

Prüfbericht-Nr.: 50126586 001 Auftrags-Nr.: 114067593 Seite 1 von 42 Test Report No.: Order No.: Page 1 of 42

Kunden-Referenz-Nr.: N/A Auftragsdatum: 21-Mar-2017

Client Reference No .: Order date:

Auftraggeber: Realtek Semiconductor Corp.

Client: No. 2 Innovation Road II, Hsinchu Science Park, Hsinchu 300, Taiwan

Prüfgegenstand: Bluetooth Module

Test item:

Bezeichnung / Typ-Nr.: RTL8763BA

Identification / Type No.:

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

Order content:

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

RSS-247 (02-2017)

Wareneingangsdatum: 27-Dec-2017

Date of receipt:

Prüfmuster-Nr.: A000675107-001 Test sample No .: A000675107-002

Prüfzeitraum: 4-Jan-2018 - 12-Feb-2018

Testing period:

Ort der Prüfung: EMC/RF Laboratory Taipei

Place of testing:

Prüflaboratorium: TUV Rheinland Taiwan Ltd.

Testing laboratory:

Prüfergebnis*: **Pass**

Test result*:

Report Date / tested by:

2018-03-06 SamC.J. Kuo/Engineer

Unterschrift Datum Name / Stellung Unterschrift Datum Name / Stellung Name / Position Name / Position Date Signature Date Signature

2018-03-06

kontrolliert von / reviewed by

Arvin HolVice General Manager

Sonstiges / Other:

Zustand des Prüfgegenstandes bei Anlieferung: Prüfmuster vollständig und unbeschädigt

Condition of the test item at delivery: Test item complete and undamaged

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

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 = satisfactory 4 = sufficient 5 = poorN/T = not testedP(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) 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 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

These attachments are integral parts of this test report:

Appendix P: Photo Documentation internal view (File Name: 50126586APPENDIXP)

Appendix D: Test Result of Radiated Emissions

(File Name: 50126586APPENDIXD)

Test Specifications

The following standards were applied.

Table 1: Applied Standard and Test Levels

Radio

FCC 47 CFR Part 15: Subpart C Section 15.247 FCC 47 CFR Part 2: Subpart J Section 2.1091

RSS-247 Issue 2 (Feb 2017)

RSS-102 Issue 5

RSS-Gen, Issue 4, November 2014

ANSI C63.10:2013

KDB558074 D01 DTS Meas Guidance v03r05

KDB447498 D01 General RF Exposure Guidance v06



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2. Test Sites

2.1 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



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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
Test Software	Farad	EZ_EMC	Ver. TUV3A1	N/A	N/A
EMI Test Receiver	R&S	ESR 7	101549	2017/11/10	2018/11/10
Spectrum Analyzer	R&S	FSV 40	100921	2017/05/02	2018/05/01
Spectrum Analyzer	Agilent	N9010A	MY53470241	2017/05/23	2018/05/22
Preamplifier (30MHz -1GHz)	HP	8447F	2805A03335	2017/08/14	2018/08/14
Preamplifier (18 GHz -40 GHz)	COM- POWER	PAM-840	461257	2018/01/18	2019/01/18
Pre-Amplifier (1GHz~18GHz)	EM Electronics	EM01G18G	60558	2017/11/21	2018/11/21
Bilog Antenna	TESEQ	CBL6111D	29804	2017/08/18	2018/08/18
Horn Antenna	ETS-Lindgren	3117	201918	2017/08/18	2018/08/18
Horn Antenna (18GHz~40GHz)	COM- POWER	AH-840	101029	2017/11/28	2018/11/28
Loop Antenna	Schwarzbeck	FMZB 1513	1513-076	2017/06/14	2018/06/14
LISN (1 phase)	R&S	ENV216	101243	2017/06/18	2018/06/18
LISN	R&S	ENV216	101262	2017/06/22	2018/06/21

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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 ⁻⁷
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 Bluetooth Module. It contains a Bluetooth 5.0 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 Module
Type Designation	RTL8763BA
Brand Name	Realtek
FCC ID	TX2-RTL8763BA
IC	6317A- RTL8763BA
HVIN	RTL8763BA

Table 5: Technical Specification of EUT

Technical Specification	Value
Operating Frequencies	2402~2480 MHz
Channel Spacing	2 MHz
Channel number	40
Operation Voltage	5Vdc
Modulation	GFSK
Antenna gain	1.6dBi



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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 USB interface which makes it possible to control them through test software installed on a notebook computer.

This software, Bluetooth RF Test Tool V2017.7.11 provided by manufacturer 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: **A000675107-001** Radiation: **A000675107-002**

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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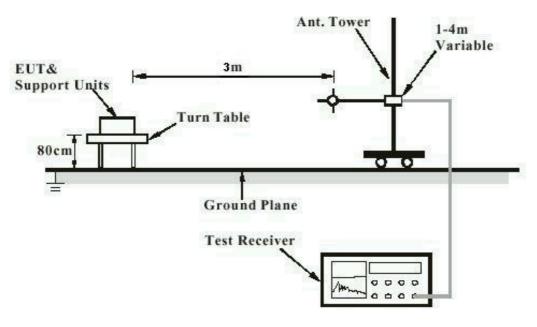
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4.4 Countermeasures to achieve EMC Compliance

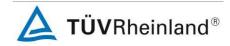
The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

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

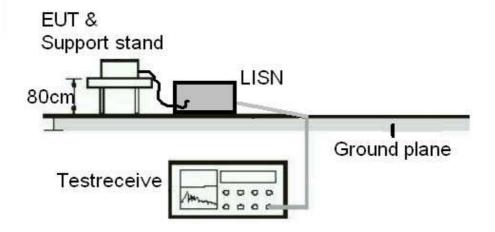
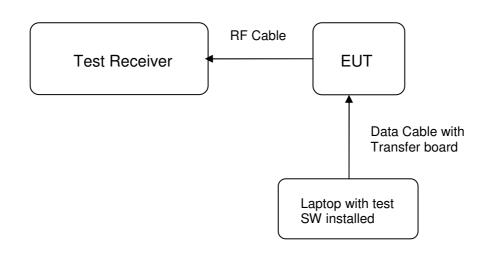


Diagram of Measurement Equipment Configuration for Conducted Transmitter Measurement





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5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT: Passed

Test standard : LP0002(2018): 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 1.6dBi. The antenna is Printed Antenna 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(2018): 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/Conducted room

Test setup

: Low/ Middle/ High

Test Channel
Operation Mode
Ambient temperature : 18-25°C : 50-65 % Relative humidity

Table 6: Test result of Peak Output Power

Channel	Channel Frequency	Output Power		Limit
	(MHz)	(dBm)	(W)	(W)
Low Channel	2402	8.88	0.00773	1
Middle Channel	2440	8.91	0.00778	1
High Channel	2480	8.06	0.00640	1

Maximum Output Power: 7.78mW

Table 7: Test result of Peak Output Power

Channel	Channel Frequency	Output Power		Limit
	(MHz)	(dBm)	(W)	(W)
Low Channel	2402	8.85	0.00767	1
Middle Channel	2440	8.91	0.00778	1
High Channel	2480	8.03	0.00635	1

Maximum Output Power: 7.78mW



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5.1.3 6dB Bandwidth 99% Bandwidth

RESULT: Passed

Test standard

 LP0002(2018): 3.10.1.0 (∠)(A)
 FCC Part 15.247(a)(2), RSS-247 5.2(1)
 ANSI C63.10:2013, KDB558074
 Shielded room/Conducted room Basic standard Kind of test site

Test setup

: Low/ Middle/ High

Test Channel : Low/ Mid Operation Mode : A Ambient temperature : 18-25°C Relative humidity : 50-65 %

Table 8: Test result of 6dB Bandwidth (1M)

Channel	Channel Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
Low Channel	2402	669	>500	Pass
Mid Channel	2440	669.3	>500	Pass
High Channel	2480	667.7	>500	Pass

Table 9: Test result of 6dB Bandwidth (2M)

Channel	Channel Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
Low Channel	2402	1134	>500	Pass
Mid Channel	2440	1154	>500	Pass
High Channel	2480	1121	>500	Pass



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Table 10: Test result of 99% Bandwidth (1M)

Channel	Channel Frequency (MHz)	99% Bandwidth (MHz)
Mid Channel	2440	1.0346

Table 11: Test result of 99% Bandwidth (2M)

Channel	Channel Frequency (MHz)	99% Bandwidth (MHz)	
Mid Channel 2440		2.0385	

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Test Plot of 6dB Bandwidth (1M)

Low Channel



Middle Channel





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Test Plot of 6dB Bandwidth (2M)

Low Channel



Middle Channel





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Test Plot of 99% Bandwidth (1M)





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Test Plot of 99% Bandwidth (2M)





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5.1.4 Power Density

RESULT: Passed

Test standard : LP0002(2018): 3.10.1,6 (2) (B)

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

: ANSI C63.10:2013, KDB558074 Basic standard : Shielded room/Conducted room Kind of test site

Test setup

Containel : Low/ Middle/ High Operation Mode : A Ambient temperature : 18-25°C Relative humidity Relative humidity : 50-65 %

Table 12: Test result of Power Density (1M)

	Channel Frequency	Power Density	Limit
		(dBm)	(dBm)
Low Channel	2402	-6.29	8
Middle Channel	2440	-6.79	8
High Channel	2480	-7.28	8

Table 13: Test result of Power Density (2M)

Channel	Channel Frequency (MHz)	Power Density	Limit
		(dBm)	(dBm)
Low Channel	2402	-9.46	8
Middle Channel	2440	-7.87	8
High Channel	2480	-10.03	8





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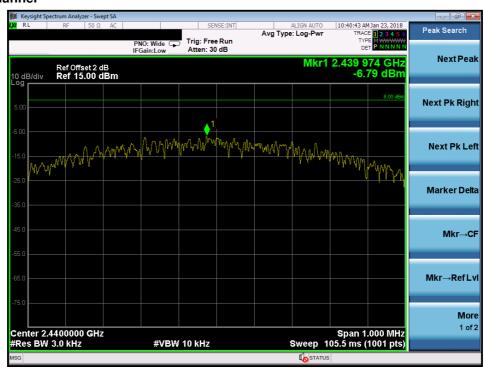
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Test Plot of Power Density (1M)

Low Channel



Middle Channel





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High Channel

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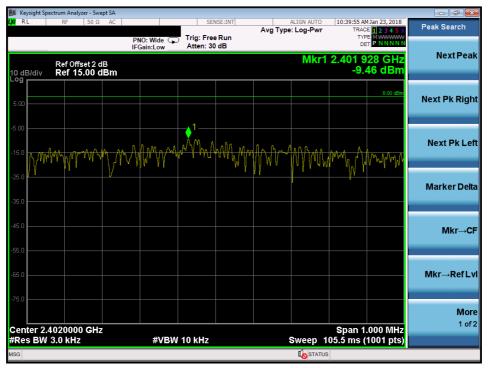
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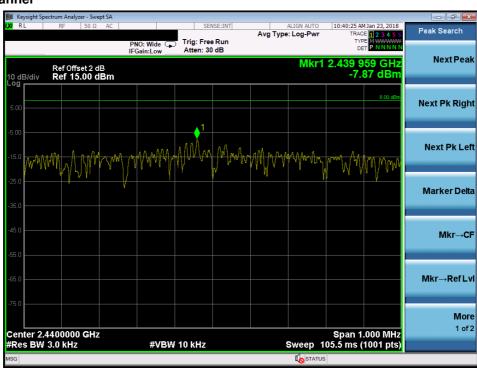
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Test Plot of Power Density (2M)

Low Channel



Middle Channel





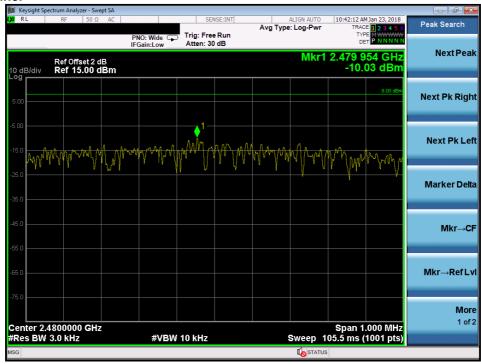
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5.1.5 Conducted spurious emissions and Frequency Band Edge measured in 100kHz Bandwidth

RESULT: Passed

Test standard : LP0002(2018): 3.10.1.5

FCC part 15.247(d), RSS-247 5.5

Basic standard

: ANSI C63.10:2013, KDB558074 : 20dB (below that in the 100kHz bandwidth within the Limit

band that contains the highest level of the desired power)

Kind of test site : Shielded room/Conducted room

Test setup

Test Channel : Low/ High

Operation mode

Ambient temperature : 18-25°C : 50-65 % Relative humidity

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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Test Plot 100kHz Conducted Emissions (1M)

Low Channel

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Middle Channel





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Test Plot 100kHz Conducted Emissions (2M)

Low Channel



Middle Channel





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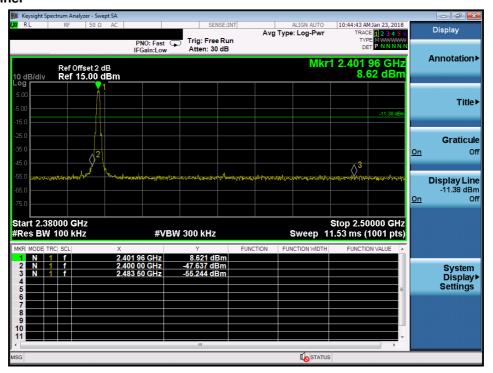
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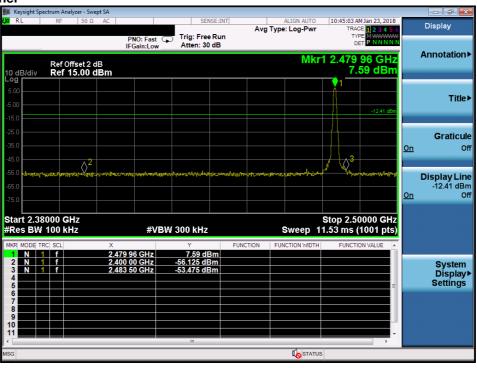
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Test Plot 100kHz RBW of Band Edge (1M)

Low Channel

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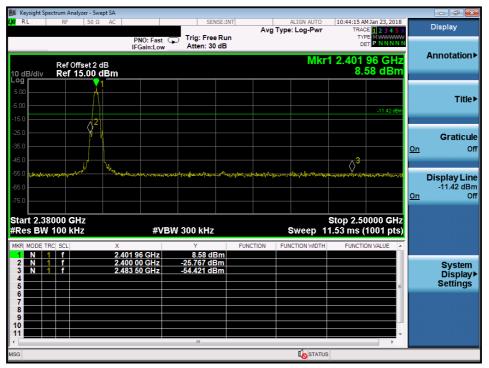
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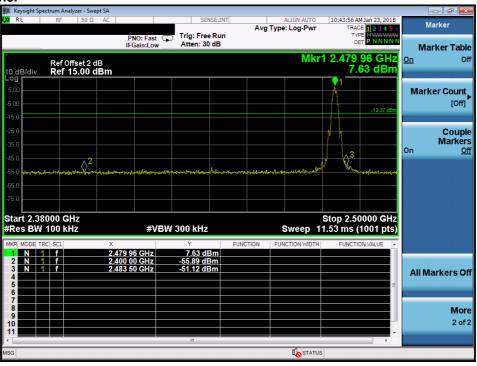
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Test Plot 100kHz RBW of Band Edge (2M)

Low Channel







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5.1.6 Spurious Emission

RESULT: Passed

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

2.2, RSS-247 5.5 and RSS-Gen 8.9

LP0002(2018): 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(2018): 2.7, must comply with the radiated emission limits specified in LP0002(2018): 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(2018): 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.



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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

47 C.F.R. §§ 1.1310 RSS-102 Issue 5

Separation distance is more than 20 cm, thus mobile device exposure limits can be applied.

Maximum Exposure:

Power to Antenna (mW)	7.78 mW
Power to Antenna (dBm)	8.9 dBm
Antenna Gain	1.6 dBi
Power+Ant Gain	11.2 mW
Distance	20 cm
S=	0.002 mW/cm^2

Limit FCC:

0.3-1.34 MHz (100) mW/cm² 1.34-30 MHz (180/f2) mW/cm² 30-300 MHz 0.2 mW/cm² 300-1500 MHz f/1500 mW/cm² 1500-100,000 MHz 1.0 mW/cm²

Limit Canada: $0.02619f^{0.6834}$

---End---



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7. Photographs of the Test Set-Up

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



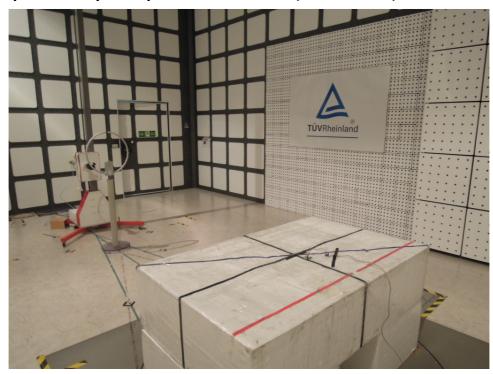


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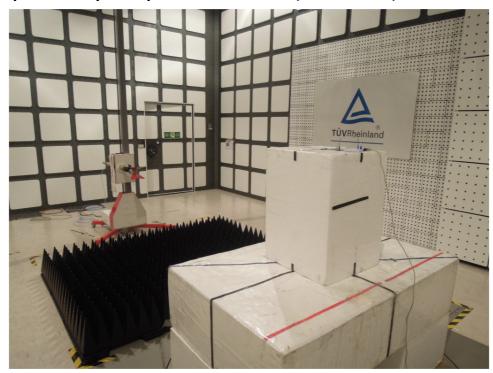
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Photograph 2: Set-up for Spurious Emissions (Back View 1)



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





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Photograph 4: Set-up for Spurious Emissions (Back View 3)



Photograph 5: Set-up for Conducted testing



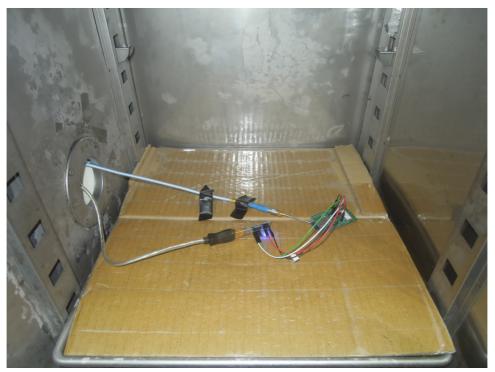


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Photograph 6: Set-up for Conducted testing





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