

|                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                |                                                                                    |                      |                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------|-------------------------------------------|
| <b>Prüfbericht-Nr.:</b><br>Test Report No.:                                                                                                                                                                                                                                                                                                                                                                                                         | <b>50205439 001</b>                                                                                                            | <b>Auftrags-Nr.:</b><br>Order No.:                                                 | <b>114083854</b>     | Seite 1 von 29<br>Page 1 of 29            |
| <b>Kunden-Referenz-Nr.:</b><br>Client Reference No.:                                                                                                                                                                                                                                                                                                                                                                                                | N/A                                                                                                                            | <b>Auftragsdatum:</b><br>Order date:                                               | 15-Nov-2018          |                                           |
| <b>Auftraggeber:</b><br>Client:                                                                                                                                                                                                                                                                                                                                                                                                                     | Remotec Technology Ltd.<br>Workshop No. B2, 2/F., Block B, Tonic Industrial Centre, 19 Lam Hing Street, Kowloon Bay, Hong Kong |                                                                                    |                      |                                           |
| <b>Prüfgegenstand:</b><br>Test item:                                                                                                                                                                                                                                                                                                                                                                                                                | BT REMOTE CONTROL                                                                                                              |                                                                                    |                      |                                           |
| <b>Bezeichnung / Typ-Nr.:</b><br>Identification / Type No.:                                                                                                                                                                                                                                                                                                                                                                                         | BW7640UN                                                                                                                       |                                                                                    |                      |                                           |
| <b>Auftrags-Inhalt:</b><br>Order content:                                                                                                                                                                                                                                                                                                                                                                                                           | NCC Test report (BLE)                                                                                                          |                                                                                    |                      |                                           |
| <b>Prüfgrundlage:</b><br>Test specification:                                                                                                                                                                                                                                                                                                                                                                                                        | NCC Low-power Radio-frequency Devices Technical Regulations LP0002(2018)<br>Section 3.10.1                                     |                                                                                    |                      |                                           |
| <b>Wareneingangsdatum:</b><br>Date of receipt:                                                                                                                                                                                                                                                                                                                                                                                                      | 27-Nov-2018                                                                                                                    |                                                                                    |                      |                                           |
| <b>Prüfmuster-Nr.:</b><br>Test sample No.:                                                                                                                                                                                                                                                                                                                                                                                                          | A000832902-014~015                                                                                                             |                                                                                    |                      |                                           |
| <b>Prüfzeitraum:</b><br>Testing period:                                                                                                                                                                                                                                                                                                                                                                                                             | 27-Nov-2018 – 30-Nov-2018                                                                                                      |                                                                                    |                      |                                           |
| <b>Ort der Prüfung:</b><br>Place of testing:                                                                                                                                                                                                                                                                                                                                                                                                        | EMC/RF Laboratory Taipei                                                                                                       |                                                                                    |                      |                                           |
| <b>Prüflaboratorium:</b><br>Testing laboratory:                                                                                                                                                                                                                                                                                                                                                                                                     | TUV Rheinland Taiwan Ltd.                                                                                                      |                                                                                    |                      |                                           |
| <b>Prüfergebnis*:</b><br>Test result*:                                                                                                                                                                                                                                                                                                                                                                                                              | Pass                                                                                                                           |                                                                                    |                      |                                           |
| <b>Report date / tested by:</b>                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                | <b>Kontrolliert von / reviewed by:</b>                                             |                      |                                           |
| 2018-11-30 Mars Y.J. Lin / Project Engineer                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                | 2018-12-03 Rene Charton / Expert, Electrical                                       |                      |                                           |
| <b>Datum</b><br>Date                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Name / Stellung</b><br>Name / Position                                                                                      | <b>Unterschrift</b><br>Signature                                                   | <b>Datum</b><br>Date | <b>Name / Stellung</b><br>Name / Position |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                |                                                                                    |                      |                                           |
| <b>Sonstiges / Other:</b><br>This is series report, for conducted test is using major type BW7630UN to test, they are using the same PCB board and RF Chip.                                                                                                                                                                                                                                                                                         |                                                                                                                                |                                                                                    |                      |                                           |
| <b>Zustand des Prüfgegenstandes bei Anlieferung:</b><br>Condition of the test item at delivery:                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                | <b>Prüfmuster vollständig und unbeschädigt</b><br>Test item complete and undamaged |                      |                                           |
| * Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft<br>P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet<br>Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor<br>P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested                   |                                                                                                                                |                                                                                    |                      |                                           |
| <b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b><br>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark. |                                                                                                                                |                                                                                    |                      |                                           |

**Prüfbericht - Nr.: 50205439 001**  
Test Report No.

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## TEST SUMMARY

### **5.1.1 ANTENNA REQUIREMENT**

RESULT: Passed

### **5.1.2 PEAK OUTPUT POWER**

RESULT: Passed

### **5.1.3 6dB BANDWIDTH**

RESULT: Passed

### **5.1.4 POWER DENSITY**

RESULT: Passed

### **5.1.5 CONDUCTED SPURIOUS EMISSIONS AND FREQUENCY BAND EDGE MEASURED IN 100kHz BANDWIDTH**

RESULT: Passed

### **5.1.6 SPURIOUS EMISSION**

RESULT: Passed

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## 1. General Remarks

### 1.1 Complementary Materials

These attachments are integral parts of this test report:

**Appendix P: Photo Documentation internal view**  
(File Name: 50205439 001APPENDIXP)

**Appendix D: Test Result of Radiated Emissions**  
(File Name: 50205439 001APPENDIXD)

Test Specifications

The following standards were applied.

**Table 1: Applied Standard and Test Levels**

| <b>Radio</b>                                                                             |
|------------------------------------------------------------------------------------------|
| NCC Low-power Radio-frequency Devices Technical Regulations LP0002(2018)(107 年 1 月 10 日) |

## 2. Test Sites

### 2.1 Test Laboratory

TUV Rheinland Taiwan Ltd.  
Taichung Branch Office

No.9, Lane 36, Minsheng Rd., Sec. 3, Daya District,  
Taichung City 428  
Taiwan (R.O.C.)

### 2.2 Test Facility

TUV Rheinland Taiwan Ltd.  
Taipei Office

11F. No.758, Sec. 4, Bade Rd., Songshan Dist.  
Taipei City 105  
Taiwan (R.O.C.)

FCC RegistrationNo.: 340738  
IC Canada Registration No.: 9465A-1  
TAF Accredited NCC Test Lab. No.:0759  
TAF ISO17025 Certification effective periods: 2016-Jul-1st to 2019-Jun-30th



**Testing Laboratory**

**0759**

## 2.3 List of Test and Measurement Instruments

**Table 2: List of Test and Measurement Equipment**

| Kind of Equipment             | Manu-facturer  | Type         | S/N         | Last Calibration | Next Calibration |
|-------------------------------|----------------|--------------|-------------|------------------|------------------|
| Test Software                 | Farad          | EZ_EMC       | Ver. TUV3A1 | N/A              | N/A              |
| EMI Test Receiver             | R&S            | ESR 7        | 101549      | 2018/11/10       | 2019/11/10       |
| Spectrum Analyzer             | R&S            | FSV 40       | 100921      | 2018/05/02       | 2019/05/02       |
| EXA Signal Analyzer           | KEYSIGHT       | N9010A       | MY52221334  | 2018/02/05       | 2019/02/04       |
| Preamplifier (30MHz -1GHz)    | HP             | 8447F        | 2805A03335  | 2018/08/14       | 2019/08/14       |
| Preamplifier (18 GHz -40 GHz) | COM-POWER      | PAM-840      | 461257      | 2018/01/18       | 2019/01/18       |
| Pre-Amplifier (1GHz~18GHz)    | EM Electronics | EM01G18G     | 60558       | 2018/11/21       | 2019/11/21       |
| Bilog Antenna                 | TESEQ          | CBL6111D     | 29804       | 2018/08/18       | 2019/08/18       |
| Horn Antenna                  | ETS-Lindgren   | 3117         | 201918      | 2018/08/18       | 2019/08/18       |
| Horn Antenna (18GHz~40GHz)    | COM-POWER      | AH-840       | 101029      | 2018/11/28       | 2019/11/28       |
| Loop Antenna                  | Schwarzbeck    | FMZB 1513    | 1513-076    | 2018/06/14       | 2019/06/14       |
| EMI Test Receiver             | R&S            | ESR 7        | 101549      | 2018/11/10       | 2019/11/10       |
| Spectrum Analyzer             | R&S            | FSL3         | 101943      | 2018/09/07       | 2019/09/07       |
| Temp. & Humid. Chamber        | Giant Force    | GCT-099-40-S | MAF0103-007 | 2017/03/09       | 2019/03/09       |

## 2.4 Traceability

All measurement equipment calibrations are traceable to NML(Taiwan)/NIST(USA) or where calibration is performed outside Taiwan, to equivalent nationally recognized standards organizations.

## 2.5 Calibration

Equipment requiring calibration is calibrated periodically in a suitably accredited Calibration Lab. Additionally all equipment is verified for proper performance on a regular schedule using in house standards or comparisons.

## 2.6 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements .

**Table 3: Emission Measurement Uncertainty**

| Parameter                     | Uncertainty   |
|-------------------------------|---------------|
| Radio Frequency               | $\pm 0.1$ ppm |
| RF power, conducted           | $\pm 1.5$ dB  |
| RF power density, conducted   | $\pm 3$ dB    |
| spurious emissions, conducted | $\pm 3$ dB    |
| all emissions, radiated       | $\pm 6$ dB    |
| Temperature                   | $\pm 1$ °C    |
| Humidity                      | $\pm 5$ %     |
| DC and low frequency voltages | $\pm 3$ %     |

### 3. General Product Information

#### 3.1 Product Function and Intended Use

The EUT is a BT remote control. It contains a Bluetooth compatible module enabling the user to communicate data through a Wireless interface. For details refer to the User Guide, Data Sheet and Circuit Diagram.

#### 3.2 System Details and Ratings

**Table 4: Basic Information of EUT**

| Item                        | EUT information   |
|-----------------------------|-------------------|
| Kind of Equipment/Test Item | BT REMOTE CONTROL |
| Type Identification         | BW7640UN          |
| Brand Name                  | POLYCOM           |

**Table 5: Technical Specification of EUT**

| Technical Specification | Value             |
|-------------------------|-------------------|
| Operating Frequencies   | 2402MHz ~ 2480MHz |
| Channel Spacing         | 2 MHz             |
| Channel number          | 40                |
| Operation Voltage       | 3Vdc              |
| Modulation              | GFSK              |
| Antenna gain            | 1.15dBi           |

### **3.3 Independent Operation Modes**

Basic operation modes are:

- A. Transmitting
  - 1. Low channel
  - 2. Middle channel
  - 3. High channel
- B. Receiving

### **3.4 Noise Generating and Noise Suppressing Parts**

Refer to the Circuit Diagram.

### **3.5 Submitted Documents**

- Circuit Diagram
- Instruction Manual
- Rating Label
- Technical Description

## **4. Test Set-up and Operation Modes**

### **4.1 Principle of Configuration Selection**

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

### **4.2 Test Operation and Test Software**

Setup for testing: It can transmit RF signal on the allowed maximum output power at low, mid and high channel through pressing button provided by manufacturer.

The samples were used as follows:  
Conducted sample : A000832902-015  
Radiated sample : A000832902-014

Full test was applied on all test modes, but only worst case was shown

### **4.3 Special Accessories and Auxiliary Equipment**

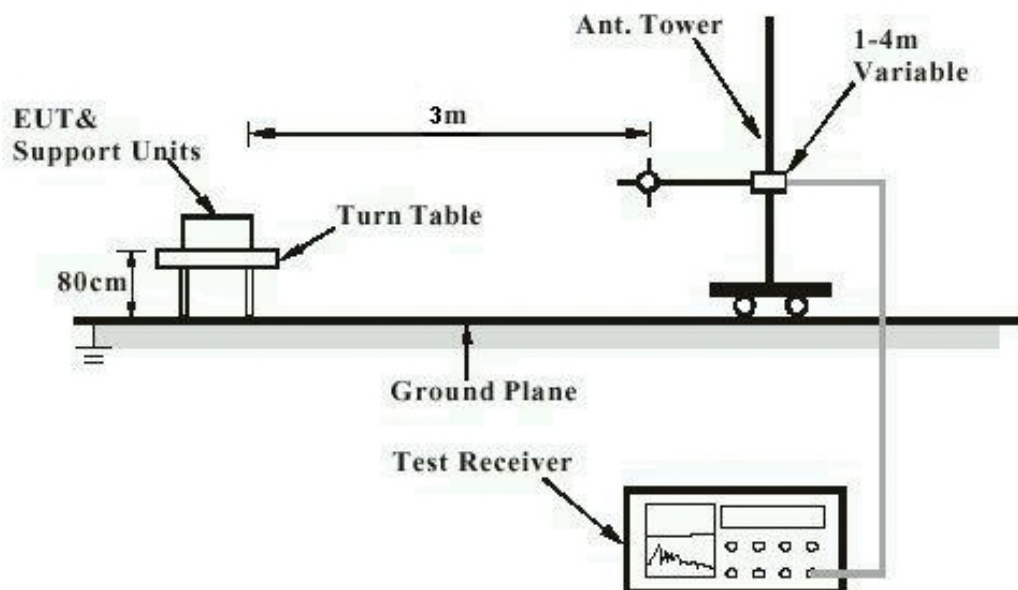
The product has been tested together with the following additional accessories:

## 4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

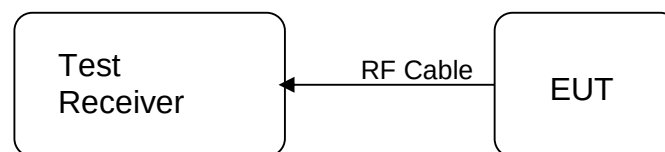
## 4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test



Note: Measurements above 1 GHz are done with a table height of 1.5m

**Diagram of Measurement Equipment Configuration for Conducted Transmitter Measurement**



## 5. Test Results

### 5.1 Transmitter Requirement & Test Suites

#### 5.1.1 Antenna Requirement

**RESULT:****Passed**

Test standard : LP0002(2018): 3.10.1.3, 3.10.1.4

Requirement : use of approved antennas only with directional gains that do not exceed 6 dBi

According to the manufacturer declaration, the EUT has an antenna with a directional gain of 1.15dBi. The antenna is a printed PCB trace with no possibility of replacement with a non-approved antenna by the end-user. Therefore, the EUT is considered to comply with this provision.

Refer to EUT photo for details.

## 5.1.2 Peak Output Power

**RESULT:**
**Passed**

Test standard : LP0002(2018): 3.10.1.2 (1)(C)  
 Basic standard : LP0002(2018)  
 Limit : 1 Watt  
 Kind of test site : Shielded room

**Test setup**

Test Channel : Low/ Middle/ High  
 Operation Mode : A  
 Ambient temperature : 20-24 °C  
 Relative humidity : 50-65 %  
 Atmospheric pressure : 100-103 kPa

**Table 6: Test result of Peak Output Power**

| Channel        | Channel Frequency<br>(MHz) | Output Power   |              | Limit<br>(W) |
|----------------|----------------------------|----------------|--------------|--------------|
|                |                            | Ant 1<br>(dBm) | Ant 1<br>(W) |              |
| Low Channel    | 2402                       | -7.13          | 0.00019      | 1            |
| Middle Channel | 2440                       | -7.19          | 0.00019      | 1            |
| High Channel   | 2480                       | -7.00          | 0.00020      | 1            |

Pmax: 0.1995mW

### 5.1.3 6dB Bandwidth

**RESULT:****Passed**

Test standard : LP0002(2018): 3.10.1.6 (2)(A)

Basic standard : LP0002(2018)

Kind of test site : Shielded room

**Test setup**

Test Channel : Low/ Middle/ High

Operation Mode : A

Ambient temperature : 20-24°C

Relative humidity : 50-65%

Atmospheric pressure : 100-103 kPa

**Table 7: Test result of 6dB Bandwidth**

| Channel      | Channel Frequency (MHz) | 6dB Bandwidth (kHz) | Limit (kHz) | Result |
|--------------|-------------------------|---------------------|-------------|--------|
| Low Channel  | 2402                    | 696.0               | >500        | Pass   |
| Mid Channel  | 2440                    | 717.4               | >500        | Pass   |
| High Channel | 2480                    | 720.6               | >500        | Pass   |

## Test Plot of 6dB Bandwidth

### Low Channel



### Middle Channel



**High Channel**


### 5.1.4 Power Density

**RESULT:**
**Passed**

Test standard : LP0002(2018): 3.10.1.6, (2)(B)

Basic standard : LP0002(2018)

Kind of test site : Shielded room

**Test setup**

Test Channel : Low/ Middle/ High

Operation Mode : A

Ambient temperature : 20-24°C

Relative humidity : 50-65%

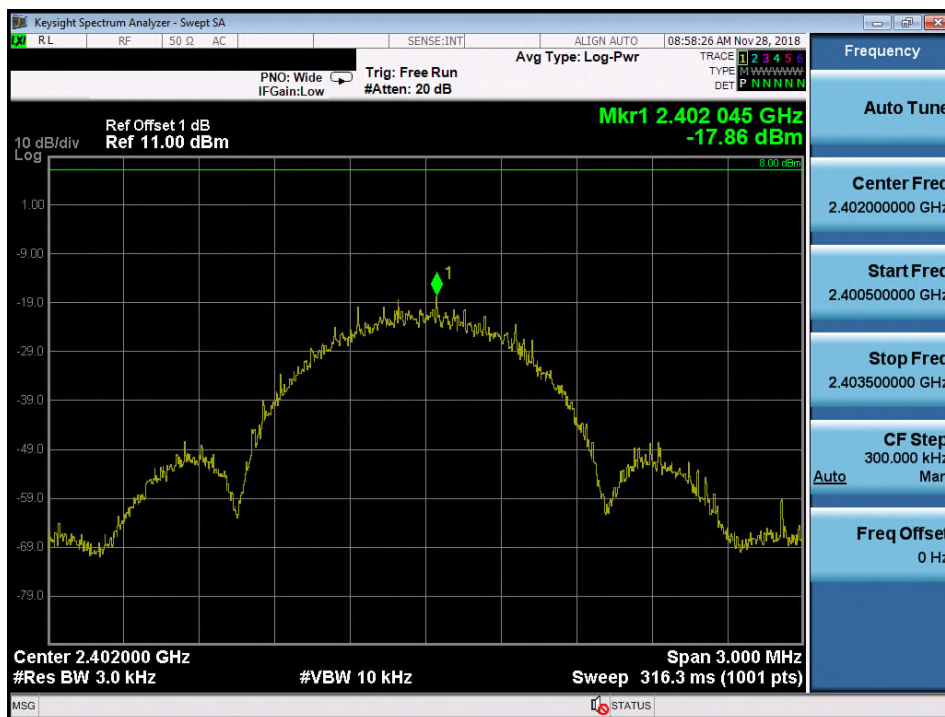
Atmospheric pressure : 100-103 kPa

**Table 8: Test result of Power Density**

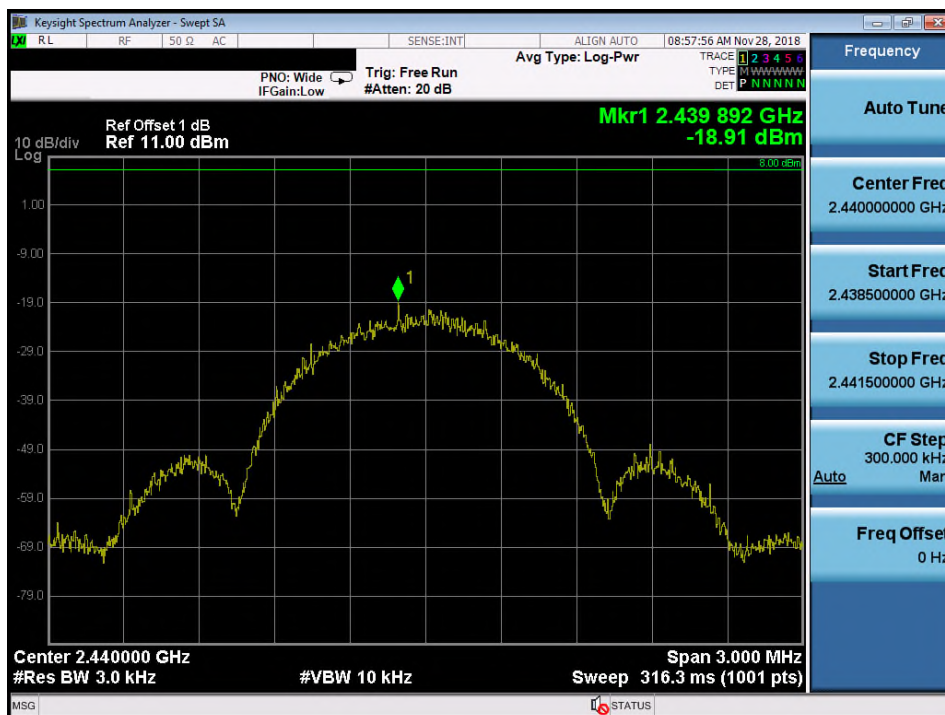
| Channel        | Channel Frequency<br>(MHz) | Power Density  | Limit |
|----------------|----------------------------|----------------|-------|
|                |                            | Ant 1<br>(dBm) | (dBm) |
| Low Channel    | 2402                       | -17.86         | 8     |
| Middle Channel | 2440                       | -18.91         | 8     |
| High Channel   | 2480                       | -16.87         | 8     |

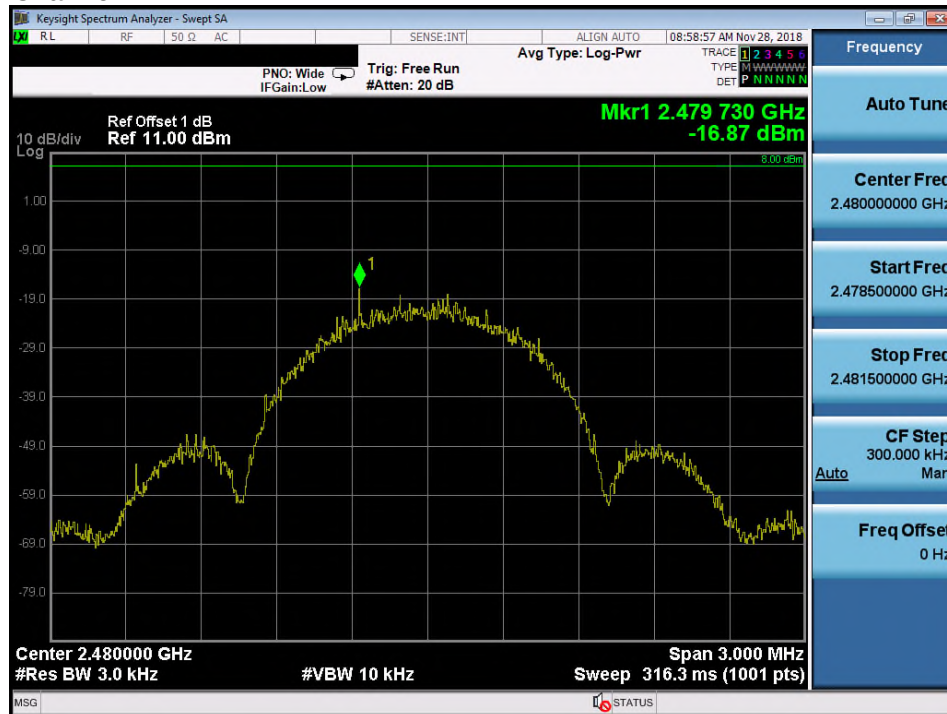
## Test Plot of Power Density

### Ant 1 Low Channel



### Ant 1 Middle Channel





**5.1.5 Conducted spurious emissions and Frequency Band Edge measured in 100kHz Bandwidth****RESULT:****Passed**

|                   |   |                                                                                                                |
|-------------------|---|----------------------------------------------------------------------------------------------------------------|
| Test standard     | : | LP0002(2018): 3.10.1.5                                                                                         |
| Basic standard    | : | LP0002(2018)                                                                                                   |
| Limit             | : | 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power) |
| Kind of test site | : | Shielded room                                                                                                  |

**Test setup**

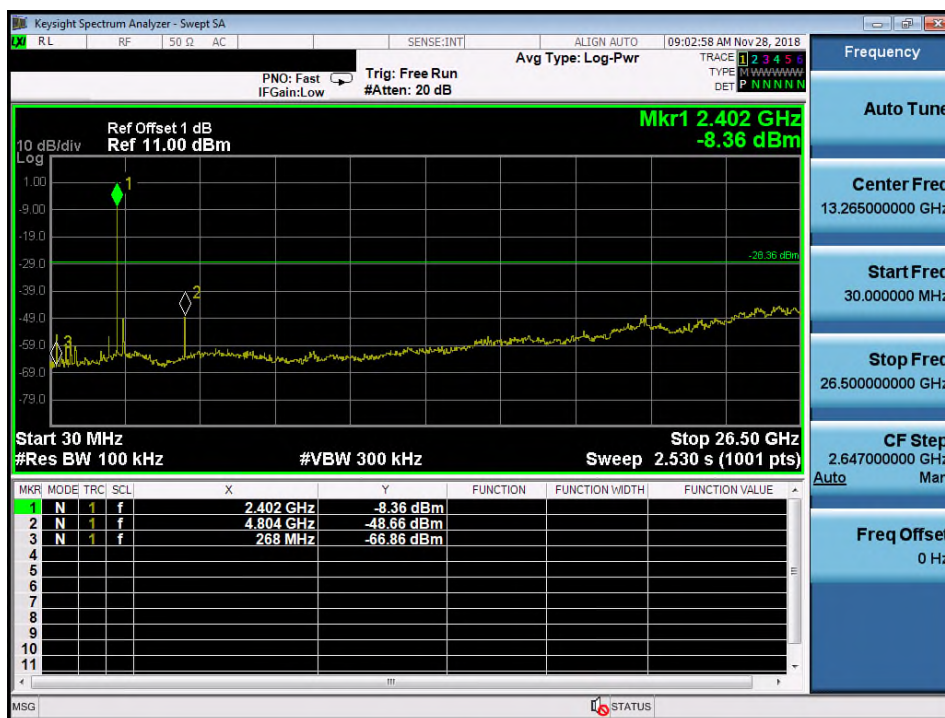
|                      |   |                                                                                         |
|----------------------|---|-----------------------------------------------------------------------------------------|
| Test Channel         | : | Low/ Middle/ High for Conducted Spurious Emissions<br>Low/ High for Frequency Band Edge |
| Operation Mode       | : | A                                                                                       |
| Ambient temperature  | : | 20-24°C                                                                                 |
| Relative humidity    | : | 50-65%                                                                                  |
| Atmospheric pressure | : | 100-103 kPa                                                                             |

All emissions are more than 20dB below fundamental, details refer to following test plot, and compliance is achieved as well.

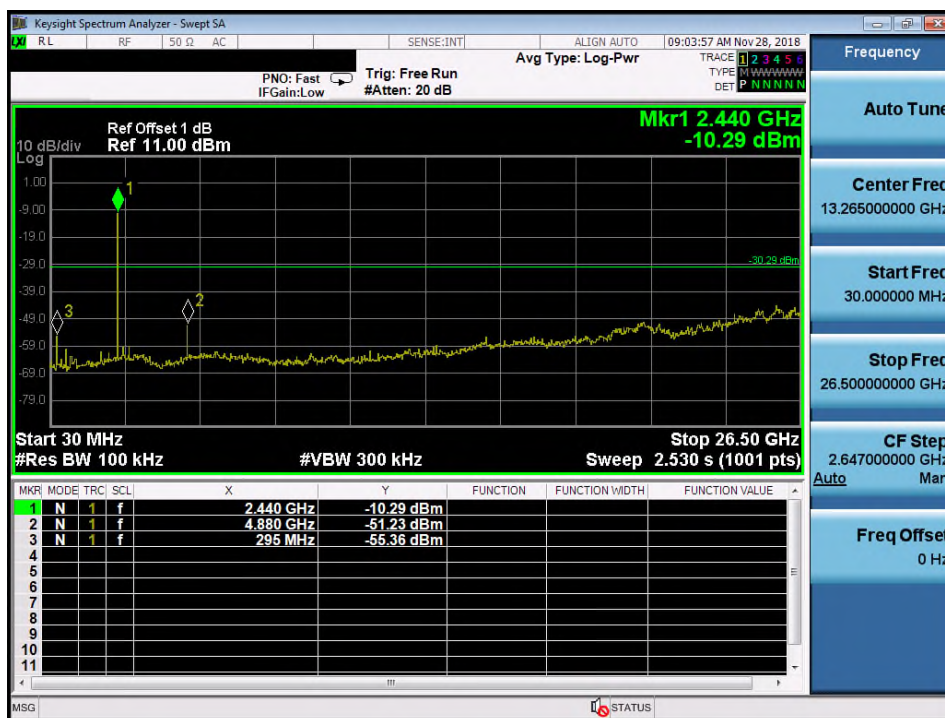
Due to the small size of the product and that there are no inductive components of significant size, 9kHz to 30MHz frequency range is not tested based on technical judgment.

## Test Plot 100kHz Conducted Emissions

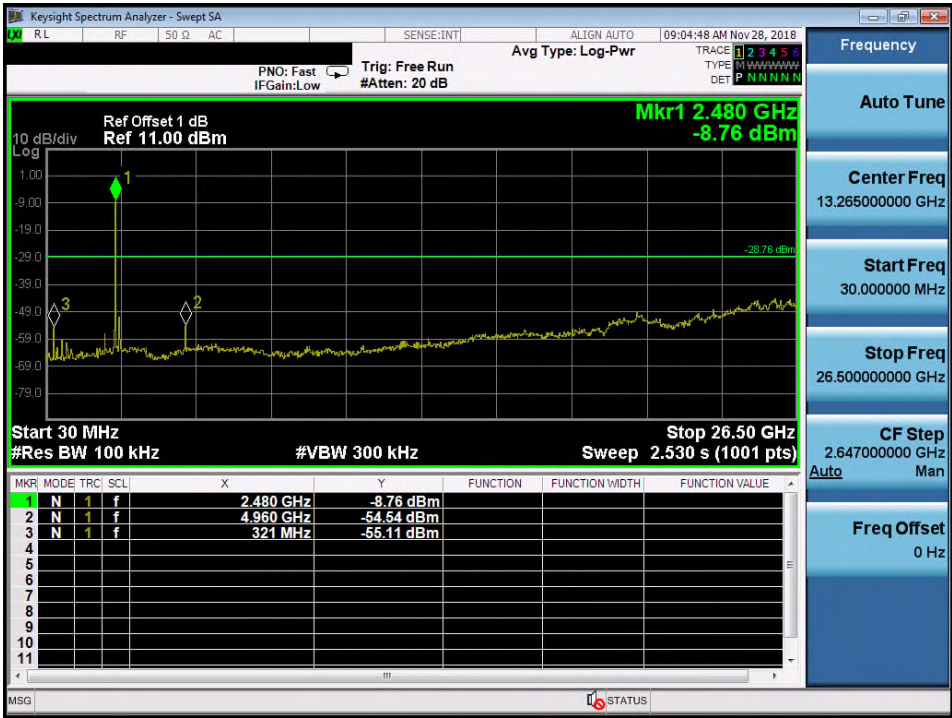
### Low Channel



### Middle Channel

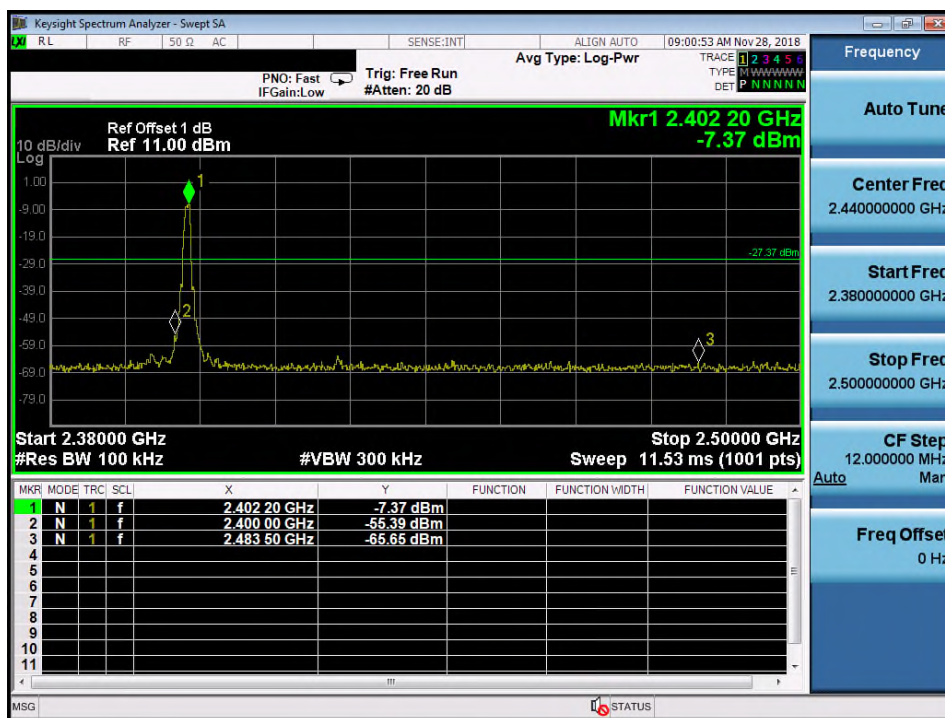


High Channel

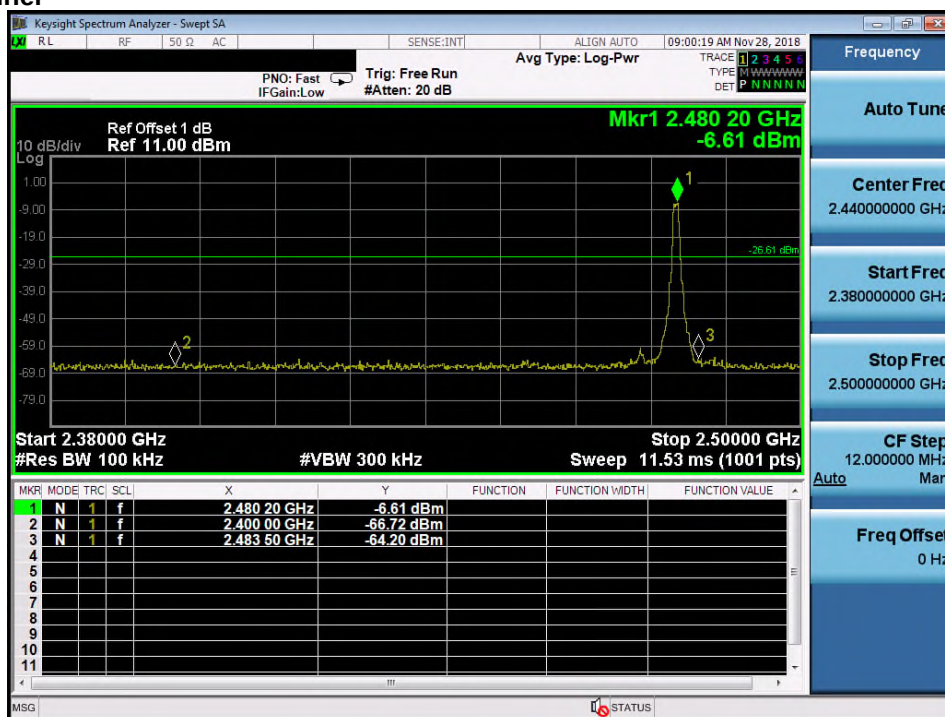


## Test Plot 100kHz RBW of Band Edge

### Low Channel



### High Channel



### 5.1.6 Spurious Emission

**RESULT:****Passed**

|                   |   |                                                                                                                                                                                                                                                                                                               |
|-------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test standard     | : | LP0002(2018): 3.10.1.5, (2)                                                                                                                                                                                                                                                                                   |
| Basic standard    | : | LP0002(2018)                                                                                                                                                                                                                                                                                                  |
| Limits            | : | Radiated emissions which fall in the restricted bands, as defined in LP0002(2018): 2.7 , must comply with the radiated emission limits specified in LP0002(2018): 2.8<br>Emission radiated outside the specified frequency bands must comply with the radiated emission limits specified in LP0002(2018): 2.8 |
| Kind of test site | : | 3m Semi-Anechoic Chamber                                                                                                                                                                                                                                                                                      |

**Test setup**

|                |   |                   |
|----------------|---|-------------------|
| Test Channel   | : | Low/ Middle/ High |
| Operation mode | : | A,B               |

Remark: Testing was carried out within frequency range 30MHz to the tenth harmonic.

For details refer to Appendix D.

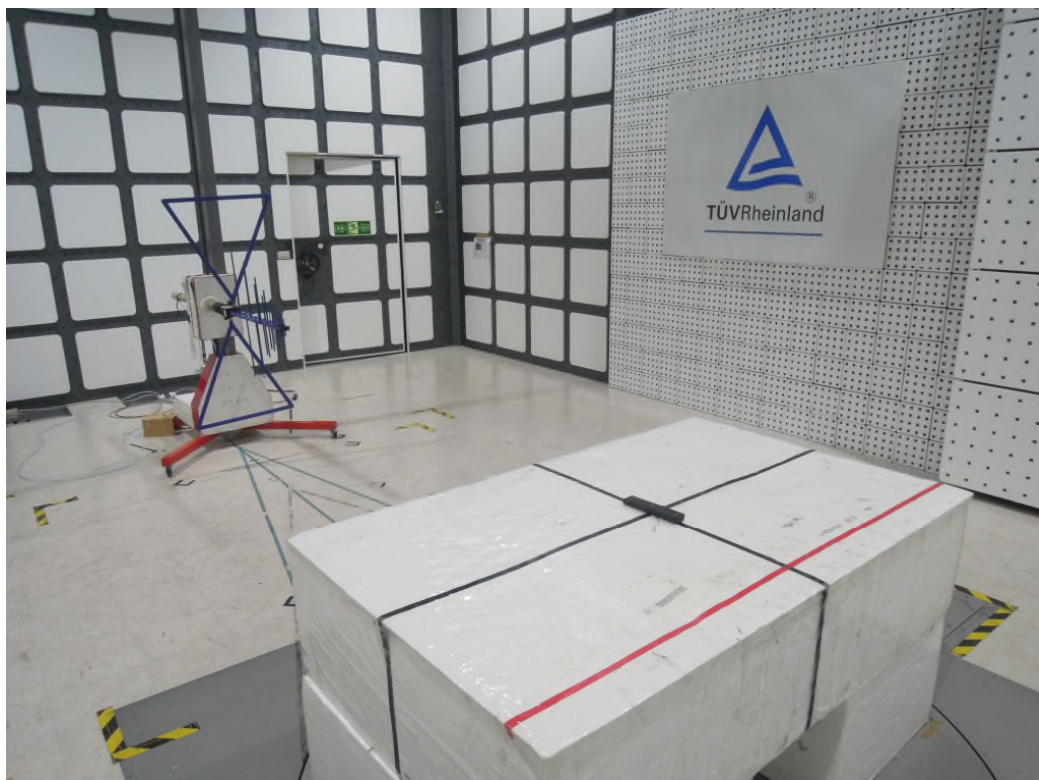
Testing was carried out within frequency range 30MHz to the tenth harmonic. For details refer to Appendix D. The Radiated Emissions testing was performed in the X, Y and Z axis orientation. The worst-case Axis orientation is recorded in this test report. Due to the small size of the product and that there are no inductive components of significant size, 9kHz to 30MHz frequency range is not tested based on technical judgment.

## 6. Photographs of the Test Set-Up

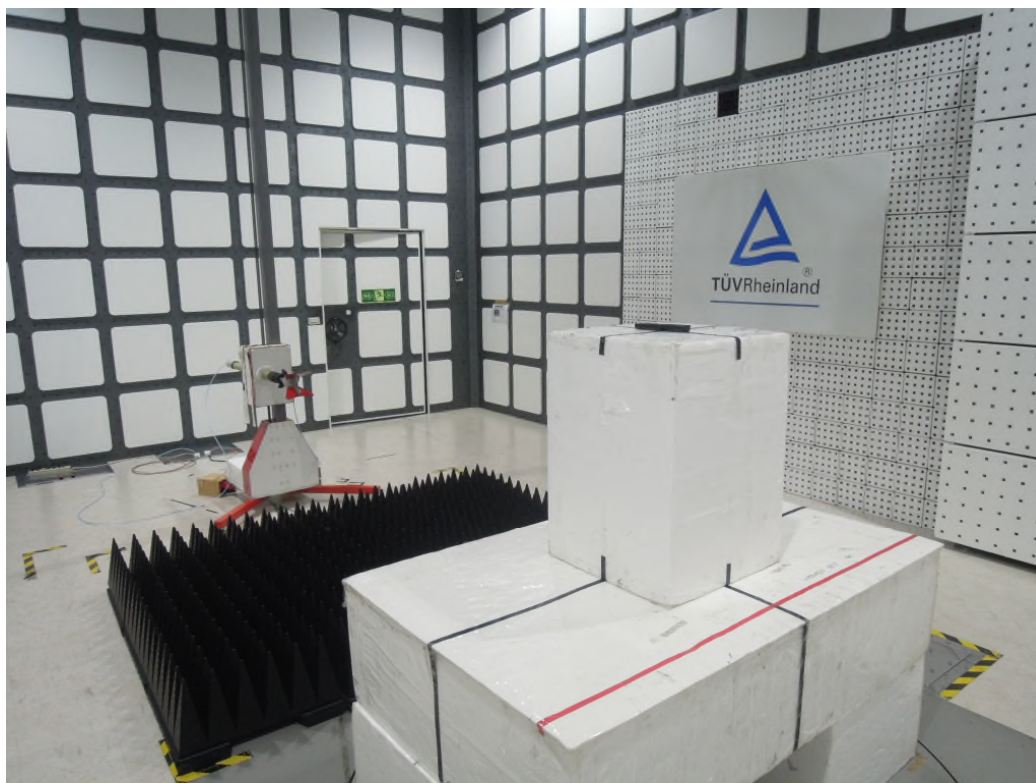
**Photograph 1: Set-up for Spurious Emissions (Front View)**



**Photograph 2: Set-up for Spurious Emissions (Back View 1)**



**Photograph 3: Set-up for Spurious Emissions (Back View 2)**



**Photograph 4: Set-up for Conducted testing**



**Photograph 5: Set-up for Conducted testing**



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