

**ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT**  
**INTENTIONAL RADIATOR CERTIFICATION TO**  
**FCC PART 22 SUBPART H, PART 24 SUBPART E and**  
**PART 27 SUBPART L & M REQUIREMENT**  
**CLASS II PC REPORT**

OF

**Applicant:** Quectel Wireless Solutions Co., Ltd  
7<sup>th</sup> Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District, Shanghai 200233, China

**Product Name:** LTE Module

**Brand Name:** Quectel

**Model No.:** EC25-AU, EC25-AU MIMOPCIE

**Model Difference:** Different marketing requirement

**FCC ID:** XMR201805EC25AU

**Report Number:** ER/2018/90168

**FCC Rule Part:** 2 , 22H & 24E & 27L & M

**Issue Date:** Dec. 20, 2018

**Date of Test:** Sep. 28, 2018 ~ Oct. 29, 2018

**Date of EUT Received:** Sep. 28, 2018

**We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26-2015 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

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

**Test By:**

*CHUN-CHIEH, CHEN*

**Chun Chieh Chen / Asst. Supervisor**

**Approved By:**

*Jay Lin*

**Jay Lin / Asst. Supervisor**



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](http://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](http://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

## Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
ER/2018/90168	Rev.00	Initial creation of document	All	Nov. 22, 2018	Violetta Tang
ER/2018/90168	Rev.01	1. Add statements of worst case testing 2. Add test plots of ERP/EIRP	9, 12~35	Dec. 13, 2018	Violetta Tang
ER/2018/90168	Rev.02	Add antenna information	14	Dec. 20, 2018	Violetta Tang

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](http://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](http://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](http://www.tw.sgs.com)

Member of SGS Group

## Contents

1. GENERAL PRODUCT INFORMATION .....	4
2. SYSTEM TEST CONFIGURATION .....	7
3. SUMMARY OF TEST RESULTS .....	8
4. DESCRIPTION OF TEST MODES .....	9
5. MEASUREMENT UNCERTAINTY .....	11
6. MAXMUM OUTPUT POWER .....	12
7. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT .....	36

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](http://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](http://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](http://www.tw.sgs.com)

Member of SGS Group

## 1. GENERAL PRODUCT INFORMATION

### 1.1. Product Description

General:

Product Name of Host:	Mobile Computers	
Brand Name of Host:	Opticon	
Model No. of Host:	H-28 NCSA	
Model Difference:	N/A	
Hardware Version:	ES1	
Software Version:	0.1.25.12	
Scope:	The test report covers the radiated emissions requirements of the standards referenced in the report to allow system level approval of the module in this specific host.	
Class II Permissive change:	LTE Module INSTALLED IN Mobile Computers	
USB Cable:	Model No.: 3C10-00000583, Supplier: Bitatek	
Power Supply:	3.7Vdc from Rechargeable Li-polymer Battery or 5V from AC/DC Adapter	
	Battery:	<ol style="list-style-type: none"> <li>Model No.: BTBAT2, Supplier: Leung's Communication &amp; Electric Products (Guangzhou) LTD.</li> <li>Model No.: BTBAT1, Supplier: Leung's Communication &amp; Electric Products (Guangzhou) LTD.</li> </ol>
	Adapter:	Model No.: S018BDV0900200, Supplier: Ten Pao Industrial Co., Ltd.

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](http://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](http://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](http://www.tw.sgs.com)

Member of SGS Group

## 1.2. GSM / WCDMA / LTE: Cellular Phone Standards Frequency Range & Antenna Designation

Operating Frequency (MHz)		Peak Antenna Gain (dBi)
GSM / GPRS / EDGE 850	824.2 ~ 848.8	-2.90
GSM / GPRS / EDGE 1900	1850.2 ~ 1909.8	-0.60
WCDMA / HSPA Band 2	1852.4 ~ 1907.6	-0.60
WCDMA / HSPA Band 5	826.4 ~ 846.6	-2.90
LTE-Band 2	1850.7 ~ 1909.3	-0.60
LTE-Band 4	1710.7 ~ 1754.3	-1.40
LTE-Band 5	824.7 ~ 848.3	-2.90
LTE-Band 7	2502.5 ~ 2567.5	2.50

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](http://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](http://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](http://www.tw.sgs.com)

Member of SGS Group

### 1.3. Test Methodology of Applied Standards

CC 47 CFR Part 2, 22, 24, 27

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03

KDB941225 D01 SAR test for 3G devices v03r01 (SAR Measurement Procedures for 3G Devices, WCDMA / HSPA) was used for EUT and Base station setting.

TS 151 010-1 is used to set, and measure the output power.

Note: All test items have been performed and record as per the above standards.

### 1.4. Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803 (TAF code 0513)

FCC Registration Numbers are: 509634 / TW0001

### 1.5. Special Accessories

No special accessories were used during testing.

### 1.6. Equipment Modifications

There were no modifications incorporated into the EUT.

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](http://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](http://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

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

### 2.3. Test Procedure

#### 2.3.1 Radiated Emissions for DSS & DTS

The EUT is a placed on as turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. 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 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.

#### 2.3.2 Radiated Emissions (ERP/EIRP) for PCE

According to measurement procured TIA/EIA 603C, 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 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.

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](http://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](http://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 Configuration of Tested System (Fixed Channel-Radiated)



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WWAN Test Software	N/A	N/A	N/A	N/A	N/A

## 3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a) §22.913(a)(5) §24.232(c) §27.50(a)(3) §27.50(d)(4)	ERP/ EIRP measurement	Compliant
§2.1053 §22.917(a) §24.238(a), §27.53(h), §27.53(m)(4)	Field Strength of Spurious Radiation	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](http://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](http://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](http://www.tw.sgs.com)

Member of SGS Group



## 4. DESCRIPTION OF TEST MODES

### 4.1. The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, X(E1)Y(E2)Z(H) axis and antenna ports. The worst case was found as listed below. Following channel(s) was (were) selected for the final test as listed below:

BAND	RADIATED EMISSION
GSM/GPRS 850	E2-plan
GSM/GPRS 1900	E2-plan
WCDMA/HSPA Band II	E2-plan
WCDMA/HSPA Band V	E2-plan
LTE Band 2	E2-plan
LTE Band 4	E2-plan
LTE Band 5	E2-plan
LTE Band 7	E2-plan

Note: Pre-scanned was done on rechargeable Li-polymer battery model no.: BTBAT2 & BTBAT1 and BTBAT2 results higher emission. Therefore, the completed set of measurement was done on BTBAT2 to be presented on this test report.

### GSM/GPRS MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	128 to 251	128, 190, 251	GSM/GPRS 850
EIRP	512 to 810	512, 661, 810	GSM/GPRS 1900
RADIATED EMISSION	128 to 251 512 to 810	128, 190, 251 512, 661, 810	GPRS 850 GPRS 1900

### WCDMA/HSPA MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	4132 to 4233	4132, 4183, 4233	WCDMA/HSPA Band V
EIRP	9262 to 9538	9262, 9400, 9583	WCDMA/HSPA Band II
RADIATED EMISSION	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9583	WCDMA Band II WCDMA Band V

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](http://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](http://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.

**LTE Band 2 MODE**

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
RADIATED EMISSION	18675 to 19125	18675, 18900, 19125	15MHz	QPSK	1 RB, 0 RB Offest

**LTE Band 4 MODE**

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
RADIATED EMISSION	19965 to 22385	19965, 20175, 22385	3MHz	QPSK	1 RB, 0 RB Offest

**LTE Band 5 MODE**

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
RADIATED EMISSION	20415 to 20635	20415, 20525, 20635	3MHz	QPSK	1 RB, 0 RB Offest

**LTE Band 7 MODE**

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
RADIATED EMISSION	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB, 0 RB Offest

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](http://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](http://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

## 5. MEASUREMENT UNCERTAINTY

Radiated Spurious Emission:

Measurement uncertainty (Polarization : <b>Vertical</b> )	9kHz – 30MHz: +/- 2.87 dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : <b>Horizontal</b> )	9kHz – 30MHz: +/- 2.87 dB
	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](http://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](http://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](http://www.tw.sgs.com)

Member of SGS Group

## 6. MAXMUM OUTPUT POWER

### 6.1. Standard Applicable

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals.

#### ERP/EIRP LIMIT

According to FCC §2.1046

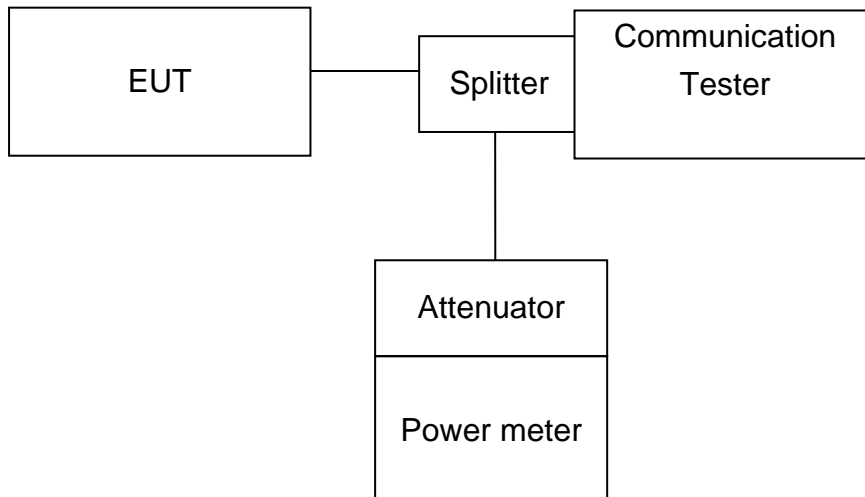
FCC 22.913(a) Mobile station is limited to 7W ERP.

FCC 24.232(b) Mobile and portable stations are limited to 2 W EIRP.

FCC 27.50(d)(4) Fixed, mobile, and portable (hand-held) stations are limited to 1W EIRP.

FCC 27, 50(h)(2) Mobile and other user stations. Mobile stations are limited to 2 W EIRP

### 6.2. Test Set-up



**Note:** Measurement setup for testing on Antenna connector

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](http://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](http://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](http://www.tw.sgs.com)

Member of SGS Group

### 6.3. Measurement Procedure

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading. TS 151 010-1 is reference to conduct the test measurement of output power.

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCD-MA/HSPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing, and KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results

All LTE bands conducted average power is obtained from the simulator telecommunication test set.

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP.

#### TEST PROCEDURE:

ANSI C63.26:2015

KDB 971168 Section 5.6

$$ERP/EIRP = P_{Meas} + GT-LC$$

where: ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as P<sub>Meas</sub>, typically dBW or dBm);

P<sub>Meas</sub> = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

### 6.4. Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Radio Communication Analyzer	Anritsu	MT8815B	6200711454	04/05/2018	04/04/2019
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	04/05/2018	04/04/2019

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](http://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](http://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

## 6.5. Measurement Result

GSM850				
CH	Frequency (MHz)	AV(dBm)	Antenna Gain (dBi)	EIRP(dBm)
128	824.2	33.90	-2.90	31.00
190	836.6	33.88	-2.90	30.98
251	848.8	33.80	-2.90	30.90

GPRS850				
CH	Frequency (MHz)	AV(dBm)	Antenna Gain (dBi)	EIRP(dBm)
128	824.2	33.90	-2.90	31.00
190	836.6	33.88	-2.90	30.98
251	848.8	33.80	-2.90	30.90

EDGE850				
CH	Frequency (MHz)	AV(dBm)	Antenna Gain (dBi)	EIRP(dBm)
128	824.2	26.91	-2.90	24.01
190	836.6	26.98	-2.90	24.08
251	848.8	26.85	-2.90	23.95

GSM1900				
CH	Frequency (MHz)	AV(dBm)	Antenna Gain (dBi)	EIRP(dBm)
512	1850.2	30.55	-0.60	29.95
661	1880.0	30.42	-0.60	29.82
810	1909.8	30.25	-0.60	29.65

GPRS1900				
CH	Frequency (MHz)	AV(dBm)	Antenna Gain (dBi)	EIRP(dBm)
512	1850.2	30.55	-0.60	29.95
661	1880.0	30.42	-0.60	29.82
810	1909.8	30.25	-0.60	29.65

EDGE1900				
CH	Frequency (MHz)	AV(dBm)	Antenna Gain (dBi)	EIRP(dBm)
512	1850.2	26.80	-0.60	26.20
661	1880.0	26.71	-0.60	26.11
810	1909.8	26.53	-0.60	25.93

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](http://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](http://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.

Band		WCDMA II			Antenna Gain: -0.6 dBi		
TX Channel		9262	9400	9538	9262	9400	9538
Frequency (MHz)		1852.4	1880	1907.6	1852.4	1880	1907.6
		Max. Rated Avg. Power			EIRP		
3GPP Rel 99	RMC 12.2Kbps	<b>23.37</b>	22.89	23.07	<b>22.77</b>	22.29	22.47
3GPP Rel 5	HSDPA Subtest-1	22.37	22.55	22.50	21.77	21.95	21.90
	HSDPA Subtest-2	22.00	21.92	21.91	21.40	21.32	21.31
	HSDPA Subtest-3	21.80	21.88	21.86	21.20	21.28	21.26
	HSDPA Subtest-4	21.79	21.53	21.85	21.19	20.93	21.25
3GPP Rel 6	HSUPA Subtest-1	21.72	22.04	22.20	21.12	21.44	21.60
	HSUPA Subtest-2	21.14	20.91	20.94	20.54	20.31	20.34
	HSUPA Subtest-3	21.02	20.56	21.05	20.42	19.96	20.45
	HSUPA Subtest-4	21.19	21.76	21.33	20.59	21.16	20.73
	HSUPA Subtest-5	22.30	22.40	22.30	21.70	21.80	21.70

Band		WCDMA V			Antenna Gain: -2.9 dBi		
TX Channel		4132	4183	4233	4132	4183	4233
Frequency (MHz)		826.4	836.6	846.6	826.4	836.6	846.6
		Max. Rated Avg. Power			EIRP		
3GPP Rel 99	RMC 12.2Kbps	<b>23.67</b>	23.27	23.35	<b>20.77</b>	20.37	20.45
3GPP Rel 5	HSDPA Subtest-1	23.16	23.08	23.12	20.26	20.18	20.22
	HSDPA Subtest-2	22.83	22.62	22.65	19.93	19.72	19.75
	HSDPA Subtest-3	22.77	22.67	22.72	19.87	19.77	19.82
	HSDPA Subtest-4	22.78	22.53	22.74	19.88	19.63	19.84
3GPP Rel 6	HSUPA Subtest-1	22.79	22.68	23.06	19.89	19.78	20.16
	HSUPA Subtest-2	21.44	21.37	21.29	18.54	18.47	18.39
	HSUPA Subtest-3	22.34	22.42	22.28	19.44	19.52	19.38
	HSUPA Subtest-4	21.87	21.94	21.84	18.97	19.04	18.94
	HSUPA Subtest-5	23.30	23.40	23.20	20.40	20.50	20.30

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](http://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](http://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

FDD Band 2										
BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	Antenna Gain (dBi)	EIRP (dBm)	
1.4	QPSK	1 RB	0	1850.7	18607	23.04	25	-0.6	23.64	
				1880	18900	23.01	25	-0.6	23.61	
				1909.3	19193	23.08	25	-0.6	23.68	
			2	1850.7	18607	23.13	25	-0.6	23.73	
				1880	18900	23.17	25	-0.6	23.77	
				1909.3	19193	23.01	25	-0.6	23.61	
		5	1850.7	18607	23.07	25	-0.6	23.67		
			1880	18900	23.07	25	-0.6	23.67		
			1909.3	19193	23.00	25	-0.6	23.60		
		3 RB	0	1850.7	18607	<b>23.28</b>	24	-0.6	<b>23.88</b>	
				1880	18900	23.04	24	-0.6	23.64	
				1909.3	19193	22.93	24	-0.6	23.53	
			2	1850.7	18607	23.07	24	-0.6	23.67	
				1880	18900	23.07	24	-0.6	23.67	
				1909.3	19193	22.95	24	-0.6	23.55	
			3	1850.7	18607	23.13	24	-0.6	23.73	
				1880	18900	23.02	24	-0.6	23.62	
				1909.3	19193	22.99	24	-0.6	23.59	
			6RB	1850.7	18607	22.11	24	-0.6	22.71	
				1880	18900	22.08	24	-0.6	22.68	
				1909.3	19193	22.07	24	-0.6	22.67	
		16-QAM	1 RB	0	1850.7	18607	22.08	24	-0.6	22.68
					1880	18900	22.09	24	-0.6	22.69
					1909.3	19193	22.08	24	-0.6	22.68
	2			1850.7	18607	22.04	24	-0.6	22.64	
				1880	18900	22.01	24	-0.6	22.61	
				1909.3	19193	22.09	24	-0.6	22.69	
	5			1850.7	18607	22.06	24	-0.6	22.66	
				1880	18900	22.04	24	-0.6	22.64	
				1909.3	19193	22.07	24	-0.6	22.67	
	3 RB			0	1850.7	18607	22.30	24	-0.6	22.90
					1880	18900	22.19	24	-0.6	22.79
					1909.3	19193	22.03	24	-0.6	22.63
			2	1850.7	18607	22.38	24	-0.6	22.98	
				1880	18900	22.21	24	-0.6	22.81	
				1909.3	19193	22.03	24	-0.6	22.63	
			3	1850.7	18607	22.32	24	-0.6	22.92	
				1880	18900	22.08	24	-0.6	22.68	
				1909.3	19193	22.08	24	-0.6	22.68	
	6RB		1850.7	18607	21.09	23	-0.6	21.69		
			1880	18900	21.14	23	-0.6	21.74		
			1909.3	19193	21.04	23	-0.6	21.64		

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](http://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](http://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.



BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	Antenna Gain (dBi)	EIRP (dBm)	
3	QPSK	1 RB	0	1851.5	18615	23.18	25	-0.6	23.78	
				1880	18900	23.08	25	-0.6	23.68	
				1908.5	19185	23.01	25	-0.6	23.61	
			7	1851.5	18615	<b>23.30</b>	25	-0.6	<b>23.90</b>	
				1880	18900	23.06	25	-0.6	23.66	
				1908.5	19185	23.08	25	-0.6	23.68	
			14	1851.5	18615	23.02	25	-0.6	23.62	
				1880	18900	23.05	25	-0.6	23.65	
				1908.5	19185	23.06	25	-0.6	23.66	
		8 RB	0	1851.5	18615	22.04	24	-0.6	22.64	
				1880	18900	23.02	24	-0.6	23.62	
				1908.5	19185	22.12	24	-0.6	22.72	
			4	1851.5	18615	22.13	24	-0.6	22.73	
				1880	18900	22.05	24	-0.6	22.65	
				1908.5	19185	22.01	24	-0.6	22.61	
			7	1851.5	18615	22.13	24	-0.6	22.73	
				1880	18900	22.09	24	-0.6	22.69	
				1908.5	19185	22.02	24	-0.6	22.62	
			15RB	1851.5	18615	22.19	24	-0.6	22.79	
				1880	18900	22.00	24	-0.6	22.60	
				1908.5	19185	22.01	24	-0.6	22.61	
		16-QAM	1 RB	0	1851.5	18615	22.05	24	-0.6	22.65
					1880	18900	22.02	24	-0.6	22.62
					1908.5	19185	22.04	24	-0.6	22.64
	7			1851.5	18615	22.07	24	-0.6	22.67	
				1880	18900	22.06	24	-0.6	22.66	
				1908.5	19185	22.07	24	-0.6	22.67	
	14			1851.5	18615	22.08	24	-0.6	22.68	
				1880	18900	22.05	24	-0.6	22.65	
				1908.5	19185	22.08	24	-0.6	22.68	
	8 RB			0	1851.5	18615	21.19	23	-0.6	21.79
					1880	18900	21.06	23	-0.6	21.66
					1908.5	19185	21.13	23	-0.6	21.73
			4	1851.5	18615	21.28	23	-0.6	21.88	
				1880	18900	22.01	23	-0.6	22.61	
				1908.5	19185	21.09	23	-0.6	21.69	
			7	1851.5	18615	21.28	23	-0.6	21.88	
				1880	18900	21.14	23	-0.6	21.74	
				1908.5	19185	21.02	23	-0.6	21.62	
	15RB		1851.5	18615	21.20	23	-0.6	21.80		
			1880	18900	22.08	23	-0.6	22.68		
			1908.5	19185	22.09	23	-0.6	22.69		

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](http://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](http://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.

BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	Antenna Gain (dBi)	EIRP (dBm)	
5	QPSK	1 RB	0	1852.5	18625	23.07	25	-0.6	23.67	
				1880	18900	23.01	25	-0.6	23.61	
				1907.5	19175	23.05	25	-0.6	23.65	
			12	1852.5	18625	23.05	25	-0.6	23.65	
				1880	18900	23.07	25	-0.6	23.67	
				1907.5	19175	23.09	25	-0.6	23.69	
			24	1852.5	18625	23.07	25	-0.6	23.67	
				1880	18900	23.05	25	-0.6	23.65	
				1907.5	19175	23.10	25	-0.6	23.70	
		12 RB	0	1852.5	18625	22.04	24	-0.6	22.64	
				1880	18900	22.13	24	-0.6	22.73	
				1907.5	19175	22.18	24	-0.6	22.78	
			6	1852.5	18625	22.05	24	-0.6	22.65	
				1880	18900	22.08	24	-0.6	22.68	
				1907.5	19175	22.06	24	-0.6	22.66	
			13	1852.5	18625	22.04	24	-0.6	22.64	
				1880	18900	22.11	24	-0.6	22.71	
				1907.5	19175	22.07	24	-0.6	22.67	
			25RB	1852.5	18625	22.01	24	-0.6	22.61	
				1880	18900	22.05	24	-0.6	22.65	
				1907.5	19175	22.13	24	-0.6	22.73	
		16-QAM	1 RB	0	1852.5	18625	22.00	24	-0.6	22.60
					1880	18900	22.02	24	-0.6	22.62
					1907.5	19175	22.05	24	-0.6	22.65
	12			1852.5	18625	22.09	24	-0.6	22.69	
				1880	18900	22.00	24	-0.6	22.60	
				1907.5	19175	22.02	24	-0.6	22.62	
	24			1852.5	18625	22.09	24	-0.6	22.69	
				1880	18900	22.04	24	-0.6	22.64	
				1907.5	19175	22.07	24	-0.6	22.67	
	12 RB			0	1852.5	18625	22.08	23	-0.6	22.68
					1880	18900	21.04	23	-0.6	21.64
					1907.5	19175	21.23	23	-0.6	21.83
			6	1852.5	18625	21.16	23	-0.6	21.76	
				1880	18900	21.10	23	-0.6	21.70	
				1907.5	19175	21.19	23	-0.6	21.79	
			13	1852.5	18625	21.28	23	-0.6	21.88	
				1880	18900	21.23	23	-0.6	21.83	
				1907.5	19175	21.20	23	-0.6	21.80	
	25RB		1852.5	18625	21.13	23	-0.6	21.73		
			1880	18900	21.15	23	-0.6	21.75		
			1907.5	19175	21.18	23	-0.6	21.78		

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](http://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](http://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

FDD Band 2											
BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	Antenna Gain (dBi)	EIRP (dBm)		
10	QPSK	1 RB	0	1855	18650	23.10	25	-0.6	23.70		
				1880	18900	23.00	25	-0.6	23.60		
				1905	19150	23.33	25	-0.6	23.93		
			25	1855	18650	23.30	25	-0.6	23.90		
				1880	18900	23.10	25	-0.6	23.70		
				1905	19150	23.08	25	-0.6	23.68		
			49	1855	18650	23.07	25	-0.6	23.67		
				1880	18900	23.12	25	-0.6	23.72		
				1905	19150	23.02	25	-0.6	23.62		
		25 RB	0	1855	18650	22.07	24	-0.6	22.67		
				1880	18900	22.13	24	-0.6	22.73		
				1905	19150	22.25	24	-0.6	22.85		
			12	1855	18650	22.11	24	-0.6	22.71		
				1880	18900	22.03	24	-0.6	22.63		
				1905	19150	22.04	24	-0.6	22.64		
			25	1855	18650	22.17	24	-0.6	22.77		
				1880	18900	22.22	24	-0.6	22.82		
				1905	19150	22.08	24	-0.6	22.68		
			50RB	1855	18650	22.16	24	-0.6	22.76		
				1880	18900	22.05	24	-0.6	22.65		
				1905	19150	22.18	24	-0.6	22.78		
			16-QAM	1 RB	0	1855	18650	22.03	24	-0.6	22.63
						1880	18900	22.06	24	-0.6	22.66
						1905	19150	22.00	24	-0.6	22.60
		25			1855	18650	22.10	24	-0.6	22.70	
					1880	18900	22.08	24	-0.6	22.68	
					1905	19150	22.01	24	-0.6	22.61	
	49	1855			18650	22.06	24	-0.6	22.66		
		1880			18900	22.45	24	-0.6	23.05		
		1905			19150	22.00	24	-0.6	22.60		
	25 RB	0		1855	18650	21.19	23	-0.6	21.79		
				1880	18900	21.32	23	-0.6	21.92		
				1905	19150	21.25	23	-0.6	21.85		
		12		1855	18650	21.34	23	-0.6	21.94		
				1880	18900	21.31	23	-0.6	21.91		
				1905	19150	21.24	23	-0.6	21.84		
		25		1855	18650	21.31	23	-0.6	21.91		
				1880	18900	21.22	23	-0.6	21.82		
				1905	19150	21.21	23	-0.6	21.81		
	50RB	1855		18650	21.18	23	-0.6	21.78			
		1880		18900	21.08	23	-0.6	21.68			
		1905		19150	21.24	23	-0.6	21.84			

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](http://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](http://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.

FDD Band 2										
BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	Antenna Gain (dBi)	EIRP (dBm)	
15	QPSK	1 RB	0	1857.5	18675	23.07	25	-0.6	23.67	
				1880	18900	23.10	25	-0.6	23.70	
				1902.5	19125	23.36	25	-0.6	23.96	
			36	1857.5	18675	23.07	25	-0.6	23.67	
				1880	18900	23.02	25	-0.6	23.62	
				1902.5	19125	23.24	25	-0.6	23.84	
		74	1857.5	18675	23.07	25	-0.6	23.67		
			1880	18900	23.24	25	-0.6	23.84		
			1902.5	19125	23.07	25	-0.6	23.67		
		36 RB	0	1857.5	18675	22.20	24	-0.6	22.80	
				1880	18900	22.17	24	-0.6	22.77	
				1902.5	19125	22.21	24	-0.6	22.81	
			18	1857.5	18675	22.23	24	-0.6	22.83	
				1880	18900	22.08	24	-0.6	22.68	
				1902.5	19125	22.18	24	-0.6	22.78	
			37	1857.5	18675	22.18	24	-0.6	22.78	
				1880	18900	22.25	24	-0.6	22.85	
				1902.5	19125	22.21	24	-0.6	22.81	
			75RB	1857.5	18675	22.20	24	-0.6	22.80	
				1880	18900	22.22	24	-0.6	22.82	
				1902.5	19125	22.26	24	-0.6	22.86	
		16-QAM	1 RB	0	1857.5	18675	22.03	24	-0.6	22.63
					1880	18900	22.09	24	-0.6	22.69
					1902.5	19125	22.46	24	-0.6	23.06
	36			1857.5	18675	22.02	24	-0.6	22.62	
				1880	18900	22.01	24	-0.6	22.61	
				1902.5	19125	22.29	24	-0.6	22.89	
	74			1857.5	18675	22.07	24	-0.6	22.67	
				1880	18900	22.00	24	-0.6	22.60	
				1902.5	19125	22.06	24	-0.6	22.66	
	36 RB			0	1857.5	18675	21.16	23	-0.6	21.76
					1880	18900	21.18	23	-0.6	21.78
					1902.5	19125	21.23	23	-0.6	21.83
			18	1857.5	18675	21.15	23	-0.6	21.75	
				1880	18900	21.16	23	-0.6	21.76	
				1902.5	19125	21.25	23	-0.6	21.85	
			37	1857.5	18675	21.13	23	-0.6	21.73	
				1880	18900	21.17	23	-0.6	21.77	
				1902.5	19125	21.26	23	-0.6	21.86	
	75RB		1857.5	18675	21.14	23	-0.6	21.74		
			1880	18900	21.16	23	-0.6	21.76		
			1902.5	19125	21.23	23	-0.6	21.83		

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](http://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](http://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.

FDD Band 2										
BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	Antenna Gain (dBi)	EIRP (dBm)	
20	QPSK	1 RB	0	1860	18700	23.01	25	-0.6	23.61	
				1880	18900	23.03	25	-0.6	23.63	
				1900	19100	23.05	25	-0.6	23.65	
			50	1860	18700	23.09	25	-0.6	23.69	
				1880	18900	23.28	25	-0.6	23.88	
				1900	19100	23.42	25	-0.6	24.02	
			99	1860	18700	23.08	25	-0.6	23.68	
				1880	18900	23.02	25	-0.6	23.62	
				1900	19100	23.07	25	-0.6	23.67	
		50 RB	0	1860	18700	22.34	24	-0.6	22.94	
				1880	18900	22.29	24	-0.6	22.89	
				1900	19100	22.42	24	-0.6	23.02	
			25	1860	18700	22.30	24	-0.6	22.90	
				1880	18900	22.27	24	-0.6	22.87	
				1900	19100	22.41	24	-0.6	23.01	
			50	1860	18700	22.20	24	-0.6	22.80	
				1880	18900	22.26	24	-0.6	22.86	
				1900	19100	22.21	24	-0.6	22.81	
			100RB	1860	18700	22.21	24	-0.6	22.81	
				1880	18900	22.25	24	-0.6	22.85	
				1900	19100	22.38	24	-0.6	22.98	
		16-QAM	1 RB	0	1860	18700	22.11	24	-0.6	22.71
					1880	18900	22.41	24	-0.6	23.01
					1900	19100	22.18	24	-0.6	22.78
				50	1860	18700	22.22	24	-0.6	22.82
					1880	18900	22.01	24	-0.6	22.61
					1900	19100	22.21	24	-0.6	22.81
				99	1860	18700	22.04	24	-0.6	22.64
					1880	18900	22.06	24	-0.6	22.66
					1900	19100	22.00	24	-0.6	22.60
	50 RB		0	1860	18700	21.29	23	-0.6	21.89	
				1880	18900	21.39	23	-0.6	21.99	
				1900	19100	21.38	23	-0.6	21.98	
			25	1860	18700	21.36	23	-0.6	21.96	
				1880	18900	21.29	23	-0.6	21.89	
				1900	19100	21.33	23	-0.6	21.93	
			50	1860	18700	21.17	23	-0.6	21.77	
				1880	18900	21.27	23	-0.6	21.87	
				1900	19100	21.31	23	-0.6	21.91	
	100RB		1860	18700	21.31	23	-0.6	21.91		
			1880	18900	21.27	23	-0.6	21.87		
			1900	19100	21.36	23	-0.6	21.96		

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](http://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](http://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.

FDD Band 4										
BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	Antenna Gain (dBi)	EIRP (dBm)	
1.4	QPSK	1 RB	0	1710.7	19957	22.48	24	-1.4	21.08	
				1732.5	20175	22.77	24	-1.4	21.37	
				1754.3	20393	22.68	24	-1.4	21.28	
			2	1710.7	19957	22.68	24	-1.4	21.28	
				1732.5	20175	22.69	24	-1.4	21.29	
				1754.3	20393	22.64	24	-1.4	21.24	
			5	1710.7	19957	22.71	24	-1.4	21.31	
				1732.5	20175	22.77	24	-1.4	21.37	
				1754.3	20393	22.67	24	-1.4	21.27	
		3 RB	0	1710.7	19957	22.79	23	-1.4	21.39	
				1732.5	20175	22.87	23	-1.4	21.47	
				1754.3	20393	22.66	23	-1.4	21.26	
			2	1710.7	19957	22.76	23	-1.4	21.36	
				1732.5	20175	<b>22.89</b>	23	-1.4	<b>21.49</b>	
				1754.3	20393	22.61	23	-1.4	21.21	
			3	1710.7	19957	22.67	23	-1.4	21.27	
				1732.5	20175	22.84	23	-1.4	21.44	
				1754.3	20393	22.65	23	-1.4	21.25	
		6RB	1710.7	19957	21.89	23	-1.4	20.49		
			1732.5	20175	21.87	23	-1.4	20.47		
			1754.3	20393	21.79	23	-1.4	20.39		
		16-QAM	1 RB	0	1710.7	19957	21.61	23	-1.4	20.21
					1732.5	20175	21.73	23	-1.4	20.33
					1754.3	20393	21.73	23	-1.4	20.33
	2			1710.7	19957	21.48	23	-1.4	20.08	
				1732.5	20175	21.75	23	-1.4	20.35	
				1754.3	20393	21.79	23	-1.4	20.39	
	5			1710.7	19957	21.64	23	-1.4	20.24	
				1732.5	20175	21.79	23	-1.4	20.39	
				1754.3	20393	21.67	23	-1.4	20.27	
	3 RB		0	1710.7	19957	21.93	22	-1.4	20.53	
				1732.5	20175	21.97	22	-1.4	20.57	
				1754.3	20393	21.70	22	-1.4	20.30	
			2	1710.7	19957	21.97	22	-1.4	20.57	
				1732.5	20175	21.97	22	-1.4	20.57	
				1754.3	20393	21.63	22	-1.4	20.23	
			3	1710.7	19957	21.92	22	-1.4	20.52	
				1732.5	20175	21.96	22	-1.4	20.56	
				1754.3	20393	21.77	22	-1.4	20.37	
	6RB		1710.7	19957	20.98	22	-1.4	19.58		
			1732.5	20175	20.74	22	-1.4	19.34		
			1754.3	20393	20.73	22	-1.4	19.33		

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](http://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](http://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.

FDD Band 4											
BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	Antenna Gain (dBi)	EIRP (dBm)		
3	QPSK	1 RB	0	1711.5	19965	22.59	24	-1.4	21.19		
				1732.5	20175	22.93	24	-1.4	21.53		
				1753.5	20385	22.49	24	-1.4	21.09		
			7	1711.5	19965	22.72	24	-1.4	21.32		
				1732.5	20175	<b>23.00</b>	24	-1.4	<b>21.60</b>		
				1753.5	20385	22.59	24	-1.4	21.19		
			14	1711.5	19965	22.79	24	-1.4	21.39		
				1732.5	20175	22.78	24	-1.4	21.38		
				1753.5	20385	22.65	24	-1.4	21.25		
		8 RB	0	1711.5	19965	21.93	23	-1.4	20.53		
				1732.5	20175	21.99	23	-1.4	20.59		
				1753.5	20385	21.91	23	-1.4	20.51		
			4	1711.5	19965	21.94	23	-1.4	20.54		
				1732.5	20175	21.98	23	-1.4	20.58		
				1753.5	20385	21.84	23	-1.4	20.44		
			7	1711.5	19965	21.97	23	-1.4	20.57		
				1732.5	20175	21.90	23	-1.4	20.50		
				1753.5	20385	21.76	23	-1.4	20.36		
			15RB	1711.5	19965	21.92	23	-1.4	20.52		
				1732.5	20175	21.96	23	-1.4	20.56		
				1753.5	20385	21.75	23	-1.4	20.35		
			16-QAM	1 RB	0	1711.5	19965	21.66	23	-1.4	20.26
						1732.5	20175	21.69	23	-1.4	20.29
						1753.5	20385	21.52	23	-1.4	20.12
	7	1711.5			19965	21.55	23	-1.4	20.15		
		1732.5			20175	21.66	23	-1.4	20.26		
		1753.5			20385	21.33	23	-1.4	19.93		
	14	1711.5			19965	21.64	23	-1.4	20.24		
		1732.5			20175	21.77	23	-1.4	20.37		
		1753.5			20385	21.20	23	-1.4	19.80		
	8 RB	0		1711.5	19965	21.00	22	-1.4	19.60		
				1732.5	20175	21.07	22	-1.4	19.67		
				1753.5	20385	20.91	22	-1.4	19.51		
		4		1711.5	19965	21.02	22	-1.4	19.62		
				1732.5	20175	21.05	22	-1.4	19.65		
				1753.5	20385	20.87	22	-1.4	19.47		
		7		1711.5	19965	21.08	22	-1.4	19.68		
				1732.5	20175	21.05	22	-1.4	19.65		
				1753.5	20385	20.79	22	-1.4	19.39		
	15RB	1711.5		19965	21.03	22	-1.4	19.63			
		1732.5		20175	20.96	22	-1.4	19.56			
		1753.5		20385	20.82	22	-1.4	19.42			

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](http://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](http://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.

FDD Band 4										
BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	Antenna Gain (dBi)	EIRP (dBm)	
5	QPSK	1 RB	0	1712.5	19975	22.81	24	-1.4	21.41	
				1732.5	20175	22.47	24	-1.4	21.07	
				1752.5	20375	22.90	24	-1.4	21.50	
			12	1712.5	19975	22.66	24	-1.4	21.26	
				1732.5	20175	22.64	24	-1.4	21.24	
				1752.5	20375	22.61	24	-1.4	21.21	
			24	1712.5	19975	22.75	24	-1.4	21.35	
				1732.5	20175	22.52	24	-1.4	21.12	
				1752.5	20375	22.61	24	-1.4	21.21	
		12 RB	0	1712.5	19975	21.79	23	-1.4	20.39	
				1732.5	20175	21.84	23	-1.4	20.44	
				1752.5	20375	21.80	23	-1.4	20.40	
			6	1712.5	19975	21.76	23	-1.4	20.36	
				1732.5	20175	21.99	23	-1.4	20.59	
				1752.5	20375	21.76	23	-1.4	20.36	
			13	1712.5	19975	21.90	23	-1.4	20.50	
				1732.5	20175	21.98	23	-1.4	20.58	
				1752.5	20375	21.84	23	-1.4	20.44	
			25RB	1712.5	19975	21.91	23	-1.4	20.51	
				1732.5	20175	21.84	23	-1.4	20.44	
				1752.5	20375	21.92	23	-1.4	20.52	
		16-QAM	1 RB	0	1712.5	19975	21.50	23	-1.4	20.10
					1732.5	20175	21.74	23	-1.4	20.34
					1752.5	20375	21.59	23	-1.4	20.19
	12			1712.5	19975	21.64	23	-1.4	20.24	
				1732.5	20175	21.40	23	-1.4	20.00	
				1752.5	20375	21.30	23	-1.4	19.90	
	24			1712.5	19975	21.51	23	-1.4	20.11	
				1732.5	20175	21.71	23	-1.4	20.31	
				1752.5	20375	21.81	23	-1.4	20.41	
	12 RB		0	1712.5	19975	20.99	22	-1.4	19.59	
				1732.5	20175	20.83	22	-1.4	19.43	
				1752.5	20375	20.92	22	-1.4	19.52	
			6	1712.5	19975	20.86	22	-1.4	19.46	
				1732.5	20175	20.86	22	-1.4	19.46	
				1752.5	20375	20.79	22	-1.4	19.39	
			13	1712.5	19975	20.90	22	-1.4	19.50	
				1732.5	20175	20.85	22	-1.4	19.45	
				1752.5	20375	20.82	22	-1.4	19.42	
	25RB		1712.5	19975	21.21	22	-1.4	19.81		
			1732.5	20175	20.94	22	-1.4	19.54		
			1752.5	20375	21.07	22	-1.4	19.67		

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](http://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](http://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.



FDD Band 4											
BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	Antenna Gain (dBi)	EIRP (dBm)		
10	QPSK	1 RB	0	1715	20000	22.51	24	-1.4	21.11		
				1732.5	20175	22.64	24	-1.4	21.24		
				1750	20350	22.77	24	-1.4	21.37		
			25	1715	20000	<b>22.83</b>	24	-1.4	<b>21.43</b>		
				1732.5	20175	22.82	24	-1.4	21.42		
				1750	20350	22.65	24	-1.4	21.25		
			49	1715	20000	22.43	24	-1.4	21.03		
				1732.5	20175	22.47	24	-1.4	21.07		
				1750	20350	22.56	24	-1.4	21.16		
		25 RB	0	1715	20000	22.05	23	-1.4	20.65		
				1732.5	20175	22.01	23	-1.4	20.61		
				1750	20350	21.98	23	-1.4	20.58		
			12	1715	20000	21.97	23	-1.4	20.57		
				1732.5	20175	21.99	23	-1.4	20.59		
				1750	20350	21.92	23	-1.4	20.52		
			25	1715	20000	21.87	23	-1.4	20.47		
				1732.5	20175	21.98	23	-1.4	20.58		
				1750	20350	21.78	23	-1.4	20.38		
			50RB	1715	20000	21.87	23	-1.4	20.47		
				1732.5	20175	21.97	23	-1.4	20.57		
				1750	20350	21.90	23	-1.4	20.50		
			16-QAM	1 RB	0	1715	20000	21.68	23	-1.4	20.28
						1732.5	20175	21.72	23	-1.4	20.32
						1750	20350	21.79	23	-1.4	20.39
	25	1715			20000	21.84	23	-1.4	20.44		
		1732.5			20175	21.79	23	-1.4	20.39		
		1750			20350	21.83	23	-1.4	20.43		
	49	1715			20000	21.73	23	-1.4	20.33		
		1732.5			20175	21.70	23	-1.4	20.30		
		1750			20350	21.81	23	-1.4	20.41		
	25 RB	0		1715	20000	21.15	22	-1.4	19.75		
				1732.5	20175	20.88	22	-1.4	19.48		
				1750	20350	21.09	22	-1.4	19.69		
		12		1715	20000	21.08	22	-1.4	19.68		
				1732.5	20175	21.09	22	-1.4	19.69		
				1750	20350	21.03	22	-1.4	19.63		
		25		1715	20000	21.06	22	-1.4	19.66		
				1732.5	20175	20.98	22	-1.4	19.58		
				1750	20350	20.95	22	-1.4	19.55		
	50RB	1715		20000	20.96	22	-1.4	19.56			
		1732.5		20175	20.96	22	-1.4	19.56			
		1750		20350	20.85	22	-1.4	19.45			

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](http://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](http://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.

FDD Band 4										
BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	Antenna Gain (dBi)	EIRP (dBm)	
15	QPSK	1 RB	0	1717.5	20025	22.82	24	-1.4	21.42	
				1732.5	20175	22.73	24	-1.4	21.33	
				1747.5	20325	22.70	24	-1.4	21.30	
			36	1717.5	20025	22.71	24	-1.4	21.31	
				1732.5	20175	22.59	24	-1.4	21.19	
				1747.5	20325	22.81	24	-1.4	21.41	
			74	1717.5	20025	22.63	24	-1.4	21.23	
				1732.5	20175	22.63	24	-1.4	21.23	
				1747.5	20325	22.68	24	-1.4	21.28	
		36 RB	0	1717.5	20025	21.89	23	-1.4	20.49	
				1732.5	20175	22.05	23	-1.4	20.65	
				1747.5	20325	21.96	23	-1.4	20.56	
			18	1717.5	20025	21.85	23	-1.4	20.45	
				1732.5	20175	21.98	23	-1.4	20.58	
				1747.5	20325	21.91	23	-1.4	20.51	
			37	1717.5	20025	21.92	23	-1.4	20.52	
				1732.5	20175	22.04	23	-1.4	20.64	
				1747.5	20325	21.84	23	-1.4	20.44	
			75RB	1717.5	20025	21.92	23	-1.4	20.52	
				1732.5	20175	22.06	23	-1.4	20.66	
				1747.5	20325	21.85	23	-1.4	20.45	
		16-QAM	1 RB	0	1717.5	20025	21.68	23	-1.4	20.28
					1732.5	20175	21.78	23	-1.4	20.38
					1747.5	20325	21.84	23	-1.4	20.44
	36			1717.5	20025	21.70	23	-1.4	20.30	
				1732.5	20175	21.67	23	-1.4	20.27	
				1747.5	20325	21.59	23	-1.4	20.19	
	74			1717.5	20025	21.59	23	-1.4	20.19	
				1732.5	20175	21.65	23	-1.4	20.25	
				1747.5	20325	21.74	23	-1.4	20.34	
	36 RB		0	1717.5	20025	20.88	22	-1.4	19.48	
				1732.5	20175	20.92	22	-1.4	19.52	
				1747.5	20325	21.05	22	-1.4	19.65	
			18	1717.5	20025	20.94	22	-1.4	19.54	
				1732.5	20175	20.97	22	-1.4	19.57	
				1747.5	20325	21.01	22	-1.4	19.61	
			37	1717.5	20025	20.90	22	-1.4	19.50	
				1732.5	20175	21.05	22	-1.4	19.65	
				1747.5	20325	20.77	22	-1.4	19.37	
	75RB		1717.5	20025	20.91	22	-1.4	19.51		
			1732.5	20175	20.94	22	-1.4	19.54		
			1747.5	20325	20.96	22	-1.4	19.56		

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](http://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](http://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.

FDD Band 4										
BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	Antenna Gain (dBi)	EIRP (dBm)	
20	QPSK	1 RB	0	1720	20050	22.42	24	-1.4	21.02	
				1732.5	20175	22.64	24	-1.4	21.24	
				1745	20300	22.68	24	-1.4	21.28	
			50	1720	20050	22.41	24	-1.4	21.01	
				1732.5	20175	22.86	24	-1.4	21.46	
				1745	20300	23.03	24	-1.4	21.63	
			99	1720	20050	22.67	24	-1.4	21.27	
				1732.5	20175	22.38	24	-1.4	20.98	
				1745	20300	22.82	24	-1.4	21.42	
		50 RB	0	1720	20050	21.80	23	-1.4	20.40	
				1732.5	20175	21.93	23	-1.4	20.53	
				1745	20300	22.18	23	-1.4	20.78	
			25	1720	20050	21.92	23	-1.4	20.52	
				1732.5	20175	22.01	23	-1.4	20.61	
				1745	20300	21.95	23	-1.4	20.55	
			50	1720	20050	22.03	23	-1.4	20.63	
				1732.5	20175	21.96	23	-1.4	20.56	
				1745	20300	21.91	23	-1.4	20.51	
			100RB	1720	20050	22.05	23	-1.4	20.65	
				1732.5	20175	21.98	23	-1.4	20.58	
				1745	20300	22.00	23	-1.4	20.60	
		16-QAM	1 RB	0	1720	20050	21.73	23	-1.4	20.33
					1732.5	20175	21.87	23	-1.4	20.47
					1745	20300	21.92	23	-1.4	20.52
	50			1720	20050	21.99	23	-1.4	20.59	
				1732.5	20175	22.34	23	-1.4	20.94	
				1745	20300	21.91	23	-1.4	20.51	
	99			1720	20050	21.62	23	-1.4	20.22	
				1732.5	20175	21.67	23	-1.4	20.27	
				1745	20300	21.67	23	-1.4	20.27	
	50 RB		0	1720	20050	20.90	22	-1.4	19.50	
				1732.5	20175	20.82	22	-1.4	19.42	
				1745	20300	21.12	22	-1.4	19.72	
			25	1720	20050	20.84	22	-1.4	19.44	
				1732.5	20175	20.92	22	-1.4	19.52	
				1745	20300	21.06	22	-1.4	19.66	
			50	1720	20050	20.83	22	-1.4	19.43	
				1732.5	20175	21.06	22	-1.4	19.66	
				1745	20300	21.03	22	-1.4	19.63	
	100RB		1720	20050	20.84	22	-1.4	19.44		
			1732.5	20175	20.98	22	-1.4	19.58		
			1745	20300	20.92	22	-1.4	19.52		

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](http://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](http://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.

FDD Band 5										
BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	Antenna Gain (dBi)	EIRP (dBm)	
1.4	QPSK	1 RB	0	824.7	20407	23.64	25	-2.9	20.74	
				836.5	20525	23.60	25	-2.9	20.70	
				848.3	20643	23.73	25	-2.9	20.83	
			2	824.7	20407	23.73	25	-2.9	20.83	
				836.5	20525	23.74	25	-2.9	20.84	
				848.3	20643	<b>23.78</b>	25	-2.9	<b>20.88</b>	
			5	824.7	20407	23.54	25	-2.9	20.64	
				836.5	20525	23.57	25	-2.9	20.67	
				848.3	20643	23.64	25	-2.9	20.74	
		3 RB	0	824.7	20407	23.66	25	-2.9	20.76	
				836.5	20525	23.56	25	-2.9	20.66	
				848.3	20643	23.72	25	-2.9	20.82	
			2	824.7	20407	23.69	25	-2.9	20.79	
				836.5	20525	23.67	25	-2.9	20.77	
				848.3	20643	23.70	25	-2.9	20.80	
			3	824.7	20407	<b>23.78</b>	25	-2.9	<b>20.88</b>	
				836.5	20525	23.65	25	-2.9	20.75	
				848.3	20643	23.65	25	-2.9	20.75	
		6RB	824.7	20407	22.73	24	-2.9	19.83		
			836.5	20525	22.66	24	-2.9	19.76		
			848.3	20643	22.76	24	-2.9	19.86		
		16-QAM	1 RB	0	824.7	20407	22.83	24	-2.9	19.93
					836.5	20525	22.42	24	-2.9	19.52
					848.3	20643	22.52	24	-2.9	19.62
	2			824.7	20407	22.92	24	-2.9	20.02	
				836.5	20525	22.45	24	-2.9	19.55	
				848.3	20643	22.57	24	-2.9	19.67	
	5			824.7	20407	22.87	24	-2.9	19.97	
				836.5	20525	22.48	24	-2.9	19.58	
				848.3	20643	22.45	24	-2.9	19.55	
	3 RB			0	824.7	20407	22.87	24	-2.9	19.97
					836.5	20525	22.69	24	-2.9	19.79
					848.3	20643	22.75	24	-2.9	19.85
			2	824.7	20407	22.81	24	-2.9	19.91	
				836.5	20525	22.81	24	-2.9	19.91	
				848.3	20643	22.76	24	-2.9	19.86	
			3	824.7	20407	22.61	24	-2.9	19.71	
				836.5	20525	22.79	24	-2.9	19.89	
				848.3	20643	22.70	24	-2.9	19.80	
	6RB		824.7	20407	21.63	23	-2.9	18.73		
			836.5	20525	21.69	23	-2.9	18.79		
			848.3	20643	21.78	23	-2.9	18.88		

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](http://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](http://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.

FDD Band 5										
BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	Antenna Gain (dBi)	EIRP (dBm)	
3	QPSK	1 RB	0	825.5	20415	23.79	25	-2.9	20.89	
				836.5	20525	23.74	25	-2.9	20.84	
				847.5	20635	23.70	25	-2.9	20.80	
			7	825.5	20415	<b>23.84</b>	25	-2.9	<b>20.94</b>	
				836.5	20525	23.63	25	-2.9	20.73	
				847.5	20635	23.66	25	-2.9	20.76	
			14	825.5	20415	23.36	25	-2.9	20.46	
				836.5	20525	23.61	25	-2.9	20.71	
				847.5	20635	23.59	25	-2.9	20.69	
		8 RB	0	825.5	20415	22.73	24	-2.9	19.83	
				836.5	20525	22.82	24	-2.9	19.92	
				847.5	20635	22.80	24	-2.9	19.90	
			4	825.5	20415	22.70	24	-2.9	19.80	
				836.5	20525	22.79	24	-2.9	19.89	
				847.5	20635	22.77	24	-2.9	19.87	
			7	825.5	20415	22.70	24	-2.9	19.80	
				836.5	20525	22.84	24	-2.9	19.94	
				847.5	20635	22.75	24	-2.9	19.85	
		15RB	825.5	20415	22.76	24	-2.9	19.86		
			836.5	20525	22.87	24	-2.9	19.97		
			847.5	20635	22.74	24	-2.9	19.84		
		16-QAM	1 RB	0	825.5	20415	22.46	24	-2.9	19.56
					836.5	20525	22.61	24	-2.9	19.71
					847.5	20635	22.53	24	-2.9	19.63
	7			825.5	20415	22.31	24	-2.9	19.41	
				836.5	20525	22.33	24	-2.9	19.43	
				847.5	20635	22.40	24	-2.9	19.50	
	14			825.5	20415	22.44	24	-2.9	19.54	
				836.5	20525	22.59	24	-2.9	19.69	
				847.5	20635	22.36	24	-2.9	19.46	
	8 RB		0	825.5	20415	21.78	23	-2.9	18.88	
				836.5	20525	21.71	23	-2.9	18.81	
				847.5	20635	21.80	23	-2.9	18.90	
			4	825.5	20415	21.68	23	-2.9	18.78	
				836.5	20525	21.75	23	-2.9	18.85	
				847.5	20635	21.77	23	-2.9	18.87	
			7	825.5	20415	21.69	23	-2.9	18.79	
				836.5	20525	21.80	23	-2.9	18.90	
				847.5	20635	21.76	23	-2.9	18.86	
	15RB		825.5	20415	21.52	23	-2.9	18.62		
			836.5	20525	21.78	23	-2.9	18.88		
			847.5	20635	21.81	23	-2.9	18.91		

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](http://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](http://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.

FDD Band 5										
BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	Antenna Gain (dBi)	EIRP (dBm)	
5	QPSK	1 RB	0	826.5	20425	23.42	25	-2.9	20.52	
				836.5	20525	23.78	25	-2.9	20.88	
				846.5	20625	23.51	25	-2.9	20.61	
			12	826.5	20425	23.70	25	-2.9	20.80	
				836.5	20525	23.61	25	-2.9	20.71	
				846.5	20625	23.67	25	-2.9	20.77	
			24	826.5	20425	23.32	25	-2.9	20.42	
				836.5	20525	23.70	25	-2.9	20.80	
				846.5	20625	23.75	25	-2.9	20.85	
		12 RB	0	826.5	20425	22.70	24	-2.9	19.80	
				836.5	20525	22.71	24	-2.9	19.81	
				846.5	20625	22.74	24	-2.9	19.84	
			6	826.5	20425	22.74	24	-2.9	19.84	
				836.5	20525	22.77	24	-2.9	19.87	
				846.5	20625	22.70	24	-2.9	19.80	
			13	826.5	20425	22.65	24	-2.9	19.75	
				836.5	20525	22.75	24	-2.9	19.85	
				846.5	20625	22.75	24	-2.9	19.85	
		25RB	826.5	20425	22.70	24	-2.9	19.80		
			836.5	20525	22.79	24	-2.9	19.89		
			846.5	20625	22.75	24	-2.9	19.85		
		16-QAM	1 RB	0	826.5	20425	22.36	24	-2.9	19.46
					836.5	20525	22.30	24	-2.9	19.40
					846.5	20625	22.49	24	-2.9	19.59
				12	826.5	20425	22.42	24	-2.9	19.52
					836.5	20525	22.65	24	-2.9	19.75
					846.5	20625	22.44	24	-2.9	19.54
	24			826.5	20425	22.36	24	-2.9	19.46	
				836.5	20525	22.37	24	-2.9	19.47	
				846.5	20625	22.34	24	-2.9	19.44	
	12 RB		0	826.5	20425	21.60	23	-2.9	18.70	
				836.5	20525	21.59	23	-2.9	18.69	
				846.5	20625	21.74	23	-2.9	18.84	
			6	826.5	20425	21.50	23	-2.9	18.60	
				836.5	20525	21.74	23	-2.9	18.84	
				846.5	20625	21.59	23	-2.9	18.69	
			13	826.5	20425	21.54	23	-2.9	18.64	
				836.5	20525	21.71	23	-2.9	18.81	
				846.5	20625	21.72	23	-2.9	18.82	
	25RB		826.5	20425	21.56	23	-2.9	18.66		
			836.5	20525	21.66	23	-2.9	18.76		
			846.5	20625	21.73	23	-2.9	18.83		

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](http://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](http://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.

FDD Band 5										
BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	Antenna Gain (dBi)	EIRP (dBm)	
10	QPSK	1 RB	0	829	20450	23.60	25	-2.9	20.70	
				836.5	20525	23.60	25	-2.9	20.70	
				844	20600	23.47	25	-2.9	20.57	
			25	829	20450	<b>23.80</b>	25	-2.9	<b>20.90</b>	
				836.5	20525	23.77	25	-2.9	20.87	
				844	20600	23.55	25	-2.9	20.65	
			49	829	20450	23.39	25	-2.9	20.49	
				836.5	20525	23.57	25	-2.9	20.67	
				844	20600	23.57	25	-2.9	20.67	
		25 RB	0	829	20450	22.76	24	-2.9	19.86	
				836.5	20525	22.73	24	-2.9	19.83	
				844	20600	22.80	24	-2.9	19.90	
			12	829	20450	22.73	24	-2.9	19.83	
				836.5	20525	22.87	24	-2.9	19.97	
				844	20600	22.69	24	-2.9	19.79	
			25	829	20450	22.75	24	-2.9	19.85	
				836.5	20525	22.82	24	-2.9	19.92	
				844	20600	22.74	24	-2.9	19.84	
			50RB	829	20450	22.69	24	-2.9	19.79	
				836.5	20525	22.77	24	-2.9	19.87	
				844	20600	22.72	24	-2.9	19.82	
		16-QAM	1 RB	0	829	20450	22.47	24	-2.9	19.57
					836.5	20525	22.57	24	-2.9	19.67
					844	20600	22.95	24	-2.9	20.05
	25			829	20450	22.65	24	-2.9	19.75	
				836.5	20525	22.54	24	-2.9	19.64	
				844	20600	22.70	24	-2.9	19.80	
	49			829	20450	22.35	24	-2.9	19.45	
				836.5	20525	22.49	24	-2.9	19.59	
				844	20600	22.52	24	-2.9	19.62	
	25 RB			0	829	20450	21.72	23	-2.9	18.82
					836.5	20525	21.79	23	-2.9	18.89
					844	20600	21.74	23	-2.9	18.84
			12	829	20450	21.88	23	-2.9	18.98	
				836.5	20525	21.84	23	-2.9	18.94	
				844	20600	21.62	23	-2.9	18.72	
			25	829	20450	21.91	23	-2.9	19.01	
				836.5	20525	21.86	23	-2.9	18.96	
				844	20600	21.70	23	-2.9	18.80	
			500RB	829	20450	21.85	23	-2.9	18.95	
				836.5	20525	21.83	23	-2.9	18.93	
				844	20600	21.79	23	-2.9	18.89	

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](http://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](http://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.

FDD Band 7										
BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	Antenna Gain (dBi)	EIRP (dBm)	
5	QPSK	1 RB	0	2502.5	20775	20.20	22	2.5	22.70	
				2535	21100	20.25	22	2.5	22.75	
				2567.5	21425	20.32	22	2.5	22.82	
			12	2502.5	20775	20.29	22	2.5	22.79	
				2535	21100	20.26	22	2.5	22.76	
				2567.5	21425	20.35	22	2.5	22.85	
			24	2502.5	20775	20.20	22	2.5	22.70	
				2535	21100	20.24	22	2.5	22.74	
				2567.5	21425	20.29	22	2.5	22.79	
		12 RB	0	2502.5	20775	20.23	22	2.5	22.73	
				2535	21100	20.26	22	2.5	22.76	
				2567.5	21425	20.28	22	2.5	22.78	
			6	2502.5	20775	20.36	22	2.5	22.86	
				2535	21100	20.29	22	2.5	22.79	
				2567.5	21425	20.36	22	2.5	22.86	
			13	2502.5	20775	20.24	22	2.5	22.74	
				2535	21100	20.36	22	2.5	22.86	
				2567.5	21425	20.26	22	2.5	22.76	
		25RB	2502.5	20775	20.21	22	2.5	22.71		
			2535	21100	<b>20.39</b>	22	2.5	<b>22.89</b>		
			2567.5	21425	20.38	22	2.5	22.88		
		16-QAM	1 RB	0	2502.5	20775	20.34	22	2.5	22.84
					2535	21100	20.20	22	2.5	22.70
					2567.5	21425	20.23	22	2.5	22.73
	12			2502.5	20775	20.21	22	2.5	22.71	
				2535	21100	20.20	22	2.5	22.70	
				2567.5	21425	20.33	22	2.5	22.83	
	24			2502.5	20775	20.34	22	2.5	22.84	
				2535	21100	20.20	22	2.5	22.70	
				2567.5	21425	20.19	22	2.5	22.69	
	12 RB			0	2502.5	20775	20.35	22	2.5	22.85
					2535	21100	20.21	22	2.5	22.71
					2567.5	21425	20.36	22	2.5	22.86
			6	2502.5	20775	20.35	22	2.5	22.85	
				2535	21100	20.38	22	2.5	22.88	
				2567.5	21425	20.28	22	2.5	22.78	
			13	2502.5	20775	20.32	22	2.5	22.82	
				2535	21100	20.35	22	2.5	22.85	
				2567.5	21425	20.31	22	2.5	22.81	
	25RB		2502.5	20775	20.26	22	2.5	22.76		
			2535	21100	20.34	22	2.5	22.84		
			2567.5	21425	20.27	22	2.5	22.77		

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](http://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](http://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.



FDD Band 7										
BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	Antenna Gain (dBi)	EIRP (dBm)	
10	QPSK	1 RB	0	2505	20800	20.22	22	2.5	22.72	
				2535	21100	20.21	22	2.5	22.71	
				2565	21400	20.38	22	2.5	22.88	
			25	2505	20800	20.23	22	2.5	22.73	
				2535	21100	20.21	22	2.5	22.71	
				2565	21400	20.26	22	2.5	22.76	
			49	2505	20800	20.32	22	2.5	22.82	
				2535	21100	20.22	22	2.5	22.72	
				2565	21400	20.30	22	2.5	22.80	
		25 RB	0	2505	20800	20.31	22	2.5	22.81	
				2535	21100	20.36	22	2.5	22.86	
				2565	21400	20.34	22	2.5	22.84	
			12	2505	20800	20.19	22	2.5	22.69	
				2535	21100	20.29	22	2.5	22.79	
				2565	21400	20.36	22	2.5	22.86	
			25	2505	20800	20.34	22	2.5	22.84	
				2535	21100	20.29	22	2.5	22.79	
				2565	21400	20.24	22	2.5	22.74	
		50RB	2505	20800	20.32	22	2.5	22.82		
			2535	21100	20.29	22	2.5	22.79		
			2565	21400	20.23	22	2.5	22.73		
		16-QAM	1 RB	0	2505	20800	20.34	22	2.5	22.84
					2535	21100	20.36	22	2.5	22.86
					2565	21400	20.21	22	2.5	22.71
	25			2505	20800	20.32	22	2.5	22.82	
				2535	21100	20.35	22	2.5	22.85	
				2565	21400	20.31	22	2.5	22.81	
	49			2505	20800	20.19	22	2.5	22.69	
				2535	21100	20.26	22	2.5	22.76	
				2565	21400	20.24	22	2.5	22.74	
	25 RB		0	2505	20800	20.27	22	2.5	22.77	
				2535	21100	20.36	22	2.5	22.86	
				2565	21400	20.21	22	2.5	22.71	
			12	2505	20800	20.31	22	2.5	22.81	
				2535	21100	20.25	22	2.5	22.75	
				2565	21400	20.32	22	2.5	22.82	
			25	2505	20800	<b>20.39</b>	22	2.5	<b>22.89</b>	
				2535	21100	20.38	22	2.5	22.88	
				2565	21400	20.24	22	2.5	22.74	
	50RB		2505	20800	20.30	22	2.5	22.80		
			2535	21100	20.22	22	2.5	22.72		
			2565	21400	20.38	22	2.5	22.88		

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](http://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](http://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.

FDD Band 7										
BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	Antenna Gain (dBi)	EIRP (dBm)	
15	QPSK	1 RB	0	2507.5	20825	20.37	22	2.5	22.87	
				2535	21100	20.24	22	2.5	22.74	
				2562.5	21375	20.20	22	2.5	22.70	
			36	2507.5	20825	20.33	22	2.5	22.83	
				2535	21100	20.31	22	2.5	22.81	
				2562.5	21375	20.24	22	2.5	22.74	
			74	2507.5	20825	20.33	22	2.5	22.83	
				2535	21100	20.34	22	2.5	22.84	
				2562.5	21375	20.28	22	2.5	22.78	
		36 RB	0	2507.5	20825	20.38	22	2.5	22.88	
				2535	21100	20.27	22	2.5	22.77	
				2562.5	21375	20.24	22	2.5	22.74	
			18	2507.5	20825	<b>20.39</b>	22	2.5	<b>22.89</b>	
				2535	21100	20.23	22	2.5	22.73	
				2562.5	21375	20.36	22	2.5	22.86	
			37	2507.5	20825	20.38	22	2.5	22.88	
				2535	21100	20.24	22	2.5	22.74	
				2562.5	21375	20.32	22	2.5	22.82	
			75RB	2507.5	20825	20.28	22	2.5	22.78	
				2535	21100	20.27	22	2.5	22.77	
				2562.5	21375	20.21	22	2.5	22.71	
		16-QAM	1 RB	0	2507.5	20825	20.21	22	2.5	22.71
					2535	21100	20.32	22	2.5	22.82
					2562.5	21375	20.36	22	2.5	22.86
				36	2507.5	20825	20.31	22	2.5	22.81
					2535	21100	20.37	22	2.5	22.87
					2562.5	21375	20.29	22	2.5	22.79
	74			2507.5	20825	20.26	22	2.5	22.76	
				2535	21100	20.28	22	2.5	22.78	
				2562.5	21375	20.27	22	2.5	22.77	
	36 RB		0	2507.5	20825	20.22	22	2.5	22.72	
				2535	21100	20.28	22	2.5	22.78	
				2562.5	21375	20.21	22	2.5	22.71	
			18	2507.5	20825	20.33	22	2.5	22.83	
				2535	21100	20.29	22	2.5	22.79	
				2562.5	21375	20.30	22	2.5	22.80	
			37	2507.5	20825	20.21	22	2.5	22.71	
				2535	21100	20.21	22	2.5	22.71	
				2562.5	21375	20.26	22	2.5	22.76	
			75RB	2507.5	20825	20.23	22	2.5	22.73	
				2535	21100	20.20	22	2.5	22.70	
				2562.5	21375	20.37	22	2.5	22.87	

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](http://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](http://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.

FDD Band 7										
BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	Antenna Gain (dBi)	EIRP (dBm)	
20	QPSK	1 RB	0	2510	20850	20.41	22	2.5	22.91	
				2535	21100	20.34	22	2.5	22.84	
				2560	21350	20.00	22	2.5	22.50	
			50	2510	20850	20.37	22	2.5	22.87	
				2535	21100	20.37	22	2.5	22.87	
				2560	21350	20.29	22	2.5	22.79	
			99	2510	20850	20.26	22	2.5	22.76	
				2535	21100	20.25	22	2.5	22.75	
				2560	21350	20.40	22	2.5	22.90	
		50 RB	0	2510	20850	20.35	22	2.5	22.85	
				2535	21100	20.34	22	2.5	22.84	
				2560	21350	20.33	22	2.5	22.83	
			25	2510	20850	20.24	22	2.5	22.74	
				2535	21100	20.29	22	2.5	22.79	
				2560	21350	20.31	22	2.5	22.81	
			50	2510	20850	20.26	22	2.5	22.76	
				2535	21100	20.28	22	2.5	22.78	
				2560	21350	20.32	22	2.5	22.82	
			100RB	2510	20850	20.39	22	2.5	22.89	
				2535	21100	20.26	22	2.5	22.76	
				2560	21350	20.38	22	2.5	22.88	
		16-QAM	1 RB	0	2510	20850	20.27	22	2.5	22.77
					2535	21100	20.35	22	2.5	22.85
					2560	21350	20.27	22	2.5	22.77
	50			2510	20850	20.21	22	2.5	22.71	
				2535	21100	20.29	22	2.5	22.79	
				2560	21350	20.38	22	2.5	22.88	
	99			2510	20850	20.21	22	2.5	22.71	
				2535	21100	20.29	22	2.5	22.79	
				2560	21350	20.38	22	2.5	22.88	
	50 RB			0	2510	20850	20.31	22	2.5	22.81
					2535	21100	20.23	22	2.5	22.73
					2560	21350	20.37	22	2.5	22.87
			25	2510	20850	20.23	22	2.5	22.73	
				2535	21100	20.22	22	2.5	22.72	
				2560	21350	20.27	22	2.5	22.77	
			50	2510	20850	20.37	22	2.5	22.87	
				2535	21100	20.34	22	2.5	22.84	
				2560	21350	20.28	22	2.5	22.78	
			100RB	2510	20850	20.38	22	2.5	22.88	
				2535	21100	20.25	22	2.5	22.75	
				2560	21350	20.27	22	2.5	22.77	

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](http://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](http://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. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

### 7.1. Standard Applicable

According to FCC §2.1053, FCC §22.917(a), §24.238(a), §27.53 (h), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than  $43 + 10 \log$  (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).

#### FCC §27.53(g)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

#### FCC §27.53(h) (3)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

#### FCC §27.53(m) (4) (6)

For mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log (P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

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](http://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](http://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](http://www.tw.sgs.com)

Member of SGS Group

Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

**Table 2 — Unwanted Emissions for Mobile, Portable and Low-Power Fixed Subscriber Equipment**

Frequency (MHz)	Attenuation (dB)
<2200	$43 + 10 \log_{10}(p)$
2200 - 2288	$70 + 10 \log_{10}(p)$
2288 - 2292	$67 + 10 \log_{10}(p)$
2292 - 2296	$61 + 10 \log_{10}(p)$
2296 - 2300	$55 + 10 \log_{10}(p)$
2300 - 2305	$43 + 10 \log_{10}(p)$
2305 - 2320	$43 + 10 \log_{10}(p)$ <sup>Note</sup>
2320 - 2324	$55 + 10 \log_{10}(p)$
2324 - 2328	$61 + 10 \log_{10}(p)$
2328 - 2337	$67 + 10 \log_{10}(p)$
2337 - 2341	$61 + 10 \log_{10}(p)$
2341 - 2345	$55 + 10 \log_{10}(p)$
2345 - 2360	$43 + 10 \log_{10}(p)$ <sup>Note</sup>
2360 - 2365	$43 + 10 \log_{10}(p)$
2365 - 2395	$70 + 10 \log_{10}(p)$
>2395	$43 + 10 \log_{10}(p)$

**Note:** Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See Section 1.2 for the permitted frequency ranges for various equipment types.

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](http://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](http://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

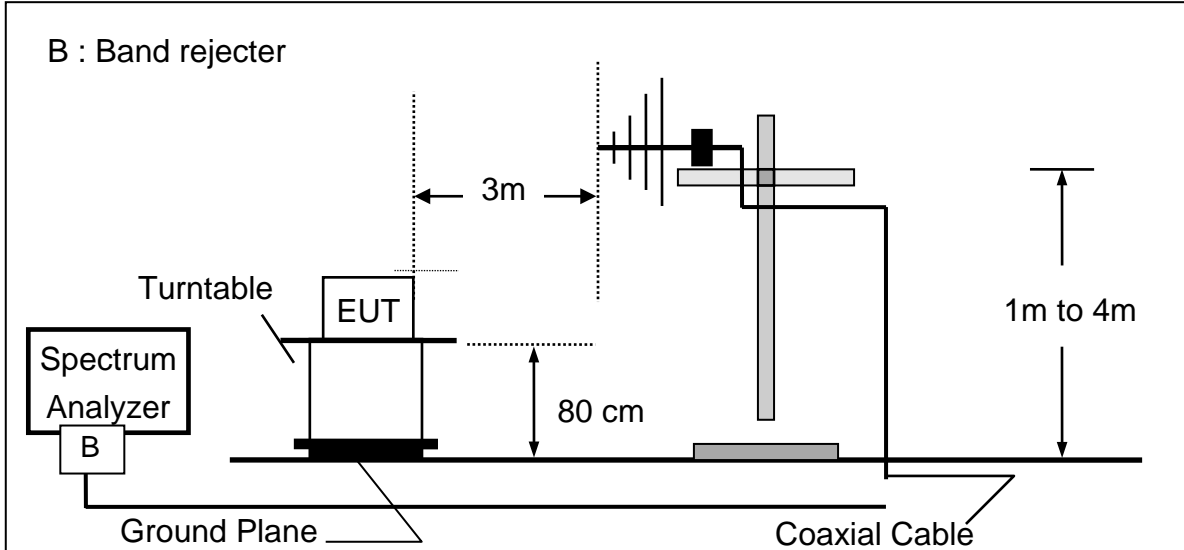
f (886-2) 2298-0488

www.tw.sgs.com

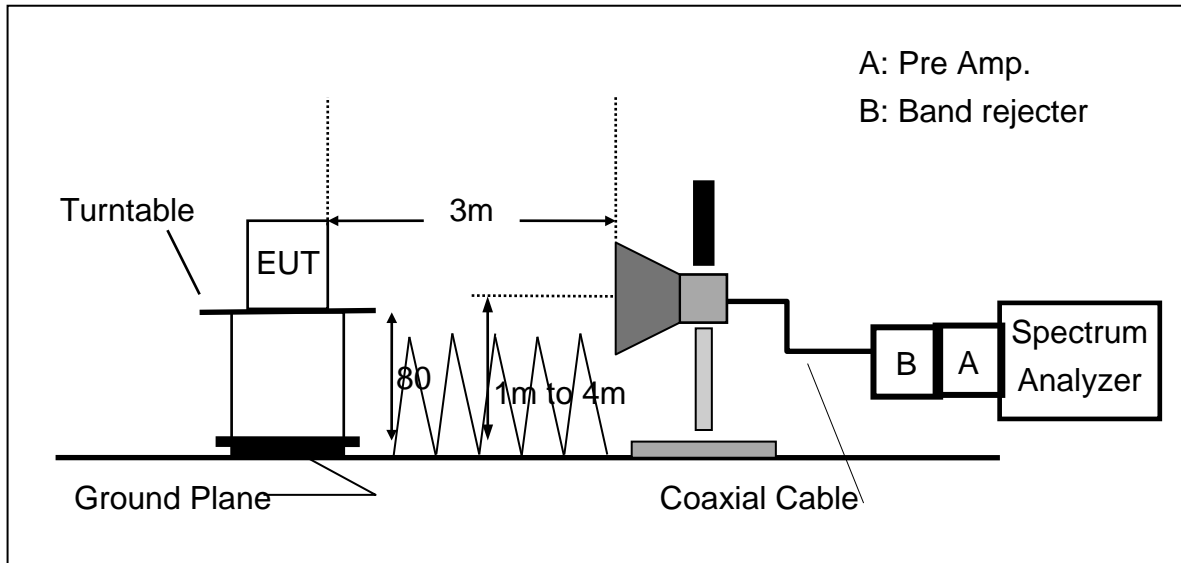
Member of SGS Group

## 7.2. EUT Setup

### Radiated Emission Test Set-Up, Frequency Below 1000MHz



### 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](http://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](http://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.

### 7.3. Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$\text{ERP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

$$\text{EIRP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBi)} + \text{Cable Loss(dB)}$$

### 7.4. Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWAZBECK	VULB9168	378	12/29/2017	12/28/2018
Bi-log Antenna	SCHWAZBECK	VULB9168	300	12/20/2017	12/19/2018
Horn Antenna	Schwarzbeck	BBHA9120D	603	04/13/2018	04/12/2019
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/16/2018	08/15/2019
Horn Antenna	Schwarzbeck	BBHA9170	184	12/12/2017	12/11/2018
3m Site NSA	SGS	966 chamber	N/A	01/02/2018	01/01/2019
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/15/2018	05/14/2019
EMI Test Receiver	R&S	ESC17	100335	02/02/2018	02/01/2019
Radio Communication Analyzer	Anritsu	MT8815B	6200711454	04/05/2018	04/04/2019
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	04/05/2018	04/04/2019
Pre-Amplifier	HP	8449B	3008A00578	01/02/2018	01/01/2019
Pre-Amplifier	HP	8447D	2944A07676	01/02/2018	01/01/2019
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/22/2018	10/21/2019
Filter 2240-2700	Micro-Tronics	WI	2	01/02/2018	01/01/2019
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	01/02/2018	01/01/2019
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	01/02/2018	01/01/2019
Low Loss Cable	Huber Suhner	966_RX	9	01/02/2018	01/01/2019
Low Loss Cable	Huber Suhner	966 TX	1	01/02/2018	01/01/2019

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.

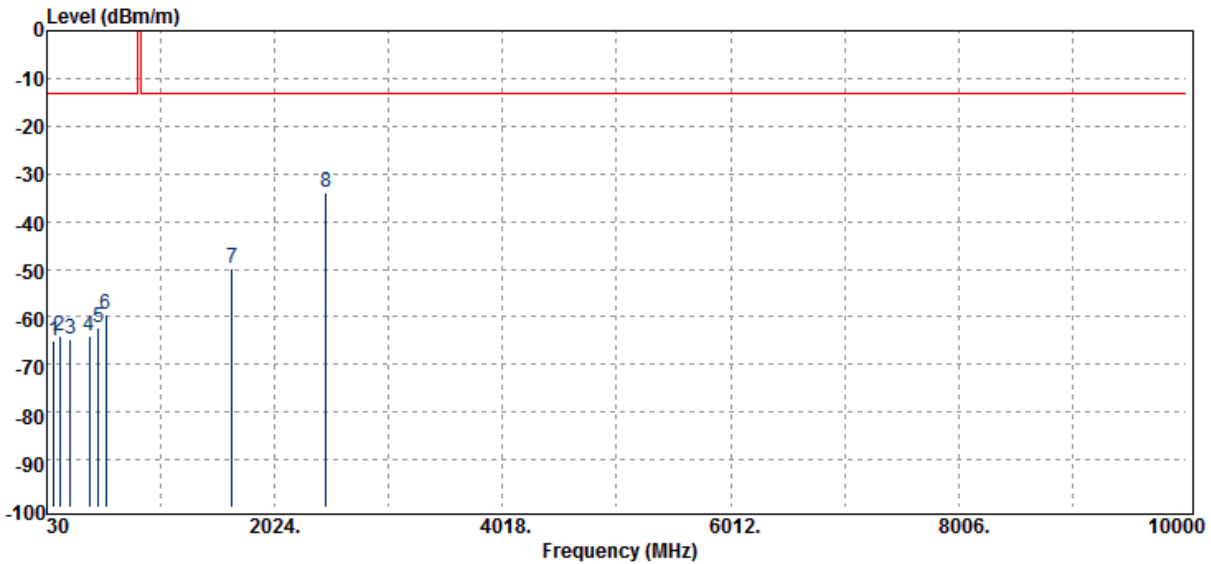
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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](http://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](http://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.

### 7.5. Measurement Result:

#### Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Band	:GPRS 850	Temp./Humi.	:24 deg_C / 61 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Wei
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
88.20	-64.98	-63.13	-0.85	-1.00	-13.00	-51.98
141.55	-64.19	-60.69	-2.22	-1.27	-13.00	-51.19
236.61	-64.68	-66.45	3.42	-1.65	-13.00	-51.68
400.54	-64.03	-65.63	3.71	-2.12	-13.00	-51.03
483.96	-62.42	-64.46	3.89	-1.85	-13.00	-49.42
547.01	-59.63	-61.75	3.98	-1.86	-13.00	-46.63
1648.40	-49.73	-52.35	6.97	-4.35	-13.00	-36.73
2472.60	-33.76	-36.61	8.34	-5.49	-13.00	-20.76

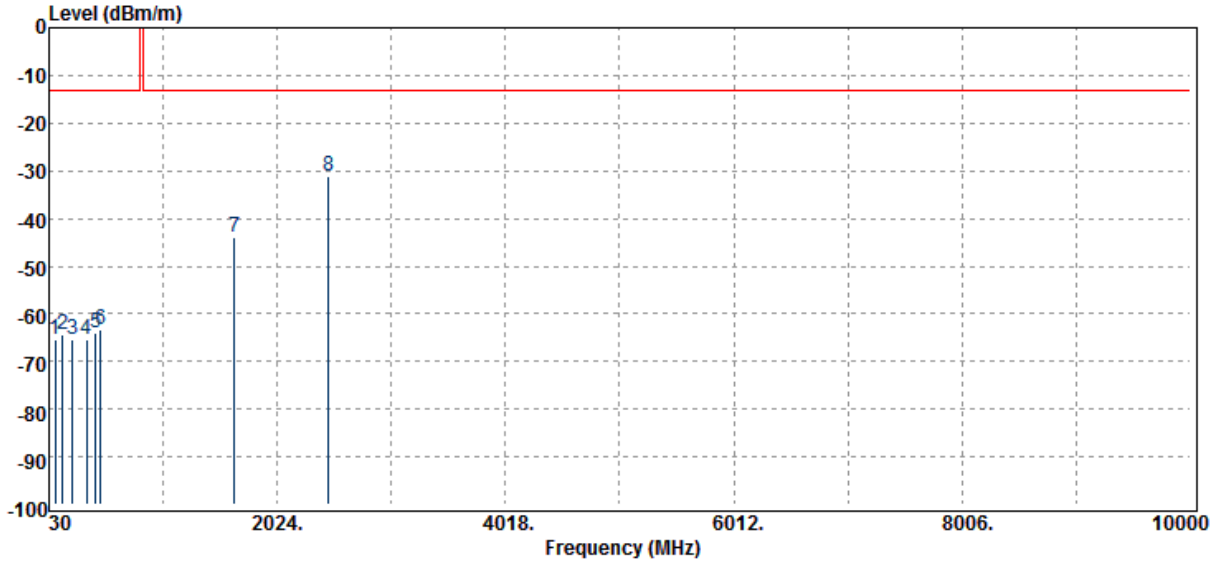
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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](http://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](http://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	:GPRS 850	Temp./Humi.	:24 deg_C / 61 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Wei
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
86.26	-65.53	-63.34	-1.20	-0.99	-13.00	-52.53
146.40	-64.26	-61.00	-1.98	-1.29	-13.00	-51.26
236.61	-65.50	-67.27	3.42	-1.65	-13.00	-52.50
357.86	-65.48	-67.26	3.83	-2.05	-13.00	-52.48
437.40	-63.86	-65.46	3.58	-1.98	-13.00	-50.86
483.96	-63.26	-65.29	3.89	-1.85	-13.00	-50.26
1648.40	-43.81	-46.43	6.97	-4.35	-13.00	-30.81
2472.60	-31.19	-34.04	8.34	-5.49	-13.00	-18.19

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](http://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](http://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

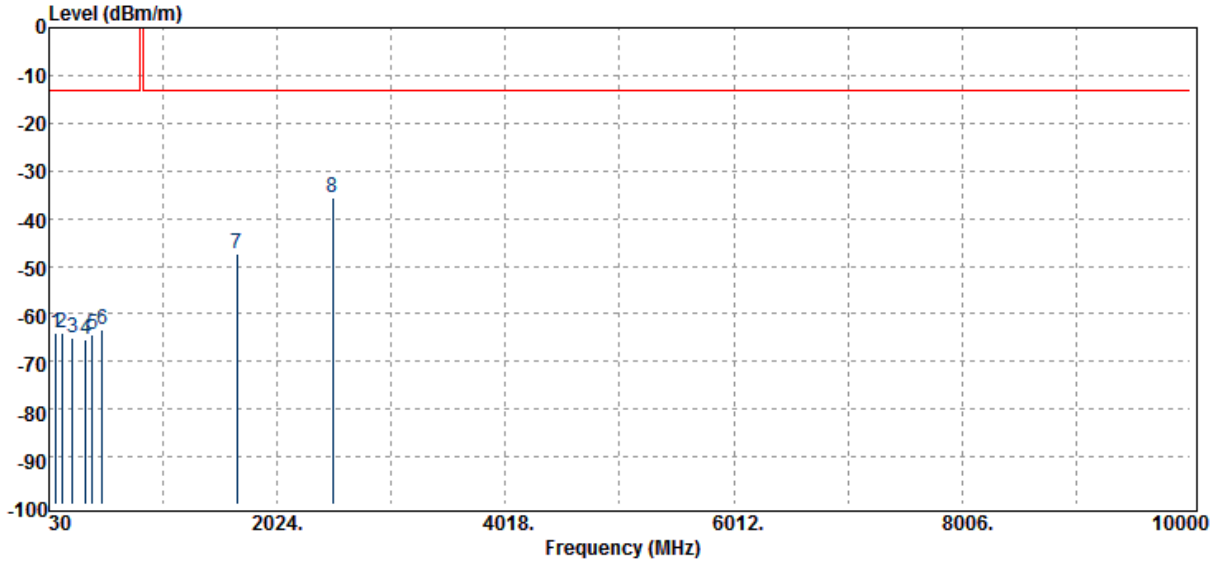
t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

Operation Band	:GPRS 850	Temp./Humi.	:24 deg_C / 61 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Wei
Operation Mode	:Tx CH MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plane		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
91.11	-64.01	-62.38	-0.62	-1.01	-13.00	-51.01
140.58	-63.89	-60.35	-2.27	-1.26	-13.00	-50.89
238.55	-65.19	-66.99	3.45	-1.66	-13.00	-52.19
353.01	-65.42	-67.24	3.85	-2.03	-13.00	-52.42
406.36	-64.39	-65.93	3.69	-2.15	-13.00	-51.39
493.66	-63.26	-65.22	3.99	-2.04	-13.00	-50.26
1673.20	-47.27	-49.94	7.06	-4.39	-13.00	-34.27
2509.80	-35.76	-38.60	8.37	-5.53	-13.00	-22.76

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](http://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](http://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

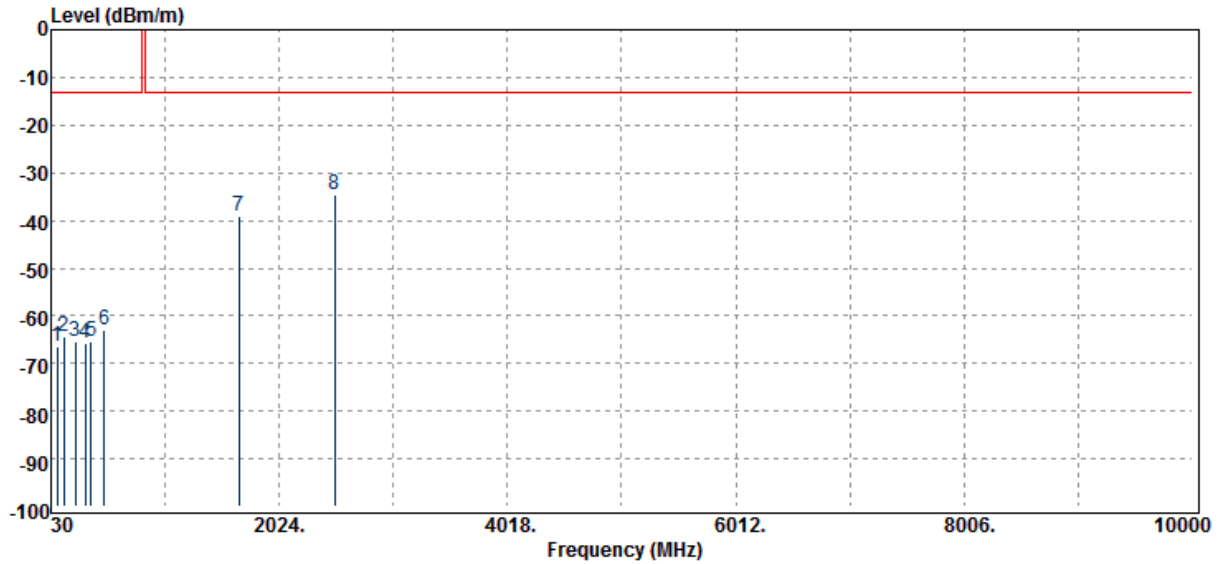
t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

Operation Band	:GPRS 850	Temp./Humi.	:24 deg_C / 61 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Wei
Operation Mode	:Tx CH MID	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plane		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
81.41	-66.27	-63.20	-2.09	-0.97	-13.00	-53.27
141.55	-64.36	-60.86	-2.22	-1.27	-13.00	-51.36
245.34	-65.54	-67.36	3.51	-1.69	-13.00	-52.54
328.76	-65.61	-67.47	3.76	-1.90	-13.00	-52.61
381.14	-65.34	-67.08	3.77	-2.02	-13.00	-52.34
492.69	-62.89	-64.86	3.98	-2.01	-13.00	-49.89
1673.20	-39.13	-41.79	7.06	-4.39	-13.00	-26.13
2509.80	-34.72	-37.56	8.37	-5.53	-13.00	-21.72

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](http://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](http://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

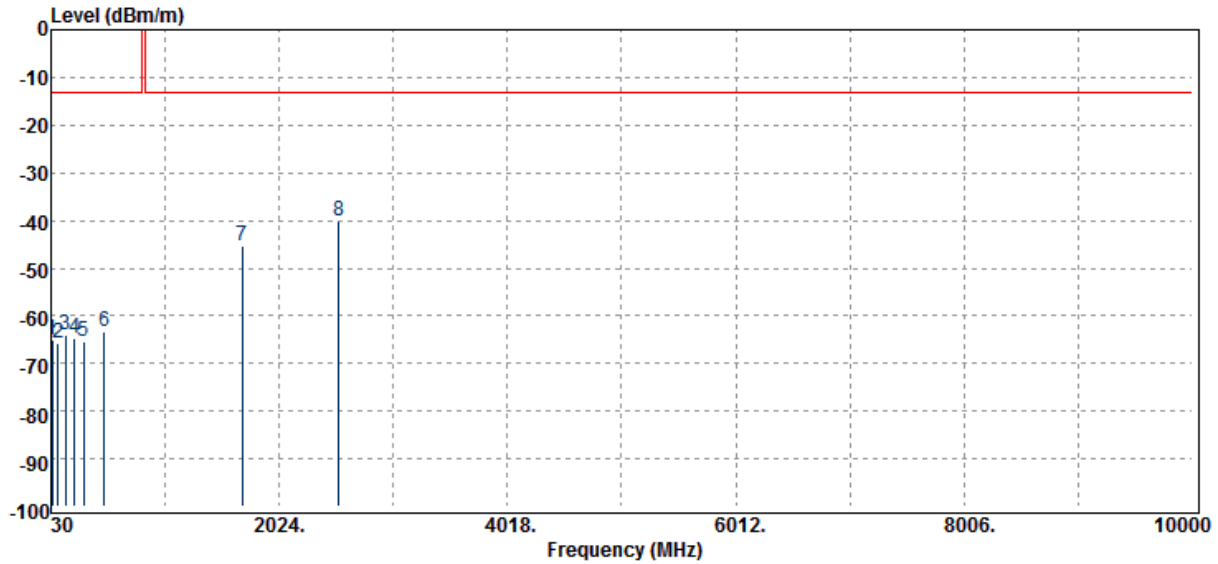
t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

Operation Band	:GPRS 850	Temp./Humi.	:24 deg_C / 61 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Wei
Operation Mode	:Tx CH HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plane		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
41.64	-65.04	-51.90	-12.47	-0.67	-13.00	-52.04
88.20	-65.86	-64.01	-0.85	-1.00	-13.00	-52.86
153.19	-63.99	-61.08	-1.62	-1.30	-13.00	-50.99
238.55	-64.87	-66.66	3.45	-1.66	-13.00	-51.87
316.15	-65.31	-67.14	3.70	-1.86	-13.00	-52.31
491.72	-63.36	-65.35	3.97	-1.99	-13.00	-50.36
1697.60	-45.37	-48.07	7.14	-4.43	-13.00	-32.37
2546.40	-40.17	-43.01	8.42	-5.58	-13.00	-27.17

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](http://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](http://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

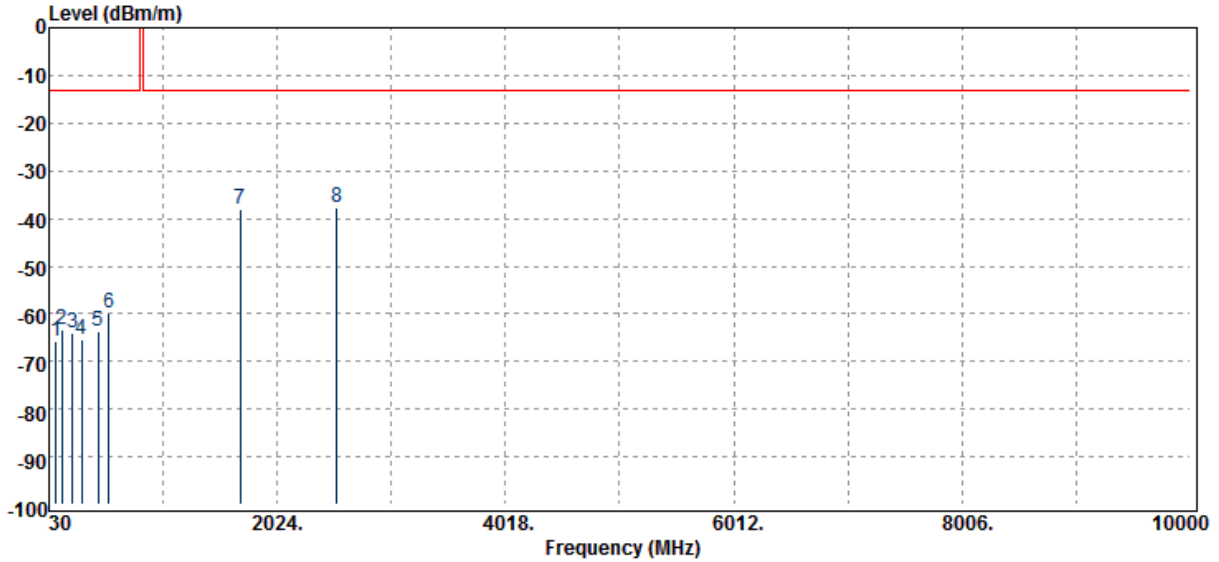
t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

Operation Band	:GPRS 850	Temp./Humi.	:24 deg_C / 61 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Wei
Operation Mode	:Tx CH HIGH	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plane		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
88.20	-65.81	-63.95	-0.85	-1.00	-13.00	-52.81
139.61	-63.35	-59.80	-2.29	-1.26	-13.00	-50.35
236.61	-63.92	-65.69	3.42	-1.65	-13.00	-50.92
316.15	-65.39	-67.22	3.70	-1.86	-13.00	-52.39
461.65	-63.64	-64.83	3.66	-2.47	-13.00	-50.64
551.86	-59.88	-61.72	3.96	-2.13	-13.00	-46.88
1697.60	-38.23	-40.94	7.14	-4.43	-13.00	-25.23
2546.40	-37.87	-40.71	8.42	-5.58	-13.00	-24.87

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](http://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](http://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

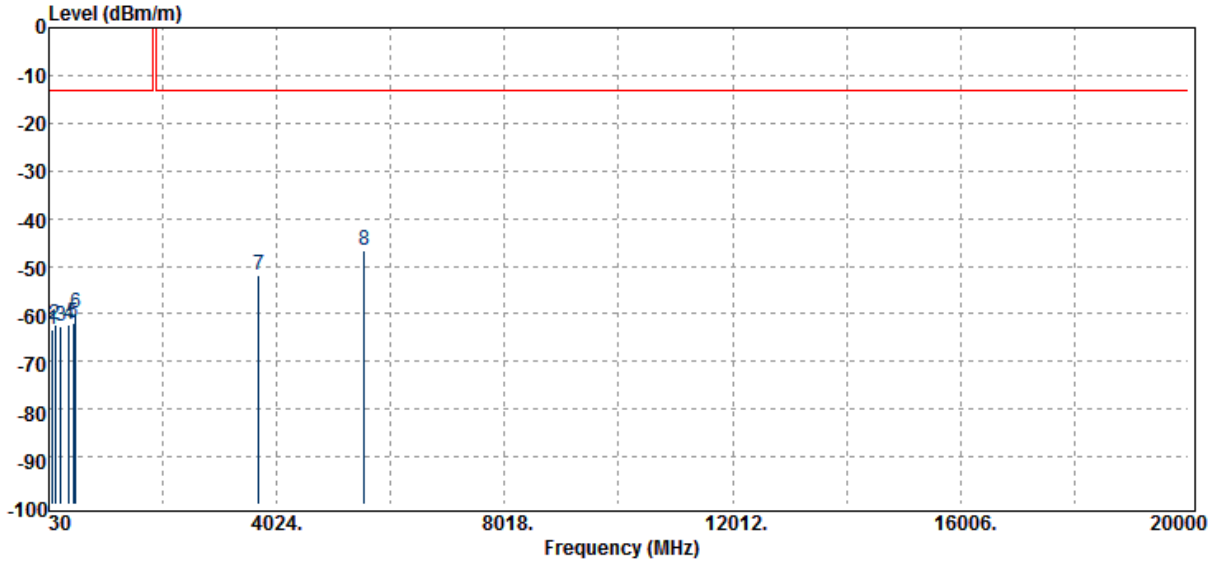
f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

### Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Band :GPRS 1900 Temp./Humi. :22 deg\_C / 61 RH  
 Fundamental Frequency :1850.2 MHz Engineer :Wei  
 Operation Mode :Tx CH LOW  
 EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
93.05	-63.29	-63.66	1.39	-1.02	-13.00	-50.29
141.55	-62.38	-61.04	-0.07	-1.27	-13.00	-49.38
245.34	-62.47	-66.43	5.66	-1.69	-13.00	-49.47
386.96	-62.30	-66.18	5.90	-2.02	-13.00	-49.30
454.86	-61.82	-65.31	5.74	-2.25	-13.00	-48.82
493.66	-59.75	-63.85	6.14	-2.04	-13.00	-46.75
3700.40	-51.88	-56.91	12.57	-6.91	-13.00	-38.88
5550.60	-46.65	-50.72	13.07	-8.45	-13.00	-33.65

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](http://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](http://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

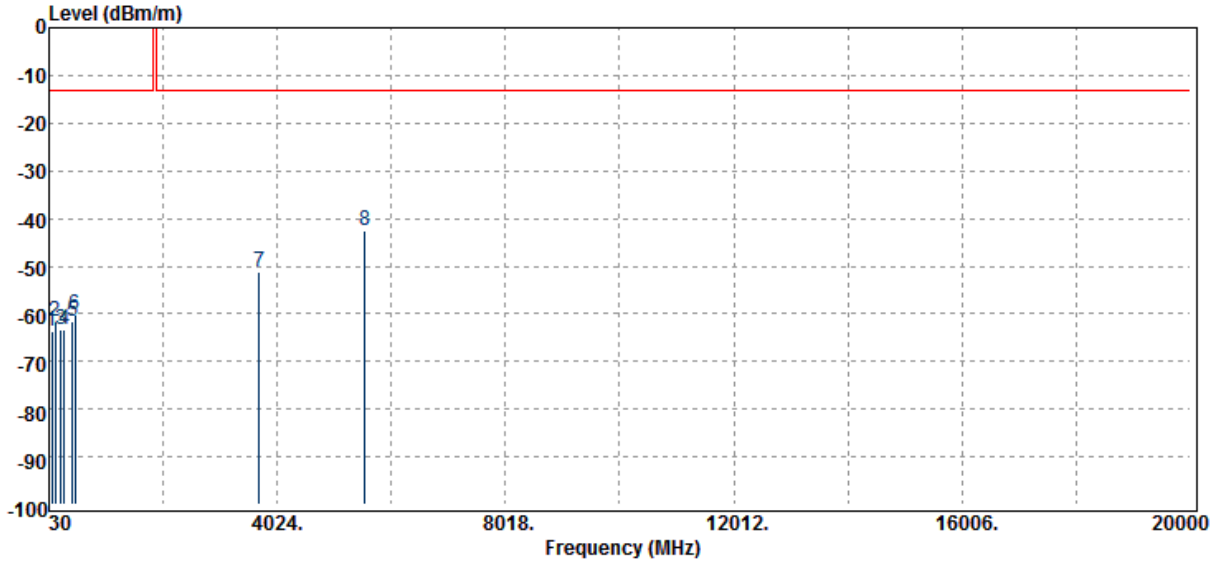
t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

Operation Band	:GPRS 1900	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Wei
Operation Mode	:Tx CH LOW	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plane		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
85.29	-63.52	-63.31	0.78	-0.99	-13.00	-50.52
144.46	-61.48	-60.26	0.07	-1.28	-13.00	-48.48
236.61	-63.22	-67.13	5.57	-1.65	-13.00	-50.22
304.51	-63.17	-67.12	5.79	-1.85	-13.00	-50.17
444.19	-61.50	-65.29	5.71	-1.92	-13.00	-48.50
483.96	-60.29	-64.48	6.04	-1.85	-13.00	-47.29
3700.40	-51.07	-56.10	12.57	-6.91	-13.00	-38.07
5550.60	-42.45	-46.52	13.07	-8.45	-13.00	-29.45

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](http://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](http://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

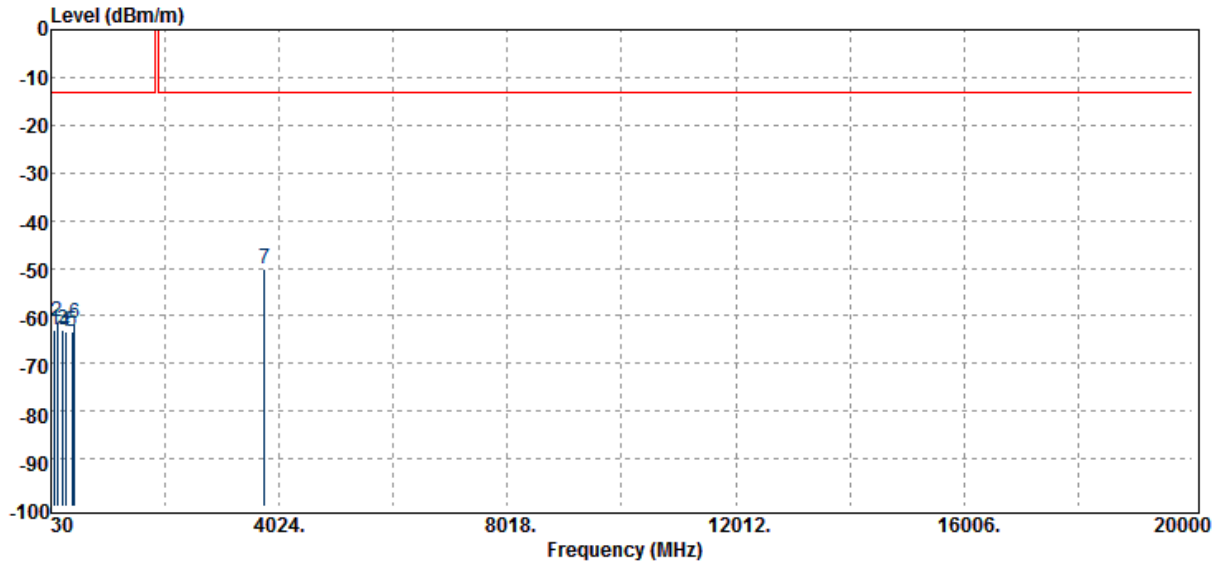
t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

Operation Band	:GPRS 1900	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:1880 MHz	Engineer	:Wei
Operation Mode	:Tx CH MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plane		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
93.05	-62.88	-63.25	1.39	-1.02	-13.00	-49.88
139.61	-61.37	-59.97	-0.14	-1.26	-13.00	-48.37
241.46	-62.81	-66.77	5.64	-1.68	-13.00	-49.81
279.29	-63.21	-67.03	5.57	-1.74	-13.00	-50.21
394.72	-63.18	-66.98	5.88	-2.08	-13.00	-50.18
449.04	-61.53	-65.17	5.69	-2.05	-13.00	-48.53
3760.00	-50.22	-55.94	12.61	-6.89	-13.00	-37.22

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](http://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](http://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

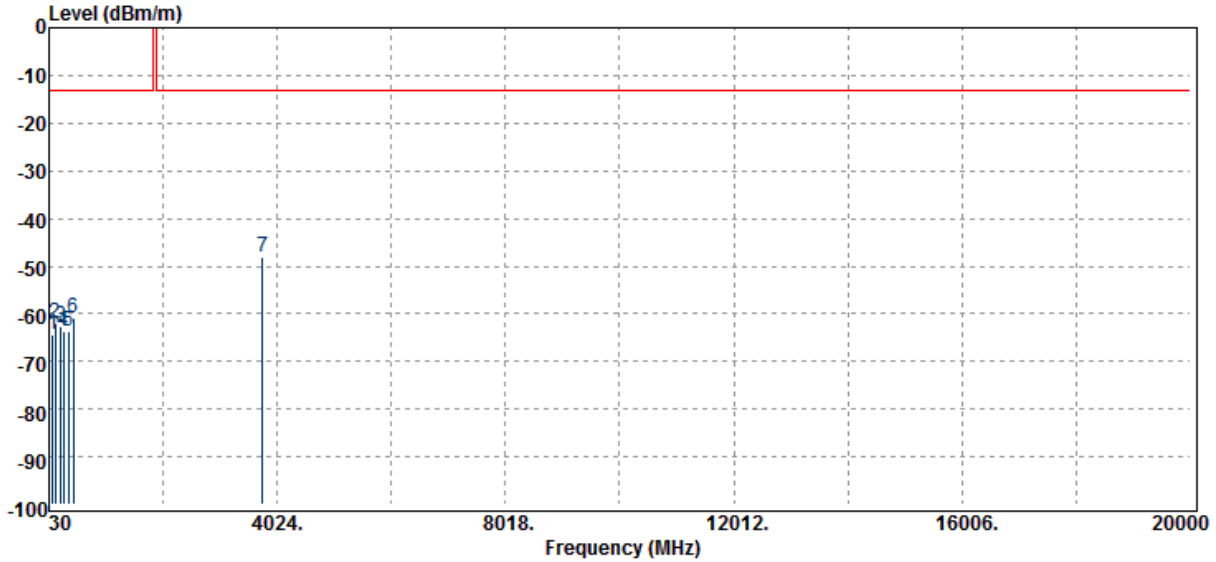
f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group



Operation Band	:GPRS 1900	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:1880 MHz	Engineer	:Wei
Operation Mode	:Tx CH MID	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plane		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
90.14	-64.36	-64.95	1.60	-1.01	-13.00	-51.36
140.58	-61.96	-60.57	-0.12	-1.26	-13.00	-48.96
233.70	-62.55	-66.43	5.52	-1.64	-13.00	-49.55
289.96	-63.81	-67.60	5.57	-1.78	-13.00	-50.81
367.56	-63.73	-67.61	5.95	-2.06	-13.00	-50.73
459.71	-61.00	-64.38	5.79	-2.41	-13.00	-48.00
3760.00	-48.12	-53.85	12.61	-6.89	-13.00	-35.12

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](http://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](http://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

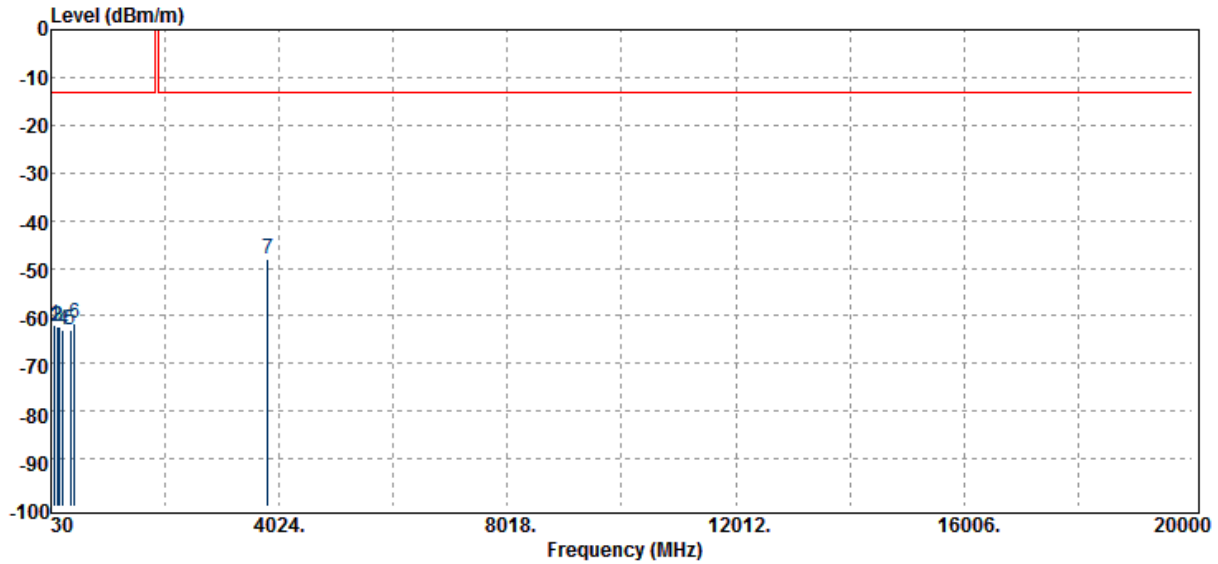
t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

Operation Band	:GPRS 1900	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Wei
Operation Mode	:Tx CH HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plane		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
93.05	-61.90	-62.27	1.39	-1.02	-13.00	-48.90
144.46	-62.32	-61.11	0.07	-1.28	-13.00	-49.32
172.59	-62.21	-62.82	1.95	-1.34	-13.00	-49.21
235.64	-62.94	-66.85	5.55	-1.65	-13.00	-49.94
364.65	-62.87	-66.76	5.96	-2.07	-13.00	-49.87
440.31	-61.65	-65.42	5.72	-1.95	-13.00	-48.65
3819.60	-48.26	-53.90	12.66	-7.02	-13.00	-35.26

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](http://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](http://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

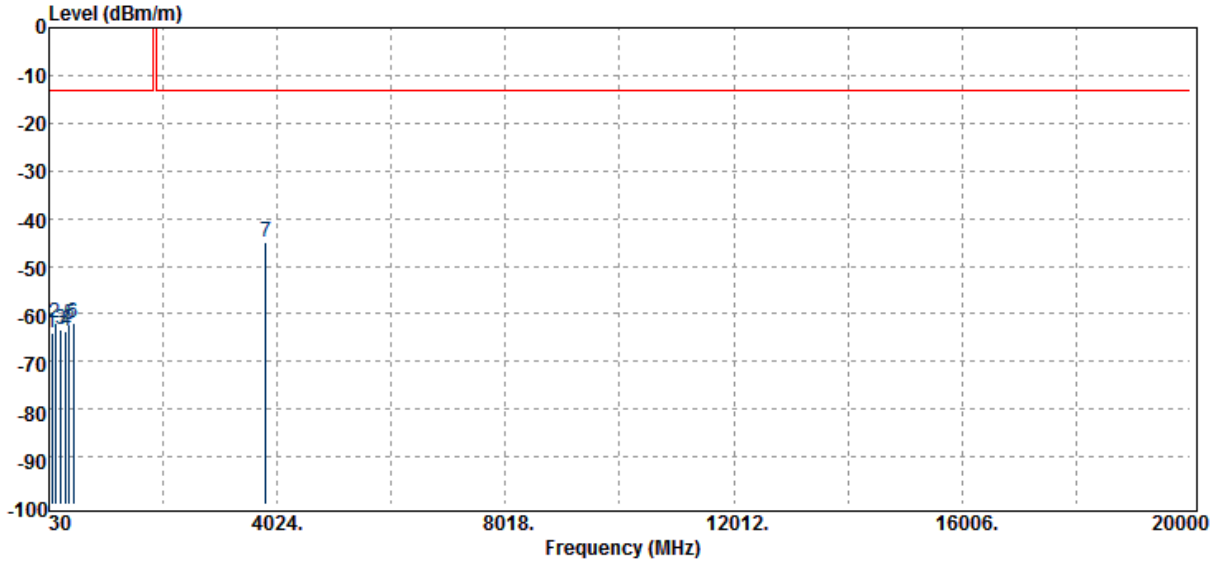
t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

Operation Band	:GPRS 1900	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Wei
Operation Mode	:Tx CH HIGH	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plane		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
85.29	-63.97	-63.76	0.78	-0.99	-13.00	-50.97
138.64	-62.05	-60.69	-0.11	-1.25	-13.00	-49.05
236.61	-63.48	-67.39	5.57	-1.65	-13.00	-50.48
327.79	-63.83	-67.83	5.90	-1.90	-13.00	-50.83
377.26	-62.38	-66.27	5.93	-2.03	-13.00	-49.38
450.01	-61.79	-65.39	5.69	-2.08	-13.00	-48.79
3819.60	-45.06	-50.70	12.66	-7.02	-13.00	-32.06

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](http://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](http://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

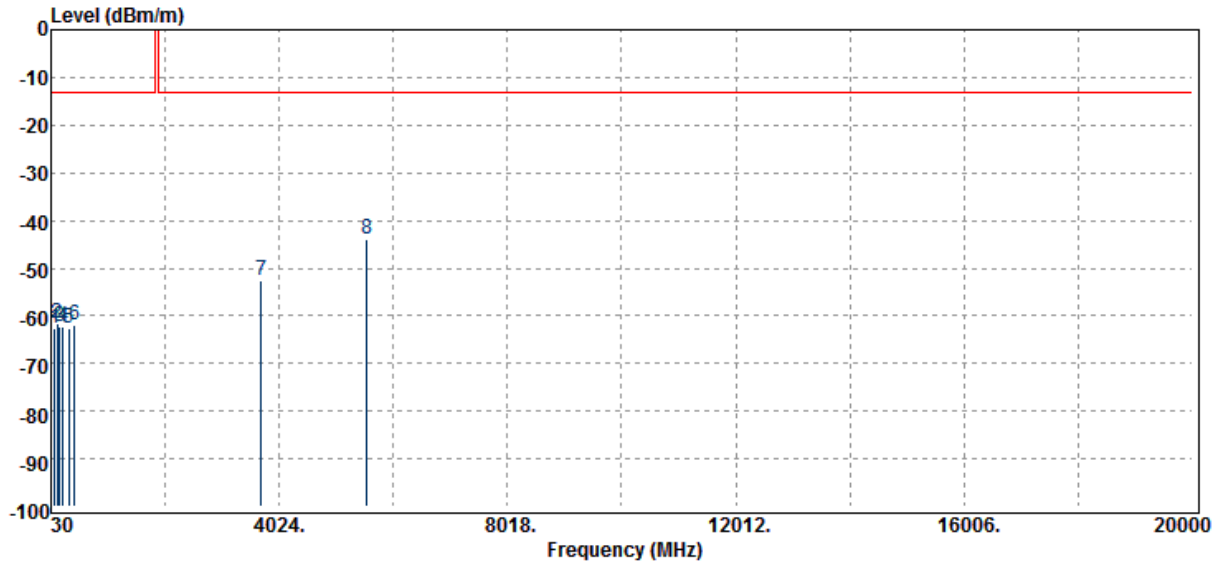
f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

### Radiated Spurious Emission Measurement Result: WCDMA Band 2 Mode

Operation Band :WCDMA B2 Temp./Humi. :22 deg\_C / 61 RH  
 Fundamental Frequency :1852.4 MHz Engineer :Wei  
 Operation Mode :Tx CH LOW  
 EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
93.05	-62.72	-63.09	1.39	-1.02	-13.00	-49.72
139.61	-61.60	-60.20	-0.14	-1.26	-13.00	-48.60
175.50	-62.37	-63.43	2.42	-1.36	-13.00	-49.37
238.55	-62.13	-66.07	5.60	-1.66	-13.00	-49.13
333.61	-62.69	-66.68	5.93	-1.93	-13.00	-49.69
442.25	-61.89	-65.67	5.71	-1.93	-13.00	-48.89
3704.80	-52.54	-57.59	12.57	-6.90	-13.00	-39.54
5557.20	-44.00	-48.07	13.06	-8.43	-13.00	-31.00

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](http://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](http://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

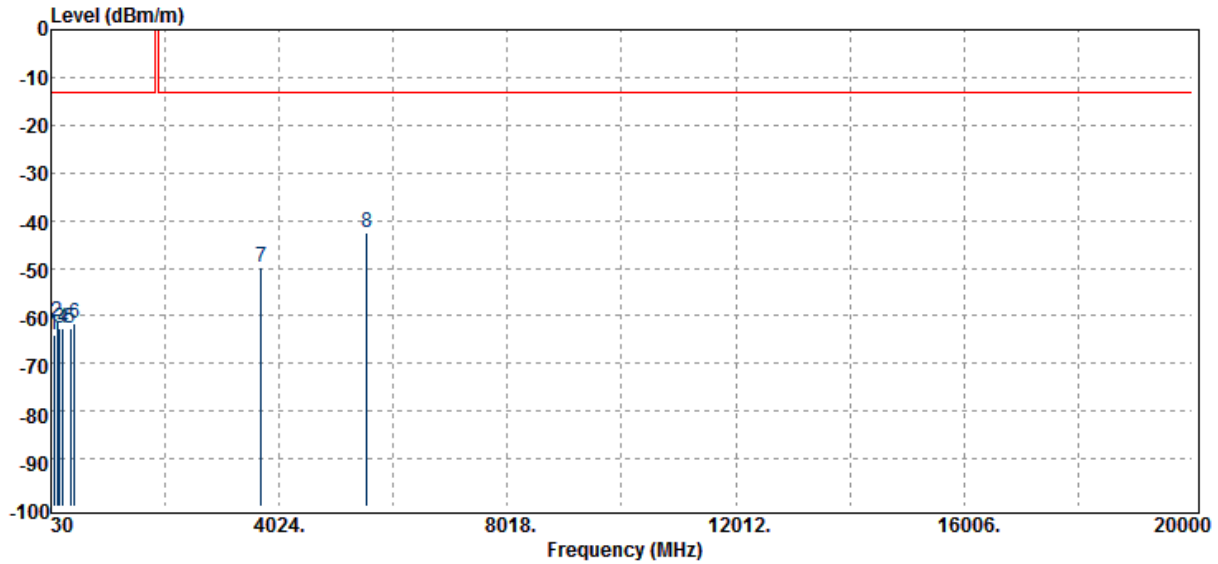
t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

Operation Band	:WCDMA B2	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Wei
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
83.35	-63.92	-63.36	0.42	-0.98	-13.00	-50.92
139.61	-61.37	-59.97	-0.14	-1.26	-13.00	-48.37
178.41	-62.71	-64.22	2.88	-1.37	-13.00	-49.71
240.49	-62.50	-66.46	5.63	-1.67	-13.00	-49.50
366.59	-62.69	-66.58	5.96	-2.07	-13.00	-49.69
444.19	-61.56	-65.35	5.71	-1.92	-13.00	-48.56
3704.80	-49.73	-54.77	12.57	-6.90	-13.00	-36.73
5557.20	-42.61	-46.69	13.06	-8.43	-13.00	-29.61

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](http://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](http://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

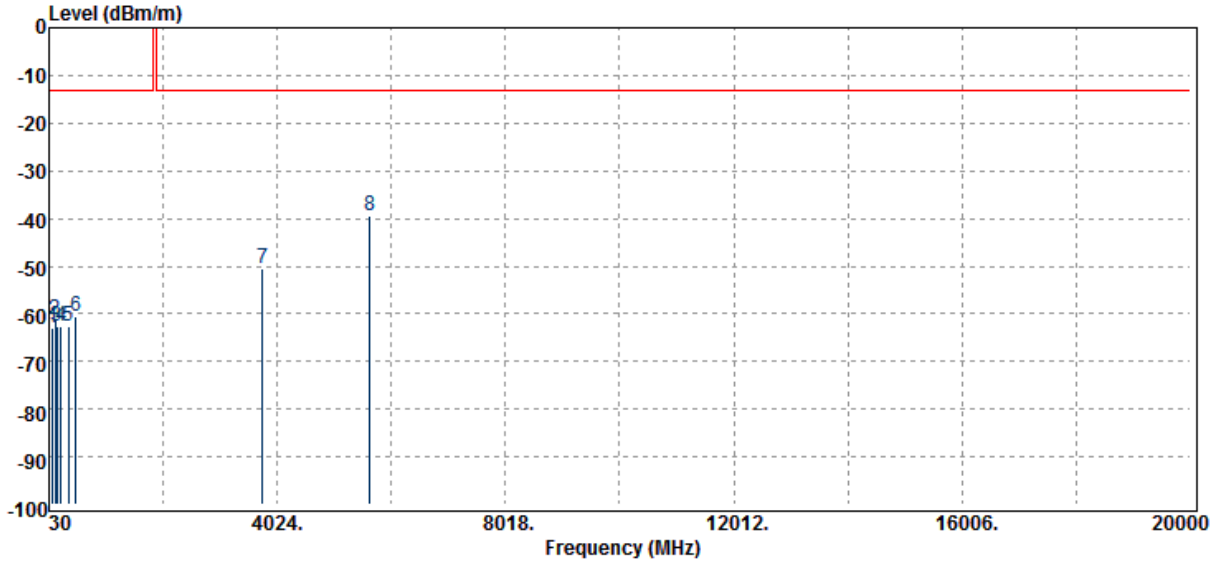
t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

Operation Band	:WCDMA B2	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:1880 MHz	Engineer	:Wei
Operation Mode	:Tx CH MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plane		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
93.05	-63.02	-63.39	1.39	-1.02	-13.00	-50.02
144.46	-61.30	-60.09	0.07	-1.28	-13.00	-48.30
172.59	-62.64	-63.25	1.95	-1.34	-13.00	-49.64
235.64	-62.57	-66.47	5.55	-1.65	-13.00	-49.57
369.50	-62.62	-66.51	5.95	-2.06	-13.00	-49.62
493.66	-60.72	-64.82	6.14	-2.04	-13.00	-47.72
3760.00	-50.63	-55.76	12.61	-6.89	-13.00	-37.63
5640.00	-39.35	-43.27	13.01	-8.53	-13.00	-26.35

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](http://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](http://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

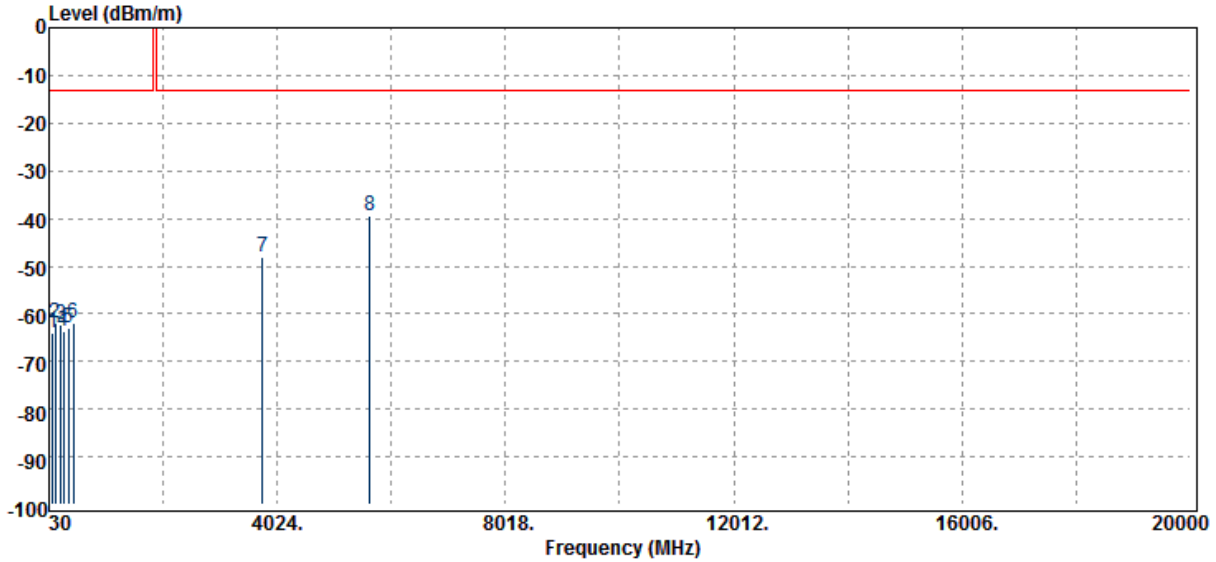
t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

Operation Band	:WCDMA B2	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:1880 MHz	Engineer	:Wei
Operation Mode	:Tx CH MID	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plane		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
90.14	-64.10	-64.68	1.60	-1.01	-13.00	-51.10
140.58	-61.95	-60.56	-0.12	-1.26	-13.00	-48.95
238.55	-62.43	-66.37	5.60	-1.66	-13.00	-49.43
280.26	-63.51	-67.33	5.57	-1.75	-13.00	-50.51
371.44	-62.94	-66.83	5.94	-2.05	-13.00	-49.94
450.01	-61.93	-65.54	5.69	-2.08	-13.00	-48.93
3760.00	-48.18	-53.30	12.61	-6.89	-13.00	-35.18
5640.00	-39.54	-43.46	13.01	-8.53	-13.00	-26.54

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](http://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](http://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

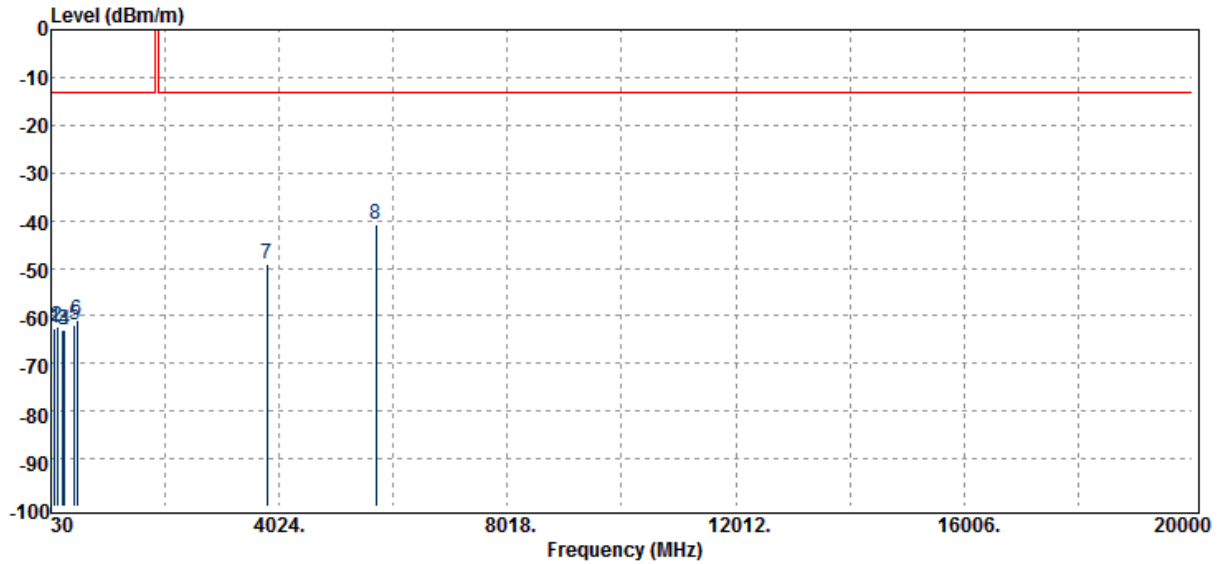
t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

Operation Band	:WCDMA B2	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Wei
Operation Mode	:Tx CH HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plane		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
93.05	-62.60	-62.97	1.39	-1.02	-13.00	-49.60
140.58	-62.34	-60.95	-0.12	-1.26	-13.00	-49.34
236.61	-62.96	-66.88	5.57	-1.65	-13.00	-49.96
275.41	-62.82	-66.69	5.60	-1.73	-13.00	-49.82
442.25	-62.04	-65.82	5.71	-1.93	-13.00	-49.04
485.90	-60.92	-65.15	6.06	-1.84	-13.00	-47.92
3815.20	-49.21	-54.29	12.66	-7.00	-13.00	-36.21
5722.80	-40.77	-44.60	12.96	-8.55	-13.00	-27.77

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](http://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](http://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

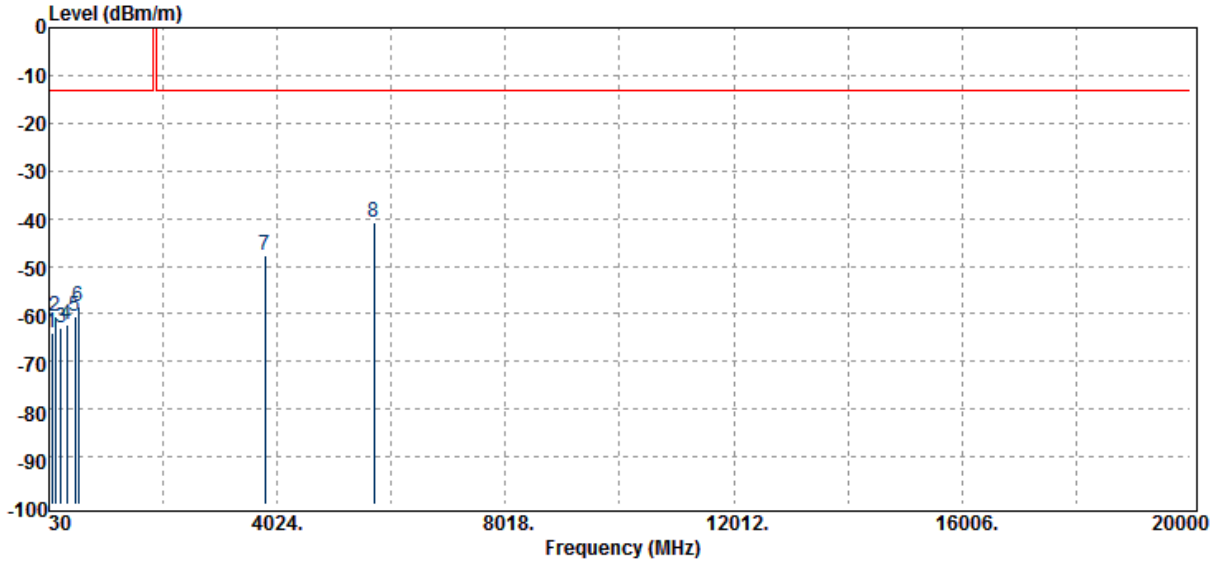
f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group



Operation Band	:WCDMA B2	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Wei
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
85.29	-63.95	-63.74	0.78	-0.99	-13.00	-50.95
144.46	-60.45	-59.23	0.07	-1.28	-13.00	-47.45
236.61	-63.06	-66.98	5.57	-1.65	-13.00	-50.06
338.46	-62.39	-66.38	5.95	-1.97	-13.00	-49.39
488.81	-60.61	-64.79	6.09	-1.91	-13.00	-47.61
536.34	-58.48	-62.52	6.15	-2.11	-13.00	-45.48
3815.20	-47.85	-52.93	12.66	-7.00	-13.00	-34.85
5722.80	-40.89	-44.72	12.96	-8.55	-13.00	-27.89

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](http://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](http://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

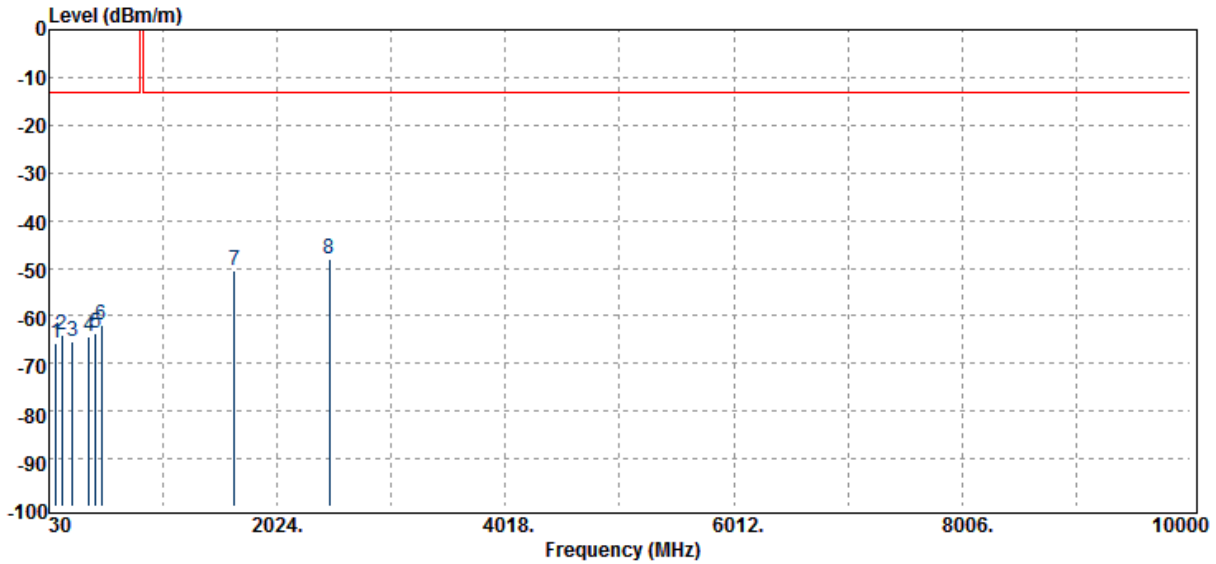
f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group



Operation Band	:WCDMA B5	Temp./Humi.	:24 deg_C / 61 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Wei
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
90.14	-65.60	-64.04	-0.55	-1.01	-13.00	-52.60
141.55	-63.99	-60.50	-2.22	-1.27	-13.00	-50.99
236.61	-65.29	-67.06	3.42	-1.65	-13.00	-52.29
376.29	-64.47	-66.21	3.78	-2.03	-13.00	-51.47
434.49	-63.55	-65.13	3.59	-2.01	-13.00	-50.55
484.93	-61.98	-64.07	3.90	-1.82	-13.00	-48.98
1652.80	-50.51	-55.29	9.14	-4.36	-13.00	-37.51
2479.20	-48.04	-53.03	10.49	-5.50	-13.00	-35.04

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](http://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](http://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

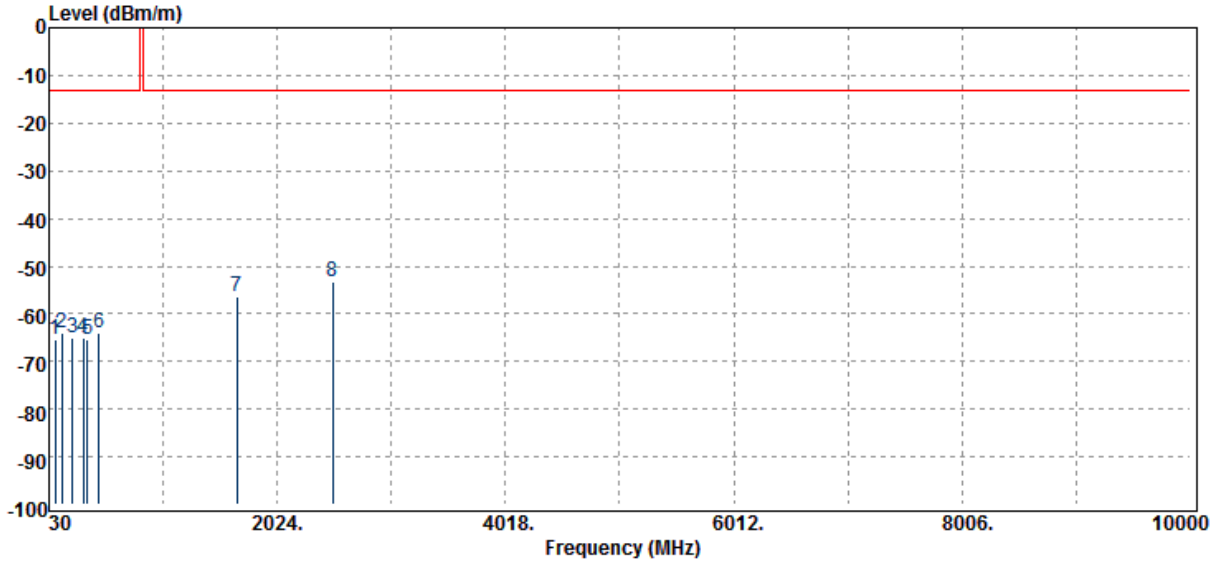
t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

Operation Band	:WCDMA B5	Temp./Humi.	:24 deg_C / 61 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Wei
Operation Mode	:Tx CH MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plane		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
85.29	-65.27	-62.91	-1.37	-0.99	-13.00	-52.27
138.64	-64.19	-60.67	-2.26	-1.25	-13.00	-51.19
236.61	-65.21	-66.97	3.42	-1.65	-13.00	-52.21
325.85	-64.99	-66.85	3.74	-1.88	-13.00	-51.99
366.59	-65.35	-67.09	3.81	-2.07	-13.00	-52.35
468.44	-64.08	-65.36	3.73	-2.45	-13.00	-51.08
1673.20	-56.44	-61.26	9.21	-4.39	-13.00	-43.44
2509.80	-53.39	-58.37	10.52	-5.53	-13.00	-40.39

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](http://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](http://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

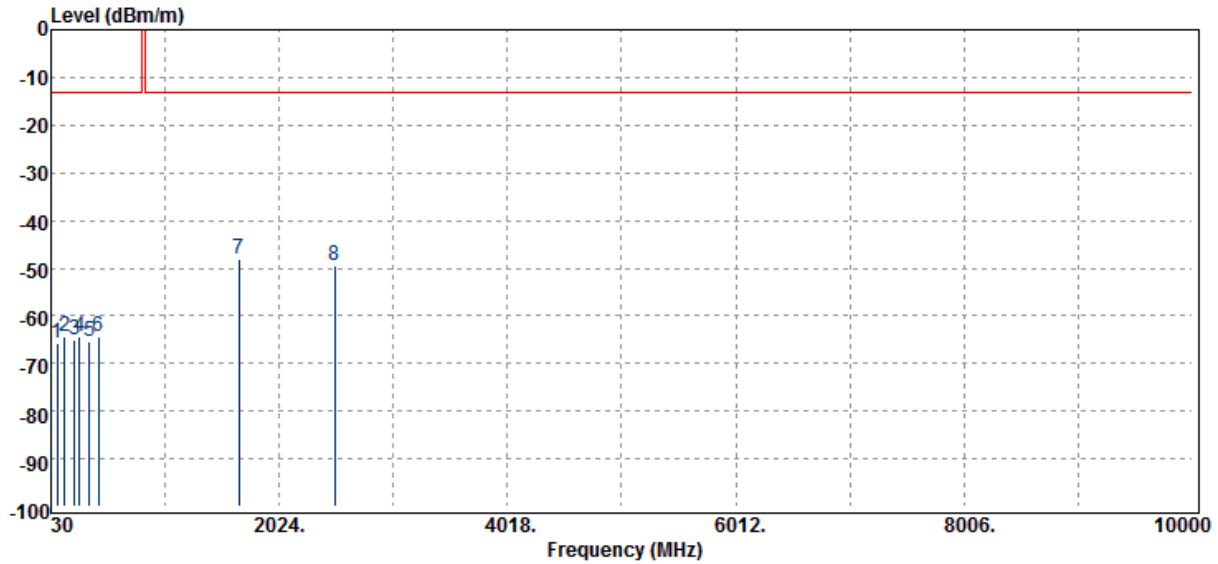
t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

Operation Band	:WCDMA B5	Temp./Humi.	:24 deg_C / 61 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Wei
Operation Mode	:Tx CH MID	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plane		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
86.26	-65.81	-63.62	-1.20	-0.99	-13.00	-52.81
146.40	-64.22	-60.95	-1.98	-1.29	-13.00	-51.22
236.61	-64.95	-66.72	3.42	-1.65	-13.00	-51.95
280.26	-64.37	-66.04	3.42	-1.75	-13.00	-51.37
362.71	-65.53	-67.29	3.82	-2.07	-13.00	-52.53
442.25	-64.35	-65.98	3.56	-1.93	-13.00	-51.35
1673.20	-48.00	-52.82	9.21	-4.39	-13.00	-35.00
2509.80	-49.38	-54.36	10.52	-5.53	-13.00	-36.38

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](http://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](http://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

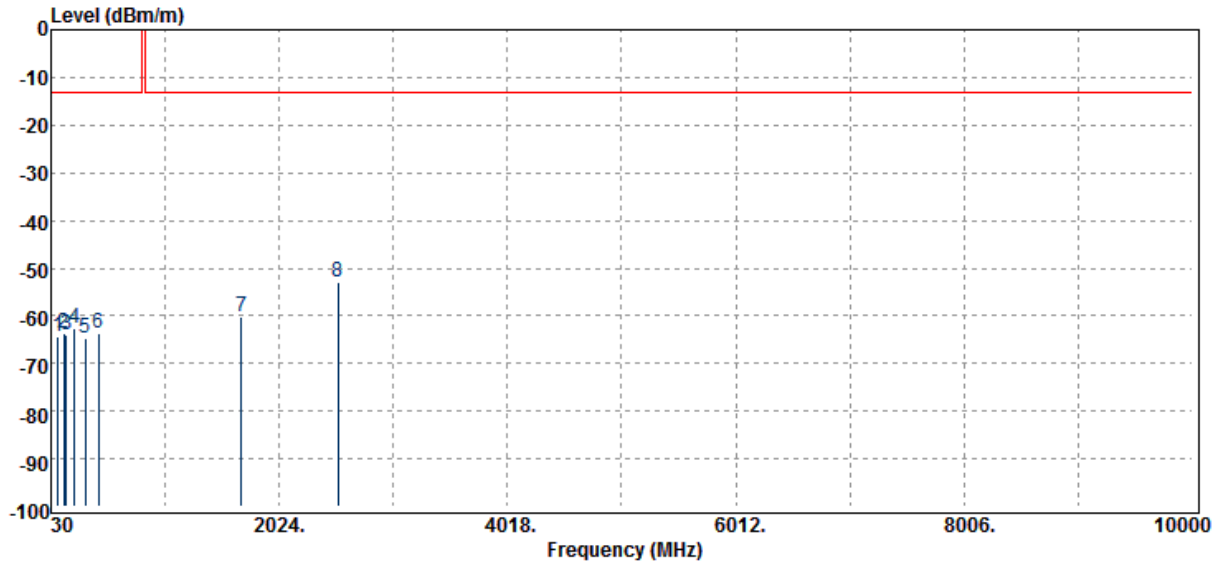
t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

Operation Band	:WCDMA B5	Temp./Humi.	:24 deg_C / 61 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Wei
Operation Mode	:Tx CH HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plane		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
91.11	-64.53	-62.89	-0.62	-1.01	-13.00	-51.53
139.61	-63.77	-60.22	-2.29	-1.26	-13.00	-50.77
165.80	-64.09	-61.90	-0.88	-1.31	-13.00	-51.09
236.61	-62.73	-64.50	3.42	-1.65	-13.00	-49.73
328.76	-64.81	-66.66	3.76	-1.90	-13.00	-51.81
445.16	-63.58	-65.22	3.55	-1.92	-13.00	-50.58
1693.20	-60.15	-62.85	7.12	-4.43	-13.00	-47.15
2539.80	-52.93	-55.77	8.41	-5.57	-13.00	-39.93

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](http://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](http://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

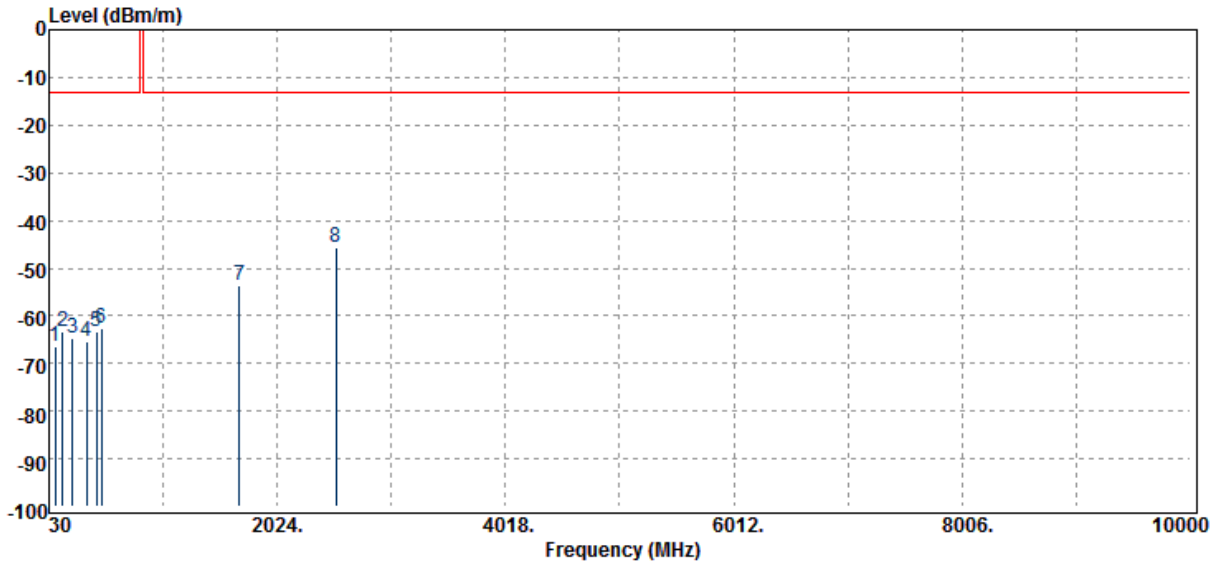
t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

Operation Band	:WCDMA B5	Temp./Humi.	:24 deg_C / 61 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Wei
Operation Mode	:Tx CH HIGH	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plane		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
85.29	-66.56	-64.20	-1.37	-0.99	-13.00	-53.56
146.40	-63.46	-60.19	-1.98	-1.29	-13.00	-50.46
238.55	-64.61	-66.40	3.45	-1.66	-13.00	-51.61
357.86	-65.25	-67.03	3.83	-2.05	-13.00	-52.25
442.25	-63.28	-64.90	3.56	-1.93	-13.00	-50.28
485.90	-62.64	-64.71	3.91	-1.84	-13.00	-49.64
1693.20	-53.68	-56.37	7.12	-4.43	-13.00	-40.68
2539.80	-45.74	-48.58	8.41	-5.57	-13.00	-32.74

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](http://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](http://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

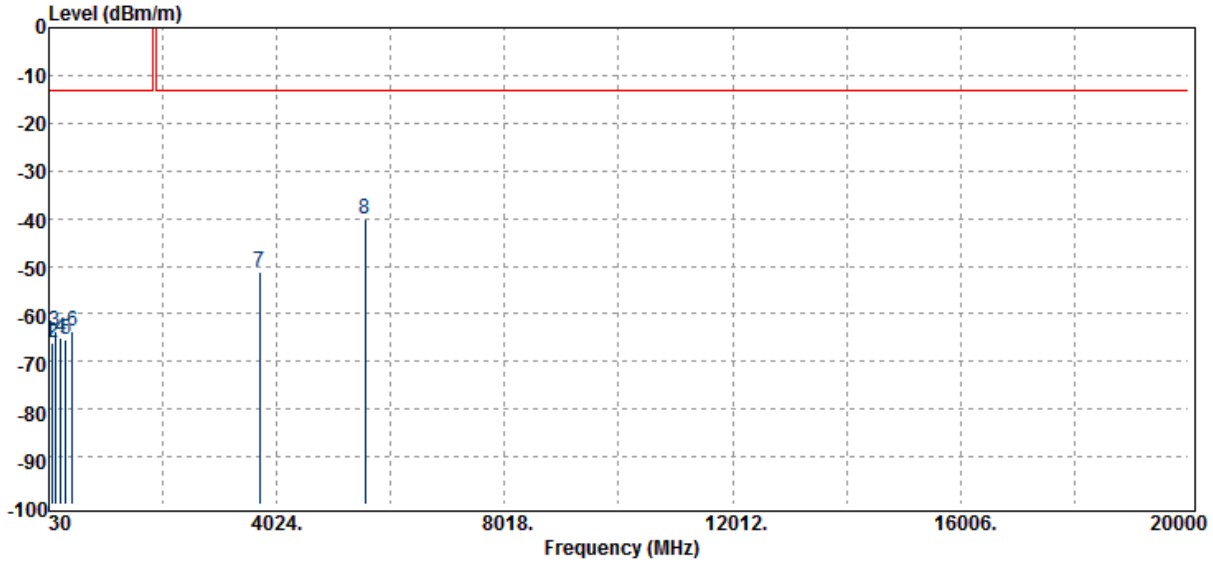
f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

### Radiated Spurious Emission Measurement Result: LTE-Band 2 (The Worst Case)

Operation Band :LTE B2 Temp./Humi. :24.1 deg\_C / 65 RH  
 Fundamental Frequency :1857.5 MHz Engineer :Wei  
 Operation Mode :Tx CH LOW  
 EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
41.64	-65.74	-52.59	-12.47	-0.67	-13.00	-52.74
91.11	-66.00	-64.37	-0.62	-1.01	-13.00	-53.00
141.55	-63.82	-60.33	-2.22	-1.27	-13.00	-50.82
240.49	-65.01	-66.82	3.48	-1.67	-13.00	-52.01
325.85	-65.52	-67.38	3.74	-1.88	-13.00	-52.52
444.19	-63.71	-65.35	3.56	-1.92	-13.00	-50.71
3715.00	-51.35	-56.42	12.58	-6.89	-13.00	-38.35
5572.50	-40.24	-44.34	13.05	-8.40	-13.00	-27.24

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](http://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](http://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

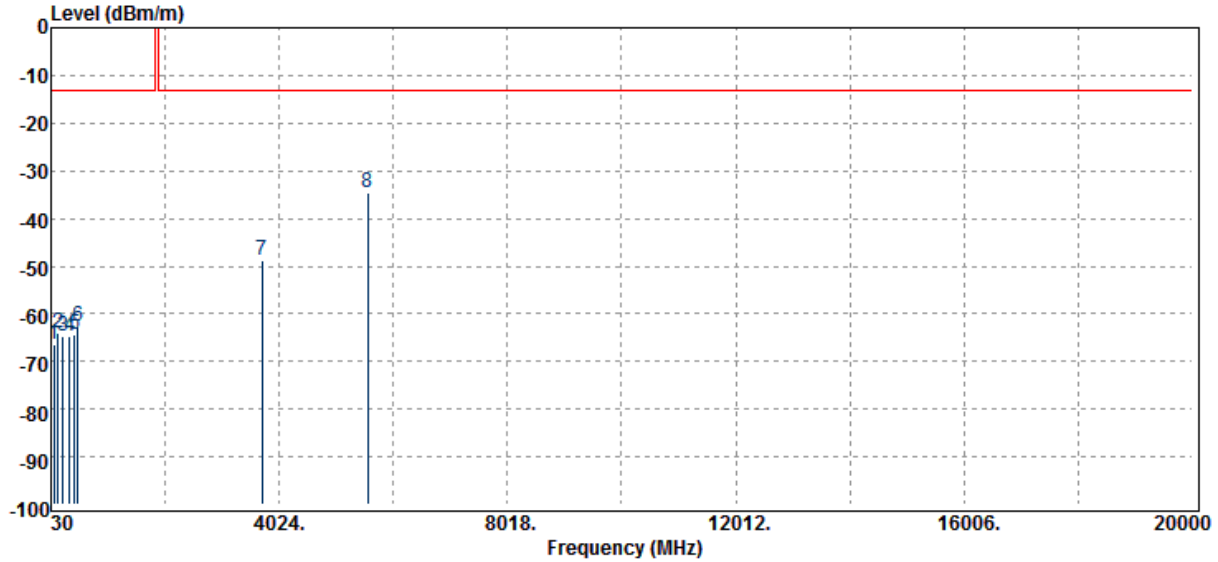
f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group



Operation Band	:LTE B2	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1857.5 MHz	Engineer	:Wei
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
85.29	-66.34	-63.98	-1.37	-0.99	-13.00	-53.34
146.40	-63.98	-60.71	-1.98	-1.29	-13.00	-50.98
236.61	-64.61	-66.38	3.42	-1.65	-13.00	-51.61
348.16	-64.68	-66.51	3.85	-2.02	-13.00	-51.68
449.04	-64.21	-65.71	3.54	-2.05	-13.00	-51.21
493.66	-62.63	-64.59	3.99	-2.04	-13.00	-49.63
3715.00	-48.94	-54.01	12.58	-6.89	-13.00	-35.94
5572.50	-34.43	-38.53	13.05	-8.40	-13.00	-21.43

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](http://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](http://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

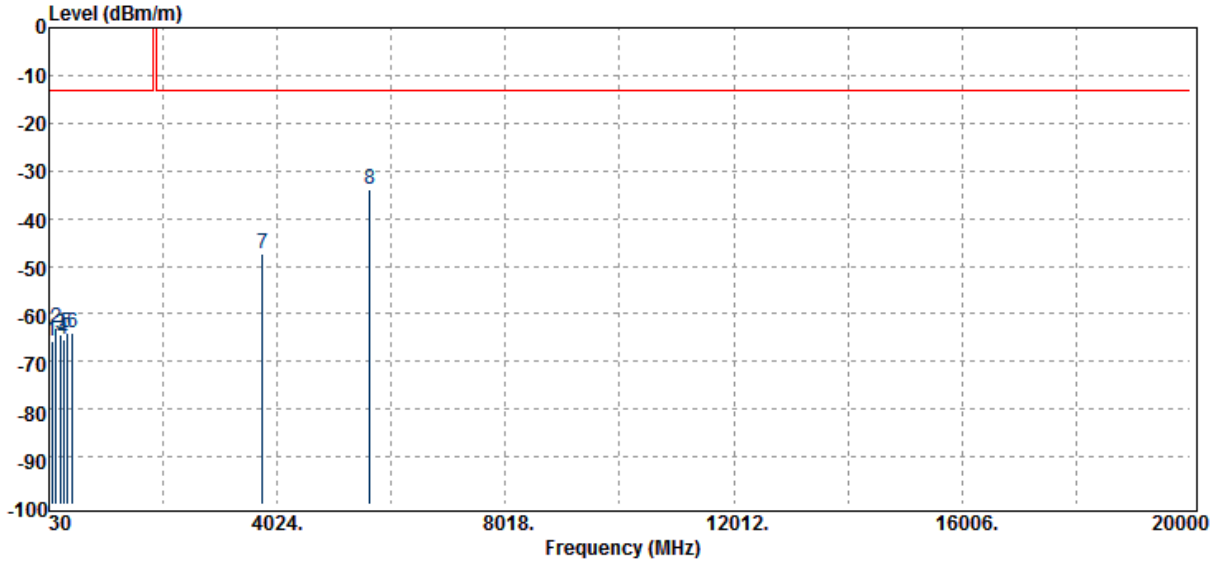
t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

Operation Band	:LTE B2	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1880 MHz	Engineer	:Wei
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
83.35	-65.69	-62.98	-1.73	-0.98	-13.00	-52.69
151.25	-62.83	-59.80	-1.73	-1.29	-13.00	-49.83
236.61	-64.24	-66.00	3.42	-1.65	-13.00	-51.24
288.99	-65.51	-67.16	3.42	-1.78	-13.00	-52.51
335.55	-63.96	-65.81	3.79	-1.95	-13.00	-50.96
437.40	-63.87	-65.47	3.58	-1.98	-13.00	-50.87
3760.00	-47.52	-52.65	12.61	-6.89	-13.00	-34.52
5640.00	-33.91	-37.82	13.01	-8.53	-13.00	-20.91

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](http://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](http://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

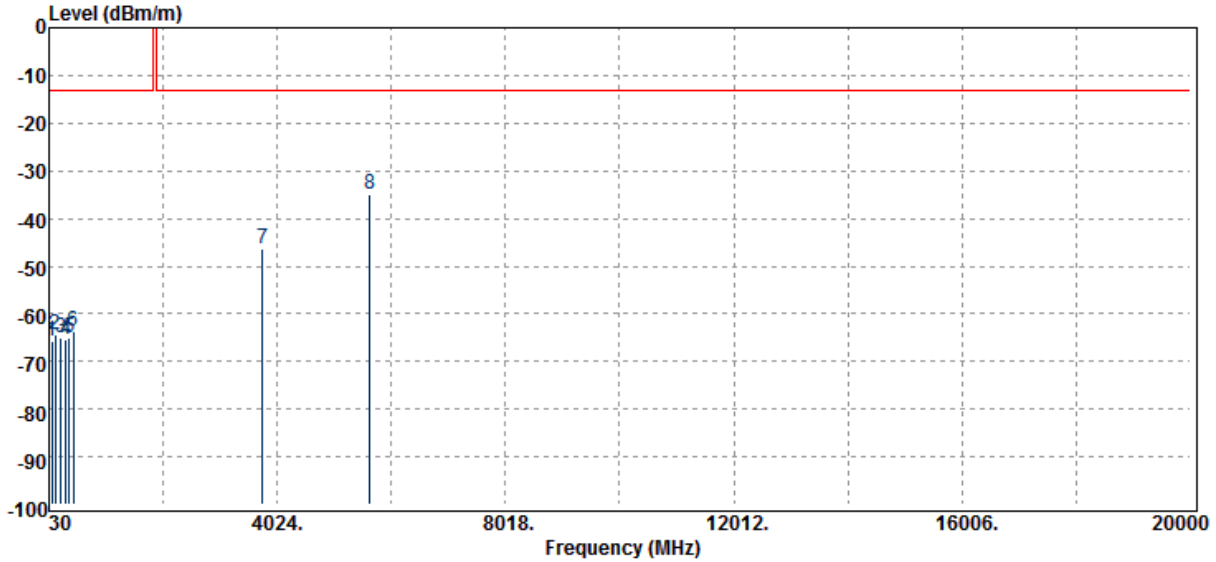
t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

Operation Band	:LTE B2	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1880 MHz	Engineer	:Wei
Operation Mode	:Tx CH MID	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plane		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
83.35	-65.90	-63.20	-1.73	-0.98	-13.00	-52.90
136.70	-64.23	-60.80	-2.19	-1.24	-13.00	-51.23
236.61	-65.12	-66.89	3.42	-1.65	-13.00	-52.12
332.64	-65.52	-67.37	3.78	-1.93	-13.00	-52.52
382.11	-65.00	-66.74	3.76	-2.02	-13.00	-52.00
451.95	-63.78	-65.19	3.56	-2.15	-13.00	-50.78
3760.00	-46.36	-51.49	12.61	-6.89	-13.00	-33.36
5640.00	-34.94	-38.85	13.01	-8.53	-13.00	-21.94

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](http://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](http://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

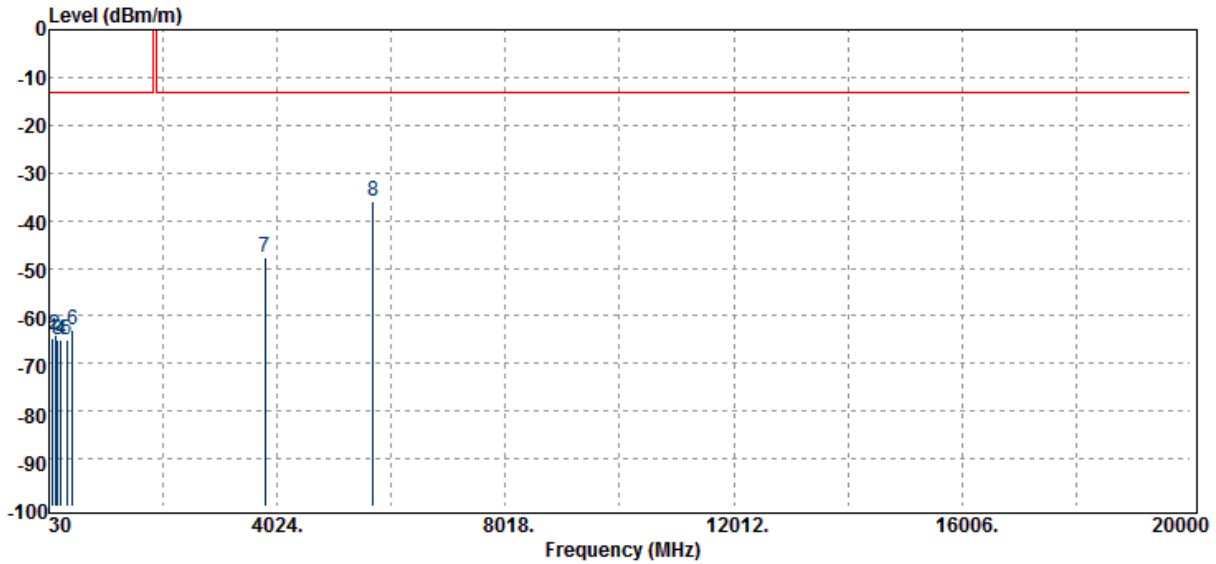
t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

Operation Band	:LTE B2	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1902.5 MHz	Engineer	:Wei
Operation Mode	:Tx CH HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plane		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
90.14	-64.59	-63.03	-0.55	-1.01	-13.00	-51.59
136.70	-63.91	-60.47	-2.19	-1.24	-13.00	-50.91
175.50	-64.89	-63.80	0.27	-1.36	-13.00	-51.89
236.61	-65.22	-66.98	3.42	-1.65	-13.00	-52.22
342.34	-64.93	-66.76	3.82	-1.99	-13.00	-51.93
437.40	-63.05	-64.65	3.58	-1.98	-13.00	-50.05
3805.00	-47.83	-53.51	12.65	-6.97	-13.00	-34.83
5707.50	-36.00	-40.39	12.97	-8.57	-13.00	-23.00

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](http://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](http://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

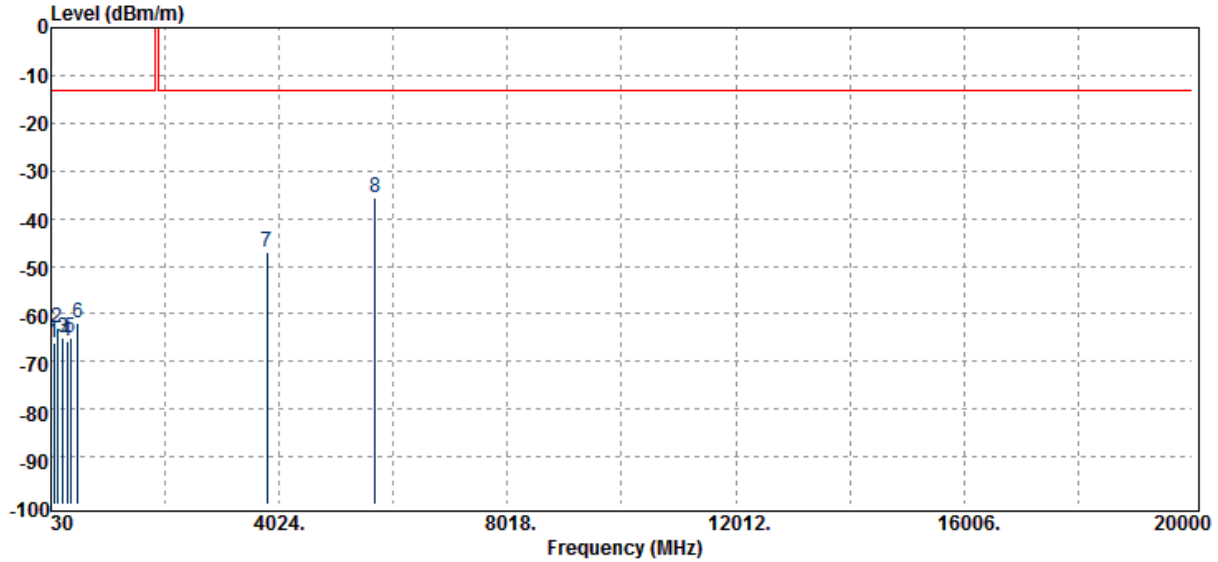
t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

Operation Band	:LTE B2	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1902.5 MHz	Engineer	:Wei
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
83.35	-66.09	-63.38	-1.73	-0.98	-13.00	-53.09
143.49	-63.08	-59.67	-2.13	-1.28	-13.00	-50.08
241.46	-64.96	-66.77	3.49	-1.68	-13.00	-51.96
314.21	-65.58	-67.41	3.69	-1.86	-13.00	-52.58
362.71	-65.08	-66.83	3.82	-2.07	-13.00	-52.08
492.69	-62.07	-64.04	3.98	-2.01	-13.00	-49.07
3805.00	-47.09	-52.77	12.65	-6.97	-13.00	-34.09
5707.50	-35.65	-40.05	12.97	-8.57	-13.00	-22.65

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](http://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](http://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

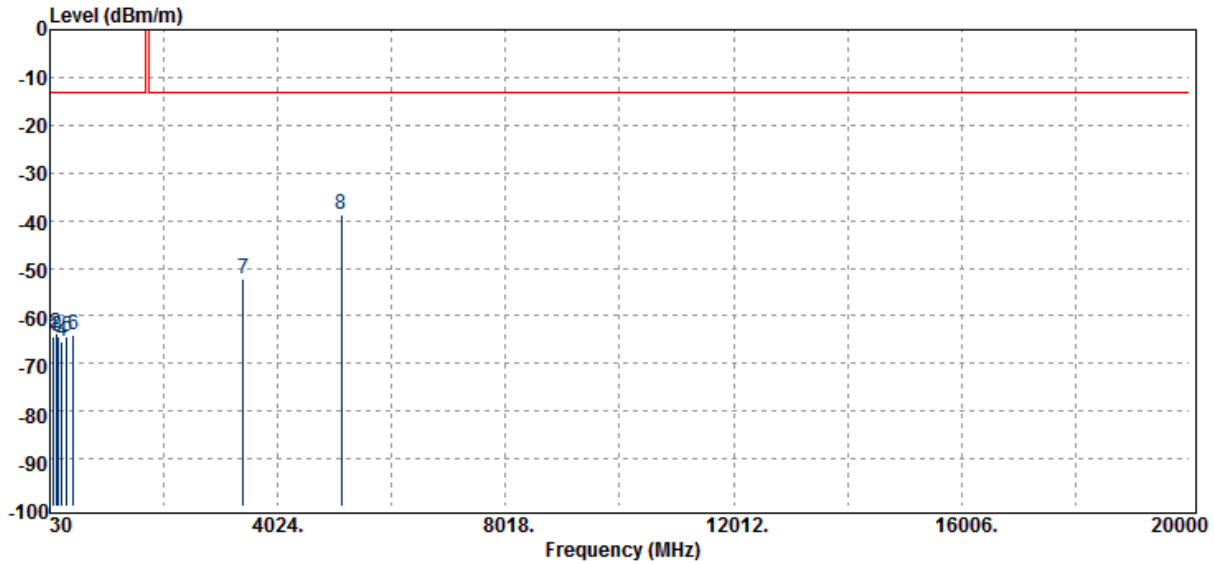
f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

### Radiated Spurious Emission Measurement Result: LTE-Band 4 (The Worst Case)

Operation Band :LTE B4 Temp./Humi. :24.1 deg\_C / 65 RH  
 Fundamental Frequency :1711.5 MHz Engineer :Wei  
 Operation Mode :Tx CH LOW  
 EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
93.05	-64.40	-62.62	-0.76	-1.02	-13.00	-51.40
136.70	-63.65	-60.22	-2.19	-1.24	-13.00	-50.65
165.80	-64.38	-62.19	-0.88	-1.31	-13.00	-51.38
243.40	-65.50	-67.31	3.50	-1.68	-13.00	-52.50
327.79	-64.44	-66.29	3.75	-1.90	-13.00	-51.44
435.46	-64.03	-65.62	3.59	-2.00	-13.00	-51.03
3423.00	-52.19	-57.11	12.23	-6.54	-13.00	-39.19
5134.50	-38.75	-42.74	12.67	-8.12	-13.00	-25.75

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](http://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](http://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

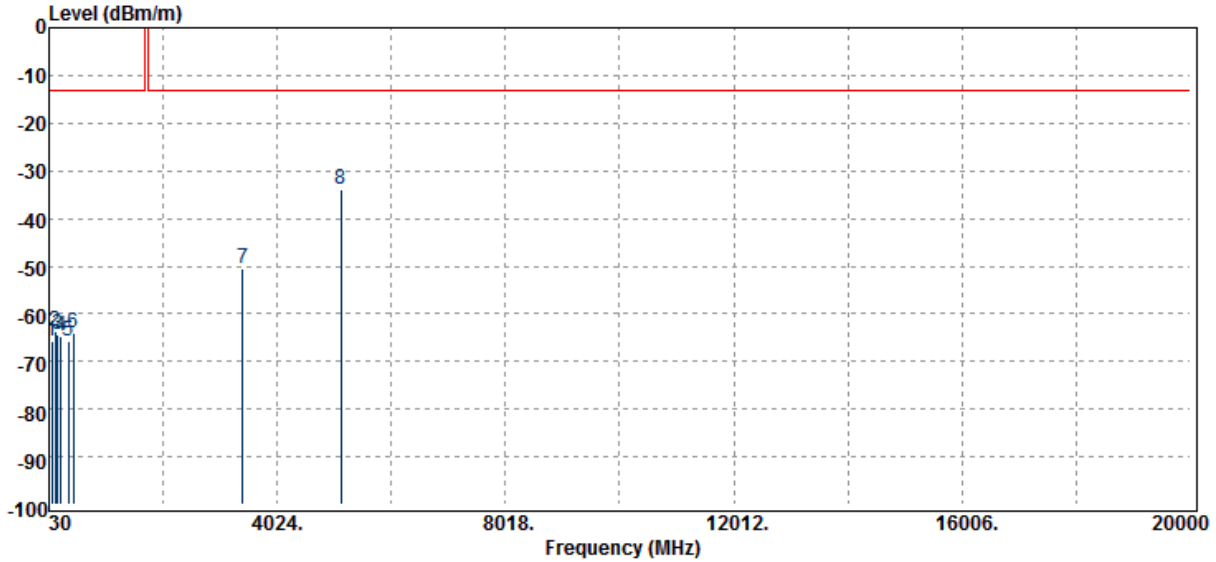
t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

Operation Band	:LTE B4	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1711.5 MHz	Engineer	:Wei
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
83.35	-65.71	-63.00	-1.73	-0.98	-13.00	-52.71
140.58	-63.77	-60.23	-2.27	-1.26	-13.00	-50.77
177.44	-64.50	-63.71	0.58	-1.37	-13.00	-51.50
238.55	-64.54	-66.33	3.45	-1.66	-13.00	-51.54
366.59	-65.69	-67.43	3.81	-2.07	-13.00	-52.69
451.95	-64.14	-65.55	3.56	-2.15	-13.00	-51.14
3423.00	-50.38	-55.29	12.23	-6.54	-13.00	-37.38
5134.50	-33.80	-37.78	12.67	-8.12	-13.00	-20.80

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](http://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](http://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

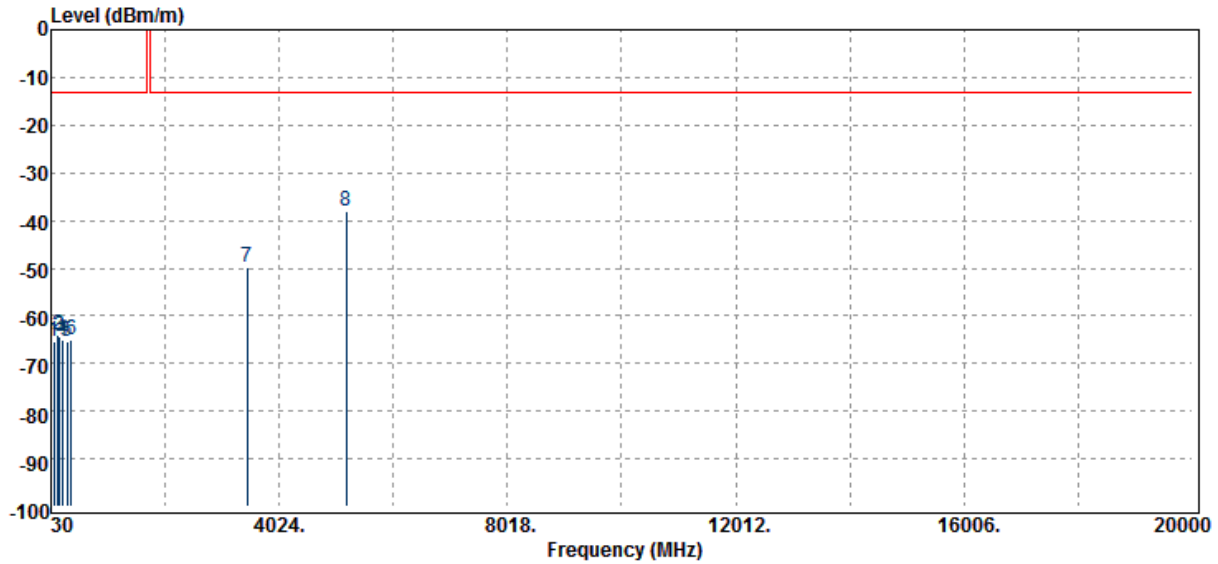
t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

Operation Band :LTE B4  
Fundamental Frequency :1732.5 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane  
Temp./Humi. :24.1 deg\_C / 65 RH  
Engineer :Wei  
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
86.26	-65.42	-63.23	-1.20	-0.99	-13.00	-52.42
148.34	-63.86	-60.68	-1.89	-1.29	-13.00	-50.86
175.50	-64.22	-63.14	0.27	-1.36	-13.00	-51.22
236.61	-65.22	-66.99	3.42	-1.65	-13.00	-52.22
316.15	-65.46	-67.30	3.70	-1.86	-13.00	-52.46
381.14	-65.00	-66.75	3.77	-2.02	-13.00	-52.00
3465.00	-49.72	-54.73	12.32	-6.56	-13.00	-36.72
5197.50	-38.04	-42.00	12.74	-8.21	-13.00	-25.04

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](http://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](http://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

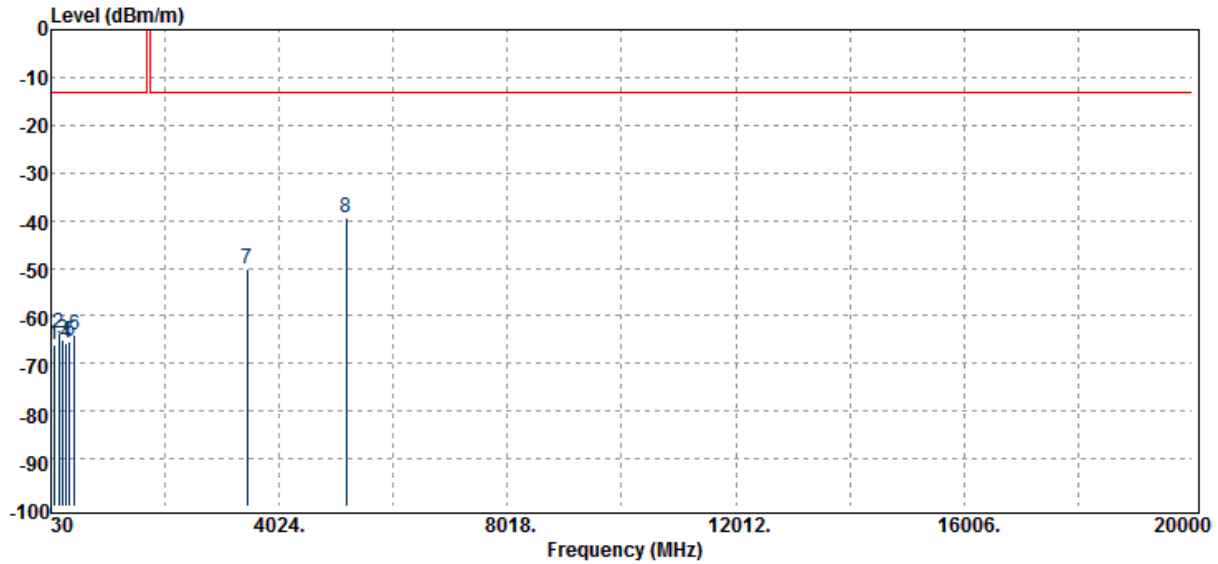
f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group



Operation Band	:LTE B4	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Wei
Operation Mode	:Tx CH MID	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plane		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
86.26	-65.99	-63.80	-1.20	-0.99	-13.00	-52.99
167.74	-63.69	-61.61	-0.76	-1.32	-13.00	-50.69
236.61	-64.90	-66.67	3.42	-1.65	-13.00	-51.90
303.54	-65.85	-67.64	3.63	-1.84	-13.00	-52.85
361.74	-65.29	-67.04	3.82	-2.06	-13.00	-52.29
445.16	-64.15	-65.79	3.55	-1.92	-13.00	-51.15
3465.00	-50.06	-55.07	12.32	-6.56	-13.00	-37.06
5197.50	-39.48	-43.44	12.74	-8.21	-13.00	-26.48

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](http://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](http://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

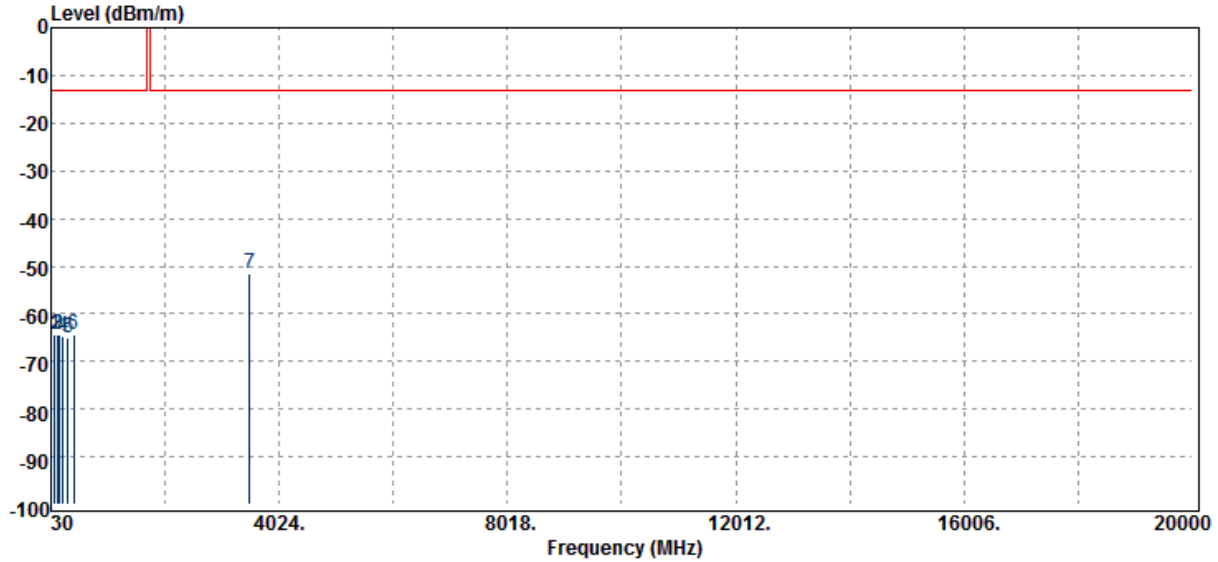
t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

Operation Band	:LTE B4	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1753.5 MHz	Engineer	:Wei
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
91.11	-64.37	-62.74	-0.62	-1.01	-13.00	-51.37
138.64	-64.29	-60.78	-2.26	-1.25	-13.00	-51.29
172.59	-64.51	-62.98	-0.20	-1.34	-13.00	-51.51
243.40	-64.82	-66.63	3.50	-1.68	-13.00	-51.82
321.00	-65.21	-67.06	3.72	-1.87	-13.00	-52.21
427.70	-64.42	-65.97	3.61	-2.07	-13.00	-51.42
3507.00	-51.51	-56.52	12.41	-6.67	-13.00	-38.51

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](http://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](http://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

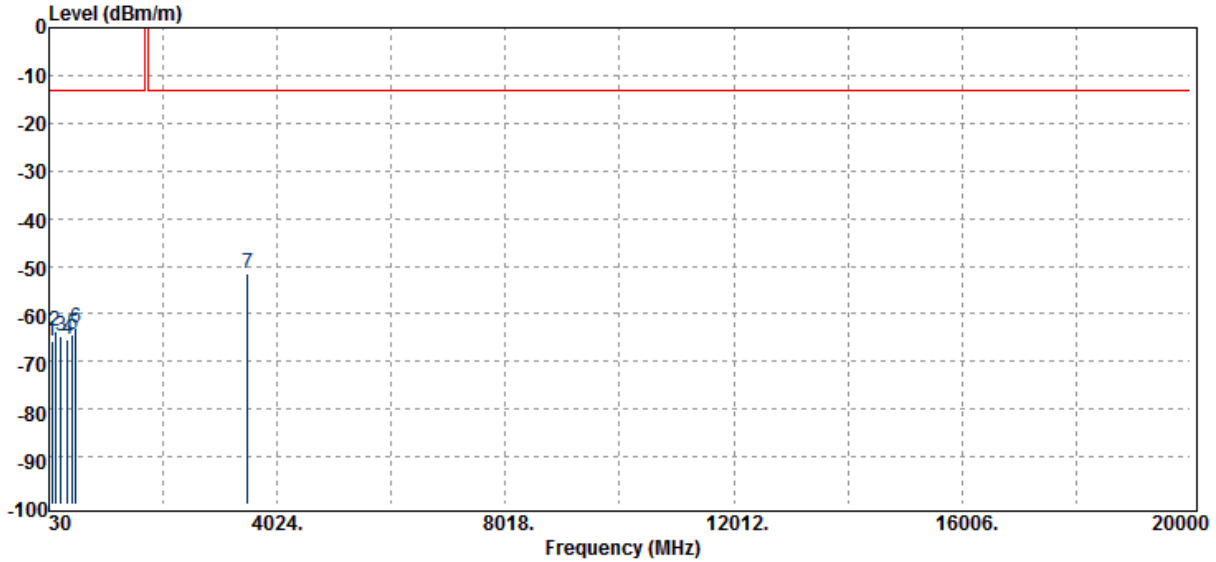
t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

Operation Band	:LTE B4	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1753.5 MHz	Engineer	:Wei
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
86.26	-65.67	-63.48	-1.20	-0.99	-13.00	-52.67
141.55	-63.83	-60.33	-2.22	-1.27	-13.00	-50.83
238.55	-64.78	-66.57	3.45	-1.66	-13.00	-51.78
353.01	-65.24	-67.05	3.85	-2.03	-13.00	-52.24
447.10	-64.33	-65.89	3.55	-1.98	-13.00	-51.33
492.69	-62.88	-64.84	3.98	-2.01	-13.00	-49.88
3507.00	-51.41	-56.42	12.41	-6.67	-13.00	-38.41

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](http://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](http://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

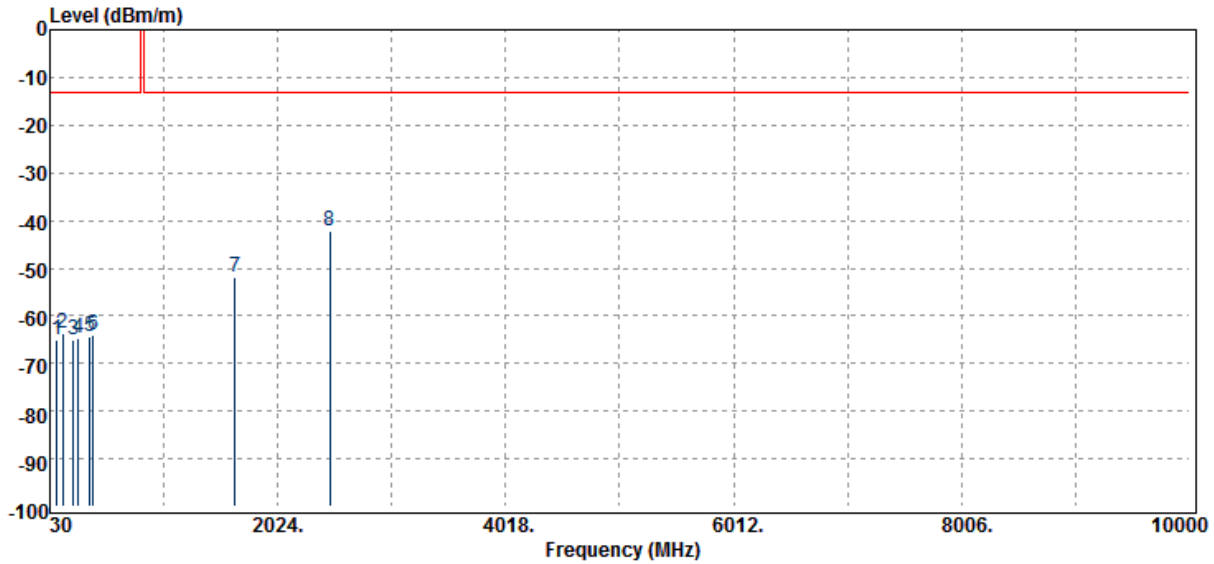
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

### Radiated Spurious Emission Measurement Result: LTE-Band 5 (The Worst Case)

Operation Band :LTE B5 Temp./Humi. :24.1 deg\_C / 65 RH  
 Fundamental Frequency :825.5 MHz Engineer :Wei  
 Operation Mode :Tx CH LOW  
 EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
91.11	-64.92	-63.28	-0.62	-1.01	-13.00	-51.92
144.46	-63.81	-60.44	-2.08	-1.28	-13.00	-50.81
235.64	-64.94	-66.70	3.40	-1.65	-13.00	-51.94
279.29	-64.62	-66.30	3.42	-1.74	-13.00	-51.62
377.26	-64.23	-65.98	3.78	-2.03	-13.00	-51.23
411.21	-63.96	-65.50	3.67	-2.13	-13.00	-50.96
1651.00	-51.87	-56.65	9.13	-4.35	-13.00	-38.87
2476.50	-42.34	-47.33	10.49	-5.49	-13.00	-29.34

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](http://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](http://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

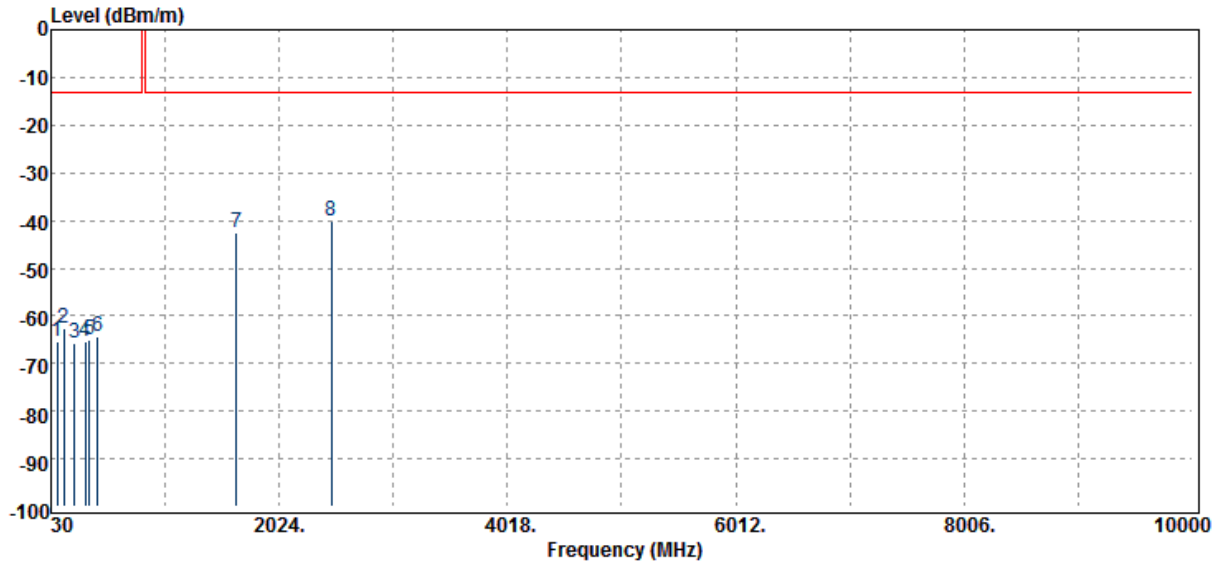
t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

Operation Band	:LTE B5	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:825.5 MHz	Engineer	:Wei
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
85.29	-65.39	-63.03	-1.37	-0.99	-13.00	-52.39
141.55	-62.73	-59.24	-2.22	-1.27	-13.00	-49.73
236.61	-65.59	-67.35	3.42	-1.65	-13.00	-52.59
328.76	-65.36	-67.22	3.76	-1.90	-13.00	-52.36
362.71	-65.10	-66.85	3.82	-2.07	-13.00	-52.10
437.40	-64.35	-65.95	3.58	-1.98	-13.00	-51.35
1651.00	-42.66	-47.44	9.13	-4.35	-13.00	-29.66
2476.50	-40.16	-45.15	10.49	-5.49	-13.00	-27.16

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](http://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](http://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

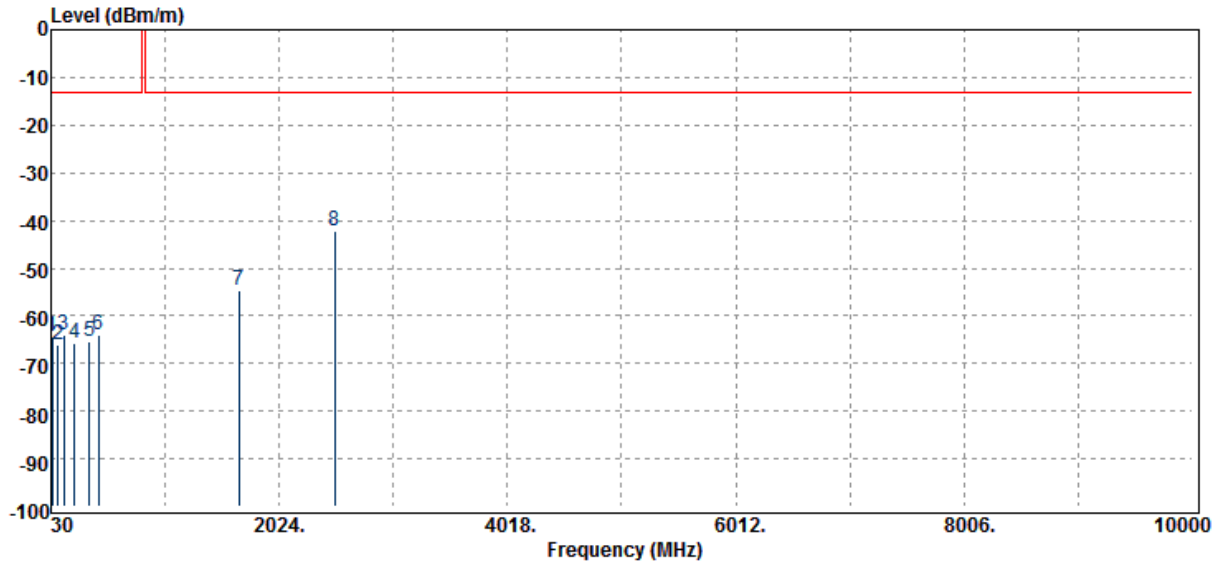
t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

Operation Band :LTE B5  
Fundamental Frequency :836.5 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane  
Temp./Humi. :24.1 deg\_C / 65 RH  
Engineer :Wei  
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
41.64	-64.27	-51.12	-12.47	-0.67	-13.00	-51.27
93.05	-65.94	-64.16	-0.76	-1.02	-13.00	-52.94
144.46	-63.92	-60.56	-2.08	-1.28	-13.00	-50.92
236.61	-65.60	-67.37	3.42	-1.65	-13.00	-52.60
362.71	-65.45	-67.20	3.82	-2.07	-13.00	-52.45
444.19	-64.16	-65.80	3.56	-1.92	-13.00	-51.16
1673.00	-54.50	-59.32	9.21	-4.39	-13.00	-41.50
2509.50	-42.14	-47.12	10.51	-5.53	-13.00	-29.14

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](http://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](http://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

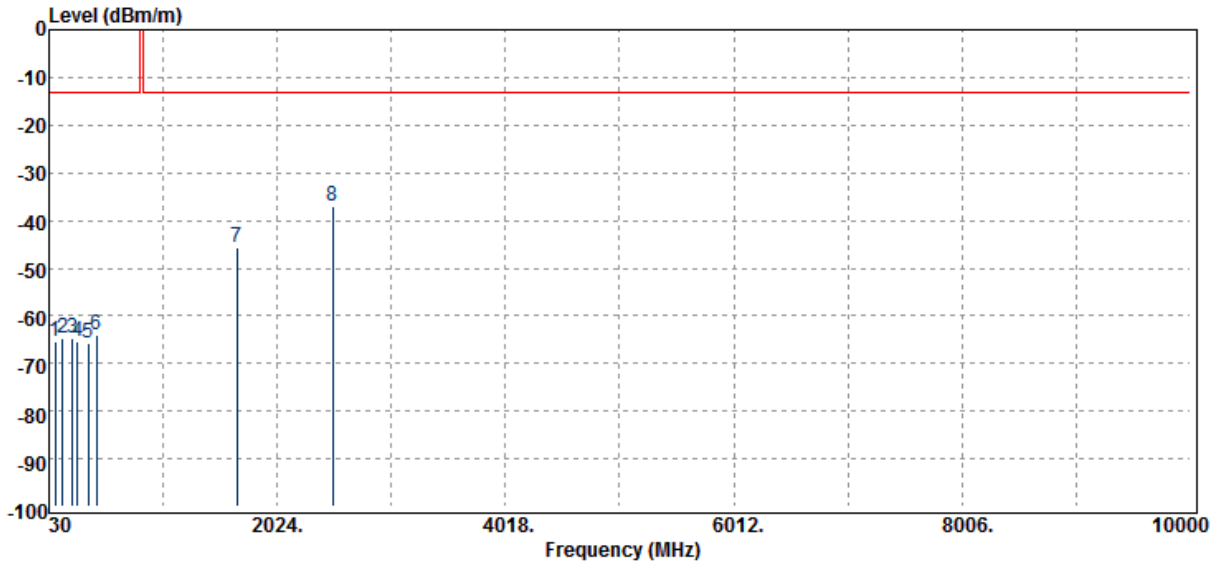
t (886-2) 2299-3279

f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Operation Band	:LTE B5	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Wei
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
85.29	-65.57	-63.21	-1.37	-0.99	-13.00	-52.57
146.40	-64.60	-61.33	-1.98	-1.29	-13.00	-51.60
235.64	-64.87	-66.62	3.40	-1.65	-13.00	-51.87
277.35	-65.49	-67.19	3.44	-1.74	-13.00	-52.49
372.41	-65.59	-67.34	3.79	-2.05	-13.00	-52.59
445.16	-63.89	-65.53	3.55	-1.92	-13.00	-50.89
1673.00	-45.71	-50.52	9.21	-4.39	-13.00	-32.71
2509.50	-36.94	-41.93	10.51	-5.53	-13.00	-23.94

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](http://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](http://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

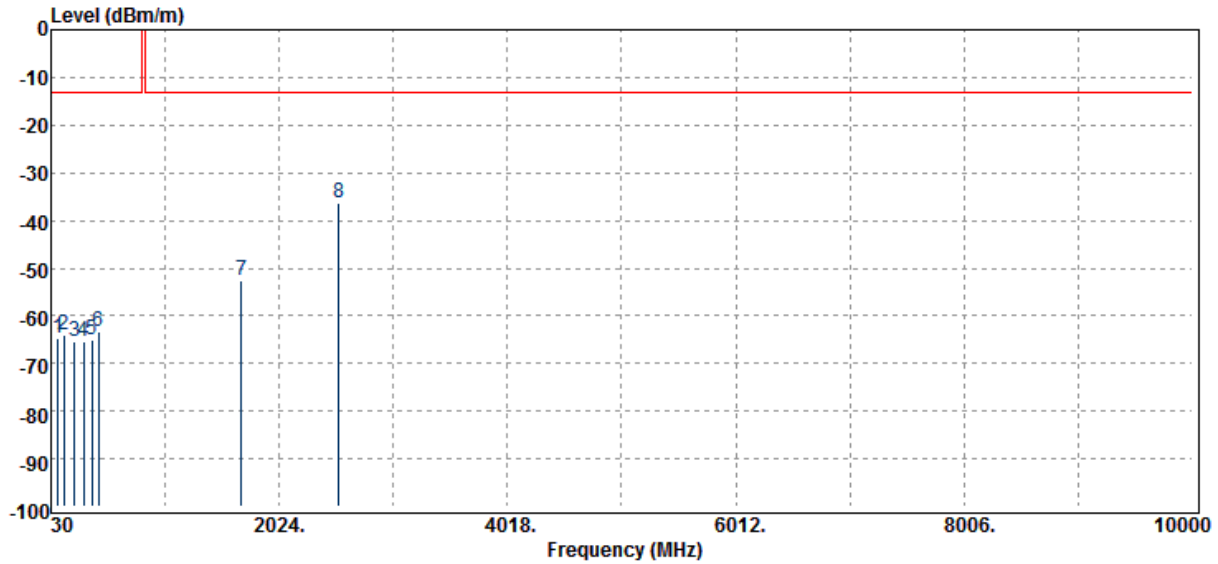
t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

Operation Band	:LTE B5	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:847.5 MHz	Engineer	:Wei
Operation Mode	:Tx CH HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plane		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
90.14	-64.55	-62.99	-0.55	-1.01	-13.00	-51.55
138.64	-64.13	-60.62	-2.26	-1.25	-13.00	-51.13
236.61	-65.49	-67.25	3.42	-1.65	-13.00	-52.49
318.09	-65.29	-67.13	3.71	-1.87	-13.00	-52.29
384.05	-65.19	-66.93	3.76	-2.01	-13.00	-52.19
444.19	-63.25	-64.89	3.56	-1.92	-13.00	-50.25
1695.00	-52.50	-57.35	9.28	-4.43	-13.00	-39.50
2542.50	-36.26	-41.25	10.56	-5.57	-13.00	-23.26

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](http://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](http://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

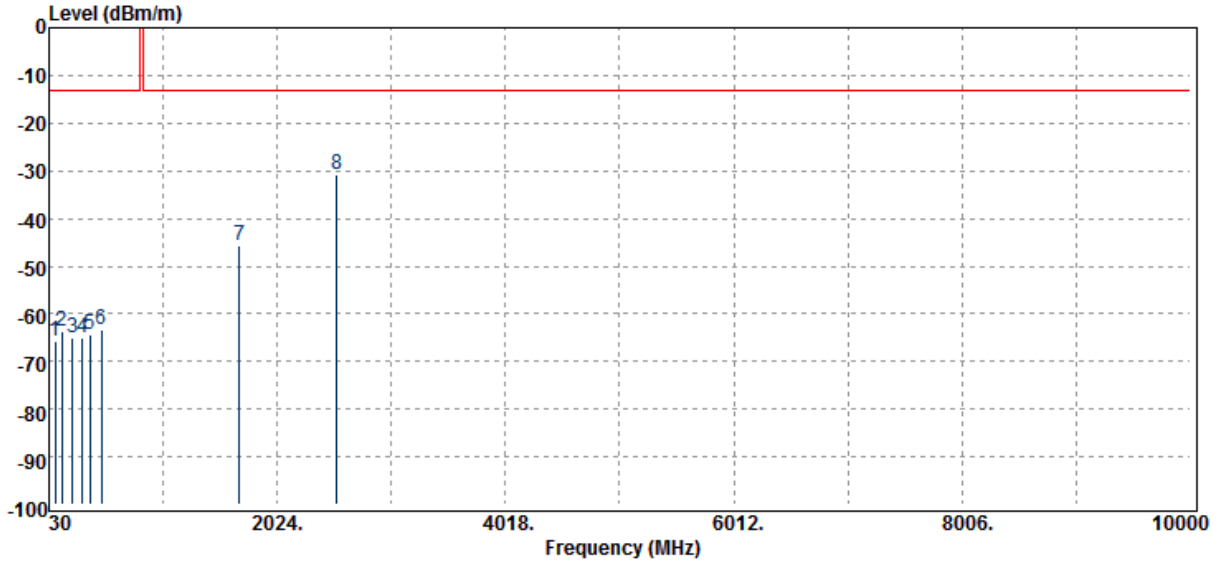
f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group



Operation Band	:LTE B5	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:847.5 MHz	Engineer	:Wei
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
86.26	-65.58	-63.39	-1.20	-0.99	-13.00	-52.58
144.46	-63.59	-60.23	-2.08	-1.28	-13.00	-50.59
236.61	-65.13	-66.90	3.42	-1.65	-13.00	-52.13
321.00	-65.06	-66.91	3.72	-1.87	-13.00	-52.06
384.05	-64.43	-66.18	3.76	-2.01	-13.00	-51.43
488.81	-63.15	-65.18	3.94	-1.91	-13.00	-50.15
1695.00	-45.58	-50.43	9.28	-4.43	-13.00	-32.58
2542.50	-30.83	-35.82	10.56	-5.57	-13.00	-17.83

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](http://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](http://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

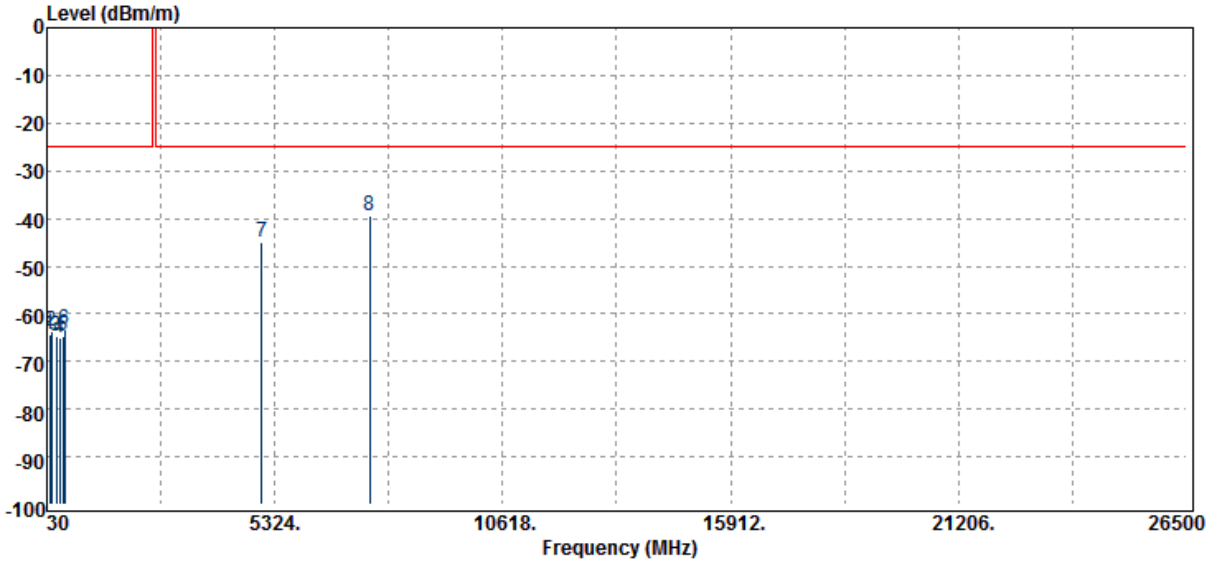
f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

### Radiated Spurious Emission Measurement Result: LTE-Band 7 (The Worst Case)

Operation Band	:LTE B7	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2510 MHz	Engineer	:Wei
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



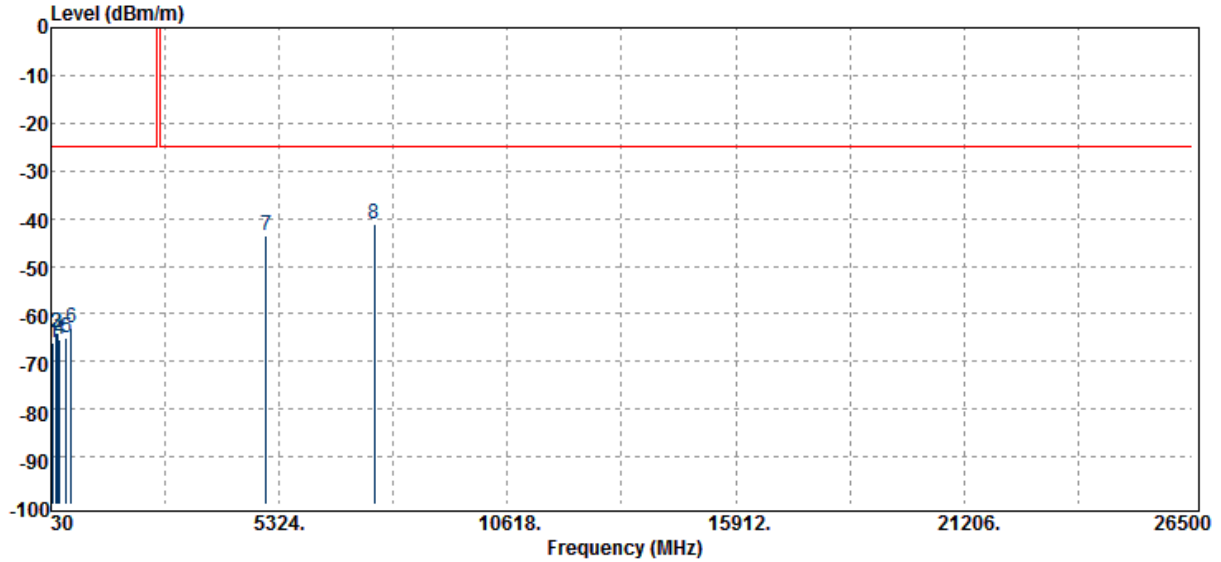
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
90.14	-64.45	-62.89	-0.55	-1.01	-25.00	-39.45
138.64	-63.57	-60.06	-2.26	-1.25	-25.00	-38.57
241.46	-64.82	-66.63	3.49	-1.68	-25.00	-39.82
328.76	-64.96	-66.82	3.76	-1.90	-25.00	-39.96
406.36	-64.75	-66.29	3.69	-2.15	-25.00	-39.75
442.25	-63.33	-64.96	3.56	-1.93	-25.00	-38.33
5020.00	-45.02	-47.86	12.53	-8.01	-25.00	-20.02
7530.00	-39.34	-38.56	10.78	-10.01	-25.00	-14.34

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](http://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](http://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	:LTE B7	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2510 MHz	Engineer	:Wei
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
81.41	-66.22	-63.16	-2.09	-0.97	-25.00	-41.22
146.40	-64.15	-60.88	-1.98	-1.29	-25.00	-39.15
173.56	-64.05	-62.66	-0.04	-1.35	-25.00	-39.05
235.64	-65.40	-67.16	3.40	-1.65	-25.00	-40.40
377.26	-64.91	-66.66	3.78	-2.03	-25.00	-39.91
493.66	-63.00	-64.95	3.99	-2.04	-25.00	-38.00
5020.00	-43.70	-46.54	12.53	-8.01	-25.00	-18.70
7530.00	-41.03	-40.25	10.78	-10.01	-25.00	-16.03

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](http://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](http://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

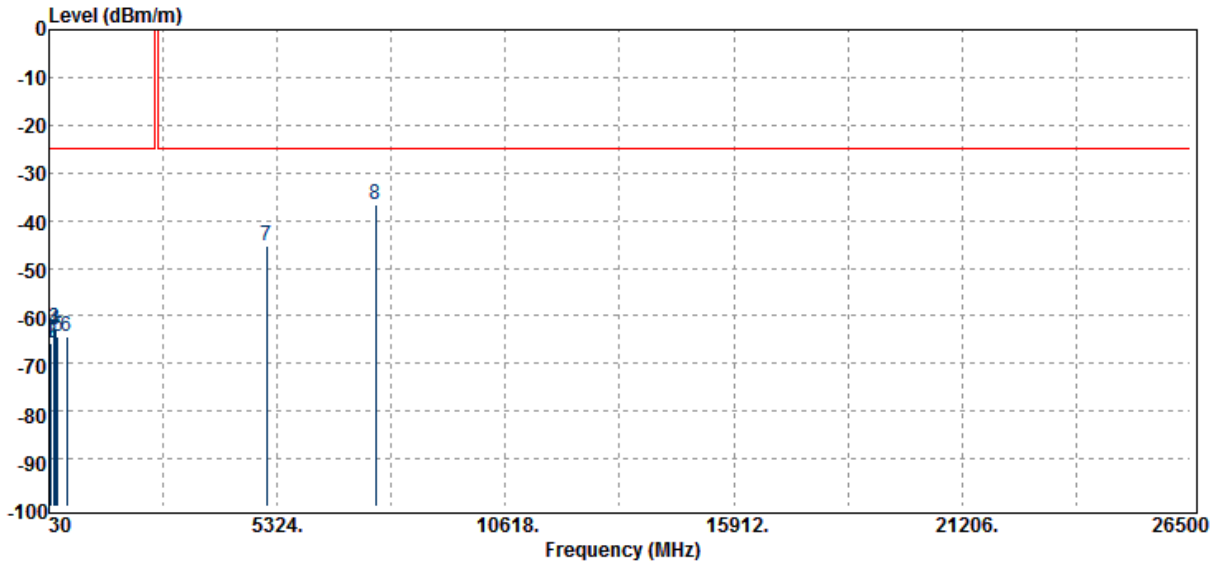
t (886-2) 2299-3279

f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Operation Band	:LTE B7	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2535 MHz	Engineer	:Wei
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
41.64	-65.37	-52.23	-12.47	-0.67	-25.00	-40.37
85.29	-65.67	-63.31	-1.37	-0.99	-25.00	-40.67
146.40	-62.77	-59.50	-1.98	-1.29	-25.00	-37.77
175.50	-62.88	-61.80	0.27	-1.36	-25.00	-37.88
236.61	-64.49	-66.26	3.42	-1.65	-25.00	-39.49
447.10	-64.21	-65.77	3.55	-1.98	-25.00	-39.21
5070.00	-45.46	-48.36	12.59	-8.09	-25.00	-20.46
7605.00	-36.52	-35.51	10.74	-10.18	-25.00	-11.52

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](http://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](http://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

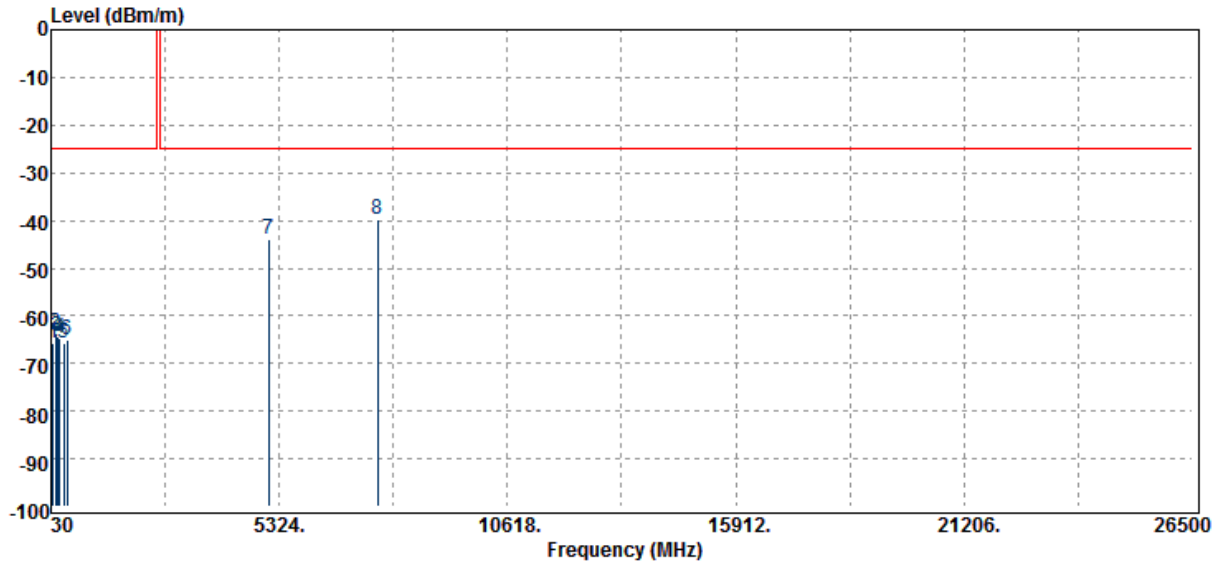
t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

Operation Band	:LTE B7	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2535 MHz	Engineer	:Wei
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
86.26	-65.84	-63.64	-1.20	-0.99	-25.00	-40.84
144.46	-63.81	-60.44	-2.08	-1.28	-25.00	-38.81
177.44	-64.35	-63.57	0.58	-1.37	-25.00	-39.35
235.64	-64.88	-66.63	3.40	-1.65	-25.00	-39.88
325.85	-65.62	-67.48	3.74	-1.88	-25.00	-40.62
396.66	-64.90	-66.53	3.72	-2.09	-25.00	-39.90
5070.00	-44.01	-46.91	12.59	-8.09	-25.00	-19.01
7605.00	-39.74	-38.73	10.74	-10.18	-25.00	-14.74

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](http://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](http://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

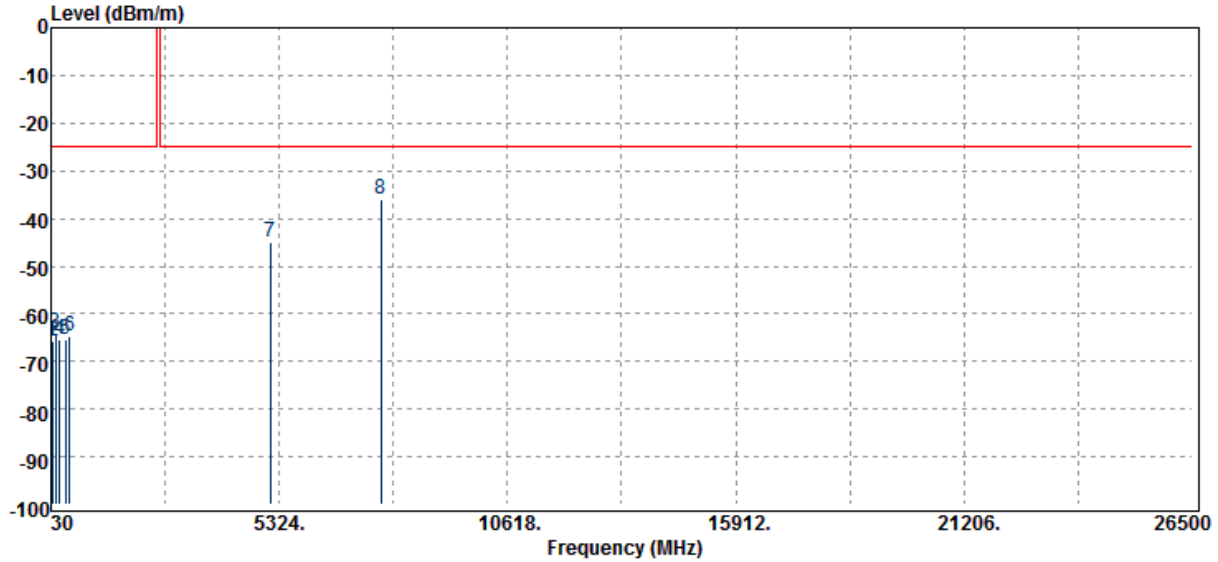
t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

Operation Band	:LTE B7	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2560 MHz	Engineer	:Wei
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
41.64	-65.65	-52.50	-12.47	-0.67	-25.00	-40.65
86.26	-65.91	-63.72	-1.20	-0.99	-25.00	-40.91
139.61	-63.87	-60.32	-2.29	-1.26	-25.00	-38.87
236.61	-65.42	-67.19	3.42	-1.65	-25.00	-40.42
367.56	-65.33	-67.07	3.80	-2.06	-25.00	-40.33
451.95	-64.55	-65.96	3.56	-2.15	-25.00	-39.55
5120.00	-44.88	-49.43	12.65	-8.10	-25.00	-19.88
7680.00	-35.94	-36.54	10.69	-10.09	-25.00	-10.94

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](http://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](http://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

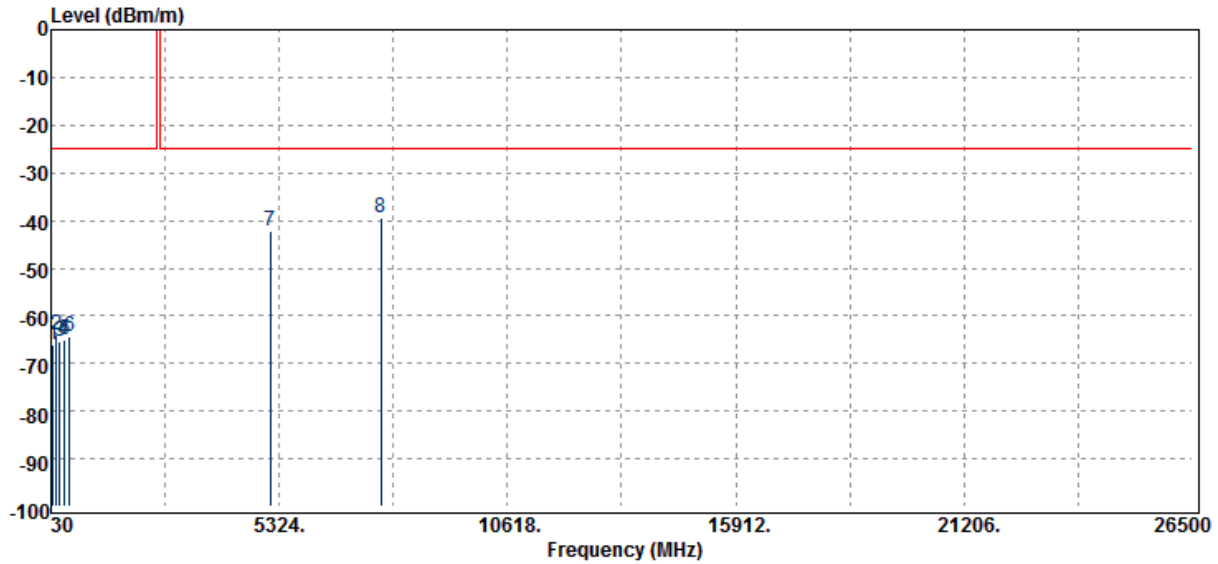
t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

Operation Band	:LTE B7	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2560 MHz	Engineer	:Wei
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
85.29	-66.00	-63.64	-1.37	-0.99	-25.00	-41.00
154.16	-63.99	-61.12	-1.57	-1.30	-25.00	-38.99
235.64	-65.24	-67.00	3.40	-1.65	-25.00	-40.24
319.06	-64.96	-66.80	3.71	-1.87	-25.00	-39.96
354.95	-65.17	-66.97	3.84	-2.04	-25.00	-40.17
451.95	-64.29	-65.70	3.56	-2.15	-25.00	-39.29
5120.00	-42.13	-46.67	12.65	-8.10	-25.00	-17.13
7680.00	-39.35	-39.95	10.69	-10.09	-25.00	-14.35

~ 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](http://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](http://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](http://www.tw.sgs.com)

Member of SGS Group