

N/T = not tested

N/A = not applicable

Prüfbericht-Nr.: 50097223 001 Auftrags-Nr.: 114058583 Seite 1 von 46 Test Report No.: Order No.: Page 1 of 46 Kunden-Referenz-Nr.: N/A Auftragsdatum: 28-Nov-2016 Order date: Client Reference No.: Liyatech Corporation., 20F.-8, No.7, Sec. 3, New Taipei Blvd., Xinzhuang Dist., New Auftraggeber: Taipei City 242, Taiwan (R.O.C.) Client: Prüfgegenstand: LRM001 Test item: Bezeichnung / Typ-Nr.: LRM001-915 Identification / Type No.: Auftrags-Inhalt: FCC Part 15C (DTS) Order content. Prüfgrundlage: Test specification: FCC 47CFR Part 15: Subpart C Section 15.247 Wareneingangsdatum: 12-Jan-2017 Date of receipt. Prüfmuster-Nr.: A000467270-001 Test sample No.: Prüfzeitraum: 17-Feb-2017 - 03-Aug-2017 Testing period: Ort der Prüfung: **EMC Laboratory Taipei** Place of testing: Prüflaboratorium: TUV Rheinland Taiwan Ltd. Testing laboratory. Prüfergebnis*: **Pass** Test result*: geprüft von / tested by: kontrolliert von / reviewed b 2018-04-09 Sam C.J. Kuo/Engineer Arvin Ho/Vice General Manager 2018-04-09 Datum Name / Stellung Unterschrift Datum Name / Stellung Unterschrift Name / Position Date 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 = gut3 = 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 = sufficient

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.

F(ail) = failed a.m. test specification(s)

P(ass) = passed a.m. test specification(s)

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

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

The following attachments are integral parts of this test report:

Appendix P: Photo Documentation

(File Name: 50097223APPENDIX P)

Appendix D: Test Result of Radiated Emissions

(File Name: 50097223APPENDIX D)

Test Specifications

The following standards were applied (in bold: product standards, otherwise: basic standards).

Table 1: Applied Standard and Test Levels

Radio

FCC CFR47 Part 15: Subpart C Section 15.247 ANSI C63.10:2013 KDB558074 D01 DTS Meas Guidance v03r05



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2. Test Sites

2.1 Test Facilities

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	Manu-facturer	Туре	S/N	Last Calibration	Next Calibration
Test Software	Farad	EZ_EMC	Ver. TUV3A1	N/A	N/A
EMI Test Receiver	R&S	ESR7	101062	2016/09/12	2017/09/12
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	2016/07/29	2017/07/29
Preamplifier (18 GHz -40 GHz)	COM- POWER	PAM-840	461257	2016/12/01	2017/12/01
Pre-Amplifier (1GHz~18GHz)	EM Electronics	EM01G18G	060558	2016/11/17	2017/11/17
Bilog Antenna	TESEQ	CBL6111D	29802	2016/8/10	2017/8/10
Horn Antenna	ETS- Lindgren	3117	138160	2017/5/25	2018/5/25
Horn Antenna (18GHz~40GHz)	COM- POWER	AH-840	101031	2016/11/22	2017/11/22
Loop Antenna	Schwarzbeck	FMZB 1513	1513-076	2017/6/14	2018/6/14
EMI Test Receiver	R&S	ESCI7	100797	2016/12/30	2017/12/30
Spectrum Analyzer	R&S	FSL3	101943	2015/09/07	2017/09/07
Temp. & Humid. Chamber	Giant Force	GCT-099- 40-S	MAF0103- 007	2015/07/13	2017/07/12
LISN (1 phase)	R&S	ENV216	101243	2017/6/18	2018/6/18
LISN	R&S	ENV216	101262	2016/06/16	2017/06/16
Power sensor	Agilent	U2021XA	MY54020001	2017/03/08	2018/03/07

Products

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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 by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basics using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements are $\pm 3 \text{dB}$.

Table 3: Emission Measurement Uncertainty

Parameter	Uncertainty
RF power, conducted	± 1.5 dB
Adjacent channel power	± 3 dB
Radiated emission of transmitter, valid up to 26 GHz	± 6 dB
Radiated emission of receiver, valid up to 26 GHz	± 6 dB
Temperature	± 2 °C
Humidity	± 10 %



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3. General Product Information

3.1 Product Function and Intended Use

The EUT is a LoRa Module, it contains a 902MHz - 928MHz Wireless 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	LRM001	
Type Designation	LRM001-915	
FCC ID	2ALXW-LRM001915010	

Table 5: Technical Specification of EUT

Technical Specification	Value
Operating Frequencies	903 MHz - 914.2MHz
Operating Frequencies	923.3MHz - 927.5 MHz
Channel Spacing	903 MHz - 914.2MHz : 1.6M
Chariner Spacing	923.3MHz - 927.5 MHz: 0.6M
Channel number	903 MHz - 914.2MHz : 8
Chaillerhumber	923.3MHz - 927.5 MHz: 8
Operation Voltage	5Vdc
Modulation	LoRa
Antenna gain	2 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

- Bill of Material
- PCB Layout
- Photo Document
- Technical Description

- Circuit Diagram
- Instruction Manual
- Rating Label



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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 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: A000467270 001 Radiation: A000467270 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:

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

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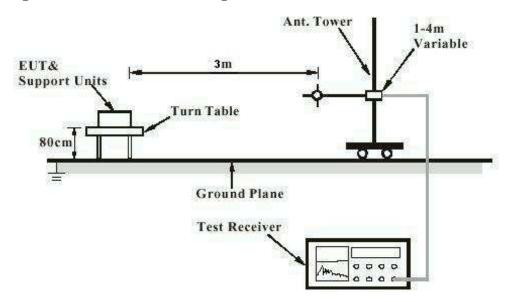
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4.4 Countermeasures to achieve EMC Compliance

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)

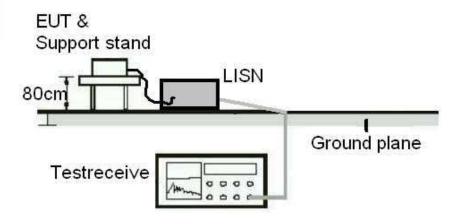
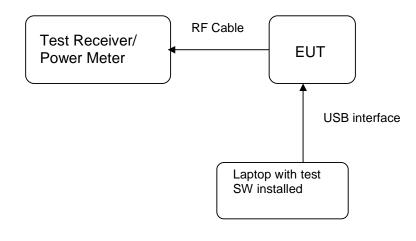


Diagram of Measurement Equipment Configuration for Conducted Transmitter Measurement





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5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT: Passed

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

Gen 8.3

Limit : the use of antennas with directional gains that do not

exceed 6 dBi

According to the manufacturer declaration, the EUT has an antenna with a directional gain of 2 dBi . The antenna is a dipole 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 : FCC Part 15.247(b)(3), RSS-247 5.4(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 : A

Ambient temperature : 22-26 °C Relative humidity : 50-65 % Atmospheric pressure : 100-103 kPa

Table 6: Test result of Peak Output Power (903 MHz - 914.2MHz)

Channel	Channel Frequency	Output Power		Limit
	(MHz)	(dBm)	(W)	(W)
Low Channel	903.0	7.50	0.00562	1
Middle Channel	907.8	7.48	0.00559	1
High Channel	914.2	7.38	0.00547	1

Table 7: Test result of Peak Output Power (923.3MHz - 927.5 MHz)

Channel	Channel Frequency	Output Power		Limit
	(MHz)	(dBm)	(W)	(W)
Low Channel	923.3	7.20	0.00525	1
Middle Channel	925.1	7.17	0.00521	1
High Channel	927.5	7.15	0.00519	1

Max Value: 5.62mw



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5.1.3 6dB Bandwidth and 99% Bandwidth

RESULT: Passed

Test standard : FCC Part 15.247(a)(2), RSS-247 5.2(1)
Basic standard : ANSI C63.10:2009, KDB558074

Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High

Operation Mode : A

Ambient temperature : 22-26°C
Relative humidity : 50-65%
Atmospheric pressure : 100-103 kPa



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Table 8: Test result of 6dB Bandwidth (903 MHz - 914.2MHz)

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
Low Channel	903.0	0.7422	0.5	Pass
Mid Channel	907.8	0.7631	0.5	Pass
High Channel	914.2	0.7536	0.5	Pass

Table 9: Test result of 6dB Bandwidth (923.3MHz - 927.5 MHz)

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
Low Channel	923.3	0.7653	0.5	Pass
Mid Channel	925.1	0.7624	0.5	Pass
High Channel	927.5	0.7617	0.5	Pass



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Table 10: Test result of 99% Bandwidth (903 MHz - 914.2MHz)

Channel	Channel Frequency (MHz)	99% Bandwidth (MHz)
Low Channel	903.0	0.64090
Mid Channel	907.8	0.63793
High Channel	914.2	0.64160

Table 11: Test result of 99% Bandwidth (923.3MHz - 927.5 MHz)

Channel	Channel Frequency (MHz)	99% Bandwidth (MHz)
Low Channel	923.3	0.62684
Mid Channel	925.1	0.61886
High Channel	927.5	0.65338



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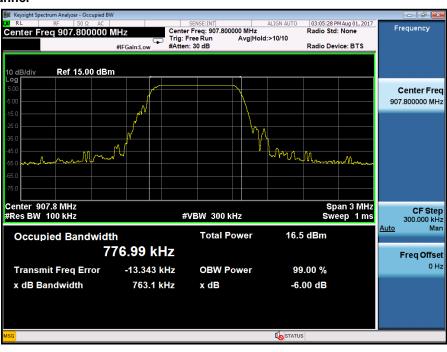
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Test Plot of 6dB Bandwidth (903 MHz - 914.2MHz)

Low Channel



Middle Channel



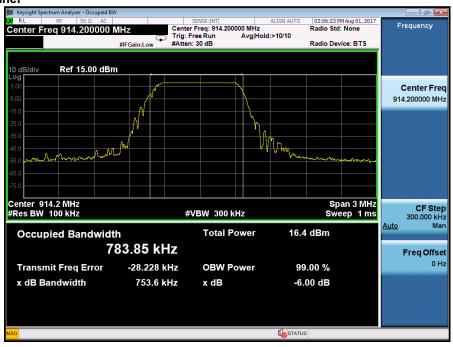


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High Channel

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Test Plot of 6dB Bandwidth (923.3MHz - 927.5 MHz)

Low Channel



Middle Channel





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High Channel

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Test Plot of 99% Bandwidth (903 MHz - 914.2MHz)

Low Channel



Middle Channel



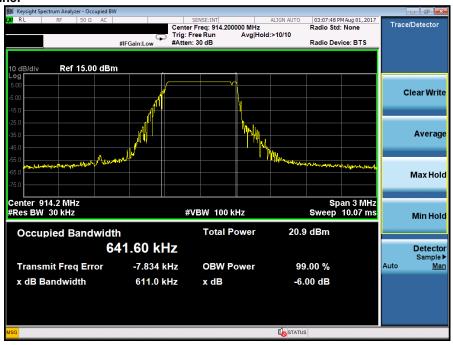


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High Channel

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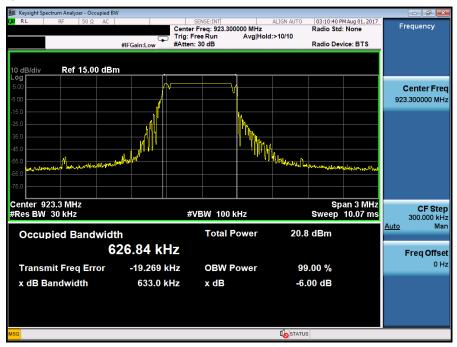


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Test Plot of 99% Bandwidth (923.3MHz - 927.5 MHz)

Low Channel



Middle Channel





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High Channel

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Produkte Products

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5.1.4 Power Density

RESULT: Passed

Test standard : FCC Part 15.247(e) , RSS-247 5.2(2) Basic standard : ANSI C63.10:2009, KDB558074

Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High

Operation Mode : A

Ambient temperature : 22-26°C
Relative humidity : 50-65%
Atmospheric pressure : 100-103 kPa

Table 12: Test result of Power Density (903 MHz - 914.2MHz)

Channel	Channel Frequency (MHz)	Power Density	Limit
		(dBm)	(dBm)
Low Channel	903.0	4.244	8
Middle Channel	907.8	4.410	8
High Channel	914.2	3.650	8

Table 13: Test result of Power Density (923.3MHz - 927.5 MHz)

Channel	Channel Frequency (MHz)	Power Density	Limit
		(dBm)	(dBm)
Low Channel	923.3	3.55	8
Middle Channel	925.1	3.88	8
High Channel	927.5	3.51	8

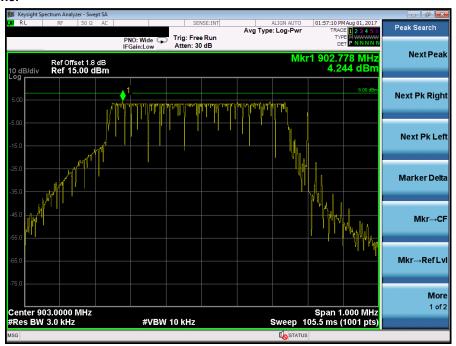


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Test Plot of Power Density (903 MHz - 914.2MHz)

Low Channel



Middle Channel





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High Channel





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Test Plot of Power Density (923.3MHz - 927.5 MHz)

Low Channel



Middle Channel





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High Channel





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Test Report No.

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

RESULT: Passed

FCC part 15.247(d), RSS-247 5.5 Test standard ANSI C63.10:2009, KDB558074 Basic standard

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

Test setup

Test Channel Low/ High

Operation mode

22-26°C Ambient temperature Relative humidity 50-65% Atmospheric pressure 100-103 kPa

All emissions are more than 30dB below fundamental, details refer to following test plot, and compliance is achived 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.

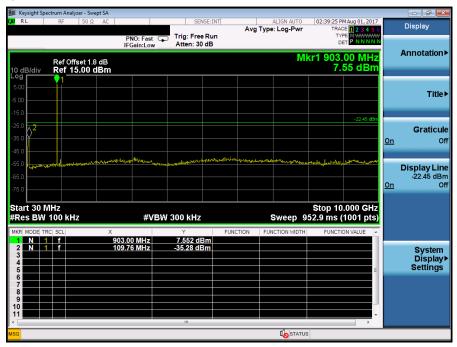


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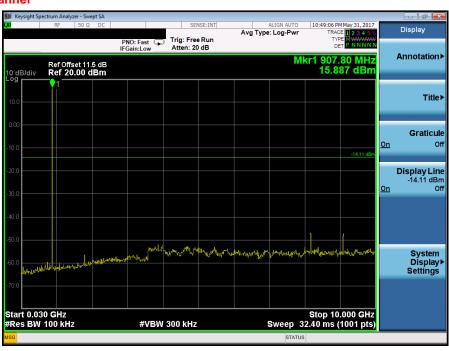
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Test Plot 100kHz Conducted Emissions (903 MHz - 914.2MHz)

Low Channel



Middle Channel



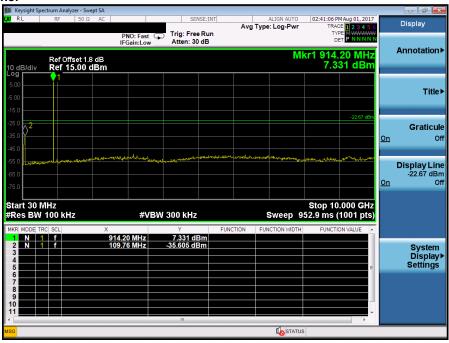


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High Channel

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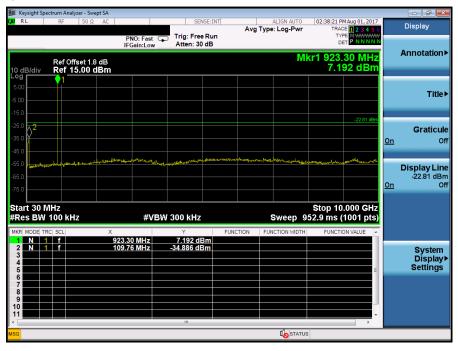


Test Report No.

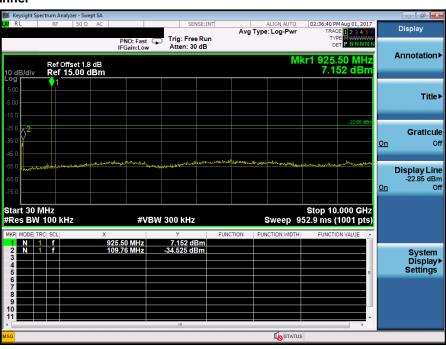
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Test Plot 100kHz Conducted Emissions(923.3MHz - 927.5 MHz)

Low Channel



Middle Channel



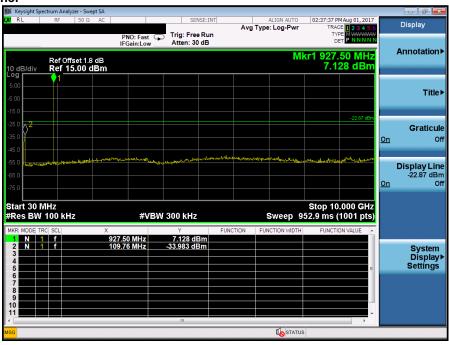


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High Channel

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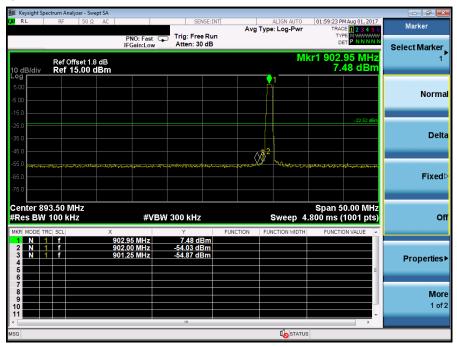


Test Report No.

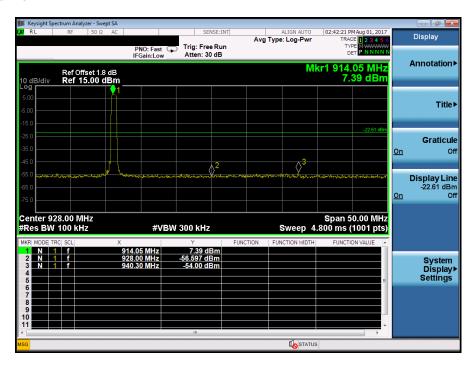
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Test Plot 100kHz RBW of Band Edge (903 MHz - 914.2MHz)

Low Channel



High Channel



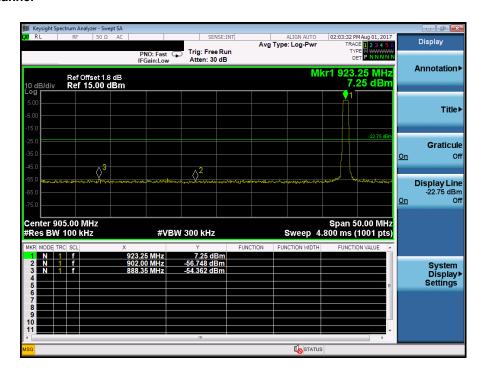


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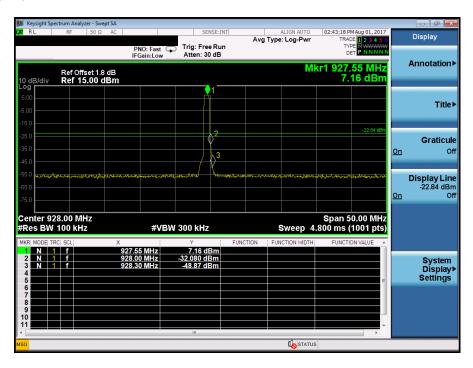
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Test Plot 100kHz RBW of Band Edge (923.3MHz - 927.5 MHz)

Low Channel



High Channel





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Test Report No.

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

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

Radiated emissions which fall in the restricted bands, as defined in LP0002(2016): 2.7, must

comply with the radiated emission limits

specified in LP0002(2016): 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(2016): 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.

The Radiated Emissions testing was performed in the X, Y and Z axis orientation. The X Axis orientation is the worst-case and 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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Test Report No.

5.2 Mains Emissions

5.2.1 Mains Conducted Emissions

RESULT: Passed

FCC Part 15.207 Test standard

FCC Part 15.107 RSS-Gen 8.8

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

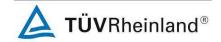
RESULT: Passed

Test standard : FCC KDB Publication 447498 D01 v06

RSS--102

FCC:

Since maximum peak output power of the transmitter is 5.62 mW < 10mW, hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01 v05: Mobile Portable RF Exposure



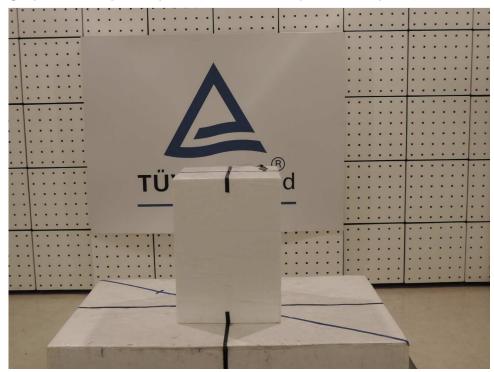
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Photographs of the Test Set-Up

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



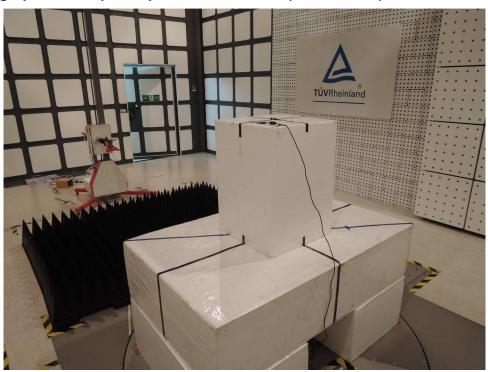


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Photograph 2: Set-up for Spurious Emissions (Back View 1)

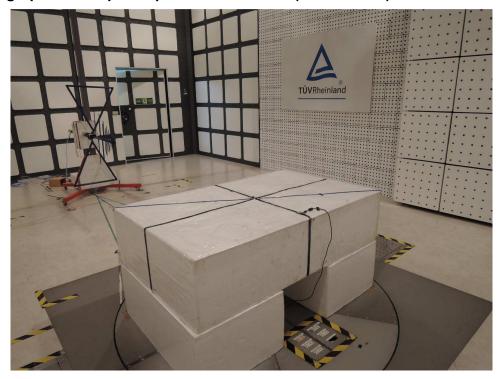




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Photograph 3: Set-up for Spurious Emissions (Back View 2)



Photograph 4: Set-up for Conducted testing





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



Photograph 6: Set-up for Mains Conducted testing Front





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