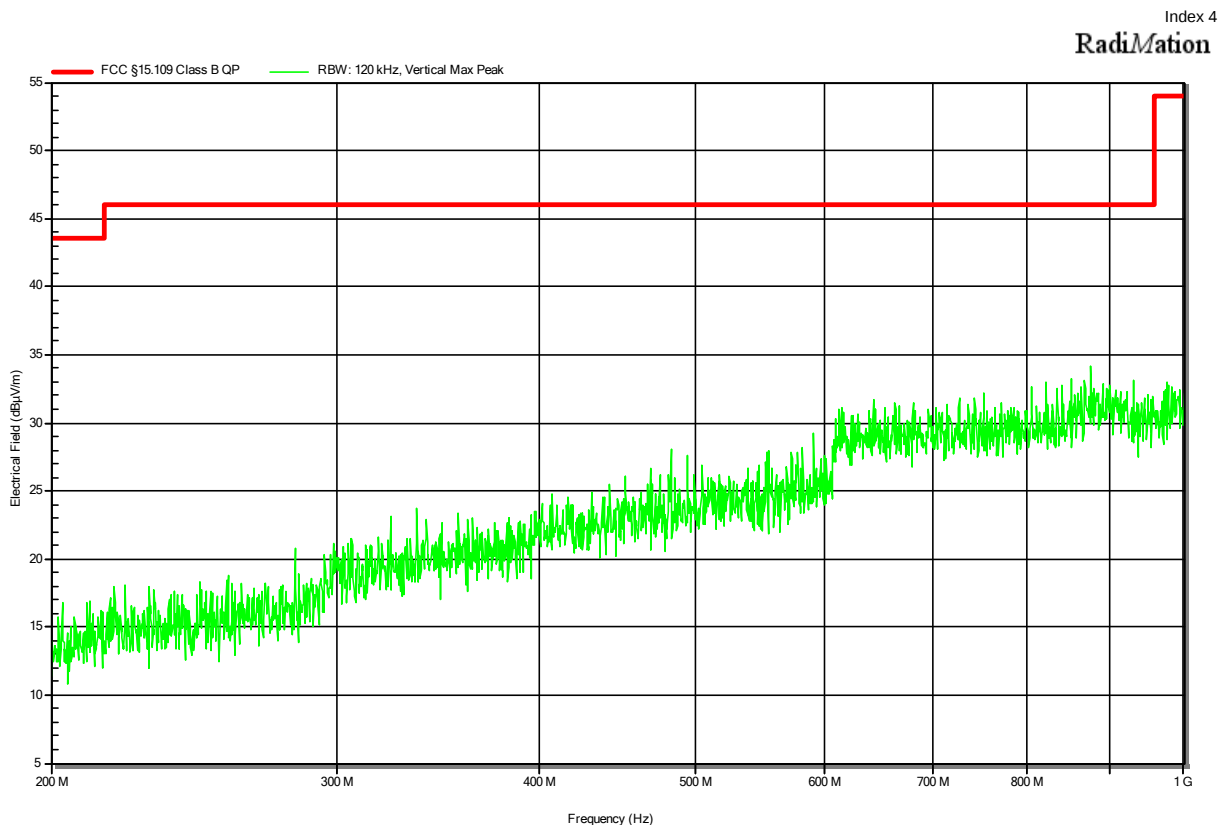
# Radiated emissions according to FCC part 15B

|                                          |                                                                                                |
|------------------------------------------|------------------------------------------------------------------------------------------------|
| Project Number:                          | G0M-2103-9685                                                                                  |
| Applicant:                               | Dräger Safety AG & Co. KGaA                                                                    |
| Model Description:                       | Fixed Gas Detector                                                                             |
| Model:                                   | Polytron 6100 EC WL                                                                            |
| Test Sample ID:                          | 34488                                                                                          |
| Test Site:                               | Eurofins Product Service GmbH                                                                  |
| Operator:                                | Mr. Liebich                                                                                    |
| Test Date:                               | 2021-09-23                                                                                     |
| Operating Conditions:                    | ambient temperature: 20 °Celsius<br>power input: 14.4 V DC by not rechargeable Lithium battery |
| Antenna:                                 | Rohde & Schwarz HK 116, Horizontal                                                             |
| Measurement Distance:                    | 3m                                                                                             |
| Operational Mode &<br>EUT Configuration: | Mode 1<br>Configuration 1                                                                      |
| Note 1:                                  | --                                                                                             |



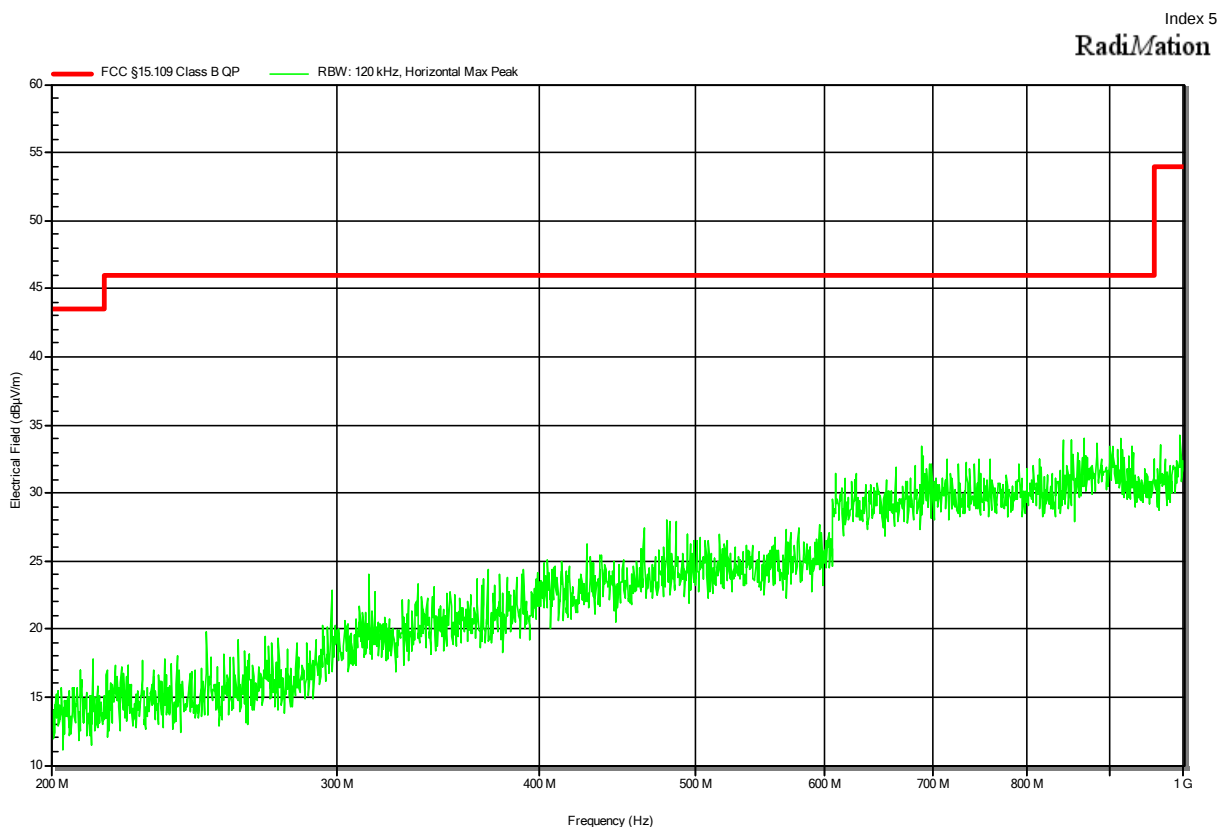
**Radiated emissions  
according to FCC part 15B**

|                                          |                                                                                                |
|------------------------------------------|------------------------------------------------------------------------------------------------|
| Project Number:                          | G0M-2103-9685                                                                                  |
| Applicant:                               | Dräger Safety AG & Co. KGaA                                                                    |
| Model Description:                       | Fixed Gas Detector                                                                             |
| Model:                                   | Polytron 6100 EC WL                                                                            |
| Test Sample ID:                          | 34488                                                                                          |
| Test Site:                               | Eurofins Product Service GmbH                                                                  |
| Operator:                                | Mr. Liebich                                                                                    |
| Test Date:                               | 2021-09-23                                                                                     |
| Operating Conditions:                    | ambient temperature: 20 °Celsius<br>power input: 14.4 V DC by not rechargeable Lithium battery |
| Antenna:                                 | Rohde & Schwarz HL 223, Vertical                                                               |
| Measurement Distance:                    | 3m                                                                                             |
| Operational Mode &<br>EUT Configuration: | Mode 1<br>Configuration 1                                                                      |
| Note 1:                                  | --                                                                                             |



**Radiated emissions  
according to FCC part 15B**

|                                          |                                                                                                |
|------------------------------------------|------------------------------------------------------------------------------------------------|
| Project Number:                          | G0M-2103-9685                                                                                  |
| Applicant:                               | Dräger Safety AG & Co. KGaA                                                                    |
| Model Description:                       | Fixed Gas Detector                                                                             |
| Model:                                   | Polytron 6100 EC WL                                                                            |
| Test Sample ID:                          | 34488                                                                                          |
| Test Site:                               | Eurofins Product Service GmbH                                                                  |
| Operator:                                | Mr. Liebich                                                                                    |
| Test Date:                               | 2021-09-23                                                                                     |
| Operating Conditions:                    | ambient temperature: 20 °Celsius<br>power input: 14.4 V DC by not rechargeable Lithium battery |
| Antenna:                                 | Rohde & Schwarz HL 223, Horizontal                                                             |
| Measurement Distance:                    | 3m                                                                                             |
| Operational Mode &<br>EUT Configuration: | Mode 1<br>Configuration 1                                                                      |
| Note 1:                                  | --                                                                                             |

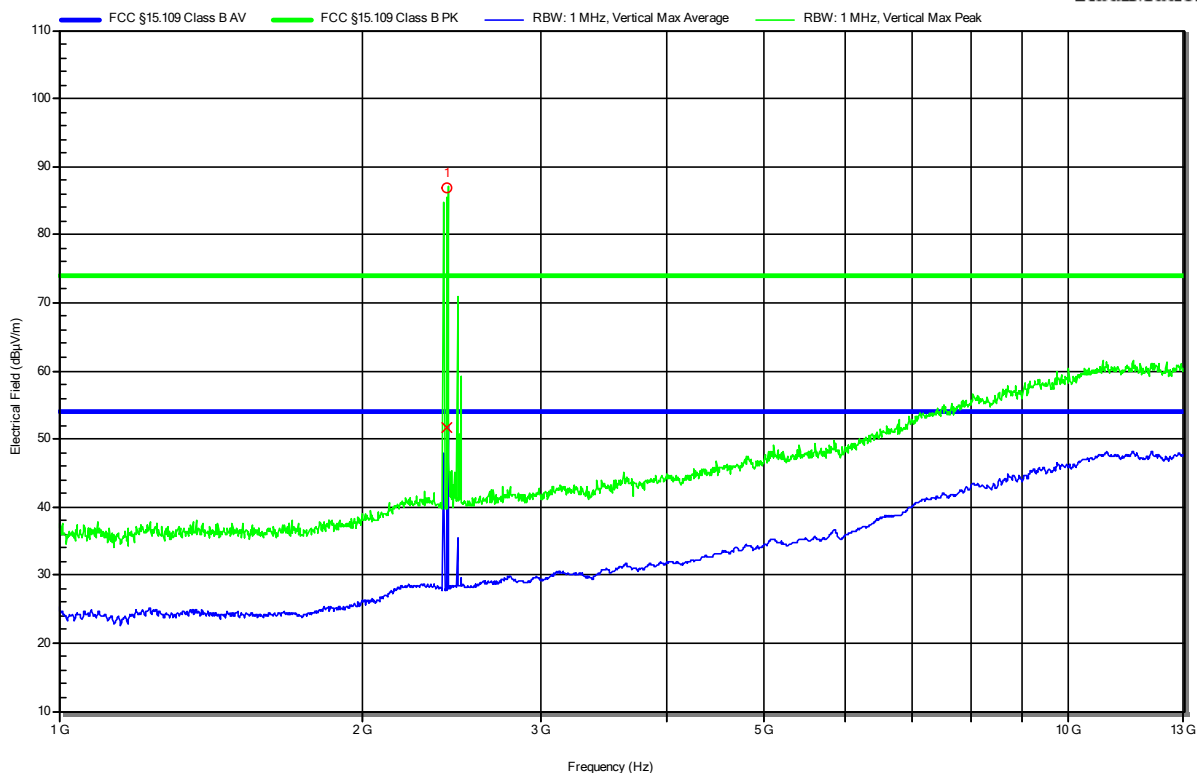


# Radiated emissions according to FCC part 15B

Project Number: G0M-2103-9685  
Applicant: Dräger Safety AG & Co. KGaA  
Model Description: Fixed Gas Detector  
Model: Polytron 6100 EC WL  
Test Sample ID: 34488  
Test Site: Eurofins Product Service GmbH  
Operator: Mr. Liebich  
Test Date: 2021-09-23  
Operating Conditions: ambient temperature: 20 °Celsius  
power input: 14.4 V DC by not rechargeable Lithium battery  
Antenna: Schwarzbeck BBHA 9120D, Vertical  
Measurement Distance: 3m  
Operational Mode & EUT Configuration: Mode 1  
Configuration 1  
Note 1: --

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**RadiMation**



| Peak Number | Frequency | Peak          | Peak Limit    | Peak Difference    | Peak Status    | Angle | Height |
|-------------|-----------|---------------|---------------|--------------------|----------------|-------|--------|
| 1           | 2.426 GHz | Radio-Carrier |               |                    |                |       |        |
| Peak Number | Frequency | Average       | Average Limit | Average Difference | Average Status | Angle | Height |
| 1           | 2.426 GHz | Radio-Carrier |               |                    |                |       |        |

Test Report No.: G0M-2103-9685-EF0115B-V01

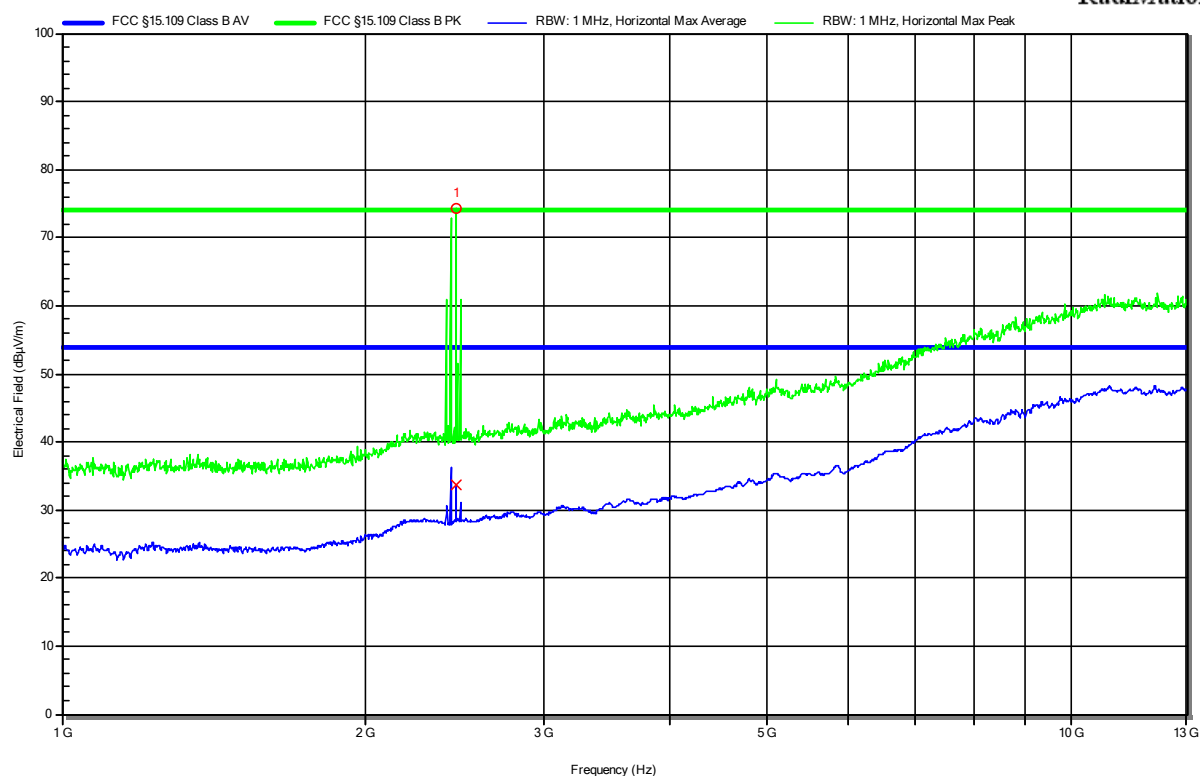
Eurofins Product Service GmbH  
Storkower Str. 38c, D-15526 Reichenwalde, Germany

# Radiated emissions according to FCC part 15B

Project Number: G0M-2103-9685  
Applicant: Dräger Safety AG & Co. KGaA  
Model Description: Fixed Gas Detector  
Model: Polytron 6100 EC WL  
Test Sample ID: 34488  
Test Site: Eurofins Product Service GmbH  
Operator: Mr. Liebich  
Test Date: 2021-09-23  
Operating Conditions: ambient temperature: 20 °Celsius  
power input: 14.4 V DC by **not rechargeable** Lithium battery  
Antenna: Schwarzbeck BBHA 9120D, Horizontal  
Measurement Distance: 3m  
Operational Mode & EUT Configuration: Mode 1  
Configuration 1  
Note 1: --

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**RadiMation**



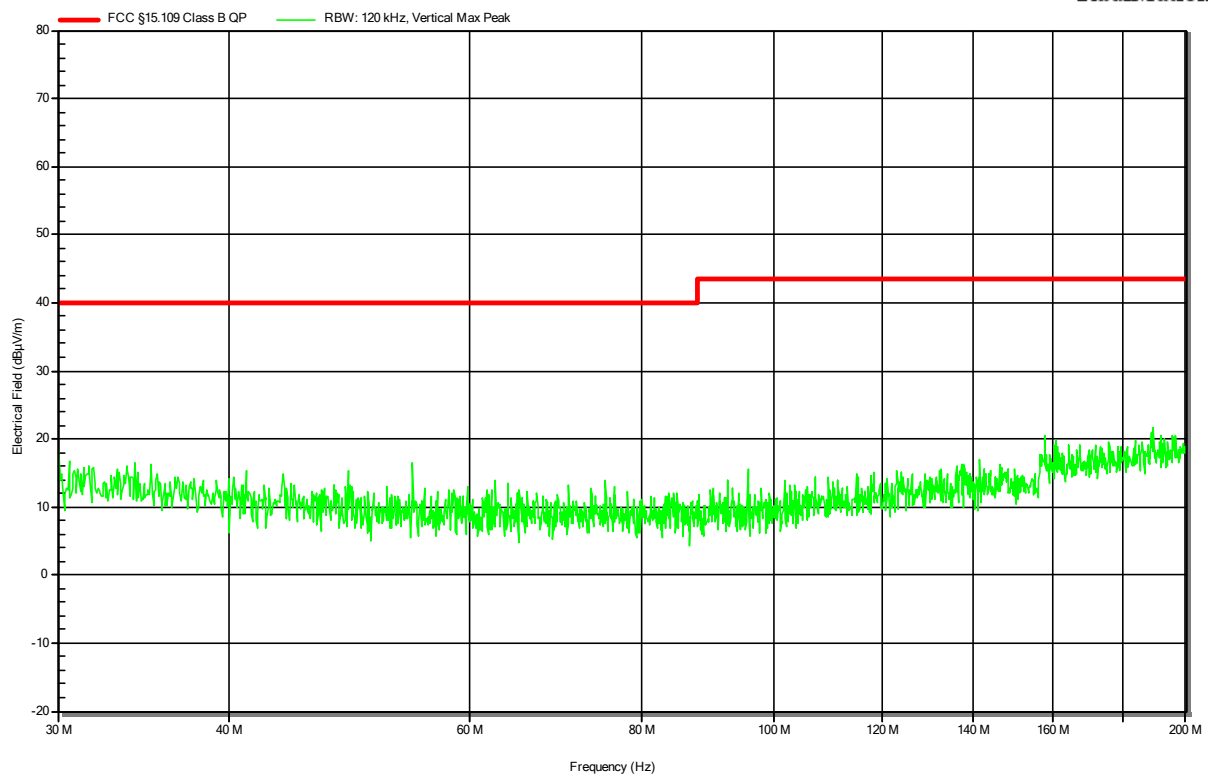
| Peak Number | Frequency | Peak          | Peak Limit    | Peak Difference    | Peak Status    | Angle | Height |
|-------------|-----------|---------------|---------------|--------------------|----------------|-------|--------|
| 1           | 2.456 GHz | Radio-Carrier |               |                    |                |       |        |
| Peak Number | Frequency | Average       | Average Limit | Average Difference | Average Status | Angle | Height |
| 1           | 2.456 GHz | Radio-Carrier |               |                    |                |       |        |

# Radiated emissions according to FCC part 15B

|                                          |                                                                                                   |
|------------------------------------------|---------------------------------------------------------------------------------------------------|
| Project Number:                          | G0M-2103-9685                                                                                     |
| Applicant:                               | Dräger Safety AG & Co. KGaA                                                                       |
| Model Description:                       | Fixed Gas Detector                                                                                |
| Model:                                   | Polytron 6100 EC WL                                                                               |
| Test Sample ID:                          | 34490                                                                                             |
| Test Site:                               | Eurofins Product Service GmbH                                                                     |
| Operator:                                | Mr. Liebich                                                                                       |
| Test Date:                               | 2021-09-23                                                                                        |
| Operating Conditions:                    | ambient temperature: 22 °Celsius<br>power input: 24 V DC by external laboratory power supply unit |
| Antenna:                                 | Rohde & Schwarz HK 116, Vertical                                                                  |
| Measurement Distance:                    | 3m                                                                                                |
| Operational Mode &<br>EUT Configuration: | Mode 1<br>Configuration 2                                                                         |
| Note 1:                                  | --                                                                                                |

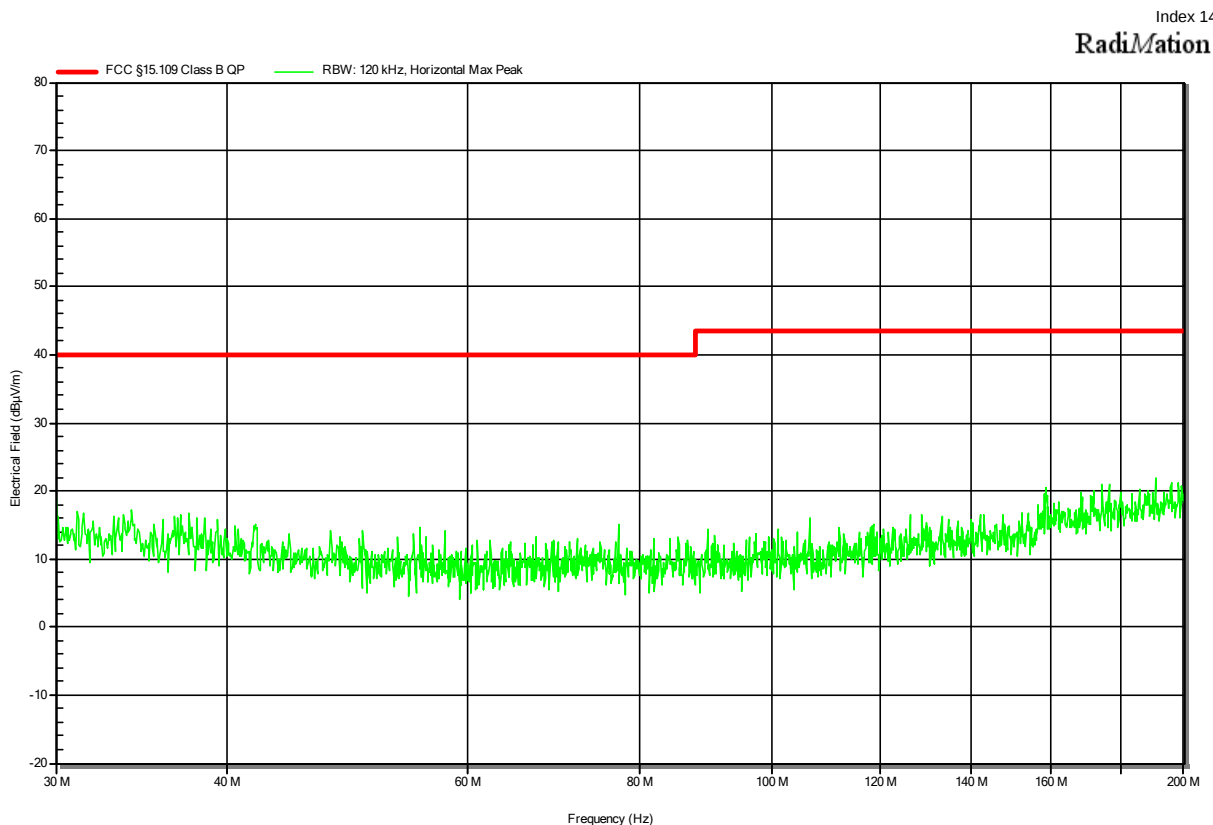
Index 13

RadiMation



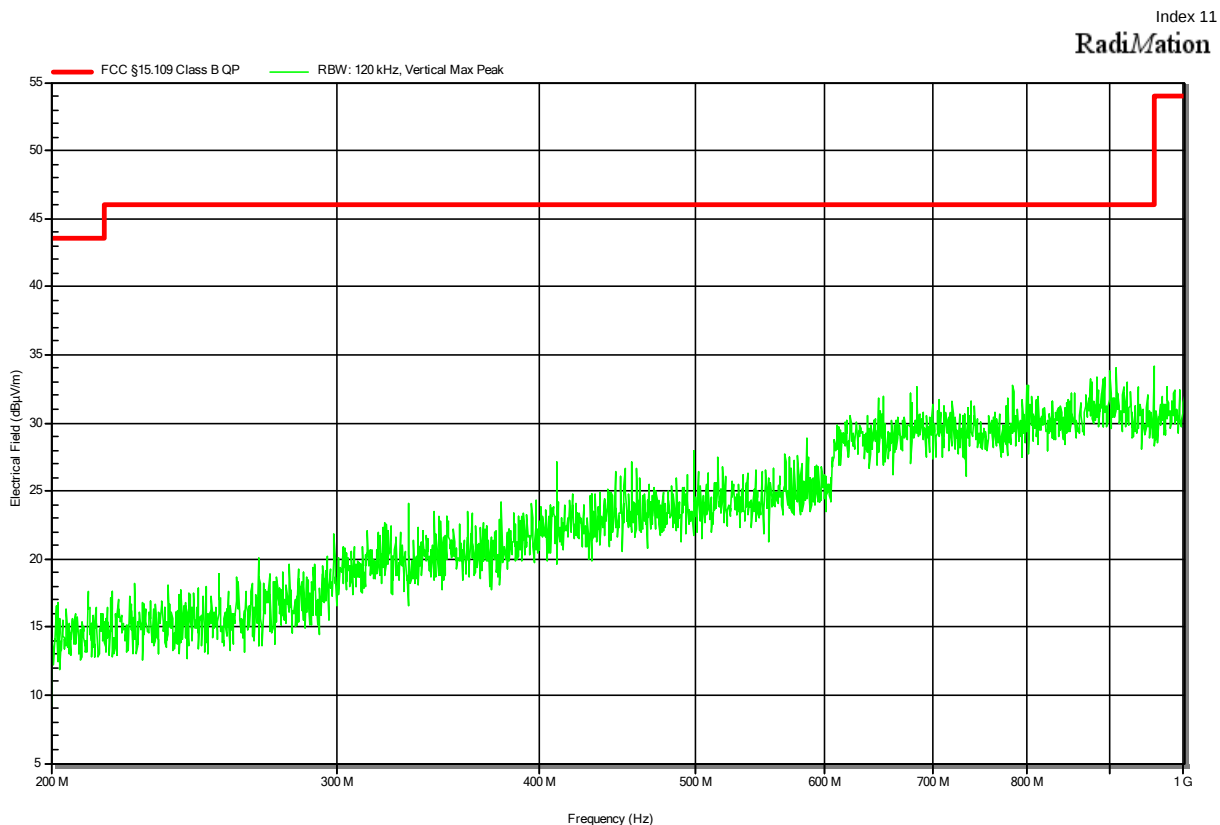
**Radiated emissions  
according to FCC part 15B**

|                                          |                                                                                                   |
|------------------------------------------|---------------------------------------------------------------------------------------------------|
| Project Number:                          | G0M-2103-9685                                                                                     |
| Applicant:                               | Dräger Safety AG & Co. KGaA                                                                       |
| Model Description:                       | Fixed Gas Detector                                                                                |
| Model:                                   | Polytron 6100 EC WL                                                                               |
| Test Sample ID:                          | 34490                                                                                             |
| Test Site:                               | Eurofins Product Service GmbH                                                                     |
| Operator:                                | Mr. Liebich                                                                                       |
| Test Date:                               | 2021-09-23                                                                                        |
| Operating Conditions:                    | ambient temperature: 22 °Celsius<br>power input: 24 V DC by external laboratory power supply unit |
| Antenna:                                 | Rohde & Schwarz HK 116, Horizontal                                                                |
| Measurement Distance:                    | 3m                                                                                                |
| Operational Mode &<br>EUT Configuration: | Mode 1<br>Configuration 2                                                                         |
| Note 1:                                  | --                                                                                                |



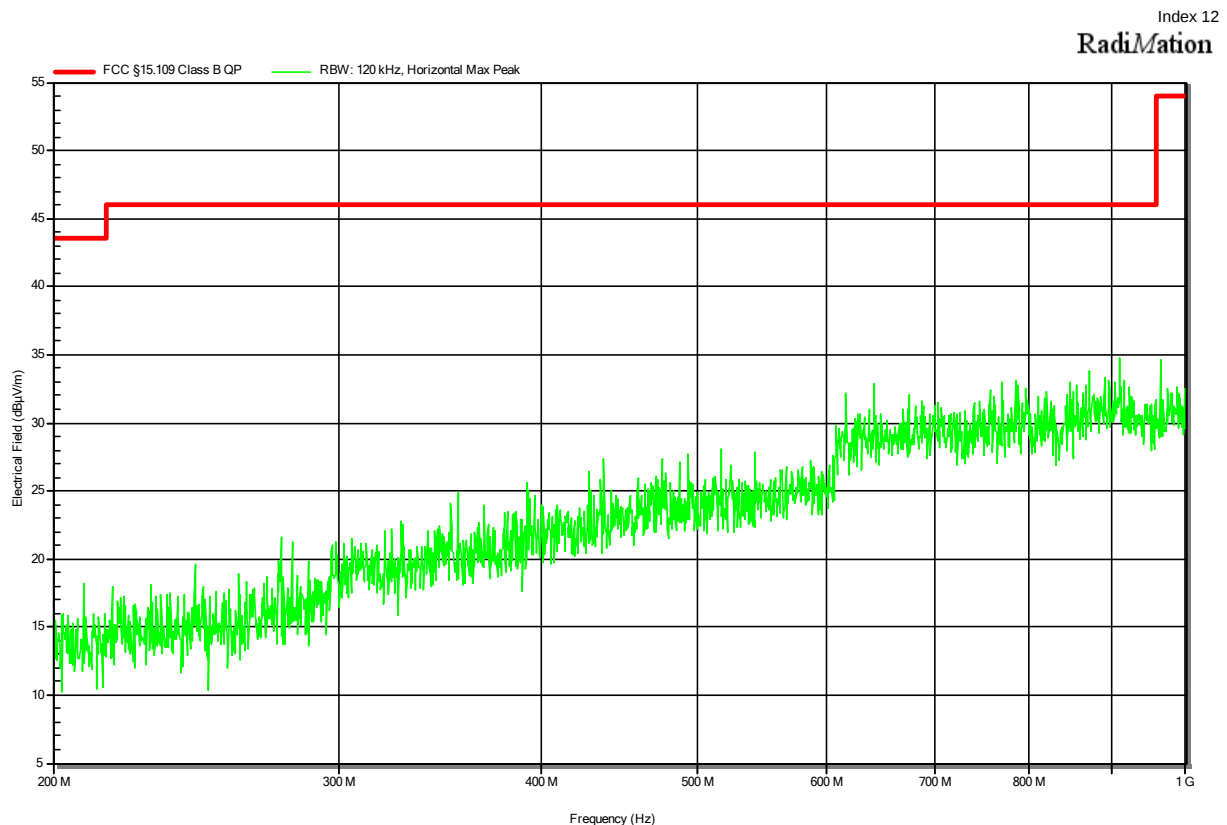
## Radiated emissions according to FCC part 15B

|                                          |                                                                                                   |
|------------------------------------------|---------------------------------------------------------------------------------------------------|
| Project Number:                          | G0M-2103-9685                                                                                     |
| Applicant:                               | Dräger Safety AG & Co. KGaA                                                                       |
| Model Description:                       | Fixed Gas Detector                                                                                |
| Model:                                   | Polytron 6100 EC WL                                                                               |
| Test Sample ID:                          | 34490                                                                                             |
| Test Site:                               | Eurofins Product Service GmbH                                                                     |
| Operator:                                | Mr. Liebich                                                                                       |
| Test Date:                               | 2021-09-23                                                                                        |
| Operating Conditions:                    | ambient temperature: 22 °Celsius<br>power input: 24 V DC by external laboratory power supply unit |
| Antenna:                                 | Rohde & Schwarz HL 223, Vertical                                                                  |
| Measurement Distance:                    | 3m                                                                                                |
| Operational Mode &<br>EUT Configuration: | Mode 1<br>Configuration 2                                                                         |
| Note 1:                                  | --                                                                                                |



# Radiated emissions according to FCC part 15B

|                                          |                                                                                                   |
|------------------------------------------|---------------------------------------------------------------------------------------------------|
| Project Number:                          | G0M-2103-9685                                                                                     |
| Applicant:                               | Dräger Safety AG & Co. KGaA                                                                       |
| Model Description:                       | Fixed Gas Detector                                                                                |
| Model:                                   | Polytron 6100 EC WL                                                                               |
| Test Sample ID:                          | 34490                                                                                             |
| Test Site:                               | Eurofins Product Service GmbH                                                                     |
| Operator:                                | Mr. Liebich                                                                                       |
| Test Date:                               | 2021-09-23                                                                                        |
| Operating Conditions:                    | ambient temperature: 22 °Celsius<br>power input: 24 V DC by external laboratory power supply unit |
| Antenna:                                 | Rohde & Schwarz HL 223, Horizontal                                                                |
| Measurement Distance:                    | 3m                                                                                                |
| Operational Mode &<br>EUT Configuration: | Mode 1<br>Configuration 2                                                                         |
| Note 1:                                  | --                                                                                                |

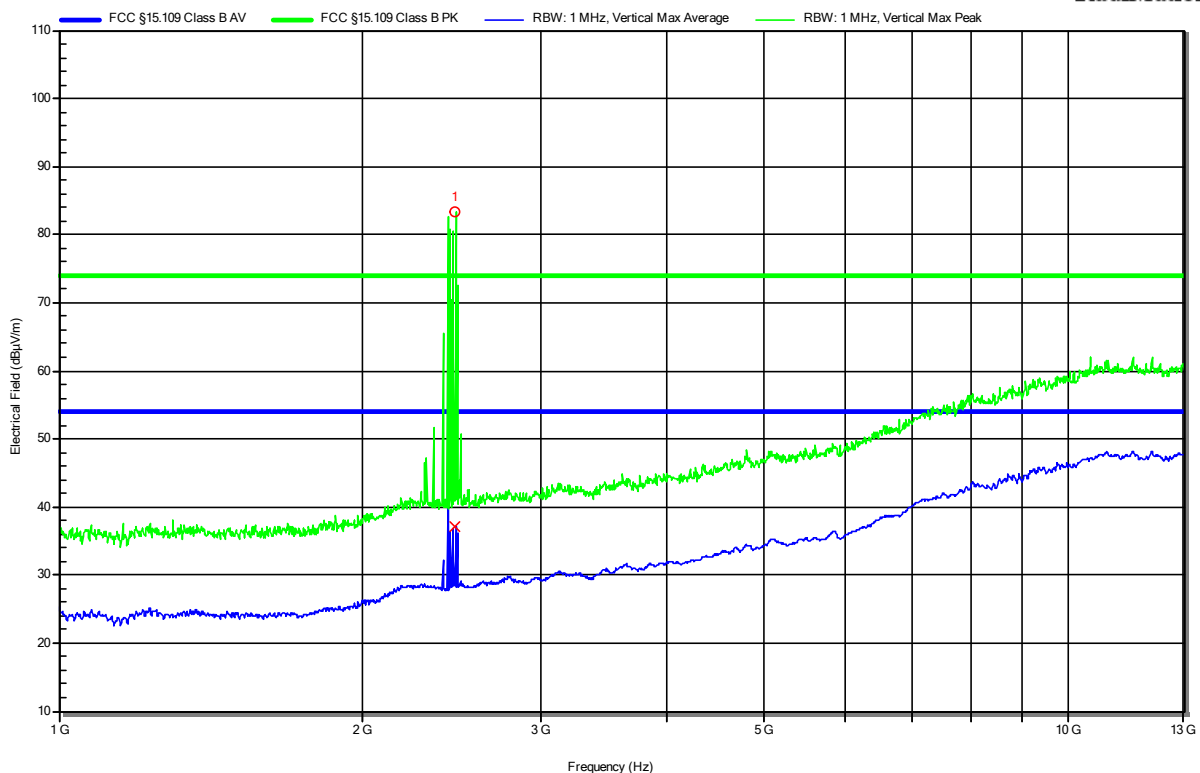


## Radiated emissions according to FCC part 15B

Project Number: G0M-2103-9685  
 Applicant: Dräger Safety AG & Co. KGaA  
 Model Description: Fixed Gas Detector  
 Model: Polytron 6100 EC WL  
 Test Sample ID: 34490  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Liebich  
 Test Date: 2021-09-23  
 Operating Conditions: ambient temperature: 22 °Celsius  
 power input: 24 V DC by external laboratory power supply unit  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement Distance: 3m  
 Operational Mode & EUT Configuration: Mode 1  
 Configuration 2  
 Note 1: --

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RadiMation



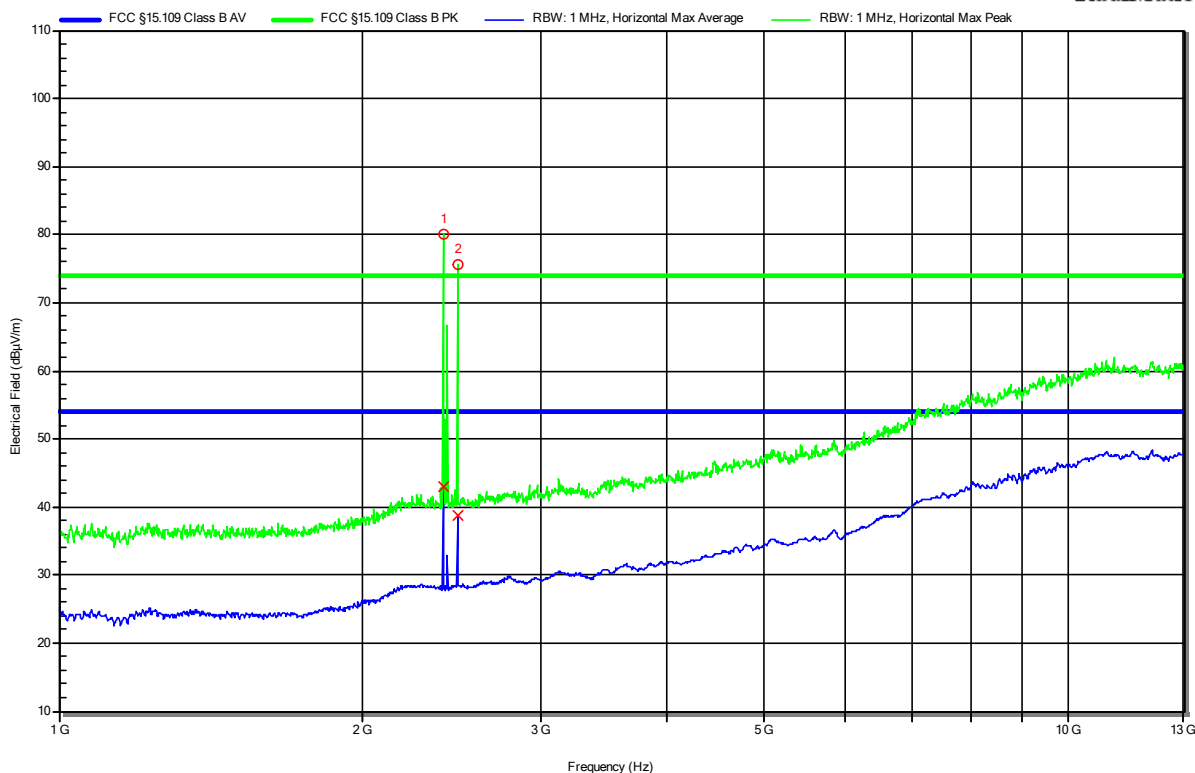
| Peak Number | Frequency | Peak          | Peak Limit    | Peak Difference    | Peak Status    | Angle | Height |
|-------------|-----------|---------------|---------------|--------------------|----------------|-------|--------|
| 1           | 2.471 GHz | Radio-Carrier |               |                    |                |       |        |
| Peak Number | Frequency | Average       | Average Limit | Average Difference | Average Status | Angle | Height |
| 1           | 2.471 GHz | Radio-Carrier |               |                    |                |       |        |

# Radiated emissions according to FCC part 15B

Project Number: G0M-2103-9685  
Applicant: Dräger Safety AG & Co. KGaA  
Model Description: Fixed Gas Detector  
Model: Polytron 6100 EC WL  
Test Sample ID: 34490  
Test Site: Eurofins Product Service GmbH  
Operator: Mr. Liebich  
Test Date: 2021-09-23  
Operating Conditions: ambient temperature: 22 °Celsius  
power input: 24 V DC by external laboratory power supply unit  
Antenna: Schwarzbeck BBHA 9120D, Horizontal  
Measurement Distance: 3m  
Operational Mode & EUT Configuration: Mode 1  
Configuration 2  
Note 1: --

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RadiMation



| Peak Number | Frequency | Peak          | Peak Limit | Peak Difference | Peak Status | Angle | Height |
|-------------|-----------|---------------|------------|-----------------|-------------|-------|--------|
| 1           | 2.402 GHz | Radio-Carrier |            |                 |             |       |        |
| 2           | 2.481 GHz | Radio-Carrier |            |                 |             |       |        |

| Peak Number | Frequency | Average       | Average Limit | Average Difference | Average Status | Angle | Height |
|-------------|-----------|---------------|---------------|--------------------|----------------|-------|--------|
| 1           | 2.402 GHz | Radio-Carrier |               |                    |                |       |        |
| 2           | 2.481 GHz | Radio-Carrier |               |                    |                |       |        |

Test Report No.: G0M-2103-9685-EF0115B-V01

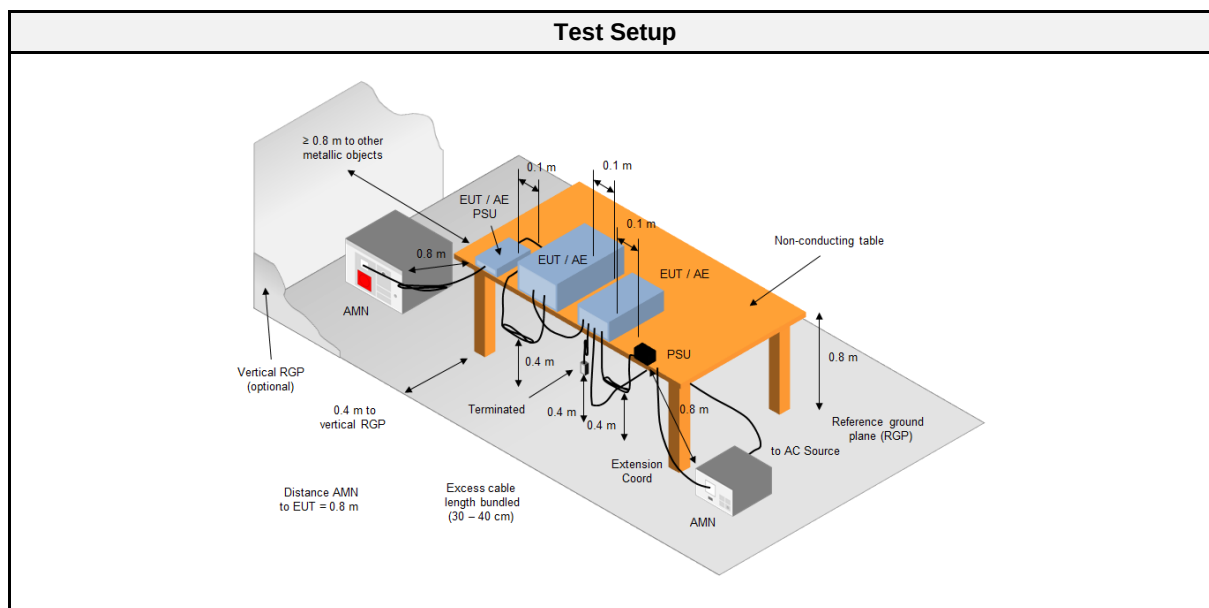
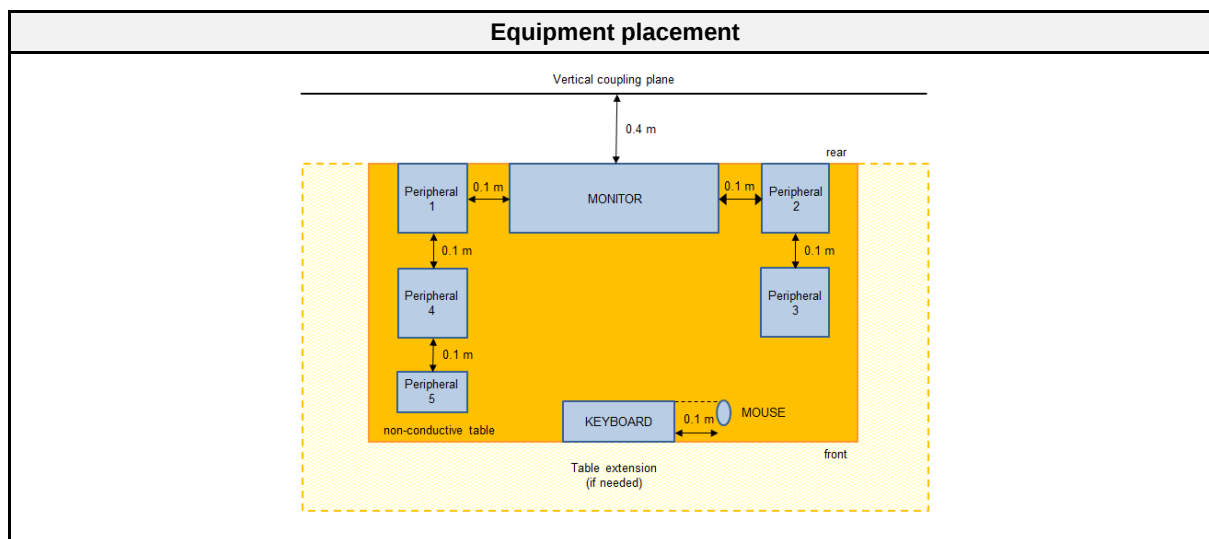
Eurofins Product Service GmbH  
Storkower Str. 38c, D-15526 Reichenwalde, Germany

## 2.2 Test Conditions and Results - Conducted emissions acc. to ANSI C63.4

### 2.2.1 Information

| Test Information  |                                    |
|-------------------|------------------------------------|
| Reference         | FCC 15.107, ICES-003, 3.2.1        |
| Reference method  | ANSI C63.4:2014+A1:2017 Section 12 |
| Measurement range | 150 kHz to 30 MHz                  |
| Equipment class   | Class B                            |
| Equipment type    | Table top                          |
| Temperature [°C]  | 22 – 23                            |
| Humidity [%]      | 43 – 45                            |
| Operator          | Stephan Liebich                    |
| Date              | 2021-09-24                         |

### 2.2.2 Setup



### 2.2.3 Equipment

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

| Test Equipment    |                             |                      |            |           |          |
|-------------------|-----------------------------|----------------------|------------|-----------|----------|
| Description       | Manufacturer                | Model                | Identifier | Cal. Date | Cal. Due |
| AMN               | Schwarzbeck                 | NSLK 8127            | EF01592    | 2021-07   | 2022-07  |
| Pulse Limiter     | R&S                         | ESH3-Z2              | EF01063    | 2021-07   | 2022-07  |
| EMI Test Receiver | R&S                         | ESR 7                | EF00943    | 2021-08   | 2022-08  |
| Climatic Sensor   | Embedded Data Systems, LLC. | 2800100000254<br>17E | EF01054    | 2021-03   | 2022-03  |

### 2.2.4 Procedure

| Exploratory measurement |                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.                      | The EUT was placed on a non conductive table 0.8 m above the reference ground plane and 0.4 m away from the vertical conducting plane (ANSI C63.4: 2014 item 7.3.1)                 |
| 2.                      | The power cord that is normally supplied or recommended by the manufacturer was connected to the LISN.                                                                              |
| 3.                      | The distance between the outer edge of the EUT and the LISN shall be set to 0.8 m. A longer power cord shall be bundled to this length (bundling shall not exceed 40 cm in length). |
| 4.                      | The LISN measurement port was connected to a measurement receiver                                                                                                                   |
| 5.                      | I/O cables were bundled not longer than 0.4 m                                                                                                                                       |
| 6.                      | Measurement was performed in the frequency range 0.15 – 30MHz on each current-carrying conductor                                                                                    |
| 7.                      | To maximize the emissions the cable positions were manipulated                                                                                                                      |
| 8.                      | The worst configuration of EUT and cables is shown on a test setup picture at item 2.2.2                                                                                            |

| Final measurement |                                                                                                                                                                                     |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.                | The EUT was placed on a non conductive table 0.8 m above the reference ground plane and 0.4 m away from the vertical conducting plane (ANSI C63.4: 2014 item 7.3.1)                 |
| 2.                | The power cord that is normally supplied or recommended by the manufacturer was connected to the LISN.                                                                              |
| 3.                | The distance between the outer edge of the EUT and the LISN shall be set to 0.8 m. A longer power cord shall be bundled to this length (bundling shall not exceed 40 cm in length). |
| 4.                | The LISN measurement port was connected to a measurement receiver                                                                                                                   |
| 5.                | The EUT and cable arrangement were based on the exploratory measurement results                                                                                                     |
| 6.                | The test data of the worst-case conditions were recorded and shown on the next pages                                                                                                |

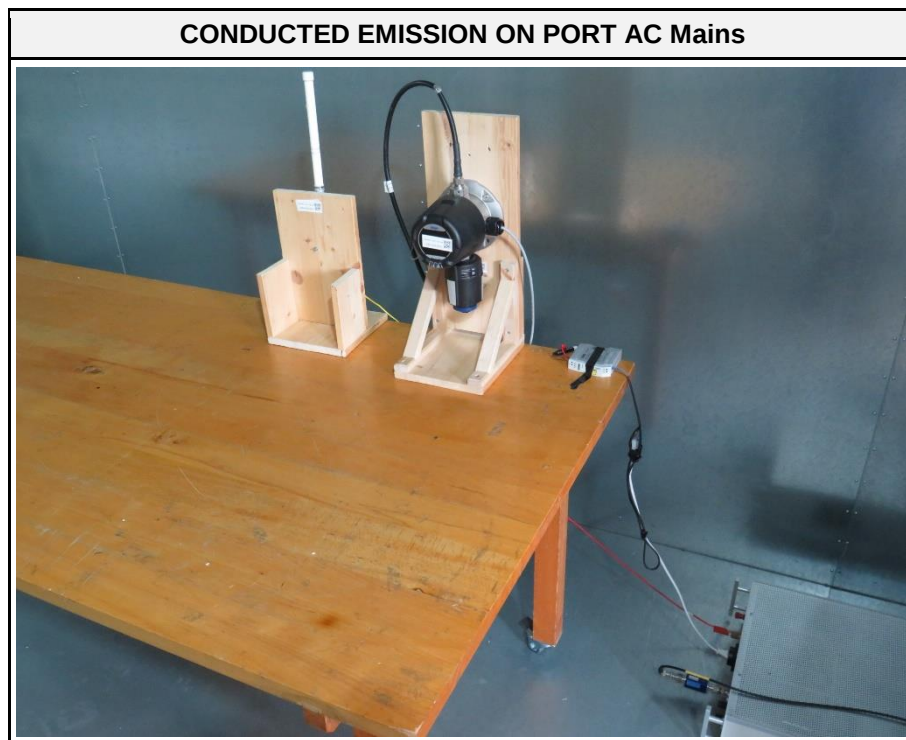
### 2.2.5 Limits

| Class B                                         |                         |                      |
|-------------------------------------------------|-------------------------|----------------------|
| Frequency [MHz]                                 | Quasi-peak Limit [dBμV] | Average Limit [dBμV] |
| 0.15 - 0.5                                      | 66 - 56 *               | 56 - 46 *            |
| 0.5 - 5                                         | 56                      | 46                   |
| 5 - 30                                          | 60                      | 50                   |
| * Decreases with the logarithm of the frequency |                         |                      |

## 2.2.6 Results

| AC power line conducted emissions |          |                  |                   |         |                    |
|-----------------------------------|----------|------------------|-------------------|---------|--------------------|
| Port                              | Coupling | Operational mode | EUT Configuration | Verdict | Remark             |
| AC Mains                          | AMN      | 1                | 1                 | PASS    | AC/DC-Adaptor port |

## 2.2.7 Setup Photos



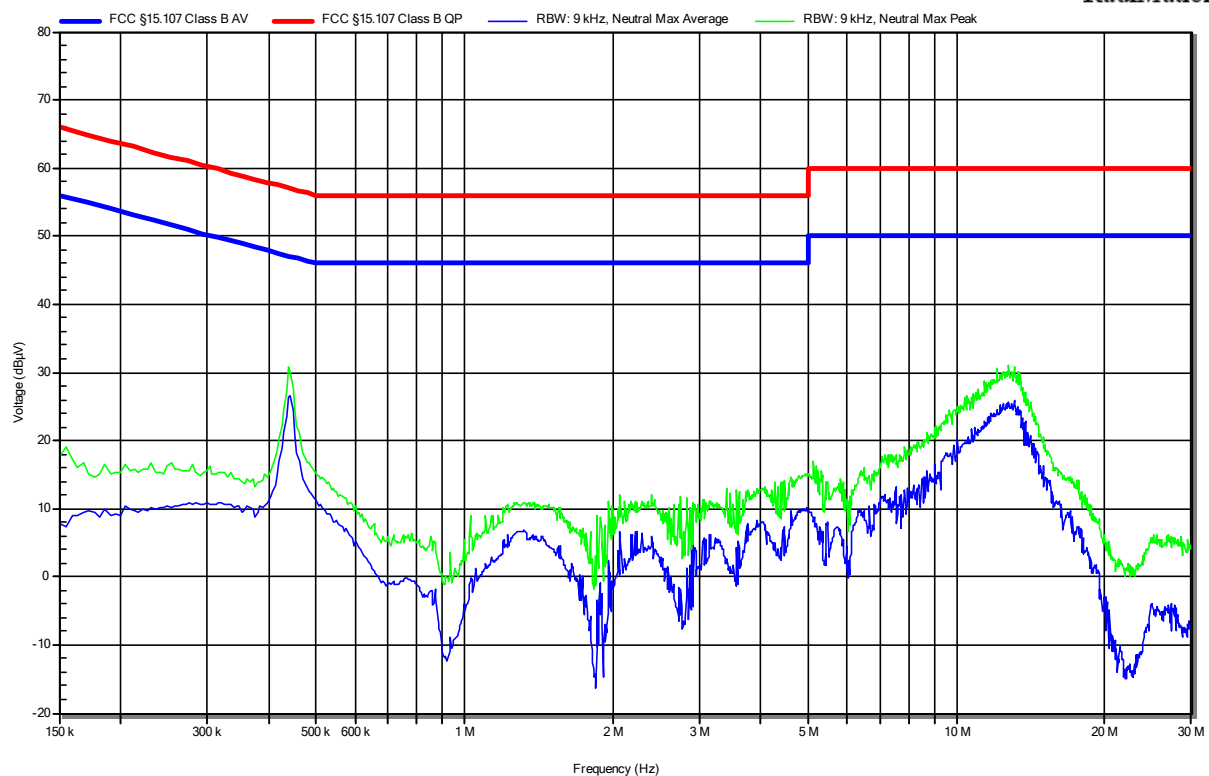
## 2.2.8 Records

### Conducted emissions at the mains power port according to FCC part 15B

Project Number: G0M-2103-9685  
 Applicant: Dräger Safety AG & Co. KGaA  
 Model Description: Fixed Gas Detector  
 Model: Polytron 6100 EC WL  
 Test Sample ID: 34490  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Liebich  
 Test Date: 2021-09-24  
 Operating Conditions: ambient temperature: 22 °Celsius  
 power input: 24 V DC by AC/DC-Adaptor (120 V / 60 Hz)  
 LISN: Schwarzbeck NSLK 8127 RC N  
 Operational Mode & EUT Configuration: Mode 1  
 Configuration 2  
 Applied to Port: AC Mains  
 Note 1: --

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Radiation

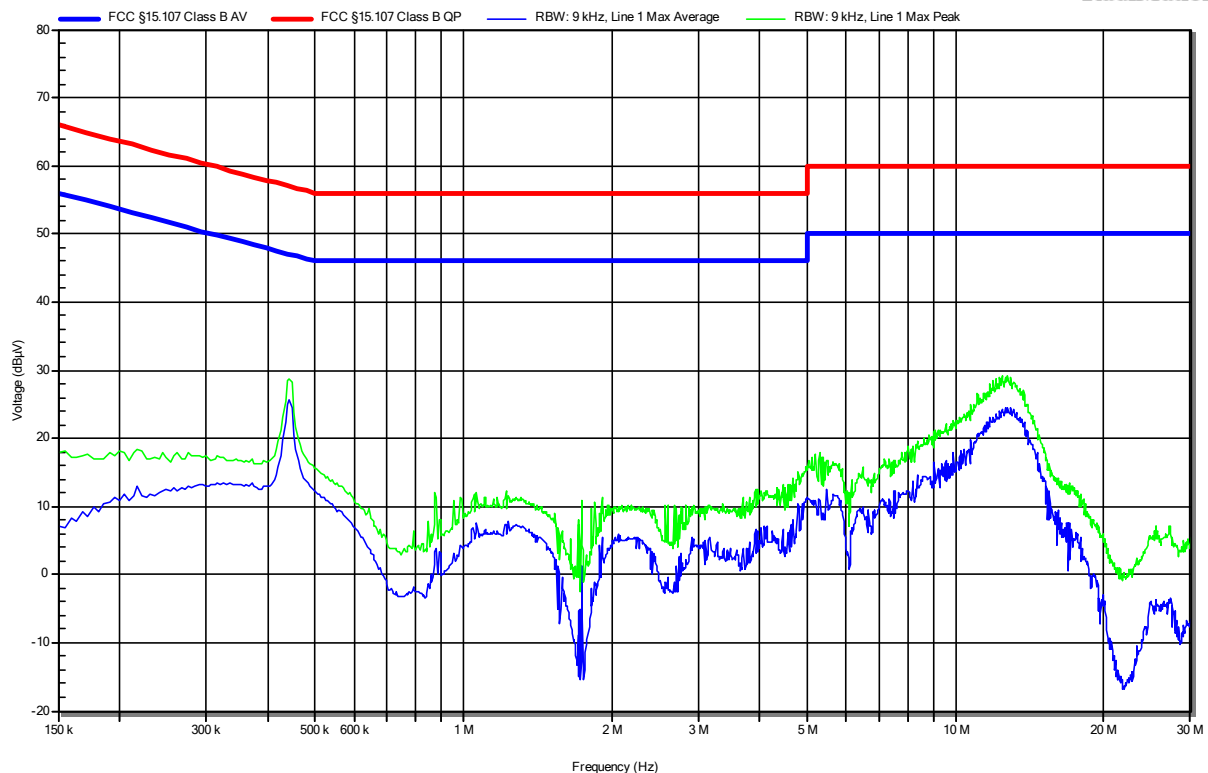


# Conducted emissions at the mains power port according to FCC part 15B

Project Number: G0M-2103-9685  
Applicant: Dräger Safety AG & Co. KGaA  
Model Description: Fixed Gas Detector  
Model: Polytron 6100 EC WL  
Test Sample ID: 34490  
Test Site: Eurofins Product Service GmbH  
Operator: Mr. Liebich  
Test Date: 2021-09-24  
Operating Conditions: ambient temperature: 22 °Celsius  
power input: 24 V DC by AC/DC-Adaptor (120 V / 60 Hz)  
LISN: Schwarzbeck NSLK 8127 RC L  
Operational Mode & EUT Configuration: Mode 1  
Configuration 2  
Applied to Port: AC Mains  
Note 1: --

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Radiation



### 3 Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95%, with a coverage factor of 2.

| Test Name                                   | Measurement Uncertainty                                                                |
|---------------------------------------------|----------------------------------------------------------------------------------------|
| Conducted emissions at the mains power port | 150kHz to 30MHz, 3.35dB                                                                |
| Radiated Emission                           | 30MHz to 200MHz @ 3m, 5.1dB<br>200MHz to 1GHz @ 3m, 5.3dB<br>>1GHz to 6GHz @3m, 5.95dB |