

Seite 1 von 35 Prüfbericht-Nr.: 10050022 001 Auftrags-Nr.: 114029061 Order No.: Page 1 of 35 Test Report No .: Auftragsdatum: November 12, 2014 Kunden-Referenz-Nr.: N/A Order date: Client Reference No .: Auftraggeber: Adonit Co., Ltd., 9F-2, No.99, Fuxing N. Rd., Songshan Dist, Taipei City, Taiwan Client: 10595, R.O.C. Prüfgegenstand: Bluetooth Touch Pen Test item: Bezeichnung / Typ-Nr.: 050(Jot Script) Identification / Type No .: Auftrags-Inhalt: FCC/NCC/IC Test report Order content: Prüfgrundlage: Test specification: FCC 47CFR Part 15: Subpart C Section 15.247 RSS-210 (12-2010) A8 NCC Low-power Radio-frequency Devices Technical Regulations LP0002(2011) Wareneingangsdatum: 01/12/2015 Date of receipt: Prüfmuster-Nr.: A000161042-001 Test sample No .: A000153957-002 28-Jan-2015 - 3-Feb-2015 Prüfzeitraum: Testing period: Ort der Prüfung: EMC/RF Laboratory Taipei Place of testing: Prüflaboratorium: TUV Rheinland Taiwan Ltd. Testing laboratory: Prüfergebnis\*: Pass Test result\*: geprüft von I tested by: kontrolliert von I reviewed by: Rene Charton/Senior Project Manager 2015-02-05 2015-02-05 Arvin Ho/Department Manager Unterschrift Name / Stellung Unterschrift Datum Datum Name / Stellung Name / Position Signature Date Name / Position Signature Date Sonstiges I Other. Zustand des Prüfgegenstandes bei Anlieferung: Prüfmuster vollständig und unbeschädigt Test item complete and undamaged Condition of the test item at delivery: \* Legende: 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft 1 = sehr aut N/A = nicht anwendbar N/T = nicht getestet P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) 1 = very good 2 = good3 = satisfactory 4 = sufficient 5 = poor Legend: F(ail) = failed a.m. test specification(s) P(ass) = passed a.m. test specification(s) N/T = not tested N/A = not applicable 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 and 99% 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

**6.1.1 ELECTROMAGNETIC FIELDS** 

RESULT: Passed

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## 1. General Remarks

## 1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix P: Photo Documentation internal view

(File Name: 10050022APPENDIX P)

Appendix D: Test Result of Radiated Emissions

(File Name: 10050022APPENDIX D)

**Test Specifications** 

The following standards were applied.

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

#### Radio

NCC Low-power Radio-frequency Devices Technical Regulations LP0002(2011)(100年6月28日)

FCC CFR47 Part 15: Subpart C Section 15.247

RSS-210 Issue 8, December 2010 RSS-Gen, Issue 4, November 2014

ANSI C63.10:2009, KDB558074 D01 DTS Meas Guidance v02



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## 2. Test Sites

### 2.1 Test Facilities

TUV Rheinland Taiwan Ltd.

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

FCC Registration No.: 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



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## 2.2 List of Test and Measurement Instruments

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

Kind of Equipment	Manufacturer	Туре	S/N	Calibrated until	Used for test items
EMI Test Receiver	R&S	ESR7	101062	30-Aug-15	Spurious Emission and Frequency Band Edge
Bilog Antenna	TESEQ	CBL6111D	29802	4-Jul-15	Spurious Emission and Frequency Band Edge
Spectrum Analyzer	R&S	FSV 40	100921	16-Dec-15	6dB Bandwidth, Output Power, Power Density, Cond. Spurious Emissions, Rad. Spurious Emission
Spectrum Analyzer	Agilent	N9010A	MY53470241	19-Feb-15	6dB Bandwidth, Output Power, Power Density, Cond. Spurious Emissions, Rad. Spurious Emission
Horn Antenna	ETS-Lindgren	3117	138160	12-Jan-17	Spurious Emission and Frequency Band Edge
Horn Antenna (18GHz~40GHz)	COM- POWER	AH840	101031	29-Oct-15	Spurious Emission and Frequency Band Edge
Preamplifier (30MHz -1GHz)	HP	8447F	2805A03335	22-Aug-15	Spurious Emission and Frequency Band Edge
Preamplifier (18 GHz -40 GHz)	COM- POWER	PAM-840	461257	25-Aug-15	Spurious Emission and Frequency Band Edge
Pre-Amplifier (1GHz~18GHz)	EM Electronics	EM30180	60558	3-Nov-15	Spurious Emission and Frequency Band Edge
Loop Antenna	Schwarzbeck	FMZB 1513	1513-076	21-Oct-15	Spurious Emission and Frequency Band Edge
EMI Test Receiver	R&S	ESCI7	100797	27-Dec-15	Mains Spurious Emission
LISN (1 phase)	R&S	ENV216	101243	30-May-15	Mains Spurious Emission
LISN	Rolf Heine	NNB-2/16Z	99080	25-Aug-15	Mains Spurious Emission

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## 2.3 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.

### 2.4 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.

## 2.5 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 ºC
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 Touch Pen which can be used to draw on the touch screen of a portable device which needs to have a Bluetooth 4.0 RF interface. The pen can transmit the pen status (touch pressure) to the portable device through the built-in Bluetooth LE transmitter. 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	050(Jot Script)
Brand Name	Adonit
FCC ID	ZCC-J10006
Canada ID	11771A-J10006

### **Table 5: Technical Specification of EUT**

Technical Specification	Value
Operating Frequencies	2402~2480 MHz
Channel Spacing	2 MHz
Channel number	40
Operation Voltage	3.7 V (Li-lon)
Modulation	GFSK
Antenna gain	0.5 dBi



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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 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: A000153957-002 Radiation: A000161042-001

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:

Kind of Equipment	Manufacturer	Model Name	S/N
Laptop	HP	HSTNN-Q78C-3	CNF0339QBM

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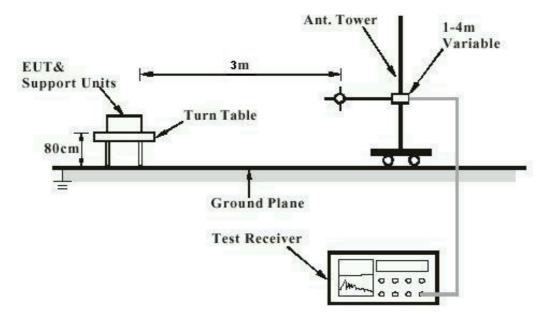
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# 4.4 Countermeasures to achieve EMC Compliance

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**





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

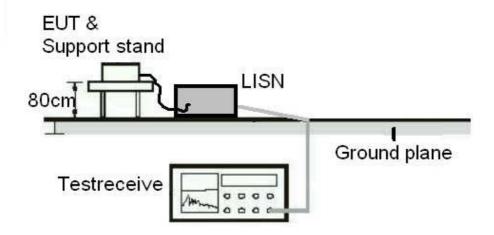
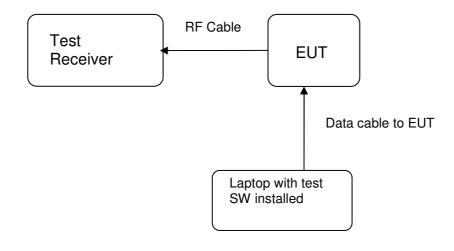


Diagram of Measurement Equipment Configuration for Conducted Transmitter Measurement





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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-210 A8.4(4)

Basic standard ANSI C63.10:2009, KDB558074

Limit 1 Watt

Kind of test site Shielded room

**Test setup** 

Test Channel Low/ Middle/ High

Operation Mode

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

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

Channel	Channel Frequency	Output	Power	Limit
	(MHz)	(dBm)	(W)	(W)
Low Channel	2402	-8.83	0.0001	1
Middle Channel	2440	-7.67	0.0002	1
High Channel	2480	-6.22	0.0002	1

Pmax: 0.238 mW



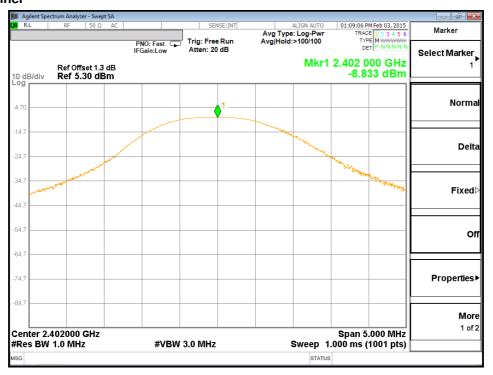
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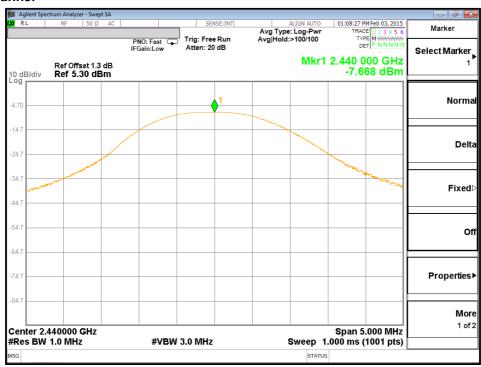
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## **Test Plot of Output Power**

#### **Low Channel**



#### **Middle Channel**





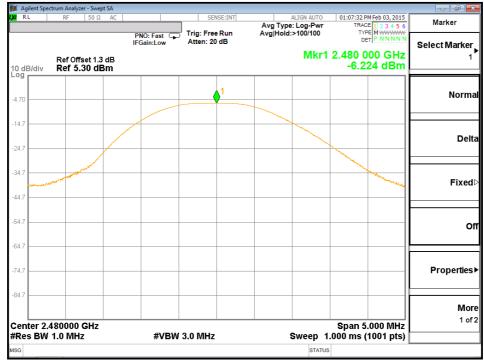
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### 5.1.3 6dB Bandwidth and 99% Bandwidth

**RESULT: Passed** 

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

FCC Part 15.247(a)(2), RSS-210 A8.2(1)

Basic standard ANSI C63.10:2009, KDB558074

Kind of test site Shielded room

Test setup

Low/ Middle/ High Test Channel

Operation Mode

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

Table 7: Test result of 6dB Bandwidth

Channel	Channel Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
Low Channel	2402	507	500	Pass
Mid Channel	2440	511	500	Pass
High Channel	2480	511	500	Pass

Table 8: Test result of 99% Bandwidth, GFSK modulation

Channel	Channel Frequency (MHz)	99% Bandwidth (kHz)
Low Channel	2402	1137.7
Mid Channel	2440	1067.8
High Channel	2480	1007.9



**Products** 

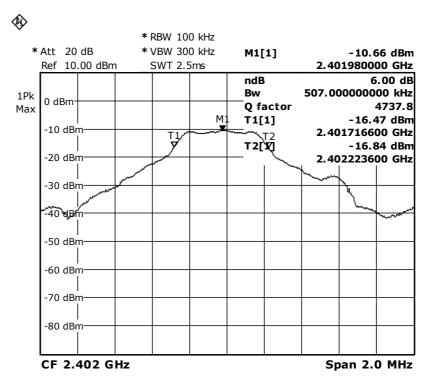
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### Test Plot of 6dB Bandwidth

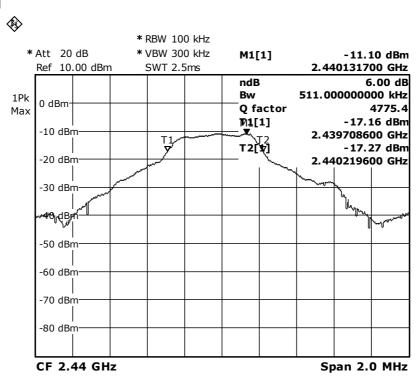
#### **Low Channel**

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Date: 5.FEB.2015 03:42:54

#### **Middle Channel**



Date: 5.FEB.2015 03:42:32

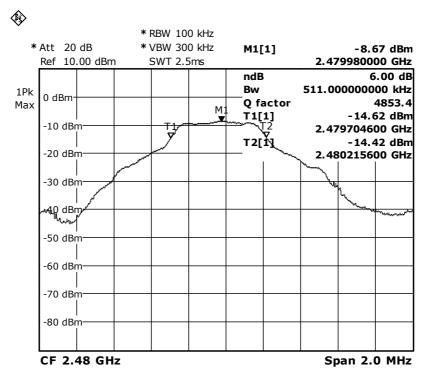


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#### **High Channel**



Date: 5.FEB.2015 03:42:10



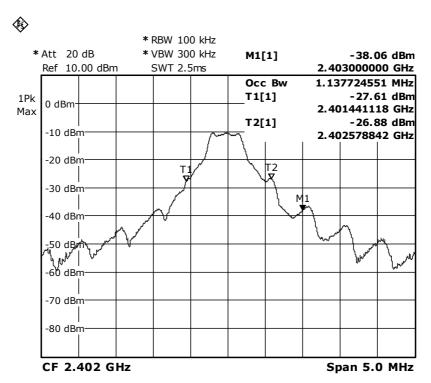
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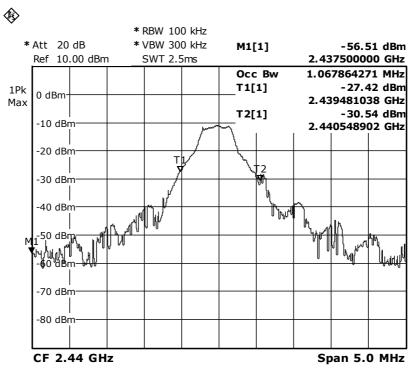
### Test Plot of 99% Bandwidth

#### **Low Channel**



Date: 5.FEB.2015 03:40:17

#### **Middle Channel**



Date: 5.FEB.2015 03:40:36

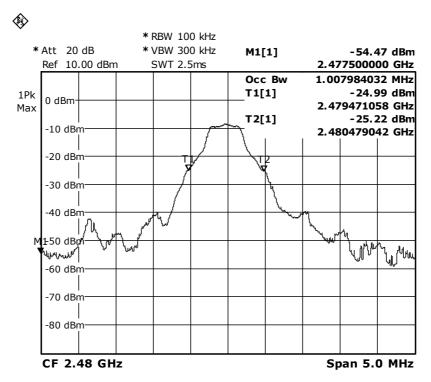


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#### **High Channel**



Date: 5.FEB.2015 03:41:26



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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-210 A8.2(2)

Basic standard : ANSI C63.10:2009, KDB558074

Kind of test site Shielded room

**Test setup** 

Test Channel Low/ Middle/ High

Operation Mode

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

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

Channel	Channel Frequency	Power Density	Limit
	(MHz)	(dBm)	(dBm)
Low Channel	2402	-12.185	8
Middle Channel	2442	-12.6	8
High Channel	2480	-10.04	8



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## **Test Plot of Power Density**

#### **Low Channel**



#### **Middle 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-210 A8.5

Basic standard : ANSI C63.10:2009, 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% 100-103 kPa Atmospheric pressure

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.



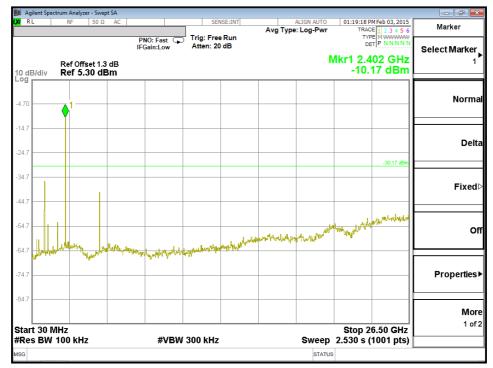
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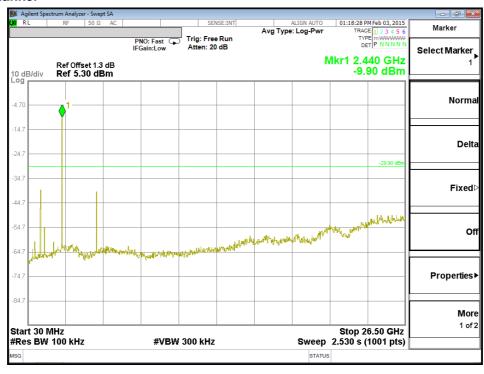
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### **Test Plot 100kHz Conducted Emissions**

#### **Low Channel**



#### **Middle Channel**





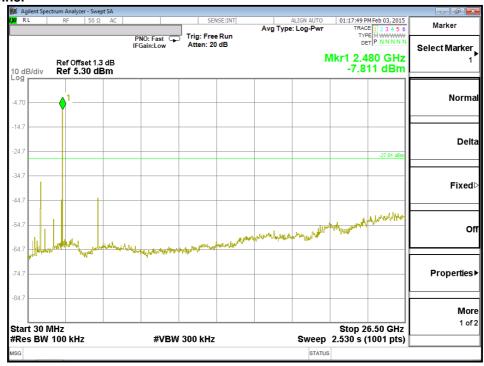
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**High Channel** 





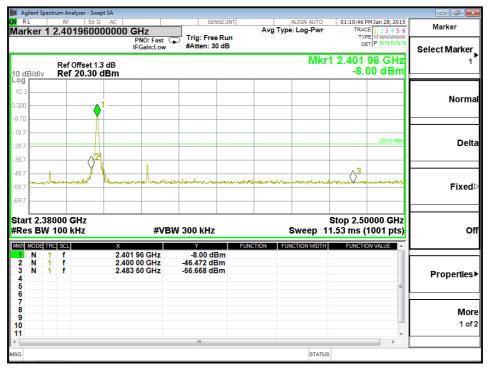
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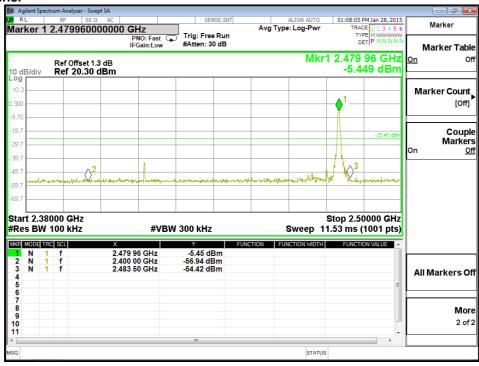
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## Test Plot 100kHz RBW of Band Edge

#### **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-210 A8.5 and RSS-Gen 8.9

LP0002(2011): 3.10.1, (5)

ANSI C63.10: 2009 Basic standard

Radiated emissions which fall in the restricted bands, as Limits

defined in FCC 15.205(a) and RSS-210 2.7 (Table 1), must comply with the radiated emission limits specified in

FCC 15.209(a) and RSS-210 2.7 (Table 2 and 3).

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-210 2.7 (Table 2

and 3) 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.



6. Safety Human exposure  6.1 Radio Frequency Exposure Compliance  6.1.1 Electromagnetic Fields  RESULT:  Test standard : FCC KDB Publication 447498 D01 v05  Since maximum peak output power of the transmitter is 0.238 mW < 1mW, hence the EU from SAR evaluation according to FCC KDB publication 447498 D01 v05: Mobile Portable Exposure.	
6.1 Radio Frequency Exposure Compliance  6.1.1 Electromagnetic Fields  RESULT:  Test standard : FCC KDB Publication 447498 D01 v05  Since maximum peak output power of the transmitter is 0.238 mW < 1mW, hence the EU from SAR evaluation according to FCC KDB publication 447498 D01 v05: Mobile Portable	
6.1.1 Electromagnetic Fields  RESULT:  Test standard : FCC KDB Publication 447498 D01 v05  Since maximum peak output power of the transmitter is 0.238 mW < 1mW, hence the EU from SAR evaluation according to FCC KDB publication 447498 D01 v05: Mobile Portable	
RESULT:  Test standard : FCC KDB Publication 447498 D01 v05  Since maximum peak output power of the transmitter is 0.238 mW < 1mW, hence the EU from SAR evaluation according to FCC KDB publication 447498 D01 v05: Mobile Portable	
Test standard : FCC KDB Publication 447498 D01 v05  Since maximum peak output power of the transmitter is 0.238 mW < 1mW, hence the EU from SAR evaluation according to FCC KDB publication 447498 D01 v05: Mobile Portable	Passed
Since maximum peak output power of the transmitter is 0.238 mW < 1mW, hence the EU from SAR evaluation according to FCC KDB publication 447498 D01 v05: Mobile Portable	1 43304



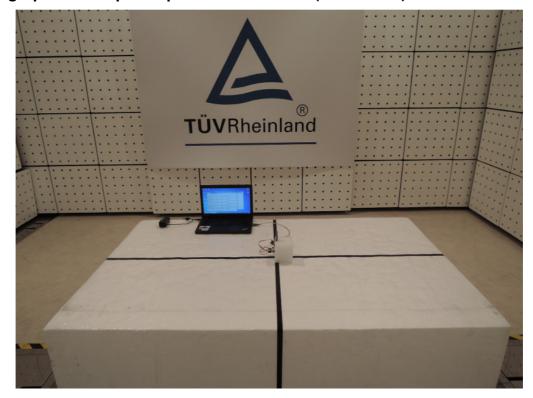
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# 7. Photographs of the Test Set-Up

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



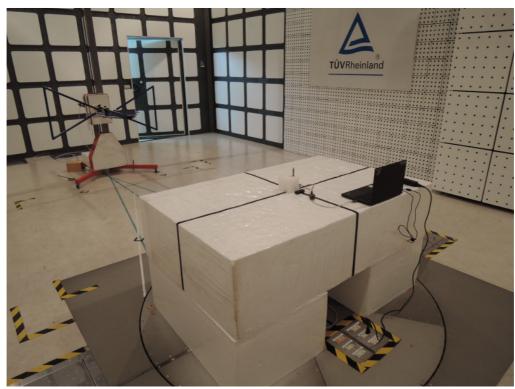


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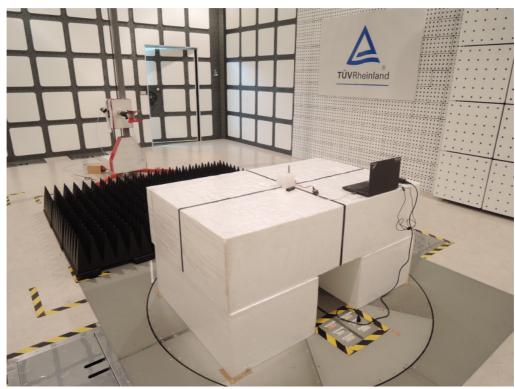
Test Report No.

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



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



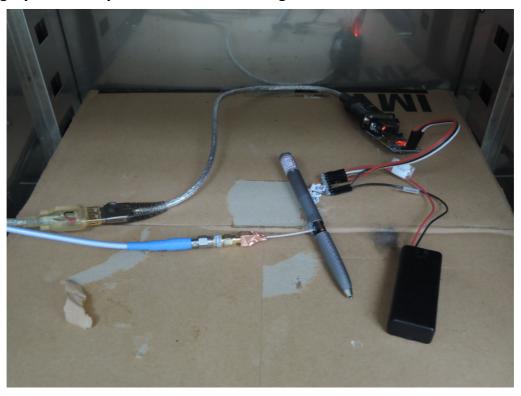


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## Photograph 4: Set-up for Conducted testing





**Products** 

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