

 Prüfbericht-Nr.:
 10055847 001
 Auftrags-Nr.:
 114043236
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 Test Report No.:
 Order No.:
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**Kunden-Referenz-Nr.:** N/A **Auftragsdatum:** 16-Nov-2015

Client Reference No.: Order date:

Auftraggeber: Adonit Co., Ltd., 9F-2, No. 99, Fuxing N. Road, Songshan District, Taipei 10595,

Client: Taiwan

Prüfgegenstand: Bluetooth Touch Pen

Test item:

Bezeichnung / Typ-Nr.: Adonit Pixel (074)

Identification / Type No.:

Auftrags-Inhalt: FCC Part15C / IC RSS-247 Test report (BLE)

Order content:

Prüfgrundlage:

Test specification: FCC 47CFR Part 15: Subpart C Section 15.247

RSS-247 (05-2015)

Wareneingangsdatum: 25-Mar-2016

Date of receipt:

 Prüfmuster-Nr.:
 A000330185-008

 Test sample No.:
 A000330185-007

**Prüfzeitraum:** 31-Mar-2016 - 31-Mar-2016

Testing period:

Ort der Prüfung: EMC/RF Laboratory Taipei

Place of testing:

**Prüflaboratorium:** TUV Rheinland Taiwan Ltd.

Testing laboratory:

geprüft von / tested by:

Prüfergebnis\*: Pass

Test result\*:

kontrolliert von / reviewed by:

10 20 30 40 20 20 10 00 06 08 07 08 02 01 02 02 01

udodouduniga kiidankii dundondii idaa keelaadaa dii dii dii markii dii markii da ka ka ka ka ka ka ka ka ka ka

00 08 07 03 03 04 08 02 01 00 06 08 07 03 03

2016-04-12 Amy S.R.Hsu /Engineer 2016-04-12 Arvin Ho/Department Manager

 Datum
 Name / Stellung
 Unterschrift
 Datum
 Name / Stellung
 Unterschrift

 Date
 Name / Position
 Signature
 Date
 Name / Position
 Signature

Sonstiges / Other:

**Zustand des Prüfgegenstandes bei Anlieferung:** Prüfmuster vollständig und unbeschädigt Condition of the test item at delivery: Test item complete and undamaged

Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft

P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet

Legend: $1 = very \ good$ 2 = good3 = satisfactory4 = sufficient5 = poor $P(ass) = passed \ a.m. \ test \ specification(s)$  $F(ail) = failed \ a.m. \ test \ specification(s)$  $N/A = not \ applicable$  $N/T = not \ tested$ 

P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested

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.

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.



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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

5.2.1 Mains Conducted Emissions

RESULT: Passed

6.1.1 ELECTROMAGNETIC FIELDS

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: 10055847APPENDIX P)

**Appendix D: Test Result of Radiated Emissions** 

(File Name: 10055847APPENDIX D)

**Test Specifications** 

The following standards were applied.

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

#### Radio

FCC CFR47 Part 15: Subpart C Section 15.247 RSS-247 Issue 1 May 2015 RSS-Gen, Issue 4, November 2014 ANSI C63.10:2013 KDB558074 D01 DTS Meas Guidance v02



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## 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.: 365730 IC Canada Registration No.: 9465A-1 TAF Accredited NCC Test Lab. No.:0759

TAF ISO17025 Certification effective periods: 2013-Jul-1st to 2016-Jun-30th



Testing Laboratory 0759

Produkte Products

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# 2.3 List of Test and Measurement Instruments

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

Kind of Equipment	Manufacturer	Туре	S/N	Last Calibration	Next Calibration
EMI Test Receiver	R&S	ESR7	101062	10-Sep-15	10-Sep-16
Spectrum Analyzer	R&S	FSV 40	100921	21-Dec-15	21-Dec-16
Spectrum Analyzer	Agilent	N9010Å	MY53470241	15-Apr-15	15-Apr-16
Preamplifier (30MHz -1GHz)	HP	8447F	2805A03335	31-Aug-15	31-Aug-16
Preamplifier (18 GHz -40 GHz)	COM- POWER	PAM-840	461257	19-Nov-15	19-Nov-16
Pre-Amplifier (1GHz~18GHz)	EM Electronics	EM01G18G	060558	19-Nov-15	19-Nov-16
Bilog Antenna	TESEQ	CBL6111D	29802	4-Jul-14	4-Jul-16
Horn Antenna	ETS- Lindgren	3117	138160	12-Jan-15	12-Jan-17
Horn Antenna (18GHz~40GHz)	COM- POWER	AH840	101031	22-Oct-15	21-Oct-17
Loop Antenna	Schwarzbeck	FMZB 1513	1513-076	21-Oct-14	20-Oct-16
EMI Test Receiver	R&S	ESCI7	100797	28-Dec-15	27-Dec-16
Spectrum Analyzer	R&S	FSL3	101943	7-Sep-15	7-Sep-16
Temp. & Humid. Chamber	Giant Force	GCT-099- 40-S	MAF0103- 007	13-Jul-15	12-Jul-16
LISN	R&S	ENV216	101262	16-Jun-15	15-Jun-16
Test Software	Farad	EZ_EMC	Ver. TUV3A1	N/A	N/A
Test Software	Audix	e3	Ver. 9	N/A	N/A
Test Software	Agilent	300328 testsystem	V1.9.1	N/A	N/A
Power sensor	Agilent	U2021XA	MY53480013	11-Mar-16	10-Mar-17

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# 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	± 1 x 10 <sup>-7</sup>
RF power, conducted	± 1.5 dB
RF power density, conducted	± 3 dB
spurious emissions, conducted	± 3 dB
all emissions, radiated	± 6 dB
Temperature	± 1 °C
Humidity	± 5 %
DC and low frequency voltages	±3 %

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# 3. General Product Information

## 3.1 Product Function and Intended Use

The EUT is a Bluetooth Touch Pen. It contains a Bluetooth 4.0 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	Bluetooth Touch Pen
Type Designation	Adonit Pixel (074)
FCC ID	ZCC-J10007
Canada ID	11771A-J10007
Canada HVIN	074

**Table 5: Technical Specification of EUT** 

Technical Specification	Value
Operating Frequencies	2402~2480 MHz
Channel Spacing	2 MHz
Channel number	40
Operation Voltage	5 Vdc
Modulation	GFSK
Antenna gain	0.5 dBi



#### Produkte Products

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# 3.3 Independent Operation Modes

Basic operation modes are:

- A. Transmitting
  - 1. Low channel
  - 2. Middle channel
  - 3. High channel
- B. Receiving
- C. Standby
- D. Off

# 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



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# 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: Test samples are provided with a SPI to USB interface which makes it possible to control them through a test software installed on a notebook computer.

This software was running on the laptop computer connected to the EUT. It was used to enable the operation modes listed in section 3.3 as appropriate.

The samples were used as follows:

Conducted: A000330185-008 Radiation: A000330185-007

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:

Description	Manufacturer	Model No.	Serial No.
Notebook(EMC-06)	Lenovo	TP00048A	PB-0F8B2

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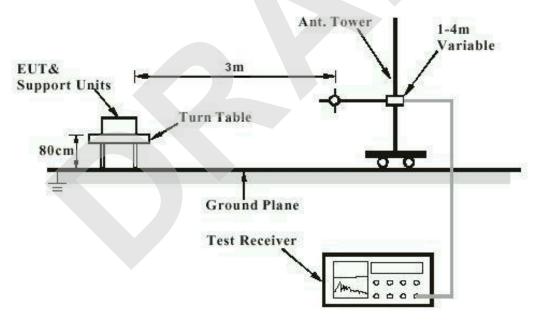
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# 4.4 Countermeasures to achieve EMC Compliance

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** 



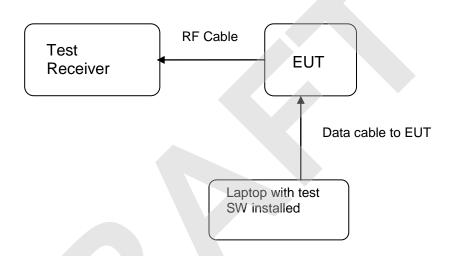
Note: Measurements above 1 GHz are done with a table height of 1.5m

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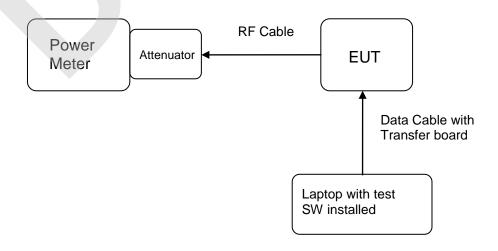
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# Diagram of Measurement Equipment Configuration for Conducted Transmitter Measurement



# Diagram of Measurement Equipment Configuration for Conducted Transmitter Measurement (Power meter)





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## 5. Test Results

# **5.1 Transmitter Requirement & Test Suites**

## 5.1.1 Antenna Requirement

RESULT: Passed

Test standard : LP0002(2011): 2.2, 3.10.1, (3)

FCC Part 15.247(b)(4), Part 15.203 and RSS-

Gen 8.3

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 0.5 dBi. The antenna is a Chip Antenna soldered to the PCB 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.



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## 5.1.2 Peak Output Power

RESULT: Passed

Test standard : LP0002(2011): 3.10.1, (2)

FCC Part 15.247(b)(3), RSS-247 5.4(4)

Basic standard : ANSI C63.10:2013, KDB558074

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 Channel Frequency		Power	Limit
	(MHz)	(dBm)	(W)	(W)
Low Channel	2402	6.047	0.0040	1
Middle Channel	2440	6.425	0.0044	1
High Channel	2480	6.674	0.0046	1

Pmax: 4.6 mW



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#### 5.1.3 6dB Bandwidth

**RESULT: Passed** 

Test standard LP0002(2011): 3.10.1, (5)

FCC Part 15.247(a)(2), RSS-247 5.2(1)

Basic standard ANSI C63.10:2013, KDB558074

Kind of test site Shielded room

Test setup

Test Channel Low/ Middle/ High

Operation Mode

20-24°C Ambient temperature 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	688.3	>500	Pass
Mid Channel	2440	688.3	>500	Pass
High Channel	2480	710.2	>500	Pass

#### Table 8: Test result of 99% Bandwidth,

Channel	Channel Frequency (MHz)	99% Bandwidth (MHz)
Mid Channel	2440	1.0439



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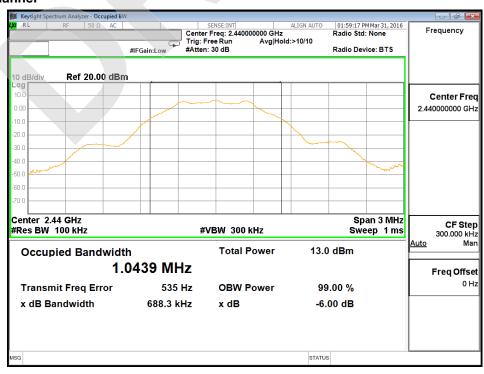
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#### Test Plot of 6dB Bandwidth

#### **Low Channel**



#### Middle Channel





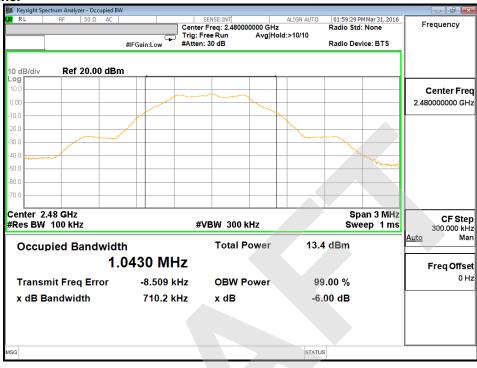
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High Channel





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## 5.1.4 Power Density

**RESULT: Passed** 

Test standard LP0002(2011): 3.10.1, (6.2.2)

FCC Part 15.247(e), RSS-247 5.2(2)

ANSI C63.10:2013, KDB558074 Basic standard

Kind of test site Shielded room

**Test setup** 

Test Channel Low/ Middle/ High

Operation Mode

Ambient temperature 20-24°C Relative humidity 50-65% 100-103 kPa Atmospheric pressure

#### **Table 9: Test result of Power Density**

Channel	Channel Frequency	Power Density	Limit
	(MHz)	(dBm)	(dBm)
Low Channel	2402	-7.89	8
Middle Channel	2440	-9.05	8
High Channel	2480	-8.31	8



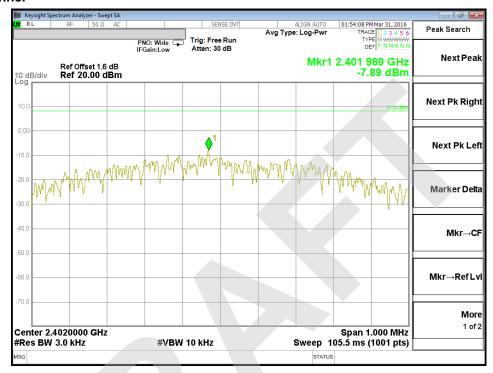
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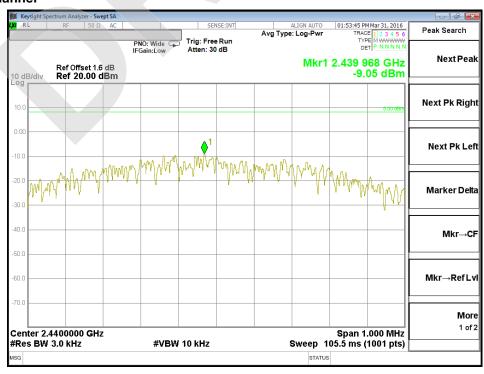
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# **Test Plot of Power Density**

#### **Low Channel**



#### **Middle Channel**





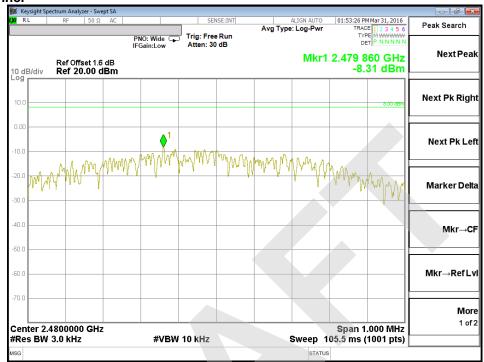
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High Channel

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# 5.1.5 Conducted spurious emissions and Frequency Band Edge measured in 100kHz Bandwidth

RESULT: Passed

Test standard : LP0002(2011): 3.10.1, (5)

FCC part 15.247(d), RSS-247 5.5

Basic standard : ANSI C63.10:2013, KDB558074

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/ High

Operation mode :

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.



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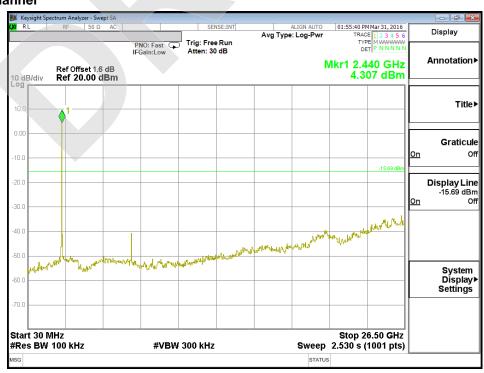
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### **Test Plot 100kHz Conducted Emissions**

#### **Low Channel**



#### **Middle Channel**





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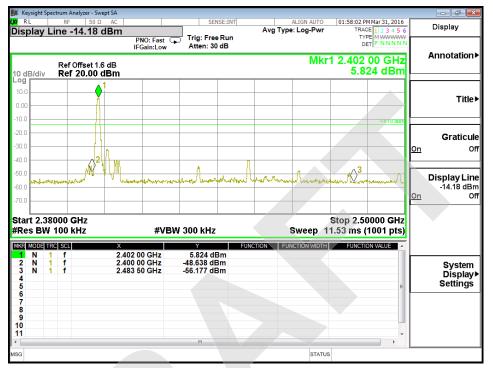
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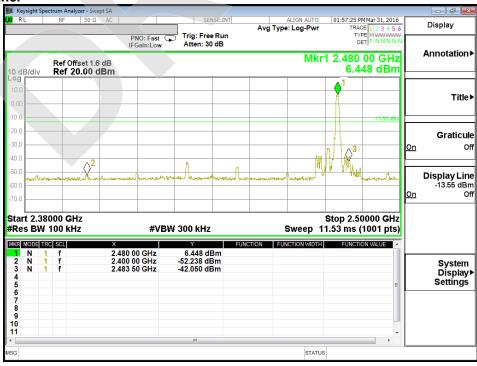
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## Test Plot 100kHz RBW of Band Edge

#### **Low Channel**



**High Channel** 





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## **5.1.6 Spurious Emission**

RESULT: **Passed** 

Test standard FCC part 15.247(d), FCC 15.205, FCC 15.209, RSS-210

2.2, RSS-247 5.5 and RSS-Gen 8.9

LP0002(2011): 3.10.1, (5)

Basic standard ANSI C63.10: 2009

Limits Radiated emissions which fall in the restricted bands, as

> defined in FCC 15.205(a) and RSS-Gen i4, 8.9 (Table 6), must comply with the radiated emission limits specified in FCC 15.209(a) and RSS-Gen i4, 8.9 (Table 4 and 5). Radiated emissions which fall in the restricted bands, as defined in LP0002(2011): 2.7, must comply with the radiated emission limits specified in LP0002(2011): 2.8 Emission radiated outside the specified frequency bands must comply with the radiated emission limits specified in FCC 15.209(a) and FCC 15.249(a), RSS-Gen i4, 8.9

(Table 4 and 5) and RSS-210 A2.9(a).

Emission radiated outside the specified frequency bands must comply with the radiated emission limits specified in

LP0002(2011): 2.8

3m Semi-Anechoic Chamber Kind of test site

**Test setup** 

Low/ Middle/ High **Test Channel** 

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.



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## 5.2 Mains Emissions

#### **5.2.1 Mains Conducted Emissions**

**RESULT: Passed** 

Test standard FCC Part 15.207

FCC Part 15.107 RSS-Gen 8.8 LP0002: 2.3

Limits Mains Conducted emissions as defined in

above standards

Kind of test site Shielded Room

**Test setup** 

**Test Channel** Middle Operation mode

Remark: For details refer to Appendix D.



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# 6. Safety Human exposure

# **6.1 Radio Frequency Exposure Compliance**

## **6.1.1 Electromagnetic Fields**

RESULT: Passed

Test standard : FCC KDB Publication 447498 D01 v06

The maximum peak output power of the transmitter is 4.6 mW.

Hence the EUT is excluded from SAR evaluation.

Please also refer to FCC KDB publication 447498 D01 v06: Mobile Portable RF Exposure



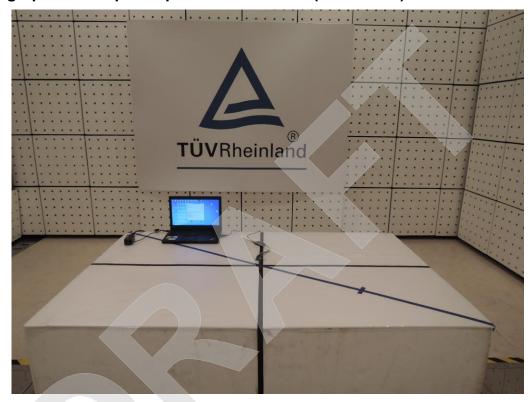
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# 7. Photographs of the Test Set-Up

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

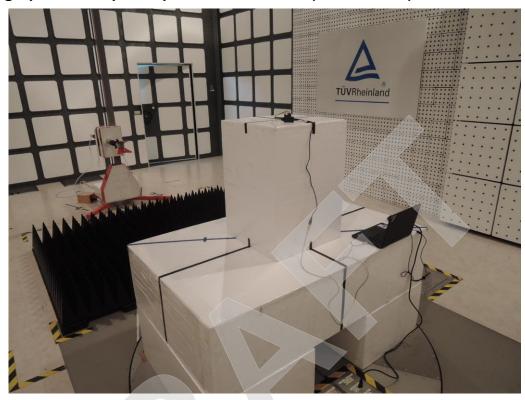




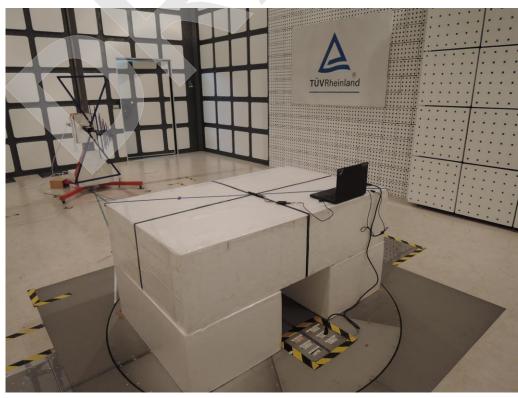
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Photograph 2: Set-up for Spurious Emissions (Back View 1)



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





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## Photograph 4: Set-up for Conducted testing



Photograph 5: Set-up for for Mains Conducted testing Back





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# **Photograph 6: Set-up for Mains Conducted testing Front**





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