

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT**INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 15 SUBPART C REQUIREMENT
AND INDUSTRY CANADA RSS 210
CLASS II PC Report**

OF

Product Name of Host: Juno T41/5
Brand Name: Trimble
Marketing Name of Host: RH42G
Model No of Host.: JUNO/T41/5-BWCRF, JUNO/T41/5-BWCRFG
Model Difference: JUNO/T41/5-BWCRF is 2-4M GPS,
JUNO/T41/5-BWCRFG is 1M GPS
FCC ID: QV5MERCURY6E-M
IC: 5407A-MERCURY6EM
Report No.: EH/2013/B0007
Issue Date: Dec. 17, 2013
FCC Rule Part: §15.247, Cat: DSS
IC Rule Part: RSS-210 issue 8 :2010, Annex 8
Prepared for: Trimble Navigation Limited
345 SW Avery Avenue, Corvallis, OR 97333
SGS Taiwan Ltd.
Electronics & Communication Laboratory
Prepared by: No.134, Wu Kung Road, New Taipei Industrial
Park, Wuku District, New Taipei City, Taiwan
24803



Note: This report shall not be reproduced except in full, without the written approval of SGS Taiwan Ltd. This document may be altered or revised by SGS Taiwan Ltd. personnel only, and shall be noted in the revision section of the document.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

CERTIFICATION OF COMPLIANCE

Applicant: Trimble Navigation Limited
345 SW Avery Avenue, Corvallis, OR 97333

Product Name of Host: Juno T41/5

Brand Name: Trimble

Marketing Name of Host: RH42G

Model No. of Host: JUNO/T41/5-BWCRF, JUNO/T41/5-BWCRFG

Model Difference: JUNO/T41/5-BWCRF is 2-4M GPS,
JUNO/T41/5-BWCRFG is 1M GPS

FCC ID: QV5MERCURY6E-M

IC: 5407A-MERCURY6EM

File Number: EH/2013/B0007

Date of test: Nov. 18, 2013 ~ Dec. 17, 2013

Date of EUT Received: Nov. 18, 2013

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4:2009 and RSS-Gen. issue 3:2010, the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.247 and IC RSS-210 issue 8: 2010 Annex 8.

The test results of this report relate only to the tested sample identified in this report.

| | | | |
|---------------------|---|--------------|---------------|
| <i>Test By:</i> |  | <i>Date:</i> | Dec. 17, 2013 |
| | _____ <i>Nick Lin / Engineer</i> | | _____ |
| <i>Prepared By:</i> |  | <i>Date:</i> | Dec. 17, 2013 |
| | _____ <i>Julia Chang / Clerk</i> | | _____ |
| <i>Approved By:</i> |  | <i>Date:</i> | Dec. 17, 2013 |
| | _____ <i>Jim Chang / Supervisor</i> | | _____ |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Version

| Version No. | Date | Description |
|-------------|---------------|------------------------------|
| 00 | Dec. 17, 2013 | Initial creation of document |
| | | |
| | | |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Table of Contents

| | |
|---|-----------|
| 1. GENERAL INFORMATION | 5 |
| 1.1. Product Description..... | 5 |
| 1.2. Related Submittal(s) / Grant (s) | 7 |
| 1.3. Test Methodology..... | 7 |
| 1.4. Test Facility..... | 7 |
| 1.5. Special Accessories | 7 |
| 1.6. Equipment Modifications..... | 7 |
| 2. SYSTEM TEST CONFIGURATION | 8 |
| 2.1. EUT Configuration..... | 8 |
| 2.2. EUT Exercise | 8 |
| 2.3. Test Procedure..... | 8 |
| 2.4. Configuration of Tested System..... | 9 |
| 3. SUMMARY OF TEST RESULTS | 11 |
| 4. DESCRIPTION OF TEST MODES | 12 |
| 5. MEASUREMENT UNCERTAINTY..... | 13 |
| 6. CONDUCTED EMISSION TEST | 14 |
| 6.1. Standard Applicable: | 14 |
| 6.2. Measurement Equipment Used: | 14 |
| 6.3. EUT Setup:..... | 15 |
| 6.4. Test SET-UP (Block Diagram of Configuration) | 15 |
| 6.5. Measurement Procedure:..... | 15 |
| 6.6. Measurement Result:..... | 15 |
| 7. PEAK OUTPUT POWER MEASUREMENT..... | 18 |
| 7.1. Standard Applicable: | 18 |
| 7.2. Measurement Equipment Used: | 18 |
| 7.3. Test Set-up:..... | 18 |
| 7.4. Measurement Procedure:..... | 19 |
| 7.5. Measurement Result:..... | 19 |
| 9. SPURIOUS EMISSION TEST | 22 |
| 9.1. Standard Applicable: | 22 |
| 9.2. Measurement Equipment Used: | 23 |
| 9.3. Test SET-UP:..... | 24 |
| 9.4. Measurement Procedure:..... | 25 |
| 10.4 Field Strength Calculation..... | 26 |
| 10.5 Measurement Result:..... | 26 |
| 10. ANTENNA REQUIREMENT | 33 |
| 10.1. Standard Applicable: | 33 |
| 10.2. Antenna Connected Construction | 33 |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

1. GENERAL INFORMATION

1.1. Product Description

General:

| | | |
|----------------------------|--|--|
| Product Name of Host: | Juno T41/5 | |
| Brand Name: | Trimble | |
| Marketing Name of Host: | RH42G | |
| Model No. of Host.: | JUNO/T41/5-BWCRF, JUNO/T41/5-BWCRFG | |
| Model difference: | JUNO/T41/5-BWCRF is 2-4M GPS, JUNO/T41/5-BWCRFG is 1M GPS | |
| Hardware Version: | 2.0 | |
| Software Version: | 2.1 | |
| Data Cable: | Model: A9136939, Supplier: Sinbon | |
| Power Supply: | 3.7Vdc Rechargeable Li-polymer battery or 5Vdc from adapter | |
| | Battery: | Model No.: S11GD103A, Supplier: LICO |
| | Adapter: | Model No.: PSA10F-050Q-R, Supplier: PHIHONG TECHNOLOGY CO., LTD |
| Class II Permissive Change | <ol style="list-style-type: none"> The subject approved RFID module is being used in a host system (Product Name: Juno T41/5, Brand name: Trimble, Model No.: JUNO/T41/5-BWCRF, JUNO/T41/5-BWCRFG) RFID Module FCC ID:QV5MERCURY6E-M, IC Model name:M6E-MICRO, IC ID: 5407A-MERCURY6EM RFID Antenna gain is 0.17dBi of equivalent type. patch (lower than original RFID IC Certificate:6dBi) RF exposure impact due to collocated transmitter is re-evaluated using the justified basis given in RSS102/KDB 447498 D01, where the analysis to comply with the RF exposure due to simultaneous transmitters is given in SAR report of the submission | |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

RFID:

| | |
|----------------------|--|
| RFID Modular Report: | Test Lab: Curtis-Straus LLC, Report Number: EK2037-2 Applicant: Trimble Navigation Limited, Model Number: M6E-MICRO |
| Frequency Range: | 902.75 – 927.25MHz |
| Channel number: | 50 channels |
| Modulation type: | PR-ASK |
| Transmit Power: | 29.63dBm (Peak) |
| Dwell Time: | <= 0.4s |
| Operating Mode: | Point-to-Point |
| Antenna Designation: | Part number:MPAC29SE921P-TA, Ceramic Patch Antenna , Gain: 0.17dBi |

This test report applies for RFID function.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

1.2. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: QV5MERCURY6E-M** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules and **IC: 5407A-MERCURY6EM** filing to comply with Industry Canada RSS-210 issue 8: 2010 Annex 8. The composite system (digital device) is compliance with Subpart B is authorized under a Doc procedure.

1.3. Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4:2009. Radiated testing was performed at an antenna to EUT distance 3 meters. Tested in accordance with FCC Public Notice DA 00-705

1.4. Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2009. FCC Registration Number are: 990257, Canada Registration Number: 4620A-4.

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 &10 meters) and FCC Registration Number: 94644.

1.5. Special Accessories

Not available for this EUT intended for grant.

1.6. Equipment Modifications

Not available for this EUT intended for grant.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3. Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 7.3.1 of ANSI C63.4:2009 RSS-Gen Issue3: 2010. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and Average detector mode.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna according to the requirements in Section 8 and 13 of ANSI C63.4:2009 and DA 00-705.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

2.4. Configuration of Tested System

Fig. 2-1 Radiated Emission and Conducted (Antenna Port) Configuration

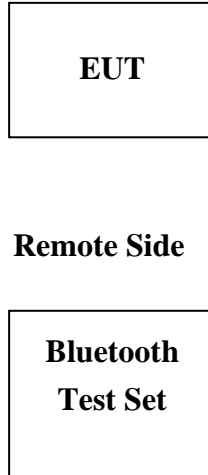


Table 2-1 Equipment Used in Tested System

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Data Cable | Power Cord |
|------|--------------------|-----------|----------------|------------|------------|------------|
| 1. | Bluetooth Test Set | Anritsu | MT8852B | 6k00006107 | N/A | N/A |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
 除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Fig. 2-2 AC Power line Conducted Emission



Remote Side



Table 2-2 Equipment Used in Tested System

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Data Cable | Power Cord |
|------|--------------------|-----------|----------------|------------|------------|------------|
| 2. | Bluetooth Test Set | Anritsu | MT8852B | 6k00006107 | N/A | N/A |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

3. SUMMARY OF TEST RESULTS

| FCC/IC Rules | Description Of Test | Result |
|--|----------------------------------|-----------|
| §15.207(a) RSS-Gen §7.2.4 | AC Power Line Conducted Emission | Compliant |
| §15.247(b)(1) RSS-210 issue 8, §A8.4(1) | Peak Output Power | Compliant |
| §15.247(d) §15.209(a) (f) RSS-Gen §7.2.5 RSS-210 issue 8, §A8.5 | Spurious Emission | Compliant |
| §15.203, RSS- Gen issue §7.1.2 | Antenna Requirement | Compliant |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Channel Low(902.75MHz), Mid (914.75MHz) and High (927.25MHz) with were chosen as worst case for full testing.

The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for Bluetooth Transmitter for channel Low, Mid and High the worst case E2 position was reported.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

5. MEASUREMENT UNCERTAINTY

| Test Items | Uncertainty |
|--|--------------------------|
| AC Power Line Conducted Emission | +/- 2.586 dB |
| Peak Output Power | +/- 1.55 dB |
| 20dB Bandwidth & 99% Power Bandwidth | +/- 123.36 Hz |
| 100 KHz Bandwidth Of Frequency Band Edges | +/- 1.55 dB |
| Frequency Separation | +/- 123.36 Hz |
| Number of hopping frequency | +/- 123.36 Hz |
| Time of Occupancy | +/- 123.36 Hz |
| Temperature | +/- 0.8 °C |
| Humidity | +/- 4.7 % |
| DC / AC Power Source | DC= +/- 1%, AC= +/- 0.2% |

Radiated Spurious Emission:

| | |
|--|----------------------------|
| Measurement uncertainty (Polarization : Vertical) | 30MHz - 180MHz: +/- 3.37dB |
| | 180MHz -417MHz: +/- 3.19dB |
| | 0.417GHz-1GHz: +/- 3.19dB |
| | 1GHz - 18GHz: +/- 4.04dB |
| | 18GHz - 40GHz: +/- 4.04dB |

| | |
|--|----------------------------|
| Measurement uncertainty (Polarization : Horizontal) | 30MHz - 167MHz: +/- 4.22dB |
| | 167MHz -500MHz: +/- 3.44dB |
| | 0.5GHz-1GHz: +/- 3.39dB |
| | 1GHz - 18GHz: +/- 4.08dB |
| | 18GHz - 40GHz: +/- 4.08dB |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

6. CONDUCTED EMISSION TEST

6.1. Standard Applicable:

According to §15.207 and RSS-Gen §7.2.4, frequency range within 150 KHz to 30MHz shall not exceed the Limit table as below.

| Frequency range MHz | Limits dB(uV) | |
|------------------------|------------------|----------|
| | Quasi-peak | Average |
| 0.15 to 0.50 | 66 to 56 | 56 to 46 |
| 0.50 to 5 | 56 | 46 |
| 5 to 30 | 60 | 50 |

Note

- The lower limit shall apply at the transition frequencies
- The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

6.2. Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|------------|-------------------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EMI Test Receiver | R&S | ESCI7 | 100760 | 05/27/2013 | 05/26/2014 |
| LISN | Rolf-Heine | NNB-2/16Z | 99012 | 03/23/2013 | 03/22/2014 |
| LISN | FCC | FCC-LISN-50/250-25-2-01 | 04034 | 03/23/2013 | 03/22/2014 |
| Coaxial Cables | N/A | WK CE Cable | N/A | 01/05/2013 | 01/04/2014 |

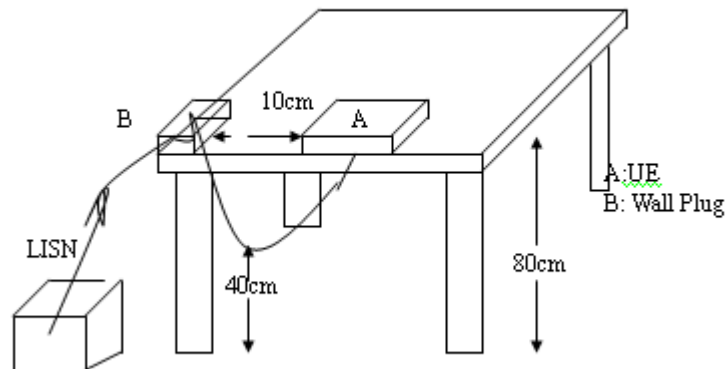
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

6.3. EUT Setup:

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4-2009.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

6.4. Test SET-UP (Block Diagram of Configuration)



6.5. Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

6.6. Measurement Result:

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

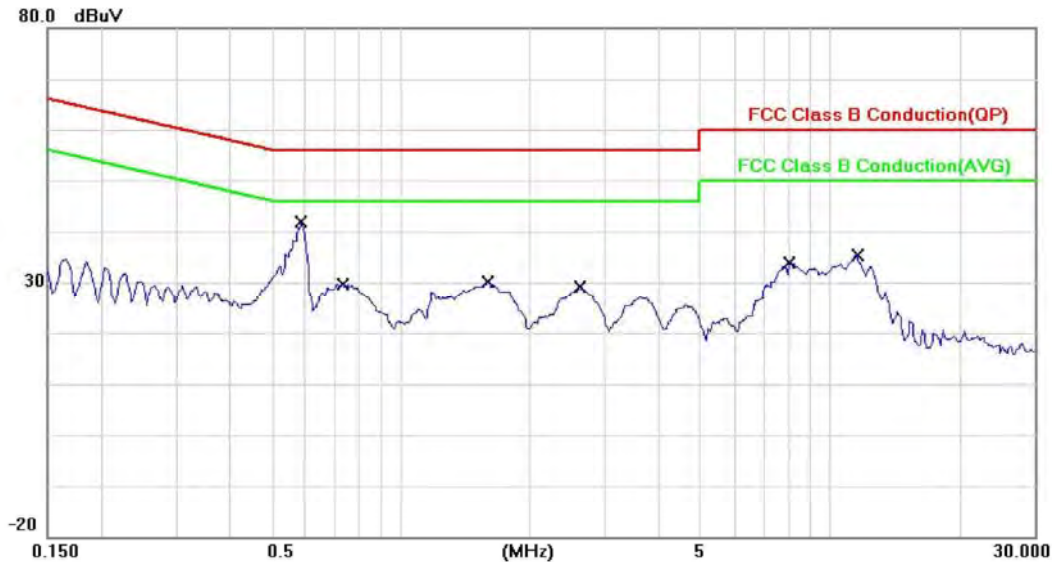
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

AC POWER LINE CONDUCTED EMISSION TEST DATA

| | | | |
|-----------------|----------------|------------|---------------|
| Operation Mode: | Operation Mode | Test Date: | Dec. 10, 2013 |
| Temperature: | 26 °C | Humidity: | 60 % |
| | | Test By: | Nick |

| | | |
|-----------------------------------|---------------------|--------------------|
| Site: ConductionRoom | Phase: L1 | Temperature: 26 °C |
| Limit: FCC Class B Conduction(QP) | Power: AC 120V/60Hz | Humidity: 60% |
| EUT: JunoT41/5 | Distance: | |
| M/N: Trimble | Mode: operationmode | |
| Note: | | |

Conducted Emission



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1 | * | 0.5860 | 41.79 | 0.08 | 41.87 | 56.00 | -14.13 | peak | |
| 2 | | 0.7343 | 29.55 | 0.07 | 29.62 | 56.00 | -26.38 | peak | |
| 3 | | 1.6015 | 30.15 | 0.10 | 30.25 | 56.00 | -25.75 | peak | |
| 4 | | 2.6093 | 29.05 | 0.10 | 29.15 | 56.00 | -26.85 | peak | |
| 5 | | 8.0546 | 33.85 | 0.14 | 33.99 | 60.00 | -26.01 | peak | |
| 6 | | 11.5664 | 35.22 | 0.17 | 35.39 | 60.00 | -24.61 | peak | |

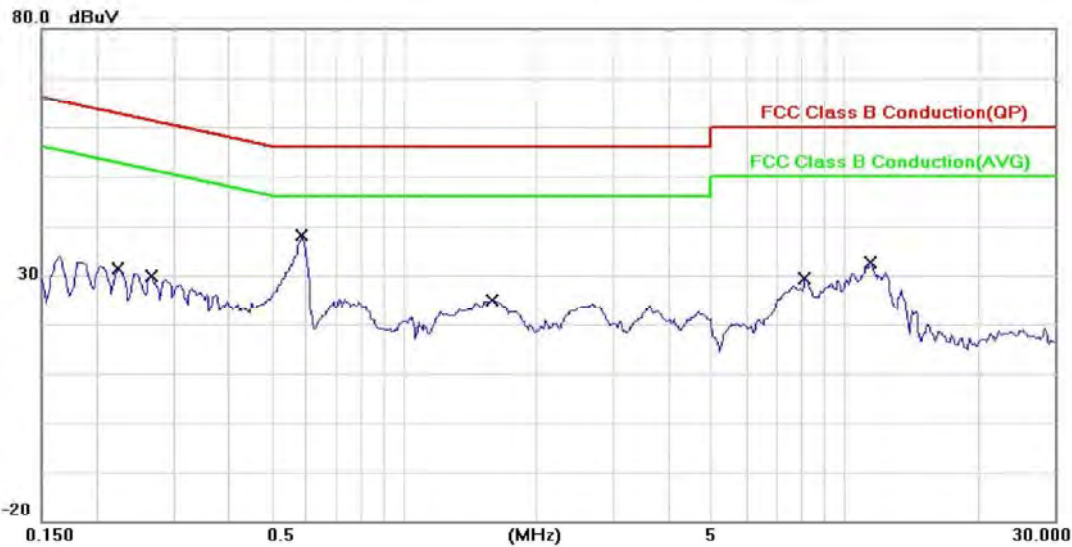
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

| | | |
|-----------------------------------|---------------------|--------------------|
| Site: ConductionRoom | Phase: N | Temperature: 26 °C |
| Limit: FCC Class B Conduction(QP) | Power: AC 120V/60Hz | Humidity: 60% |
| EUT: JunoT41/5 | Distance: | |
| M/N: Trimble | Mode: operationmode | |
| Note: | | |

Conducted Emission



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1 | | 0.2242 | 31.31 | 0.14 | 31.45 | 62.66 | -31.21 | peak | |
| 2 | | 0.2672 | 29.73 | 0.14 | 29.87 | 61.20 | -31.33 | peak | |
| 3 | * | 0.5860 | 37.99 | 0.14 | 38.13 | 56.00 | -17.87 | peak | |
| 4 | | 1.5898 | 24.78 | 0.17 | 24.95 | 56.00 | -31.05 | peak | |
| 5 | | 8.1406 | 29.22 | 0.21 | 29.43 | 60.00 | -30.57 | peak | |
| 6 | | 11.4647 | 32.47 | 0.24 | 32.71 | 60.00 | -27.29 | peak | |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

7. PEAK OUTPUT POWER MEASUREMENT

7.1. Standard Applicable:

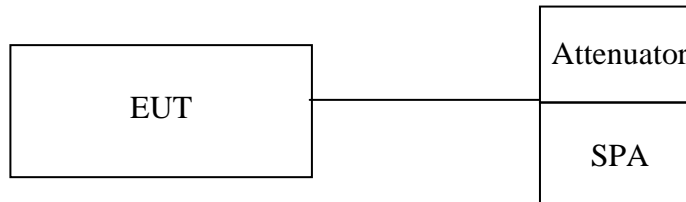
For frequency hopping systems operating in the 902-928 MHz band: 1 watt for systems employing at least 50 hopping channels; and 0.25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels, as permitted under paragraph (a)(1)(i) of Section 15.247.

According to RSS-210 issue 8, §A8.4(1), For frequency hopping systems operating in the band 902-928 MHz, the maximum peak conducted output power shall not exceed 1.0 W, and the e.i.r.p. shall not exceed 4 W if the hopset uses 50 or more hopping channels; the maximum peak conducted output power shall not exceed 0.25 W, and the e.i.r.p. shall not exceed 1 W if the hopset uses less than 50 hopping channels.

7.2. Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|---------------|-----------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Power Meter | Anritsu | ML2495A | 1005007 | 02/08/2012 | 02/07/2014 |
| Power Sensor | Anritsu | MA2411B | 917032 | 02/08/2012 | 02/07/2014 |
| Spectrum Analyzer | Agilent | E4446A | MY51100003 | 05/30/2013 | 05/29/2014 |
| Spectrum Analyzer | Agilent | E4440A | MY45304525 | 03/15/2013 | 03/14/2014 |
| DC Block | Mini-Circuits | BLK-18-S+ | 1 | 02/28/2013 | 02/27/2014 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA | N/A | 01/05/2013 | 01/04/2014 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 002 | 02/28/2013 | 02/27/2014 |
| Splitter | Agilent | 11636B | N/A | 02/28/2013 | 02/27/2014 |

7.3. Test Set-up:



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

7.4. Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (Max peak function, >20dB bandwidth, >=RBW)
3. Record the max. reading.
4. Repeat above procedures until all frequency measured were complete.

7.5. Measurement Result:

Peak Power:

| Frequency (MHz) | Reading Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|---------------------|------------------|-----------|
| 902.75 | 29.63 | 0.91833 | 1 |
| 914.75 | 29.52 | 0.89536 | 1 |
| 927.25 | 29.59 | 0.90991 | 1 |

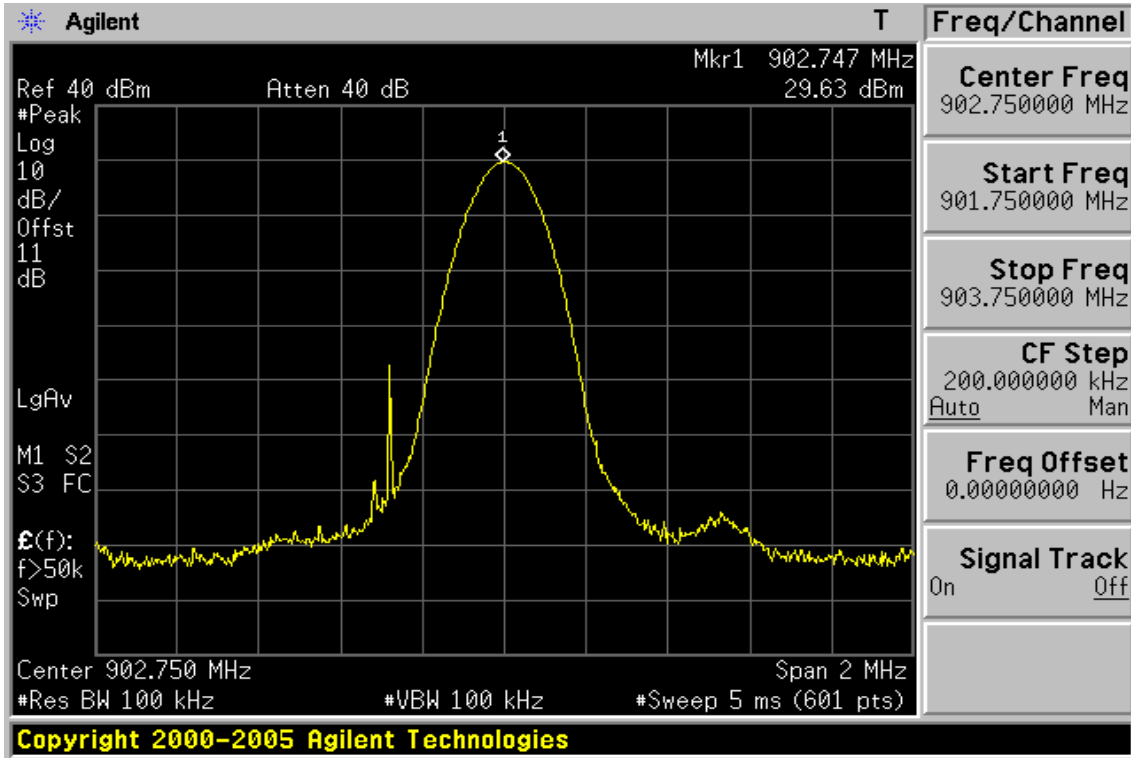
**Note: offset 11dB*

Note: Refer to next page for plots.

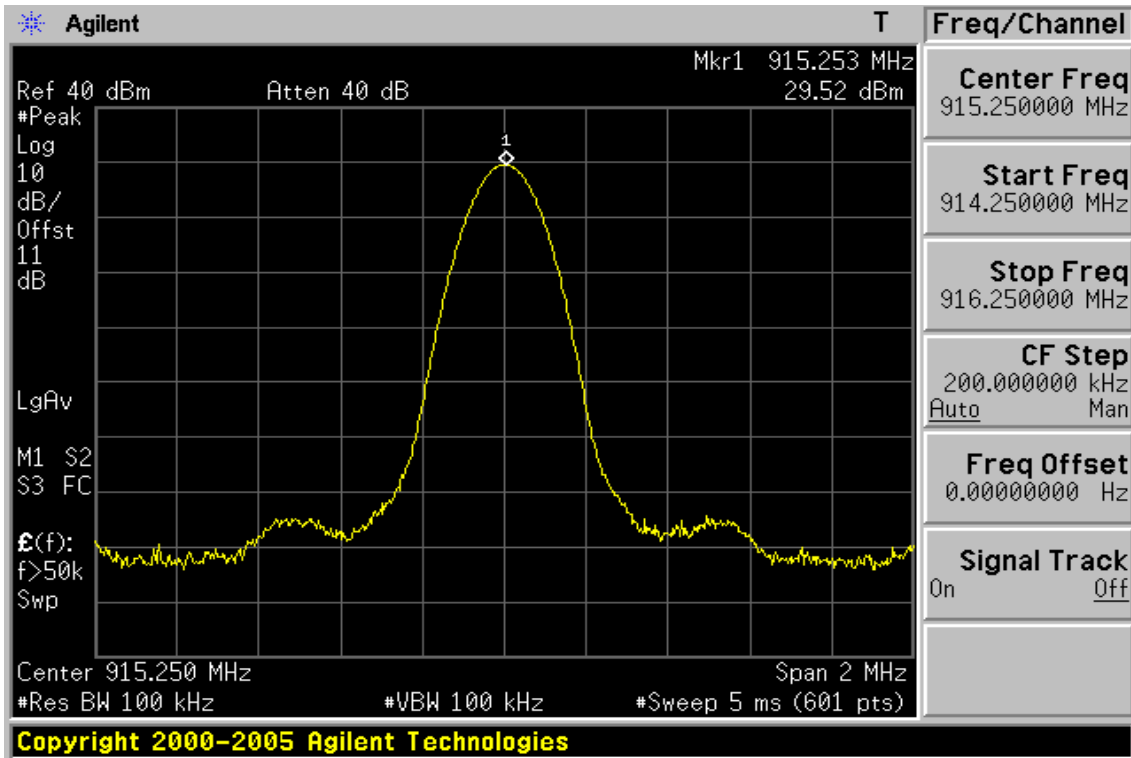
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Peak Power Output Data Plot (CH Low)



Peak Power Output Data Plot (CH Mid)

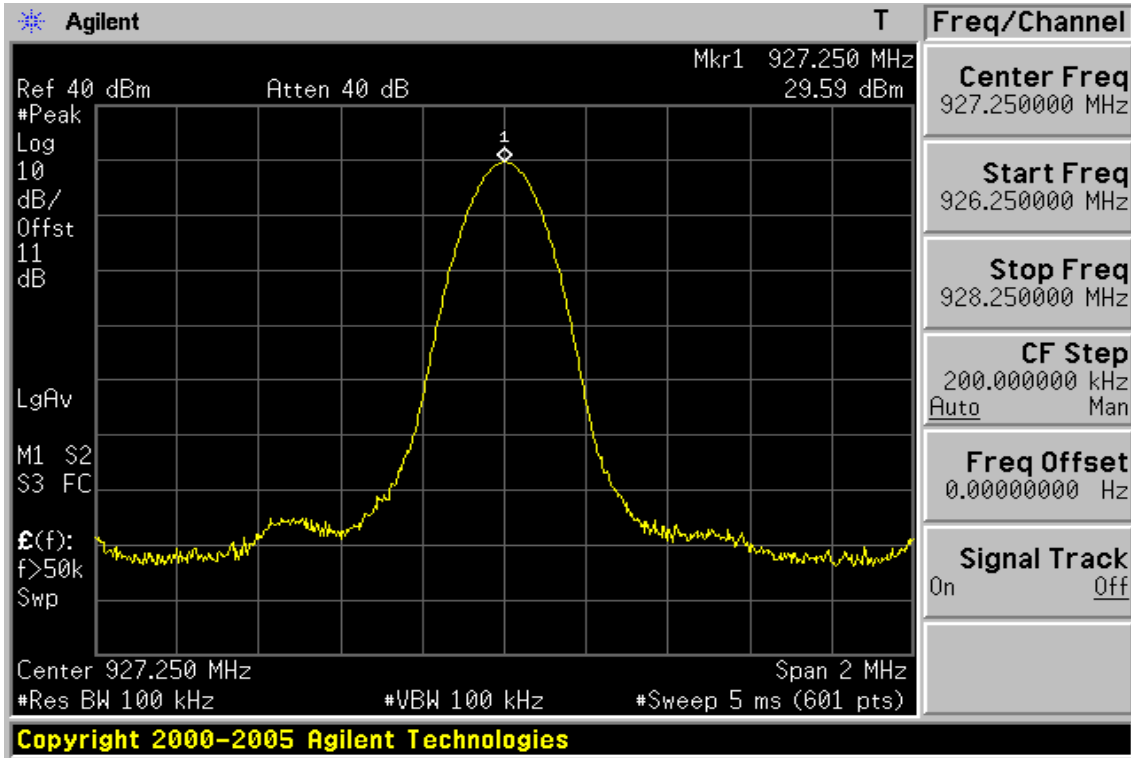


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Peak Power Output Data Plot (CH High)



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

9. SPURIOUS EMISSION TEST

9.1. Standard Applicable:

According to §15.247(c), all other emissions outside these bands shall not exceed the general radiated emission limits specified in §15.209(a). And according to §15.33(a)(1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

Radiated Spurious Emission

According to RSS-Gen §7.2.5 and RSS-210 issue 8,§A8.5, In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the radio frequency power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under section A8.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Tables 5 and 6 is not required. In addition, radiated emissions which fall in the restricted bands of Table 3 must also comply with the radiated emission limits specified in Tables 5 and 6 of RSS-GEN.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

9.2. Measurement Equipment Used:

9.2.1. Conducted Emission at antenna port:

Refer to section 7.2 for details.

9.2.2. Radiated emission:

| 966 Chamber | | | | | |
|------------------------|-----------------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EMI Test Receiver | R&S | ESC17 | 100759 | 02/08/2013 | 02/07/2014 |
| Spectrum Analyzer | Agilent | E4446A | MY51100003 | 05/30/2013 | 05/29/2014 |
| EXA Spectrum Analyzer | Agilent | N9010A | MY50420195 | 02/06/2013 | 02/07/2014 |
| Spectrum Analyzer | R&S | FSV-30 | 101398 | 10/22/2013 | 10/21/2014 |
| Bilog Antenna | SCHWAZBECK | VULB9168 | 378 | 01/10/2012 | 01/09/2014 |
| Horn antenna | ETS.LINDGREN | 3117 | 123995 | 05/31/2013 | 05/30/2014 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 184 | 01/17/2012 | 01/16/2014 |
| Pre-Amplifier | Agilent | 8447D | 2944A07676 | 01/04/2013 | 01/03/2014 |
| Pre-Amplifier | EMC Instruments Corp. | EMC0126530 | 980038 | 01/04/2013 | 01/03/2014 |
| Filter 2400-2483.5 MHz | EWT | EWT-14-0166 | M2 | 02/28/2013 | 02/28/2014 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 004 | 02/28/2013 | 02/27/2014 |
| Turn Table | HD | DT420 | N/A | N.C.R | N.C.R |
| Antenna Tower | HD | MA240-N | 240/657 | N.C.R | N.C.R |
| Controller | HD | HD100 | N/A | N.C.R | N.C.R |
| Low Loss Cable | Huber Suhner | 966_Rx | 9 | 01/04/2013 | 01/03/2014 |
| 3m Site NSA | SGS | 966 chamber | N/A | 07/15/2013 | 07/14/2014 |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

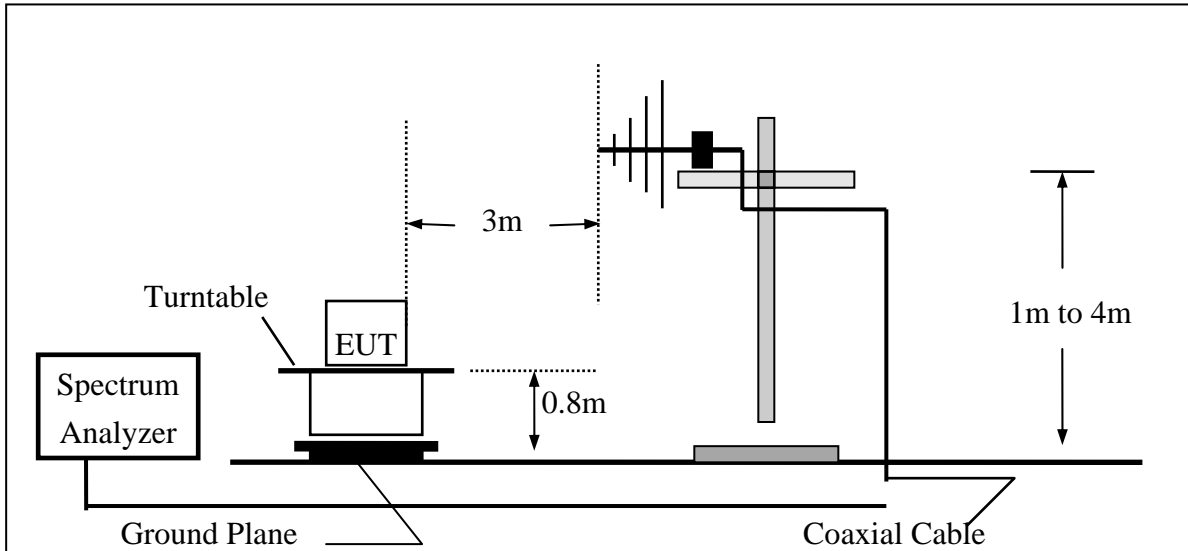
9.3. Test SET-UP:

9.3.1. Conducted Emission at antenna port:

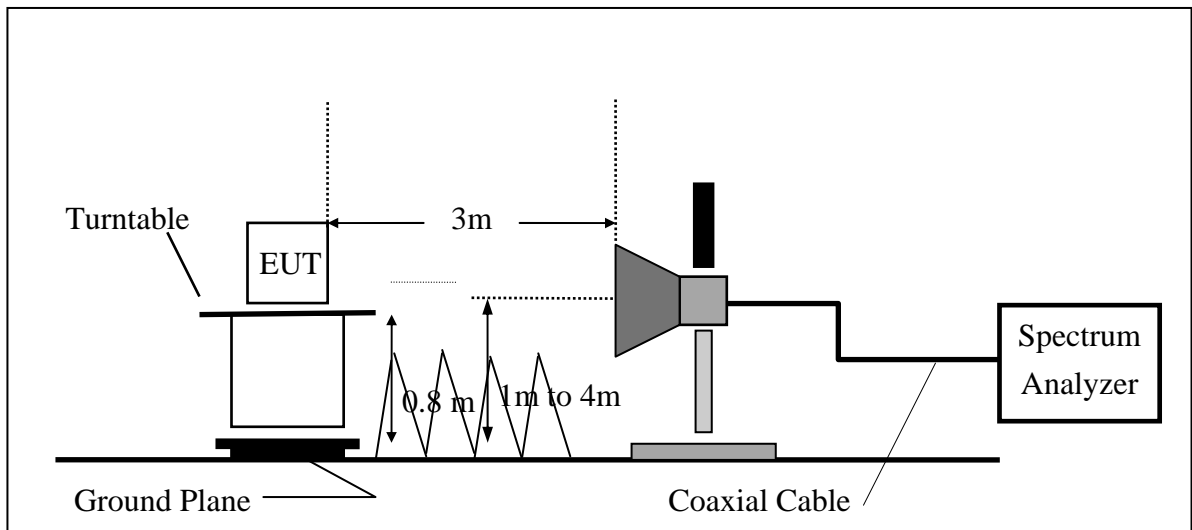
Refer to section 7.3 for details.

9.3.2. Radiated emission:

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

9.4. Measurement Procedure:

Radiated Emission:

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
4. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
6. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
7. Repeat above procedures until all frequency measured were complete.

Auxiliary Procedure (Setting on Spectrum to capture the reading of emission level):

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW \geq RBW

Sweep = auto

Detector function = peak

Trace = max hold

Conducted Emission:

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 100K & VBW = 300K on Spectrum.
3. Sweep the frequency to determine spurious emission as seen on spectrum from span of 30 to 3G, 3G to 8G, 8G to 13G, 13G to 18G and 18G to 26.5GHz.
4. Via Software, combine 5 spans of frequency range into two plots containing the range of 30MHz to 3GHz, and 3GHz to 26.5GHz.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

10.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

| | | |
|-------|------------------------|--|
| Where | FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| | RA = Reading Amplitude | AG = Amplifier Gain |
| | AF = Antenna Factor | |

Remark:

1. The limit of the emission level is expressed in dBuV/m, which converts $20 \cdot \log(uV/m)$
2. $Factor(dB) = Antenna\ Factor(dB\ \mu V/m) + Cable\ Loss(dB) - Pre_Amplifier\ Gain(dB)$

10.5 Measurement Result:

Conducted Spurious Emission Measurement Result

N/A, Refer to RFID Module Report for more details (page27-32)

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Radiated Spurious Emission Measurement Result

| | | | |
|-----------------------|-------------|--------------------------|---------------------|
| Operation Band | :RFID | Test Date | :2013-12-10 |
| Fundamental Frequency | :902.75 MHz | Temp./Humi. | :23.4 deg_C / 63 RH |
| Operation Mode | :TX LOW | Engineer | :Nick |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 30.00 | S | Peak | 44.06 | -13.93 | 30.13 | 40.00 | -9.87 |
| 42.61 | S | Peak | 39.35 | -13.11 | 26.24 | 40.00 | -13.76 |
| 75.59 | S | Peak | 33.92 | -16.27 | 17.65 | 40.00 | -22.35 |
| 96.93 | S | Peak | 33.15 | -17.99 | 15.16 | 43.50 | -28.34 |
| 110.51 | S | Peak | 30.90 | -15.77 | 15.13 | 43.50 | -28.37 |
| 725.49 | S | Peak | 29.21 | -2.89 | 26.32 | 46.00 | -19.68 |
| 1805.50 | H | Average | 40.61 | -0.12 | 40.49 | 54.00 | -13.51 |
| 1805.50 | H | Peak | 46.25 | -0.12 | 46.13 | 74.00 | -27.87 |
| 2708.25 | H | Average | 38.98 | 3.47 | 42.45 | 54.00 | -11.55 |
| 2708.25 | H | Peak | 45.77 | 3.47 | 49.24 | 74.00 | -24.76 |
| 3611.00 | H | --- | | | | | |
| 4513.75 | H | --- | | | | | |
| 5416.50 | H | --- | | | | | |
| 6319.25 | H | --- | | | | | |
| 7222.00 | H | --- | | | | | |
| 8124.75 | H | --- | | | | | |
| 9027.50 | H | --- | | | | | |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company’s findings at the time of its intervention only and within the limits of Client’s instructions, if any. The Company’s sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

| | | | |
|-----------------------|-------------|--------------------------|---------------------|
| Operation Band | :RFID | Test Date | :2013-12-10 |
| Fundamental Frequency | :902.75 MHz | Temp./Humi. | :23.4 deg_C / 63 RH |
| Operation Mode | :TX LOW | Engineer | :Nick |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 30.00 | S | Peak | 41.40 | -13.93 | 27.47 | 40.00 | -12.53 |
| 51.34 | S | Peak | 29.01 | -12.77 | 16.24 | 40.00 | -23.76 |
| 75.59 | S | Peak | 32.05 | -16.27 | 15.78 | 40.00 | -24.22 |
| 145.43 | S | Peak | 28.16 | -12.65 | 15.51 | 43.50 | -27.99 |
| 276.38 | S | Peak | 28.41 | -11.55 | 16.86 | 46.00 | -29.14 |
| 555.74 | S | Peak | 29.09 | -6.17 | 22.92 | 46.00 | -23.08 |
| 1805.50 | H | Average | 37.54 | -0.12 | 37.42 | 54.00 | -16.58 |
| 1805.50 | H | Peak | 45.25 | -0.12 | 45.13 | 74.00 | -28.87 |
| 2708.25 | H | --- | | | | | |
| 3611.00 | H | --- | | | | | |
| 4513.75 | H | --- | | | | | |
| 5416.50 | H | --- | | | | | |
| 6319.25 | H | --- | | | | | |
| 7222.00 | H | --- | | | | | |
| 8124.75 | H | --- | | | | | |
| 9027.50 | H | --- | | | | | |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company’s findings at the time of its intervention only and within the limits of Client’s instructions, if any. The Company’s sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

| | | | |
|-----------------------|-------------|--------------------------|---------------------|
| Operation Band | :RFID | Test Date | :2013-12-10 |
| Fundamental Frequency | :915.25 MHz | Temp./Humi. | :23.4 deg_C / 63 RH |
| Operation Mode | :TX MID | Engineer | :Nick |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 30.00 | S | Peak | 43.39 | -13.93 | 29.46 | 40.00 | -10.54 |
| 42.61 | S | Peak | 39.39 | -13.11 | 26.28 | 40.00 | -13.72 |
| 71.71 | S | Peak | 32.76 | -15.57 | 17.19 | 40.00 | -22.81 |
| 110.51 | S | Peak | 33.70 | -15.77 | 17.93 | 43.50 | -25.57 |
| 157.07 | S | Peak | 28.99 | -12.48 | 16.51 | 43.50 | -26.99 |
| 286.08 | S | Peak | 29.12 | -11.30 | 17.82 | 46.00 | -28.18 |
| 1830.50 | H | Average | 35.70 | 0.07 | 35.77 | 54.00 | -18.23 |
| 1830.50 | H | Peak | 43.07 | 0.07 | 43.14 | 74.00 | -30.86 |
| 2745.75 | H | --- | | | | | |
| 3661.00 | H | --- | | | | | |
| 4576.25 | H | --- | | | | | |
| 5491.50 | H | --- | | | | | |
| 6406.75 | H | --- | | | | | |
| 7322.00 | H | --- | | | | | |
| 8237.25 | H | --- | | | | | |
| 9152.50 | H | --- | | | | | |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company’s findings at the time of its intervention only and within the limits of Client’s instructions, if any. The Company’s sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

| | | | |
|-----------------------|-------------|--------------------------|---------------------|
| Operation Band | :RFID | Test Date | :2013-12-10 |
| Fundamental Frequency | :915.25 MHz | Temp./Humi. | :23.4 deg_C / 63 RH |
| Operation Mode | :TX MID | Engineer | :Nick |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 30.00 | S | Peak | 40.35 | -13.93 | 26.42 | 40.00 | -13.58 |
| 42.61 | S | Peak | 37.22 | -13.11 | 24.11 | 40.00 | -15.89 |
| 75.59 | S | Peak | 33.06 | -16.27 | 16.79 | 40.00 | -23.21 |
| 157.07 | S | Peak | 27.88 | -12.48 | 15.40 | 43.50 | -28.10 |
| 276.38 | S | Peak | 27.71 | -11.55 | 16.16 | 46.00 | -29.84 |
| 553.80 | S | Peak | 29.93 | -6.22 | 23.71 | 46.00 | -22.29 |
| 1830.50 | H | Average | 38.09 | 0.07 | 38.16 | 54.00 | -15.84 |
| 1830.50 | H | Peak | 43.10 | 0.07 | 43.17 | 74.00 | -30.83 |
| 2745.75 | H | --- | | | | | |
| 3661.00 | H | --- | | | | | |
| 4576.25 | H | --- | | | | | |
| 5491.50 | H | --- | | | | | |
| 6406.75 | H | --- | | | | | |
| 7322.00 | H | --- | | | | | |
| 8237.25 | H | --- | | | | | |
| 9152.50 | H | --- | | | | | |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

| | | | |
|-----------------------|-------------|--------------------------|---------------------|
| Operation Band | :RFID | Test Date | :2013-12-10 |
| Fundamental Frequency | :927.25 MHz | Temp./Humi. | :23.4 deg_C / 63 RH |
| Operation Mode | :TX HIGH | Engineer | :Nick |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 30.00 | S | Peak | 43.27 | -13.93 | 29.34 | 40.00 | -10.66 |
| 42.61 | S | Peak | 39.04 | -13.11 | 25.93 | 40.00 | -14.07 |
| 75.59 | S | Peak | 32.88 | -16.27 | 16.61 | 40.00 | -23.39 |
| 110.51 | S | Peak | 33.64 | -15.77 | 17.87 | 43.50 | -25.63 |
| 286.08 | S | Peak | 29.24 | -11.30 | 17.94 | 46.00 | -28.06 |
| 770.11 | S | Peak | 29.11 | -2.25 | 26.86 | 46.00 | -19.14 |
| 1854.50 | H | Average | 45.94 | 0.26 | 46.20 | 54.00 | -7.80 |
| 1854.50 | H | Peak | 53.82 | 0.26 | 54.08 | 74.00 | -19.92 |
| 2781.75 | H | Average | 40.73 | 3.60 | 44.33 | 54.00 | -9.67 |
| 2781.75 | H | Peak | 49.16 | 3.60 | 52.76 | 74.00 | -21.24 |
| 3709.00 | H | Average | 36.33 | 5.01 | 41.34 | 54.00 | -12.66 |
| 3709.00 | H | Peak | 45.18 | 5.01 | 50.19 | 74.00 | -23.81 |
| 4636.25 | H | --- | | | | | |
| 5563.50 | H | Average | 32.08 | 8.48 | 40.56 | 54.00 | -13.44 |
| 5563.50 | H | Peak | 40.97 | 8.48 | 49.45 | 74.00 | -24.55 |
| 6490.75 | H | Average | 34.77 | 10.08 | 44.85 | 54.00 | -9.15 |
| 6490.75 | H | Peak | 43.36 | 10.08 | 53.44 | 74.00 | -20.56 |
| 7418.00 | H | Average | 37.44 | 10.34 | 47.78 | 54.00 | -6.22 |
| 7418.00 | H | Peak | 44.86 | 10.34 | 55.20 | 74.00 | -18.80 |
| 8345.25 | H | --- | | | | | |
| 9272.50 | H | --- | | | | | |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

| | | | |
|-----------------------|-------------|--------------------------|---------------------|
| Operation Band | :RFID | Test Date | :2013-12-10 |
| Fundamental Frequency | :927.25 MHz | Temp./Humi. | :23.4 deg_C / 63 RH |
| Operation Mode | :TX HIGH | Engineer | :Nick |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 30.00 | S | Peak | 39.73 | -13.93 | 25.80 | 40.00 | -14.20 |
| 42.61 | S | Peak | 36.76 | -13.11 | 23.65 | 40.00 | -16.35 |
| 75.59 | S | Peak | 32.36 | -16.27 | 16.09 | 40.00 | -23.91 |
| 95.96 | S | Peak | 31.47 | -18.09 | 13.38 | 43.50 | -30.12 |
| 630.43 | S | Peak | 28.79 | -4.42 | 24.37 | 46.00 | -21.63 |
| 766.23 | S | Peak | 28.42 | -2.29 | 26.13 | 46.00 | -19.87 |
| 1854.50 | H | Average | 45.76 | 0.26 | 46.02 | 54.00 | -7.98 |
| 1854.50 | H | Peak | 51.19 | 0.26 | 51.45 | 74.00 | -22.55 |
| 2781.75 | H | --- | | | | | |
| 3709.00 | H | --- | | | | | |
| 4636.25 | H | --- | | | | | |
| 5563.50 | H | --- | | | | | |
| 6490.75 | H | Average | 34.32 | 10.08 | 44.40 | 54.00 | -9.60 |
| 6490.75 | H | Peak | 41.72 | 10.08 | 51.80 | 74.00 | -22.20 |
| 7418.00 | H | Average | 32.72 | 10.34 | 43.06 | 54.00 | -10.94 |
| 7418.00 | H | Peak | 40.23 | 10.34 | 50.57 | 74.00 | -23.43 |
| 8345.25 | H | --- | | | | | |
| 9272.50 | H | --- | | | | | |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

10. ANTENNA REQUIREMENT

10.1. Standard Applicable:

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

According to RSS-GEN 7.1.2, a transmitter can only be sold or operated with antennas with which it was certified. A transmitter may be certified with multiple antenna types. An antenna type comprises antennas having similar in-band and out-of-band radiation patterns. Testing shall be performed using the highest-gain antenna of each combination of transmitter and antenna type for which certification is being sought, with the transmitter output power set at the maximum level. Any antenna of the same type and having equal or lesser gain as an antenna that had been successfully tested for certification with the transmitter, will also be considered certified with the transmitter, and may be used and marketed with the transmitter. The manufacturer shall include with the application for certification a list of acceptable antenna types to be used with the transmitter.

When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on measurement or on data from the antenna manufacturer. Any antenna gain in excess of 6 dBi (6 dB above isotropic gain) shall be added to the measured RF output power before using the power limits specified in RSS-210 or RSS-310 for devices of RF output powers of 10 milliwatts or less. For devices of output powers greater than 10 milliwatts, except devices subject to RSS-210 Annex 8 (Frequency Hopping and Digital Modulation Systems Operating in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz Bands) or RSS-210 Annex 9 (Local Area Network Devices), the total antenna gain shall be added to the measured RF output power before using the specified power limits. For devices subject to RSS-210 Annex 8 or Annex 9, the antenna gain shall not be added.

10.2. Antenna Connected Construction

The directional gains of antenna used for transmitting is 0.17 dBi, and the antenna connector is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec. for details.

~ End of Report ~

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.