ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H, PART 24 SUBPART E and PART 27 SUBPART B, C, F, G & H REQUIREMENT

OF

Applicant:	Sharp Corporation, Mobile Communication B.U. 2-13-1, Hachihonmatsu-Iida, Higashi-hiroshima-shi, Hiroshima 739-0192, Japan
Manufacturer:	Sharp Corporation 1 Takumi-cho, Sakai-ku, Sakai City, Osaka 590-8522, Japan
Product Name:	Smart Phone
Report Number:	ER/2019/A0103
FCC ID:	APYHRO00280
FCC Rule Part:	2 , 22H & 24E & 27B, C, F, G & H
Issue Date:	Nov. 28, 2019
Date of Test:	Oct. 22, 2019 ~ Nov. 25, 2019
Date of EUT Received:	Oct. 22, 2019

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.

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

Revision History

Revision	Description	Issue Date	Remark
Rev.00	Original.	Nov. 28, 2019	Revised By: Karen Huang

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.
SGS Taiwan Ltd. 台灣檢驗科技股份有限公司
No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號
t (886-2) 2299-3279 f (886-2) 2298-0488 www.tw.sgs.com
Member of SGS Group

Contents

1. GENERAL PRODUCT INFORMATION 4
2. SYSTEM TEST CONFIGURATION 9
3. SUMMARY OF TEST RESULTS 12
4. DESCRIPTION OF TEST MODES 13
5. MEASUREMENT UNCERTAINTY 22
6. MAXMUM OUTPUT POWER 23
7. OCCUPIED BANDWIDTH MEASUREMENT 65
8. OUT OF BAND EMISSION AT ANTENNA TERMINALS 125
9. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT 236
10. FREQUENCY STABILITY MEASUREMENT 320
11. PEAK TO AVERAGE RATIO 329

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

1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	Smart Phone
Hardware Version:	DVT
Software Version:	N/A
Power Supply:	3.85V from Rechargeable Li-ion Battery
Antenna Designation:	Inverted-F Antenna, Gain: -7.7dBi (GSM/GPRS 850, WCDMA B5, LTE B5), -4.1dBi (GSM/GPRS 1900, WCDMA B2, LTE B2), -3.6dBi (WCDMA B4, LTE B4), -3.1dBi (LTE B7), -6dBi (LTE B12, LTE B17), -8.7dBi (LTE B13), -2.4dBi (LTE B38)
IMEI:	004401116960192 / 004401116960390 / 004401116960747 004401116959582 / 004401116958105 / 004401116959806

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

1.2. GSM / WCDMA / LTE: Cellular Phone Standards Frequency Range

Operating Frequency (MHz)			
GSM/GPRS 850	824.2	-	848.8
GSM/GPRS 1900	1850.2	-	1909.8

Operating Frequency (MHz)			
WCDMA / HSPA+ Band II	1852.4	-	1907.6
WCDMA / HSPA+ Band IV	1712.4	-	1752.6
WCDMA / HSPA+ Band V	826.4	-	846.6

LTE Band	BW (MHz)	Operation Frequency (MHz)			LTE Band	BW (MHz)	Operation Frequency (MHz)		
2	1.4	1850.7	-	1909.3	17	5	706.5	-	713.5
	3	1851.5	-	1908.5		10	709.0	-	711.0
	5	1852.5	-	1907.5	38	5	2572.5	-	2617.5
	10	1855.0	-	1905.0		10	2575.0	-	2615.0
	15	1857.5	-	1902.5		15	2577.5	-	2612.5
	20	1860.0	-	1900.0		20	2580.0	-	2610.0
4	1.4	1710.7	-	1754.3					
	3	1711.5	-	1753.5					
	5	1712.5	-	1752.5					
	10	1715.0	-	1780.0					
	15	1717.5	-	1747.5					
	20	1720.0	-	1745.0					
5	1.4	824.7	-	848.3					
	3	825.5	-	847.5					
	5	826.5	-	846.5					
	10	829.0	-	844.0					
7	5	2502.5	-	2567.5					
	10	2505.0	-	2565.0					
	15	2507.5	-	2562.5					
	20	2510.0	-	2560.0					
12	1.4	699.7	-	715.3					
	3	700.5	-	714.5					
	5	701.5	-	713.5					
	10	704.0	-	711.0					
13	5	779.5	-	784.5					
	10	782							

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

1.3. Type of Emission & Max ERP/EIRP Power Measurement Result:

	ERP / EIRP (dBm)		(W)	Type of Emission
GSM 850	22.83	ERP	0.192	244KGXW
GPRS 850	22.80	ERP	0.191	247KGXW
GSM 1900	25.31	EIRP	0.340	242KGXW
GPRS 1900	25.25	EIRP	0.335	245KGXW

	ERP / EIRP (dBm)		(W)	Type of Emission
WCDMA Band II	18.40	EIRP	0.069	4M15F9W
HSDPA Band II	17.43	EIRP	0.055	4M15F9W
HSUPA Band II	17.41	EIRP	0.055	4M15F9W
WCDMA Band IV	18.96	EIRP	0.079	4M15F9W
HSDPA Band IV	17.92	EIRP	0.062	4M15F9W
HSUPA Band IV	17.99	EIRP	0.063	4M15F9W
WCDMA Band V	13.54	ERP	0.023	4M13F9W
HSDPA Band V	12.54	ERP	0.018	4M14F9W
HSUPA Band V	12.50	ERP	0.018	4M14F9W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
2	1.4	QPSK	18.39	EIRP	0.069	1M09G7D
	1.4	16QAM	17.20	EIRP	0.052	1M10D7W
	1.4	64QAM	16.33	EIRP	0.043	1M10D7W
	3	QPSK	18.39	EIRP	0.069	2M70G7D
	3	16QAM	17.48	EIRP	0.056	2M70D7W
	3	64QAM	16.93	EIRP	0.049	2M70D7W
	5	QPSK	18.33	EIRP	0.068	4M50G7D
	5	16QAM	17.48	EIRP	0.056	4M51D7W
	5	64QAM	16.95	EIRP	0.050	4M52D7W
	10	QPSK	18.35	EIRP	0.068	9M02G7D
	10	16QAM	17.49	EIRP	0.056	8M97D7W
	10	64QAM	16.95	EIRP	0.050	8M99D7W
	15	QPSK	18.34	EIRP	0.068	13M5G7D
	15	16QAM	17.46	EIRP	0.056	13M5D7W
	15	64QAM	16.95	EIRP	0.050	13M5D7W
	20	QPSK	18.59	EIRP	0.072	18M0G7D
	20	16QAM	17.61	EIRP	0.058	18M0D7W
	20	64QAM	17.08	EIRP	0.051	18M0D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
4	1.4	QPSK	18.17	EIRP	0.066	1M10G7D
	1.4	16QAM	17.66	EIRP	0.058	1M10D7W
	1.4	64QAM	16.83	EIRP	0.048	1M10D7W
	3	QPSK	18.22	EIRP	0.066	2M70G7D
	3	16QAM	17.55	EIRP	0.057	2M70D7W
	3	64QAM	16.95	EIRP	0.050	2M70D7W
	5	QPSK	18.18	EIRP	0.066	4M50G7D
	5	16QAM	17.46	EIRP	0.056	4M51D7W
	5	64QAM	16.92	EIRP	0.049	4M51D7W
	10	QPSK	18.24	EIRP	0.067	9M01G7D
	10	16QAM	17.50	EIRP	0.056	8M97D7W
	10	64QAM	16.92	EIRP	0.049	9M00D7W
	15	QPSK	18.20	EIRP	0.066	13M5G7D
	15	16QAM	17.55	EIRP	0.057	13M5D7W
	15	64QAM	16.96	EIRP	0.050	13M5D7W
	20	QPSK	18.37	EIRP	0.069	18M0G7D
	20	16QAM	17.65	EIRP	0.058	18M0D7W
	20	64QAM	17.07	EIRP	0.051	18M0D7W

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

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
5	1.4	QPSK	13.29	ERP	0.021	1M10G7D
	1.4	16QAM	12.62	ERP	0.018	1M10D7W
	1.4	64QAM	11.33	ERP	0.014	1M10D7W
	3	QPSK	13.27	ERP	0.021	2M70G7D
	3	16QAM	12.73	ERP	0.019	2M70D7W
	3	64QAM	11.92	ERP	0.016	2M70D7W
	5	QPSK	13.33	ERP	0.022	4M50G7D
	5	16QAM	12.80	ERP	0.019	4M50D7W
	5	64QAM	11.90	ERP	0.015	4M51D7W
	10	QPSK	13.45	ERP	0.022	9M03G7D
	10	16QAM	12.91	ERP	0.020	8M98D7W
	10	64QAM	12.06	ERP	0.016	9M01D7W
7	5	QPSK	19.66	EIRP	0.092	4M50G7D
	5	16QAM	19.11	EIRP	0.081	4M50D7W
	5	64QAM	18.53	EIRP	0.071	4M51D7W
	10	QPSK	19.72	EIRP	0.094	9M01G7D
	10	16QAM	19.08	EIRP	0.081	8M96D7W
	10	64QAM	18.59	EIRP	0.072	8M99D7W
	15	QPSK	19.66	EIRP	0.092	13M5G7D
	15	16QAM	19.11	EIRP	0.081	13M5D7W
	15	64QAM	18.57	EIRP	0.072	13M5D7W
	20	QPSK	19.82	EIRP	0.096	17M9G7D
	20	16QAM	19.23	EIRP	0.084	18M0D7W
	20	64QAM	18.73	EIRP	0.075	18M0D7W
12	1.4	QPSK	14.81	ERP	0.030	1M12G7D
	1.4	16QAM	13.78	ERP	0.024	1M11D7W
	1.4	64QAM	13.20	ERP	0.021	1M10D7W
	3	QPSK	15.14	ERP	0.033	2M69G7D
	3	16QAM	14.45	ERP	0.028	2M68D7W
	3	64QAM	13.50	ERP	0.022	2M69D7W
	5	QPSK	15.15	ERP	0.033	4M50G7D
	5	16QAM	14.41	ERP	0.028	4M51D7W
	5	64QAM	13.53	ERP	0.023	4M51D7W
	10	QPSK	15.26	ERP	0.034	9M02G7D
	10	16QAM	14.57	ERP	0.029	8M96D7W
	10	64QAM	13.68	ERP	0.023	8M99D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
13	5	QPSK	12.23	ERP	0.017	4M50G7D
	5	16QAM	11.07	ERP	0.013	4M50D7W
	5	64QAM	10.58	ERP	0.011	4M51D7W
	10	QPSK	12.22	ERP	0.017	9M02G7D
	10	16QAM	11.74	ERP	0.015	8M96D7W
	10	64QAM	10.92	ERP	0.012	8M99D7W
17	5	QPSK	15.23	ERP	0.033	4M50G7D
	5	16QAM	14.60	ERP	0.029	4M48D7W
	5	64QAM	13.68	ERP	0.023	4M48D7W
	10	QPSK	15.34	ERP	0.034	8M98G7D
	10	16QAM	14.72	ERP	0.030	8M93D7W
	10	64QAM	13.82	ERP	0.024	8M89D7W
38	5	QPSK	20.55	EIRP	0.114	4M51G7D
	5	16QAM	19.79	EIRP	0.095	4M51D7W
	5	64QAM	19.28	EIRP	0.085	4M51D7W
	10	QPSK	20.56	EIRP	0.114	8M98G7D
	10	16QAM	19.77	EIRP	0.095	8M97D7W
	10	64QAM	19.30	EIRP	0.085	8M98D7W
	15	QPSK	20.54	EIRP	0.113	13M5G7D
	15	16QAM	19.80	EIRP	0.095	13M5D7W
	15	64QAM	19.26	EIRP	0.084	13M5D7W
	20	QPSK	20.67	EIRP	0.117	18M0G7D
	20	16QAM	19.96	EIRP	0.099	17M9D7W
	20	64QAM	19.42	EIRP	0.087	17M9D7W

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

1.4. Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22, 24, 27.

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

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.

1.5. 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 Designation number: TW0001

1.6. Special Accessories

No special accessories were used during testing.

1.7. Equipment Modifications

There were no modifications incorporated into the EUT.

1.8. Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*9m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.
There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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

2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

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

2.2. EUT Exercise

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 Conducted Measurement at Antenna Port

According to measurement procured ANSI C63.26-2015, the EUT is placed on a turn table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

2.3.2 Radiated Emissions (ERP/EIRP)

According to measurement procured ANSI C63.26-2015, The EUT is a placed on as turn table, for emission measurements below 1 GHz is 0.8 m above 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 hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna according to the requirements in Section 8 and 13.

2.4. Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Following shows an offset computation in physical test.

	RF cable loss (dB)	Attenuation factor(dB)	offset(dB)
Low Band (Below 1GHz)	0.2	14.8	15
High Band (Above 1 GHz)	0.5	14.5	15

2.5. Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
GSM 850	3.85	388
GSM 1900		373
HSUPA B2		337
HSDPA B4		323
HSDPA B5		314
LTE Band 2		1449
LTE Band 4		1443
LTE Band 5		1438
LTE Band 7		1434
LTE Band 12		1438
LTE Band 13		1444
LTE Band 17		1427
LTE Band 38		1447

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

2.6. Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Fixed Channel-Conducted)

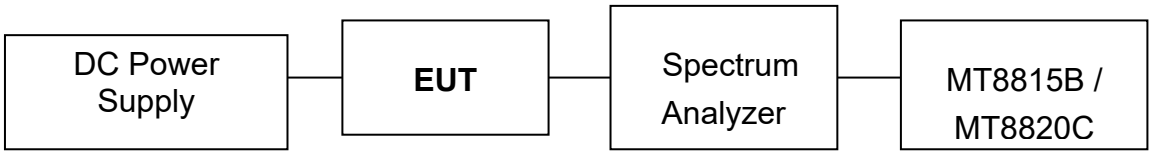


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)

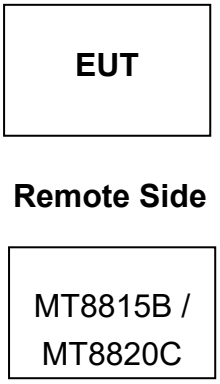


Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Radio Communication Analyzer	Anritsu	MT8820C	6200995019	N/A	N/A
2.	Radio Communication Analyzer	Anritsu	MT8815B	6200711454	N/A	N/A
3.	DC Power Supply	Agilent	E3640A	MY52410006	N/A	N/A

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

3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§2.1046(a) §22.913(a)(5) §24.232(c) §27.50(a)(3) §27.50(c)(10) §27.50(d)(4)	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% & 26dB Occuupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.50(c)(5) §27.53(h) §27.53(m)(4)(6)	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(c)(2),(4) §27.50(c)(5) §27.53(f) §27.53(g) §27.53(h) §27.53(m)(4)	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.50((B)	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54	Frequency Stability	Compliant

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

4. DESCRIPTION OF TEST MODES

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	H-plan
GSM/GPRS 1900	H-plan
WCDMA/HSPA Band II	H-plan
WCDMA/HSPA Band IV	H-plan
WCDMA/HSPA Band V	H-plan
LTE Band 2	H-plan
LTE Band 4	H-plan
LTE Band 5	H-plan
LTE Band 7	H-plan
LTE Band 12	H-plan
LTE Band 13	H-plan
LTE Band 17	H-plan
LTE Bnad 38	H-plan

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

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
FREQUENCY STABILITY	128 to 251 512 to 810	190 661	GPRS 850 GPRS 1900
OCCUPIED BANDWIDTH	128 to 251 512 to 810	190 661	GSM/GPRS 850 GSM/GPRS 1900
PEAK TO AVERAGE RATIO	512 to 810	512, 661, 810	GSM/GPRS 1900
BAND EDGE	128 to 251 512 to 810	128, 251 512, 810	GSM/GPRS 850 GSM/GPRS 1900
CONDCUDETED EMISSION	128 to 251 512 to 810	128, 190, 251 512, 661, 810	GSM/GPRS 850 GSM/GPRS 1900
RADIATED EMISSION	128 to 251 512 to 810	128, 190, 251 512, 661, 810	GSM 850 GSM 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 1312 to 1513	1312, 1413, 1513 9262, 9400, 9538	WCDMA/HSPA Band II WCDMA/HSPA Band IV
FREQUENCY STABILITY	4132 to 4233 1312 to 1513 9262 to 9538	4183 1413 9400	WCDMA Band II WCDMA Band IV WCDMA Band V
OCCUPIED BANDWIDTH	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9538	WCDMA/HSPA Band II WCDMA/HSPA Band IV WCDMA/HSPA Band V
PEAK TO AVERAGE RATIO	4132 to 4233 1312 to 1513	4132, 4183, 4233 1312, 1413, 1513	WCDMA/HSPA Band II WCDMA/HSPA Band IV
BAND EDGE	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4233 1312, 1513 9262, 9538	WCDMA Band II WCDMA Band IV WCDMA Band V
CONDCUDETED EMISSION	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9538	WCDMA Band II WCDMA Band IV WCDMA Band V
RADIATED EMISSION	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9538	WCDMA Band II WCDMA Band IV 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 and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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, 64QAM	1 RB/ 0,5 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	18650 to 19150	18900	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM, 64QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM, 64QAM	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM, 64QAM	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM, 64QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM, 64QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVER-AGE RATIO	18607 to 19193	18607, 18900, 19193	1.4MHz	64QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	64QAM	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	64QAM	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	64QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	64QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	64QAM	Full RB
BAND EDGE	18607 to 19193	18607, 19193	1.4MHz	QPSK	1 RB/ 0,5 RB Offes Full RB
	18615 to 19185	18615, 19185	3MHz	QPSK	1 RB/ 0,14 RB Offest Full RB
	18625 to 19175	18625, 19175	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	18650 to 19150	18650, 19150	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	18675 to 19125	18675, 19125	15MHz	QPSK	1 RB/ 0,74 RB Offest Full RB
	18700 to 19100	18700, 19100	20MHz	QPSK	1 RB/ 0,99 RB Offest Full RB
CONDCUDETED EMISSION	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK	1 RB, 0 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK	1 RB, 0 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK	1 RB, 0 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK	1 RB, 0 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK	1 RB, 0 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	18700 to 19100	18700, 18900, 19100	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 and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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, 64QAM	1 RB/ 0,5 RB Offest
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offest
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	20000 to 20350	20175	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM, 64QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM, 64QAM	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM, 64QAM	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM, 64QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM, 64QAM	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVER-AGE RATIO	19957 to 19393	19957, 20175, 19393	1.4MHz	64QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	64QAM	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	64QAM	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	64QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	64QAM	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	64QAM	Full RB
BAND EDGE	19957 to 19393	19957, 19393	1.4MHz	QPSK	1 RB/ 0,5 RB Offes Full RB
	19965 to 22385	19965, 22385	3MHz	QPSK	1 RB/ 0,14 RB Offest Full RB
	19975 to 20375	19975, 20375	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	20000 to 20350	20000, 20350	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	20025 to 20325	20025, 20325	15MHz	QPSK	1 RB/ 0,74 RB Offest Full RB
	20050 to 20300	20050, 20300	20MHz	QPSK	1 RB/ 0,99 RB Offest Full RB
CONDCUDETED EMISSION	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK	1 RB, 0 RB Offest
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK	1 RB, 0 RB Offest
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK	1 RB, 0 RB Offest
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK	1 RB, 0 RB Offest
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK	1 RB, 0 RB Offest
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK	1 RB, 50 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 and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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, 64QAM	1 RB/ 0,5 RB Offest
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	20450 to 20600	20525	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM, 64QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM, 64QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM, 64QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM, 64QAM	Full RB
BAND EDGE	20470 to 20643	20470, 20643	1.4MHz	QPSK	1 RB/ 0,5 RB Offes Full RB
	20415 to 20635	20415, 20635	3MHz	QPSK	1 RB/ 0,14 RB Offest Full RB
	20425 to 20625	20425, 20625	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	20450 to 20600	20450, 20600	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
CONDCUDETED EMISSION	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK	1 RB, 0 RB Offest
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK	1 RB, 0 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK	1 RB, 0 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	20450 to 20600	20450, 20525, 20600	10MHz	QPSK	1 RB, 49 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 and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

LTE Band 7 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offest
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	20800 to 21400	21100	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM, 64QAM	Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM, 64QAM	Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK, 16QAM, 64QAM	Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVER-AGE RATIO	20775 to 21425	20775, 21100, 21425	5MHz	64QAM	Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	64QAM	Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	64QAM	Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	64QAM	Full RB
BAND EDGE	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK	1 RB/ 0,74 RB Offest Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB/ 0,99 RB Offest Full RB
CONDUCTED EMISSION	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB, 0 RB Offest
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB, 0 RB Offest
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK	1 RB, 0 RB Offest
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB, 99 RB Offest
EMISSION MASK	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK	1 RB/ 0,74 RB Offest 75 RB/ 0 Offset
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB/ 0,99 RB Offest 100 RB/ 0 Offset

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

LTE Band 12 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,5 RB Offest
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23060 to 23130	23095	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM, 64QAM	Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM, 64QAM	Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM, 64QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AV-ERAGE RATIO	23017 to 23173	23017, 23095, 23173	1.4MHz	64QAM	Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	64QAM	Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	64QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	64QAM	Full RB
BAND EDGE	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK	1 RB/ 0,5 RB Offes Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK	1 RB/ 0,14 RB Offest Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
CONDCU-DETED EMIS-SION	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK	1 RB, 0 RB Offest
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK	1 RB, 0 RB Offest
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK	1 RB, 0 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	23060 to 23130	23060, 23095, 23130	10MHz	QPSK	1 RB, 49 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 and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

LTE Band 13 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	23230	23230	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23230	23230	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM, 64QAM	Full RB
	23230	23230	10MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AV-ERAGE RATIO	23205 to 23255	23205, 23230, 23255	5MHz	64QAM	Full RB
	23230	23230	10MHz	64QAM	Full RB
BAND EDGE	23205 to 23255	23205, 23255	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	23230	23230	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
CONDCU-DETED EMIS-SION	23205 to 23255	23205, 23230, 23255	5MHz	QPSK	1 RB, 0 RB Offest
	23230	23230	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	23205 to 23255	23205, 23230, 23255	5MHz	QPSK	1 RB, 25 RB Offest

LTE Band 17 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23780 to 23800	23790	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM, 64QAM	Full RB
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AV-ERAGE RATIO	23755 to 23825	23755, 23790, 23825	5MHz	64QAM	Full RB
	23780 to 23800	23780, 23790, 23800	10MHz	64QAM	Full RB
BAND EDGE	23755 to 23825	23755, 23825	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	23780 to 23800	23780, 23800	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
CONDCU-DETED EMIS-SION	23755 to 23825	23755, 23790, 23825	5MHz	QPSK	1 RB, 0 RB Offest
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	23780 to 23800	23780, 23800	10MHz	QPSK	1 RB, 49 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 and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

LTE Band 38 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offest
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM, 64QAM	Full RB
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK, 16QAM, 64QAM	Full RB
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK, 16QAM, 64QAM	Full RB
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVER-AGE RATIO	37775 to 38225	37775, 38000, 38225	5MHz	64QAM	Full RB
	37800 to 38200	37800 , 38000, 38200	10MHz	64QAM	Full RB
	37825 to 38175	37825 , 38000, 38175	15MHz	64QAM	Full RB
	37850 to 38150	37850 , 38000, 38150	20MHz	64QAM	Full RB
BAND EDGE	37775 to 38225	37775, 38000, 38225	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK	1 RB/ 0,74 RB Offest Full RB
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK	1 RB/ 0,99 RB Offest Full RB
CONDUCTED EMISSION	37775 to 38225	37775, 38000, 38225	5MHz	QPSK	1 RB, 0 RB Offest
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	1 RB, 0 RB Offest
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK	1 RB, 0 RB Offest
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	1 RB, 99 RB Offest
EMISSION MASK	37775 to 38225	37775, 38000, 38225	5MHz	QPSK	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK	1 RB/ 0,74 RB Offest 75 RB/ 0 Offset
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK	1 RB/ 0,99 RB Offest 100 RB/ 0 Offset

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

5. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Power Output	+/- 1.10 dB
ERP/ EIRP measurement	Vertical Polarization = +/- 4.74dB Horizontal Polarization =+/- 4.62dB
99% Occupied Bandwidth	+/- 5.19 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 0.70 dB
Peak to Average Ratio	+/- 0.70 dB
Frequency Stability vs. Temperature	+/- 5.19 Hz
Frequency Stability vs. Voltage	+/- 5.19 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC=+/- 0.2%

Radiated Spurious Emission:

Measurement uncertainty (Polarization : **Vertical**)	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 : **Horizontal**)	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

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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

6. 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)

(5) mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

FCC 24.232(c)

Mobile and portable stations are limited to 2 W EIRP.

FCC 27.50 (a)

(3) for mobile and portable stations compliant with 3GPP LTE standards transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band are limited to 250 mW/ 5MHz EIRP but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth.

FCC 27.50(c)

(9) Control and mobile stations in the 698-746 MHz band are limited to 30 watts ERP.

(10) Portable stations (hand-held devices) are limited to 3 watts ERP.

FCC 27.50(d)

(4) Mobile, and portable (hand-held) stations operating in the 1710-1755 MHz, 1695-1710 MHz and 1755-1780 MHz bands are limited to 1W EIRP.

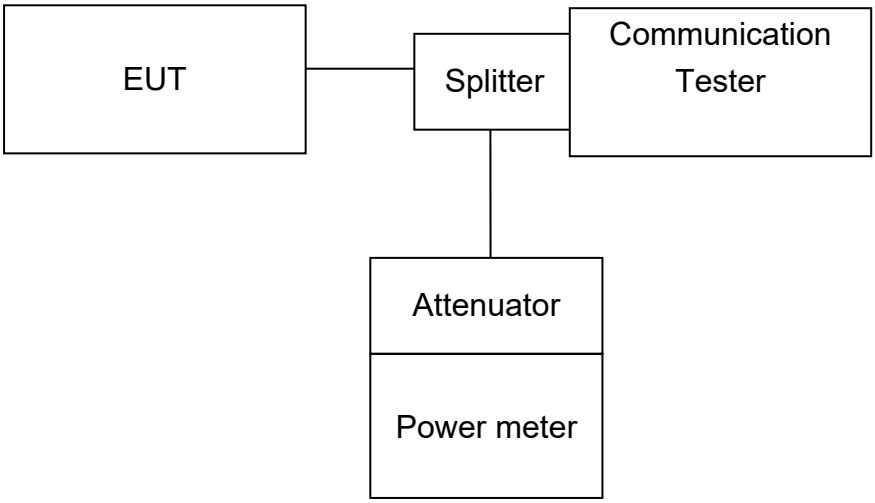
(7) Mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band are limited to 2 watts EIRP.

FCC 27, 50(h)

(2) Mobile and other user stations transmitting in the BRS and EBS bands are limited to 2 W EIRP.

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

6.2. Test Set-up



Note: *Measurement setup for testing on Antenna connector*

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, (WCDMA/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.

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

6.4. Determining ERP and/or EIRP from conducted RF output power measurements

ERP/EIRP = PMeas + GT-LC

Where:

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);
PMeas = 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.2

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.

6.5. Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Power Supply	Agilent	E3640A	MY52410006	12/04/2018	12/03/2019
Radio Communication Analyzer	Anritsu	MT8815B	6200711454	04/01/2019	03/31/2020
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	04/01/2019	03/31/2020

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

6.6. Measurement Result

RF Conducted Output Power
GSM/GPRS/EDGE MODE:

GSM/GPRS/EDGE (GMSK; 8-PSK) Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
GSM 850	824.2	128	32.46	-7.70	22.61	24.76	38.50	-13.74
	836.6	190	32.68	-7.70	22.83	24.98	38.50	-13.52
	848.8	251	32.51	-7.70	22.66	24.81	38.50	-13.69
GSM 1900	1850.2	512	29.40	-4.10	23.15	25.30	33.00	-7.70
	1880.0	661	29.32	-4.10	23.07	25.22	33.00	-7.78
	1909.8	810	29.41	-4.10	23.16	25.31	33.00	-7.69
GPRS 850	824.2	128	32.43	-7.70	22.58	24.73	38.50	-13.77
	836.6	190	32.65	-7.70	22.80	24.95	38.50	-13.55
	848.8	251	32.48	-7.70	22.63	24.78	38.50	-13.72
GPRS 1900	1850.2	512	29.33	-4.10	23.08	25.23	33.00	-7.77
	1880.0	661	29.31	-4.10	23.06	25.21	33.00	-7.79
	1909.8	810	29.35	-4.10	23.10	25.25	33.00	-7.75

EUT Mode	Frequency (MHz)	CH	Average Burst Power (1DN 1UP) Class 8 (dBm)	Average Burst Power (1DN 2UP) Class 10 (dBm)	Average Burst Power (1DN 3UP) Class 12 (dBm)	Average Burst Power (1DN 4UP) Class 12 (dBm)
GPRS 850	824.2	128	32.43	30.89	28.77	27.89
	836.6	190	32.65	30.75	28.92	27.88
	848.8	251	32.48	30.58	28.76	27.68
GPRS 1900	1850.2	512	29.33	27.53	25.85	24.65
	1880.0	661	29.31	27.61	25.94	24.79
	1909.8	810	29.35	27.51	25.83	24.69

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

WCDMA MODE:

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 specification. The EUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7). RMC 12.2kps is used for this testing.

Results:

WCDMA/HSUPA/HSDPA Band II Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	1852.4	9262	22.42	-4.10	16.17	18.32	33.00	-14.68
	1880.0	9400	22.50	-4.10	16.25	18.40	33.00	-14.60
	1907.6	9538	22.43	-4.10	16.18	18.33	33.00	-14.67
HSDPA	1852.4	9262	21.46	-4.10	15.21	17.36	33.00	-15.64
	1880.0	9400	21.53	-4.10	15.28	17.43	33.00	-15.57
	1907.6	9538	21.43	-4.10	15.18	17.33	33.00	-15.67
HSUPA	1852.4	9262	21.36	-4.10	15.11	17.26	33.00	-15.74
	1880.0	9400	21.51	-4.10	15.26	17.41	33.00	-15.59
	1907.6	9538	21.42	-4.10	15.17	17.32	33.00	-15.68

WCDMA/HSUPA/HSDPA Band IV Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	1712.4	1312	22.46	-3.60	16.71	18.86	30.00	-11.14
	1732.6	1413	22.43	-3.60	16.68	18.83	30.00	-11.17
	1752.6	1513	22.56	-3.60	16.81	18.96	30.00	-11.04
HSDPA	1712.4	1312	21.41	-3.60	15.66	17.81	30.00	-12.19
	1732.6	1413	21.42	-3.60	15.67	17.82	30.00	-12.18
	1752.6	1513	21.52	-3.60	15.77	17.92	30.00	-12.08
HSUPA	1712.4	1312	21.42	-3.60	15.67	17.82	30.00	-12.18
	1732.6	1413	21.45	-3.60	15.70	17.85	30.00	-12.15
	1752.6	1513	21.59	-3.60	15.84	17.99	30.00	-12.01

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

WCDMA/HSUPA/HSDPA Band V Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	826.4	4132	23.32	-7.70	13.47	15.62	38.50	-22.88
	836.6	4183	23.39	-7.70	13.54	15.69	38.50	-22.81
	846.6	4233	23.34	-7.70	13.49	15.64	38.50	-22.86
HSDPA	826.4	4132	22.35	-7.70	12.50	14.65	38.50	-23.85
	836.6	4183	22.39	-7.70	12.54	14.69	38.50	-23.81
	846.6	4233	22.37	-7.70	12.52	14.67	38.50	-23.83
HSUPA	826.4	4132	22.28	-7.70	12.43	14.58	38.50	-23.92
	836.6	4183	22.35	-7.70	12.50	14.65	38.50	-23.85
	846.6	4233	22.33	-7.70	12.48	14.63	38.50	-23.87

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 and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.
SGS Taiwan Ltd. 台灣檢驗科技股份有限公司
No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號
t (886-2) 2299-3279 f (886-2) 2298-0488 www.tw.sgs.com
Member of SGS Group

HSDPA Release 6 MODE:

The following 4 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C10.1.4 & C11.1.3 in the 3GPP TS34.121-1. RMC 12.2kps is used for this testing.

HSDPA SUB-TEST Setting

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH(FOR HSDPA)

Sub-test	β_c	β_d	β_d ***(SF)***	β_c/β_d	β_{HS} *(Note1, Note 2)*	**CM (dB)** *(Note 3)*	**MPR (dB)** *(Note 3)*	**RMC (Kbps)**
1	2/15	15/15	64	2/15	4/15	0.0	0.0	12.2
2	12/15 *(Note 4)*	15/15 *(Note 4)*	64	12/15 *(Note 4)*	24/15	1.0	0.0	12.2
3	15/15	8/15	64	15/8	30/15	1.5	0.5	12.2
4	15/15	4/15	64	15/4	30/15	1.5	0.5	12.2

Note: The recommended HSDPA MPRs are implemented as per following sub-tests.

HSPA (HSDPA & HSUPA) Release 6 MODE

The following 5 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C11.1.3 in the 3GPP TS34.121-1. RMC 12.2kps is used for this testing

HSPA SUB-TEST Setting

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH(FOR HSUPA)

Sub-test	β_c	β_d	β_d **(SF)**	β_c/β_d	β_{HS}	β_{ec}	β_{ed}	β_{ed} **(SF)**	β_{ed} **(Codes)**	**CM (dB)**	**MPR (dB)**	**AG Index**	**E-TFCI**	**RMC (Kbps)**
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/225	1309/225	4	1	1.0	0.0	20	75	12.2
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67	12.2
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed}1$: 47/15 $\beta_{ed}2$: 47/15	4 4	2	2.0	1.0	15	92	12.2
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71	12.2
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81	12.2

Note: The recommended HSUPA MPRs are implemented as per following sub-tests.

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

Results:

Mode	Sub test	Avg. Power (dBm) Channel		
		9262.00	9400.00	9538.00
HSDPA II	1	21.46	21.53	21.43
	2	20.93	21.04	20.90
	3	20.91	21.03	20.88
	4	20.96	21.02	20.91

Mode	Sub test	Avg. Power (dBm) Channel		
		1312.00	1413.00	1513.00
HSDPA IV	1	21.41	21.42	21.52
	2	20.87	20.91	21.09
	3	20.89	20.89	21.08
	4	20.88	20.84	21.07

Mode	Sub test	Avg. Power (dBm) Channel		
		4132.00	4183.00	4233.00
HSDPA V	1	22.35	22.39	22.37
	2	21.79	21.89	21.81
	3	21.76	21.81	21.80
	4	21.82	21.81	21.75

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

Mode	Sub test	Avg. Power (dBm) Channel		
		9262.00	9400.00	9538.00
HSUPA II	1	21.36	21.51	21.42
	2	19.45	19.52	19.50
	3	20.35	20.53	20.38
	4	19.49	19.51	19.41
	5	21.52	21.65	21.39

Mode	Sub test	Avg. Power (dBm) Channel		
		1312.00	1413.00	1513.00
HSUPA IV	1	21.42	21.45	21.59
	2	19.45	19.43	19.08
	3	20.45	20.47	20.38
	4	19.45	19.46	19.54
	5	21.43	21.55	21.07

Mode	Sub test	Avg. Power (dBm) Channel		
		4132.00	4183.00	4233.00
HSUPA V	1	22.28	22.35	22.33
	2	20.36	20.35	20.33
	3	21.37	21.43	21.34
	4	20.31	20.34	20.36
	5	22.34	22.39	22.37

WCDMA/HSDPA/HSUPA band II, IV, V

The EUT output power was controlled by simulator. Set Communication Tester MT8820C function key “UE Power Control” and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm. Then record the read (see page 15 for measurement data). The min. power was measures by a function key “minimum power” then record the read. It is -52.3dBm. The power variation can be 0.1dB step by setting.

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

Minimum Communications Power Measurement

PCS 1900 band

PCL	0	1	2	3	4	5	6	7	8
Output power (dBm)	28.87	26.86	24.91	22.9	21.01	19.08	17.13	15.23	13.34

PCL	9	10	11	12	13	14	15
Output power (dBm)	11.31	9.23	7.46	5.63	3.64	1.89	-0.06

Note: The EUT output power was controlled by simulator. Set Communication Tester CMU 200 PCL as above, and get the mobile phone output power reading.

WCDMA/HSDPA/HSUPA band V

The EUT output power was controlled by simulator. Set Communication Tester MT8820C function key “UE Power Control” and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm. Then record the read (see page 15 for measurement data). The min. power was measures by a function key “minimum power” then record the read. It is -52.3dBm. The power variation can be 0.1dB step by setting.

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

LTE Result:

Antenna gain (dBi) -4.1

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	18607	1850.7	QPSK	1	0	22.47	18.37	33	-14.63
				1	5	22.24	18.14	33	-14.86
				3	2	22.15	18.05	33	-14.95
				6	0	21.15	17.05	33	-15.95
	18900	1880	QPSK	1	0	22.49	18.39	33	-14.61
				1	5	22.03	17.93	33	-15.07
				3	2	21.92	17.82	33	-15.18
				6	0	21.16	17.06	33	-15.94
	19193	1909.3	QPSK	1	0	22.30	18.20	33	-14.8
				1	5	22.32	18.22	33	-14.78
				3	2	22.14	18.04	33	-14.96
				6	0	21.20	17.10	33	-15.9
	18607	1850.7	16QAM	1	0	21.21	17.11	33	-15.89
				1	5	21.16	17.06	33	-15.94
				3	2	20.96	16.86	33	-16.14
				6	0	20.12	16.02	33	-16.98
	18900	1880	16QAM	1	0	21.08	16.98	33	-16.02
				1	5	20.92	16.82	33	-16.18
				3	2	20.97	16.87	33	-16.13
				6	0	20.12	16.02	33	-16.98
	19193	1909.3	16QAM	1	0	21.30	17.20	33	-15.8
				1	5	21.16	17.06	33	-15.94
				3	2	20.89	16.79	33	-16.21
				6	0	20.29	16.19	33	-16.81
	18607	1850.7	64QAM	1	0	20.43	16.33	33	-16.67
				1	5	20.38	16.28	33	-16.72
				3	2	20.17	16.07	33	-16.93
				6	0	19.63	15.53	33	-17.47
	18900	1880	64QAM	1	0	20.11	16.01	33	-16.99
				1	5	20.34	16.24	33	-16.76
				3	2	20.14	16.04	33	-16.96
				6	0	19.55	15.45	33	-17.55
	19193	1909.3	64QAM	1	0	20.36	16.26	33	-16.74
				1	5	20.31	16.21	33	-16.79
				3	2	20.08	15.98	33	-17.02
				6	0	19.61	15.51	33	-17.49

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

Antenna gain (dBi) -4.1

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	18615	1851.5	QPSK	1	0	22.32	18.22	33	-14.78
				1	14	22.08	17.98	33	-15.02
				8	4	21.46	17.36	33	-15.64
				15	0	21.16	17.06	33	-15.94
	18900	1880	QPSK	1	0	22.49	18.39	33	-14.61
				1	14	22.31	18.21	33	-14.79
				8	4	21.51	17.41	33	-15.59
				15	0	21.27	17.17	33	-15.83
	19185	1908.5	QPSK	1	0	22.24	18.14	33	-14.86
				1	14	22.04	17.94	33	-15.06
				8	4	21.42	17.32	33	-15.68
				15	0	21.18	17.08	33	-15.92
	18615	1851.5	16QAM	1	0	21.54	17.44	33	-15.56
				1	14	21.31	17.21	33	-15.79
				8	4	20.38	16.28	33	-16.72
				15	0	20.15	16.05	33	-16.95
	18900	1880	16QAM	1	0	21.58	17.48	33	-15.52
				1	14	21.40	17.30	33	-15.7
				8	4	20.44	16.34	33	-16.66
				15	0	20.25	16.15	33	-16.85
	19185	1908.5	16QAM	1	0	21.43	17.33	33	-15.67
				1	14	21.39	17.29	33	-15.71
				8	4	20.35	16.25	33	-16.75
				15	0	20.30	16.20	33	-16.8
	18615	1851.5	64QAM	1	0	21.03	16.93	33	-16.07
				1	14	20.67	16.57	33	-16.43
				8	4	19.89	15.79	33	-17.21
				15	0	19.56	15.46	33	-17.54
	18900	1880	64QAM	1	0	21.01	16.91	33	-16.09
				1	14	20.77	16.67	33	-16.33
				8	4	19.90	15.80	33	-17.2
				15	0	19.68	15.58	33	-17.42
	19185	1908.5	64QAM	1	0	20.96	16.86	33	-16.14
				1	14	20.82	16.72	33	-16.28
				8	4	19.79	15.69	33	-17.31
				15	0	19.72	15.62	33	-17.38

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

Antenna gain (dBi) -4.1

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	18625	1852.5	QPSK	1	0	22.25	18.15	33	-14.85
				1	24	22.05	17.95	33	-15.05
				12	6	21.53	17.43	33	-15.57
				25	0	21.15	17.05	33	-15.95
	18900	1880	QPSK	1	0	22.43	18.33	33	-14.67
				1	24	22.30	18.20	33	-14.8
				12	6	21.56	17.46	33	-15.54
				25	0	21.25	17.15	33	-15.85
	19175	1907.5	QPSK	1	0	22.23	18.13	33	-14.87
				1	24	22.13	18.03	33	-14.97
				12	6	21.37	17.27	33	-15.73
				25	0	21.17	17.07	33	-15.93
	18625	1852.5	16QAM	1	0	21.58	17.48	33	-15.52
				1	24	21.31	17.21	33	-15.79
				12	6	20.37	16.27	33	-16.73
				25	0	20.17	16.07	33	-16.93
	18900	1880	16QAM	1	0	21.58	17.48	33	-15.52
				1	24	21.34	17.24	33	-15.76
				12	6	20.44	16.34	33	-16.66
				25	0	20.22	16.12	33	-16.88
	19175	1907.5	16QAM	1	0	21.44	17.34	33	-15.66
				1	24	21.33	17.23	33	-15.77
				12	6	20.32	16.22	33	-16.78
				25	0	20.23	16.13	33	-16.87
	18625	1852.5	64QAM	1	0	21.05	16.95	33	-16.05
				1	24	20.72	16.62	33	-16.38
				12	6	19.80	15.70	33	-17.3
				25	0	19.57	15.47	33	-17.53
	18900	1880	64QAM	1	0	21.00	16.90	33	-16.1
				1	24	20.77	16.67	33	-16.33
				12	6	19.99	15.89	33	-17.11
				25	0	19.60	15.50	33	-17.5
	19175	1907.5	64QAM	1	0	20.92	16.82	33	-16.18
				1	24	20.83	16.73	33	-16.27
				12	6	19.79	15.69	33	-17.31
				25	0	19.65	15.55	33	-17.45

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

Antenna gain (dBi) -4.1

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	18650	1855	QPSK	1	0	22.28	18.18	33	-14.82
				1	49	22.11	18.01	33	-14.99
				25	12	21.52	17.42	33	-15.58
				50	0	21.21	17.11	33	-15.89
	18900	1880	QPSK	1	0	22.45	18.35	33	-14.65
				1	49	22.33	18.23	33	-14.77
				25	12	21.54	17.44	33	-15.56
				50	0	21.27	17.17	33	-15.83
	19150	1905	QPSK	1	0	22.29	18.19	33	-14.81
				1	49	22.05	17.95	33	-15.05
				25	12	21.44	17.34	33	-15.66
				50	0	21.19	17.09	33	-15.91
	18650	1855	16QAM	1	0	21.48	17.38	33	-15.62
				1	49	21.30	17.20	33	-15.8
				25	12	20.30	16.20	33	-16.8
				50	0	20.20	16.10	33	-16.9
	18900	1880	16QAM	1	0	21.59	17.49	33	-15.51
				1	49	21.40	17.30	33	-15.7
				25	12	20.51	16.41	33	-16.59
				50	0	20.26	16.16	33	-16.84
	19150	1905	16QAM	1	0	21.47	17.37	33	-15.63
				1	49	21.32	17.22	33	-15.78
				25	12	20.35	16.25	33	-16.75
				50	0	20.23	16.13	33	-16.87
	18650	1855	64QAM	1	0	21.05	16.95	33	-16.05
				1	49	20.68	16.58	33	-16.42
				25	12	19.80	15.70	33	-17.3
				50	0	19.55	15.45	33	-17.55
	18900	1880	64QAM	1	0	21.02	16.92	33	-16.08
				1	49	20.81	16.71	33	-16.29
				25	12	19.98	15.88	33	-17.12
				50	0	19.60	15.50	33	-17.5
	19150	1905	64QAM	1	0	20.95	16.85	33	-16.15
				1	49	20.83	16.73	33	-16.27
				25	12	19.76	15.66	33	-17.34
				50	0	19.71	15.61	33	-17.39

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

Antenna gain (dBi) -4.1

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	18675	1857.5	QPSK	1	0	22.24	18.14	33	-14.86
				1	74	22.02	17.92	33	-15.08
				36	18	21.50	17.40	33	-15.6
				75	0	21.23	17.13	33	-15.87
	18900	1880	QPSK	1	0	22.44	18.34	33	-14.66
				1	74	22.29	18.19	33	-14.81
				36	18	21.50	17.40	33	-15.6
				75	0	21.26	17.16	33	-15.84
	19125	1902.5	QPSK	1	0	22.26	18.16	33	-14.84
				1	74	22.13	18.03	33	-14.97
				36	18	21.43	17.33	33	-15.67
				75	0	21.10	17.00	33	-16
	18675	1857.5	16QAM	1	0	21.56	17.46	33	-15.54
				1	74	21.36	17.26	33	-15.74
				36	18	20.33	16.23	33	-16.77
				75	0	20.18	16.08	33	-16.92
	18900	1880	16QAM	1	0	21.56	17.46	33	-15.54
				1	74	21.39	17.29	33	-15.71
				36	18	20.42	16.32	33	-16.68
				75	0	20.26	16.16	33	-16.84
	19125	1902.5	16QAM	1	0	21.48	17.38	33	-15.62
				1	74	21.38	17.28	33	-15.72
				36	18	20.41	16.31	33	-16.69
				75	0	20.22	16.12	33	-16.88
	18675	1857.5	64QAM	1	0	21.03	16.93	33	-16.07
				1	74	20.70	16.60	33	-16.4
				36	18	19.86	15.76	33	-17.24
				75	0	19.61	15.51	33	-17.49
	18900	1880	64QAM	1	0	21.05	16.95	33	-16.05
				1	74	20.78	16.68	33	-16.32
				36	18	19.91	15.81	33	-17.19
				75	0	19.63	15.53	33	-17.47
	19125	1902.5	64QAM	1	0	20.91	16.81	33	-16.19
				1	74	20.83	16.73	33	-16.27
				36	18	19.75	15.65	33	-17.35
				75	0	19.67	15.57	33	-17.43

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

Antenna gain (dBi) -4.1

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	18700	1860	QPSK	1	0	22.53	18.43	33	-14.57
				1	99	22.22	18.12	33	-14.88
				50	25	21.63	17.53	33	-15.47
				100	0	21.35	17.25	33	-15.75
	18900	1880	QPSK	1	0	22.69	18.59	33	-14.41
				1	99	22.48	18.38	33	-14.62
				50	25	21.67	17.57	33	-15.43
				100	0	21.35	17.25	33	-15.75
	19100	1900	QPSK	1	0	22.42	18.32	33	-14.68
				1	99	22.24	18.14	33	-14.86
				50	25	21.57	17.47	33	-15.53
				100	0	21.30	17.20	33	-15.8
	18700	1860	16QAM	1	0	21.68	17.58	33	-15.42
				1	99	21.46	17.36	33	-15.64
				50	25	20.49	16.39	33	-16.61
				100	0	20.31	16.21	33	-16.79
	18900	1880	16QAM	1	0	21.71	17.61	33	-15.39
				1	99	21.52	17.42	33	-15.58
				50	25	20.62	16.52	33	-16.48
				100	0	20.36	16.26	33	-16.74
	19100	1900	16QAM	1	0	21.61	17.51	33	-15.49
				1	99	21.50	17.40	33	-15.6
				50	25	20.51	16.41	33	-16.59
				100	0	20.41	16.31	33	-16.69
	18700	1860	64QAM	1	0	21.18	17.08	33	-15.92
				1	99	20.86	16.76	33	-16.24
				50	25	19.99	15.89	33	-17.11
				100	0	19.74	15.64	33	-17.36
	18900	1880	64QAM	1	0	21.16	17.06	33	-15.94
				1	99	20.92	16.82	33	-16.18
				50	25	20.09	15.99	33	-17.01
				100	0	19.80	15.70	33	-17.3
	19100	1900	64QAM	1	0	21.10	17.00	33	-16
				1	99	21.00	16.90	33	-16.1
				50	25	19.92	15.82	33	-17.18
				100	0	19.83	15.73	33	-17.27

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

Antenna gain (dBi) -3.6

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	19957	1710.7	QPSK	1	0	21.73	18.13	30	-11.87
				1	5	21.38	17.78	30	-12.22
				3	2	21.57	17.97	30	-12.03
				6	0	20.97	17.37	30	-12.63
	20175	1732.5	QPSK	1	0	21.77	18.17	30	-11.83
				1	5	21.35	17.75	30	-12.25
				3	2	21.40	17.80	30	-12.2
				6	0	21.21	17.61	30	-12.39
	20393	1754.3	QPSK	1	0	21.73	18.13	30	-11.87
				1	5	21.70	18.10	30	-11.9
				3	2	21.38	17.78	30	-12.22
				6	0	21.13	17.53	30	-12.47
	19957	1710.7	16QAM	1	0	21.18	17.58	30	-12.42
				1	5	21.02	17.42	30	-12.58
				3	2	20.88	17.28	30	-12.72
				6	0	20.32	16.72	30	-13.28
	20175	1732.5	16QAM	1	0	21.26	17.66	30	-12.34
				1	5	21.10	17.50	30	-12.5
				3	2	20.81	17.21	30	-12.79
				6	0	20.44	16.84	30	-13.16
	20393	1754.3	16QAM	1	0	21.14	17.54	30	-12.46
				1	5	21.21	17.61	30	-12.39
				3	2	20.70	17.10	30	-12.9
				6	0	20.32	16.72	30	-13.28
	19957	1710.7	64QAM	1	0	20.25	16.65	30	-13.35
				1	5	20.36	16.76	30	-13.24
				3	2	20.01	16.41	30	-13.59
				6	0	19.57	15.97	30	-14.03
	20175	1732.5	64QAM	1	0	20.43	16.83	30	-13.17
				1	5	20.40	16.80	30	-13.2
				3	2	20.03	16.43	30	-13.57
				6	0	19.48	15.88	30	-14.12
	20393	1754.3	64QAM	1	0	20.36	16.76	30	-13.24
				1	5	20.14	16.54	30	-13.46
				3	2	20.08	16.48	30	-13.52
				6	0	19.64	16.04	30	-13.96

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

Antenna gain (dBi) -3.6

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	19965	1711.5	QPSK	1	0	21.68	18.08	30	-11.92
				1	14	21.39	17.79	30	-12.21
				8	4	21.41	17.81	30	-12.19
				15	0	21.10	17.50	30	-12.5
	20175	1732.5	QPSK	1	0	21.82	18.22	30	-11.78
				1	14	21.58	17.98	30	-12.02
				8	4	21.38	17.78	30	-12.22
				15	0	21.15	17.55	30	-12.45
	20385	1753.5	QPSK	1	0	21.76	18.16	30	-11.84
				1	14	21.55	17.95	30	-12.05
				8	4	21.41	17.81	30	-12.19
				15	0	21.26	17.66	30	-12.34
	19965	1711.5	16QAM	1	0	20.98	17.38	30	-12.62
				1	14	20.58	16.98	30	-13.02
				8	4	20.35	16.75	30	-13.25
				15	0	20.09	16.49	30	-13.51
	20175	1732.5	16QAM	1	0	20.86	17.26	30	-12.74
				1	14	21.10	17.50	30	-12.5
				8	4	20.41	16.81	30	-13.19
				15	0	20.18	16.58	30	-13.42
	20385	1753.5	16QAM	1	0	21.15	17.55	30	-12.45
				1	14	20.85	17.25	30	-12.75
				8	4	20.41	16.81	30	-13.19
				15	0	20.21	16.61	30	-13.39
	19965	1711.5	64QAM	1	0	20.39	16.79	30	-13.21
				1	14	19.98	16.38	30	-13.62
				8	4	19.81	16.21	30	-13.79
				15	0	19.55	15.95	30	-14.05
	20175	1732.5	64QAM	1	0	20.32	16.72	30	-13.28
				1	14	20.55	16.95	30	-13.05
				8	4	19.83	16.23	30	-13.77
				15	0	19.59	15.99	30	-14.01
	20385	1753.5	64QAM	1	0	20.55	16.95	30	-13.05
				1	14	20.26	16.66	30	-13.34
				8	4	19.88	16.28	30	-13.72
				15	0	19.70	16.10	30	-13.9

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

Antenna gain (dBi) -3.6

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	19975	1712.5	QPSK	1	0	21.71	18.11	30	-11.89
				1	24	21.33	17.73	30	-12.27
				12	6	21.43	17.83	30	-12.17
				25	0	21.13	17.53	30	-12.47
	20175	1732.5	QPSK	1	0	21.78	18.18	30	-11.82
				1	24	21.57	17.97	30	-12.03
				12	6	21.35	17.75	30	-12.25
				25	0	21.08	17.48	30	-12.52
	20375	1752.5	QPSK	1	0	21.78	18.18	30	-11.82
				1	24	21.62	18.02	30	-11.98
				12	6	21.40	17.80	30	-12.2
				25	0	21.26	17.66	30	-12.34
	19975	1712.5	16QAM	1	0	20.91	17.31	30	-12.69
				1	24	20.55	16.95	30	-13.05
				12	6	20.39	16.79	30	-13.21
				25	0	20.08	16.48	30	-13.52
	20175	1732.5	16QAM	1	0	20.78	17.18	30	-12.82
				1	24	21.06	17.46	30	-12.54
				12	6	20.41	16.81	30	-13.19
				25	0	20.13	16.53	30	-13.47
	20375	1752.5	16QAM	1	0	21.06	17.46	30	-12.54
				1	24	20.83	17.23	30	-12.77
				12	6	20.44	16.84	30	-13.16
				25	0	20.23	16.63	30	-13.37
	19975	1712.5	64QAM	1	0	20.44	16.84	30	-13.16
				1	24	20.02	16.42	30	-13.58
				12	6	19.80	16.20	30	-13.8
				25	0	19.57	15.97	30	-14.03
	20175	1732.5	64QAM	1	0	20.32	16.72	30	-13.28
				1	24	20.50	16.90	30	-13.1
				12	6	19.77	16.17	30	-13.83
				25	0	19.59	15.99	30	-14.01
	20375	1752.5	64QAM	1	0	20.52	16.92	30	-13.08
				1	24	20.34	16.74	30	-13.26
				12	6	19.88	16.28	30	-13.72
				25	0	19.67	16.07	30	-13.93

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

Antenna gain (dBi) -3.6

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20000	1715	QPSK	1	0	21.69	18.09	30	-11.91
				1	49	21.40	17.80	30	-12.2
				25	12	21.37	17.77	30	-12.23
				50	0	21.10	17.50	30	-12.5
	20175	1732.5	QPSK	1	0	21.84	18.24	30	-11.76
				1	49	21.61	18.01	30	-11.99
				25	12	21.38	17.78	30	-12.22
				50	0	21.15	17.55	30	-12.45
	20375	1750	QPSK	1	0	21.72	18.12	30	-11.88
				1	49	21.58	17.98	30	-12.02
				25	12	21.41	17.81	30	-12.19
				50	0	21.28	17.68	30	-12.32
	20000	1715	16QAM	1	0	20.96	17.36	30	-12.64
				1	49	20.53	16.93	30	-13.07
				25	12	20.33	16.73	30	-13.27
				50	0	20.04	16.44	30	-13.56
	20175	1732.5	16QAM	1	0	20.84	17.24	30	-12.76
				1	49	21.04	17.44	30	-12.56
				25	12	20.40	16.80	30	-13.2
				50	0	20.14	16.54	30	-13.46
	20375	1750	16QAM	1	0	21.10	17.50	30	-12.5
				1	49	20.83	17.23	30	-12.77
				25	12	20.46	16.86	30	-13.14
				50	0	20.19	16.59	30	-13.41
	20000	1715	64QAM	1	0	20.43	16.83	30	-13.17
				1	49	19.97	16.37	30	-13.63
				25	12	19.80	16.20	30	-13.8
				50	0	19.57	15.97	30	-14.03
	20175	1732.5	64QAM	1	0	20.30	16.70	30	-13.3
				1	49	20.47	16.87	30	-13.13
				25	12	19.74	16.14	30	-13.86
				50	0	19.58	15.98	30	-14.02
	20375	1750	64QAM	1	0	20.52	16.92	30	-13.08
				1	49	20.26	16.66	30	-13.34
				25	12	19.94	16.34	30	-13.66
				50	0	19.69	16.09	30	-13.91

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

Antenna gain (dBi) -3.6

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	20025	1717.5	QPSK	1	0	21.74	18.14	30	-11.86
				1	74	21.39	17.79	30	-12.21
				36	18	21.35	17.75	30	-12.25
				75	0	21.11	17.51	30	-12.49
	20175	1732.5	QPSK	1	0	21.80	18.20	30	-11.8
				1	74	21.59	17.99	30	-12.01
				36	18	21.33	17.73	30	-12.27
				75	0	21.13	17.53	30	-12.47
	20325	1747.5	QPSK	1	0	21.79	18.19	30	-11.81
				1	74	21.62	18.02	30	-11.98
				36	18	21.35	17.75	30	-12.25
				75	0	21.24	17.64	30	-12.36
	20025	1717.5	16QAM	1	0	20.94	17.34	30	-12.66
				1	74	20.60	17.00	30	-13
				36	18	20.34	16.74	30	-13.26
				75	0	20.10	16.50	30	-13.5
	20175	1732.5	16QAM	1	0	20.87	17.27	30	-12.73
				1	74	21.10	17.50	30	-12.5
				36	18	20.35	16.75	30	-13.25
				75	0	20.14	16.54	30	-13.46
	20325	1747.5	16QAM	1	0	21.15	17.55	30	-12.45
				1	74	20.86	17.26	30	-12.74
				36	18	20.46	16.86	30	-13.14
				75	0	20.23	16.63	30	-13.37
	20025	1717.5	64QAM	1	0	20.44	16.84	30	-13.16
				1	74	19.98	16.38	30	-13.62
				36	18	19.80	16.20	30	-13.8
				75	0	19.61	16.01	30	-13.99
	20175	1732.5	64QAM	1	0	20.32	16.72	30	-13.28
				1	74	20.56	16.96	30	-13.04
				36	18	19.80	16.20	30	-13.8
				75	0	19.59	15.99	30	-14.01
	20325	1747.5	64QAM	1	0	20.49	16.89	30	-13.11
				1	74	20.28	16.68	30	-13.32
				36	18	19.88	16.28	30	-13.72
				75	0	19.71	16.11	30	-13.89

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

Antenna gain (dBi) -3.6

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	20050	1720	QPSK	1	0	21.85	18.25	30	-11.75
				1	99	21.53	17.93	30	-12.07
				50	25	21.54	17.94	30	-12.06
				100	0	21.24	17.64	30	-12.36
	20175	1732.5	QPSK	1	0	21.97	18.37	30	-11.63
				1	99	21.71	18.11	30	-11.89
				50	25	21.50	17.90	30	-12.1
				100	0	21.28	17.68	30	-12.32
	20300	1745	QPSK	1	0	21.91	18.31	30	-11.69
				1	99	21.75	18.15	30	-11.85
				50	25	21.55	17.95	30	-12.05
				100	0	21.40	17.80	30	-12.2
	20050	1720	16QAM	1	0	21.10	17.50	30	-12.5
				1	99	20.72	17.12	30	-12.88
				50	25	20.53	16.93	30	-13.07
				100	0	20.23	16.63	30	-13.37
	20175	1732.5	16QAM	1	0	20.98	17.38	30	-12.62
				1	99	21.23	17.63	30	-12.37
				50	25	20.52	16.92	30	-13.08
				100	0	20.32	16.72	30	-13.28
	20300	1745	16QAM	1	0	21.25	17.65	30	-12.35
				1	99	20.99	17.39	30	-12.61
				50	25	20.61	17.01	30	-12.99
				100	0	20.37	16.77	30	-13.23
	20050	1720	64QAM	1	0	20.59	16.99	30	-13.01
				1	99	20.13	16.53	30	-13.47
				50	25	19.95	16.35	30	-13.65
				100	0	19.73	16.13	30	-13.87
	20175	1732.5	64QAM	1	0	20.45	16.85	30	-13.15
				1	99	20.67	17.07	30	-12.93
				50	25	19.94	16.34	30	-13.66
				100	0	19.76	16.16	30	-13.84
	20300	1745	64QAM	1	0	20.66	17.06	30	-12.94
				1	99	20.45	16.85	30	-13.15
				50	25	20.04	16.44	30	-13.56
				100	0	19.83	16.23	30	-13.77

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

Antenna gain (dBi) -7.7

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	20407	824.7	QPSK	1	0	23.04	13.19	15.34	38.45	-23.11
				1	5	23.09	13.24	15.39	38.45	-23.06
				3	2	22.83	12.98	15.13	38.45	-23.32
				6	0	21.93	12.08	14.23	38.45	-24.22
	20525	836.5	QPSK	1	0	23.03	13.18	15.33	38.45	-23.12
				1	5	23.09	13.24	15.39	38.45	-23.06
				3	2	22.82	12.97	15.12	38.45	-23.33
				6	0	21.95	12.10	14.25	38.45	-24.2
	20643	848.3	QPSK	1	0	23.12	13.27	15.42	38.45	-23.03
				1	5	23.14	13.29	15.44	38.45	-23.01
				3	2	22.81	12.96	15.11	38.45	-23.34
				6	0	22.07	12.22	14.37	38.45	-24.08
	20407	824.7	16QAM	1	0	22.08	12.23	14.38	38.45	-24.07
				1	5	21.91	12.06	14.21	38.45	-24.24
				3	2	22.04	12.19	14.34	38.45	-24.11
				6	0	20.95	11.10	13.25	38.45	-25.2
	20525	836.5	16QAM	1	0	22.21	12.36	14.51	38.45	-23.94
				1	5	22.04	12.19	14.34	38.45	-24.11
				3	2	22.47	12.62	14.77	38.45	-23.68
				6	0	21.21	11.36	13.51	38.45	-24.94
	20643	848.3	16QAM	1	0	22.29	12.44	14.59	38.45	-23.86
				1	5	21.97	12.12	14.27	38.45	-24.18
				3	2	22.34	12.49	14.64	38.45	-23.81
				6	0	20.90	11.05	13.20	38.45	-25.25
	20407	824.7	64QAM	1	0	21.18	11.33	13.48	38.45	-24.97
				1	5	20.95	11.10	13.25	38.45	-25.2
				3	2	20.86	11.01	13.16	38.45	-25.29
				6	0	19.82	9.97	12.12	38.45	-26.33
	20525	836.5	64QAM	1	0	21.07	11.22	13.37	38.45	-25.08
				1	5	20.92	11.07	13.22	38.45	-25.23
				3	2	20.99	11.14	13.29	38.45	-25.16
				6	0	19.97	10.12	12.27	38.45	-26.18
	20643	848.3	64QAM	1	0	21.17	11.32	13.47	38.45	-24.98
				1	5	20.99	11.14	13.29	38.45	-25.16
				3	2	20.92	11.07	13.22	38.45	-25.23
				6	0	19.81	9.96	12.11	38.45	-26.34

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

Antenna gain (dBi) -7.7

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	20415	825.5	QPSK	1	0	23.03	13.18	15.33	38.45	-23.12
				1	14	23.12	13.27	15.42	38.45	-23.03
				8	4	22.07	12.22	14.37	38.45	-24.08
				15	0	21.91	12.06	14.21	38.45	-24.24
	20525	836.5	QPSK	1	0	23.08	13.23	15.38	38.45	-23.07
				1	14	23.08	13.23	15.38	38.45	-23.07
				8	4	22.14	12.29	14.44	38.45	-24.01
				15	0	22.00	12.15	14.30	38.45	-24.15
	20635	847.5	QPSK	1	0	23.03	13.18	15.33	38.45	-23.12
				1	14	22.99	13.14	15.29	38.45	-23.16
				8	4	22.05	12.20	14.35	38.45	-24.1
				15	0	21.93	12.08	14.23	38.45	-24.22
	20415	825.5	16QAM	1	0	22.10	12.25	14.40	38.45	-24.05
				1	14	22.13	12.28	14.43	38.45	-24.02
				8	4	21.08	11.23	13.38	38.45	-25.07
				15	0	20.88	11.03	13.18	38.45	-25.27
	20525	836.5	16QAM	1	0	22.58	12.73	14.88	38.45	-23.57
				1	14	22.38	12.53	14.68	38.45	-23.77
				8	4	21.06	11.21	13.36	38.45	-25.09
				15	0	20.92	11.07	13.22	38.45	-25.23
	20635	847.5	16QAM	1	0	22.52	12.67	14.82	38.45	-23.63
				1	14	22.33	12.48	14.63	38.45	-23.82
				8	4	21.08	11.23	13.38	38.45	-25.07
				15	0	20.88	11.03	13.18	38.45	-25.27
	20415	825.5	64QAM	1	0	21.26	11.41	13.56	38.45	-24.89
				1	14	21.32	11.47	13.62	38.45	-24.83
				8	4	20.20	10.35	12.50	38.45	-25.95
				15	0	19.99	10.14	12.29	38.45	-26.16
	20525	836.5	64QAM	1	0	21.77	11.92	14.07	38.45	-24.38
				1	14	21.55	11.70	13.85	38.45	-24.6
				8	4	20.31	10.46	12.61	38.45	-25.84
				15	0	20.07	10.22	12.37	38.45	-26.08
	20635	847.5	64QAM	1	0	21.61	11.76	13.91	38.45	-24.54
				1	14	21.51	11.66	13.81	38.45	-24.64
				8	4	20.20	10.35	12.50	38.45	-25.95
				15	0	20.05	10.20	12.35	38.45	-26.1

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

Antenna gain (dBi) -7.7

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	20425	826.5	QPSK	1	0	22.95	13.10	15.25	38.45	-23.2
				1	24	23.18	13.33	15.48	38.45	-22.97
				12	6	22.07	12.22	14.37	38.45	-24.08
				25	0	21.83	11.98	14.13	38.45	-24.32
	20525	836.5	QPSK	1	0	23.15	13.30	15.45	38.45	-23
				1	24	23.01	13.16	15.31	38.45	-23.14
				12	6	22.17	12.32	14.47	38.45	-23.98
				25	0	22.00	12.15	14.30	38.45	-24.15
	20625	846.5	QPSK	1	0	23.00	13.15	15.30	38.45	-23.15
				1	24	22.99	13.14	15.29	38.45	-23.16
				12	6	22.08	12.23	14.38	38.45	-24.07
				25	0	21.93	12.08	14.23	38.45	-24.22
	20425	826.5	16QAM	1	0	22.08	12.23	14.38	38.45	-24.07
				1	24	22.15	12.30	14.45	38.45	-24
				12	6	21.11	11.26	13.41	38.45	-25.04
				25	0	20.80	10.95	13.10	38.45	-25.35
	20525	836.5	16QAM	1	0	22.65	12.80	14.95	38.45	-23.5
				1	24	22.39	12.54	14.69	38.45	-23.76
				12	6	21.14	11.29	13.44	38.45	-25.01
				25	0	20.94	11.09	13.24	38.45	-25.21
	20625	846.5	16QAM	1	0	22.50	12.65	14.80	38.45	-23.65
				1	24	22.30	12.45	14.60	38.45	-23.85
				12	6	21.06	11.21	13.36	38.45	-25.09
				25	0	20.91	11.06	13.21	38.45	-25.24
	20425	826.5	64QAM	1	0	21.26	11.41	13.56	38.45	-24.89
				1	24	21.29	11.44	13.59	38.45	-24.86
				12	6	20.26	10.41	12.56	38.45	-25.89
				25	0	19.97	10.12	12.27	38.45	-26.18
	20525	836.5	64QAM	1	0	21.75	11.90	14.05	38.45	-24.4
				1	24	21.60	11.75	13.90	38.45	-24.55
				12	6	20.29	10.44	12.59	38.45	-25.86
				25	0	20.12	10.27	12.42	38.45	-26.03
	20625	846.5	64QAM	1	0	21.65	11.80	13.95	38.45	-24.5
				1	24	21.48	11.63	13.78	38.45	-24.67
				12	6	20.20	10.35	12.50	38.45	-25.95
				25	0	20.04	10.19	12.34	38.45	-26.11

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

Antenna gain (dBi) -7.7

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20450	829	QPSK	1	0	23.13	13.28	15.43	38.45	-23.02
				1	49	23.30	13.45	15.60	38.45	-22.85
				25	12	22.24	12.39	14.54	38.45	-23.91
				50	0	22.02	12.17	14.32	38.45	-24.13
	20525	836.5	QPSK	1	0	23.27	13.42	15.57	38.45	-22.88
				1	49	23.18	13.33	15.48	38.45	-22.97
				25	12	22.29	12.44	14.59	38.45	-23.86
				50	0	22.10	12.25	14.40	38.45	-24.05
	20600	844	QPSK	1	0	23.15	13.30	15.45	38.45	-23
				1	49	23.11	13.26	15.41	38.45	-23.04
				25	12	22.24	12.39	14.54	38.45	-23.91
				50	0	22.12	12.27	14.42	38.45	-24.03
	20450	829	16QAM	1	0	22.25	12.40	14.55	38.45	-23.9
				1	49	22.31	12.46	14.61	38.45	-23.84
				25	12	21.22	11.37	13.52	38.45	-24.93
				50	0	20.99	11.14	13.29	38.45	-25.16
	20525	836.5	16QAM	1	0	22.76	12.91	15.06	38.45	-23.39
				1	49	22.53	12.68	14.83	38.45	-23.62
				25	12	21.25	11.40	13.55	38.45	-24.9
				50	0	21.04	11.19	13.34	38.45	-25.11
	20600	844	16QAM	1	0	22.66	12.81	14.96	38.45	-23.49
				1	49	22.48	12.63	14.78	38.45	-23.67
				25	12	21.19	11.34	13.49	38.45	-24.96
				50	0	21.05	11.20	13.35	38.45	-25.1
	20450	829	64QAM	1	0	21.44	11.59	13.74	38.45	-24.71
				1	49	21.48	11.63	13.78	38.45	-24.67
				25	12	20.37	10.52	12.67	38.45	-25.78
				50	0	20.15	10.30	12.45	38.45	-26
	20525	836.5	64QAM	1	0	21.91	12.06	14.21	38.45	-24.24
				1	49	21.72	11.87	14.02	38.45	-24.43
				25	12	20.43	10.58	12.73	38.45	-25.72
				50	0	20.23	10.38	12.53	38.45	-25.92
	20600	844	64QAM	1	0	21.76	11.91	14.06	38.45	-24.39
				1	49	21.64	11.79	13.94	38.45	-24.51
				25	12	20.34	10.49	12.64	38.45	-25.81
				50	0	20.23	10.38	12.53	38.45	-25.92

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

Antenna gain (dBi) -3.1

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	20775	2502.5	QPSK	1	0	22.47	19.37	33	-13.63
				1	24	22.76	19.66	33	-13.34
				12	6	21.61	18.51	33	-14.49
				25	0	21.45	18.35	33	-14.65
	21100	2535	QPSK	1	0	22.54	19.44	33	-13.56
				1	24	22.58	19.48	33	-13.52
				12	6	21.79	18.69	33	-14.31
				25	0	21.49	18.39	33	-14.61
	21375	2567.5	QPSK	1	0	22.56	19.46	33	-13.54
				1	24	22.70	19.60	33	-13.4
				12	6	21.75	18.65	33	-14.35
				25	0	21.49	18.39	33	-14.61
	20775	2502.5	16QAM	1	0	21.85	18.75	33	-14.25
				1	24	21.98	18.88	33	-14.12
				12	6	20.71	17.61	33	-15.39
				25	0	20.59	17.49	33	-15.51
	21100	2535	16QAM	1	0	21.64	18.54	33	-14.46
				1	24	22.15	19.05	33	-13.95
				12	6	20.80	17.70	33	-15.3
				25	0	20.50	17.40	33	-15.6
	21375	2567.5	16QAM	1	0	22.21	19.11	33	-13.89
				1	24	22.09	18.99	33	-14.01
				12	6	20.71	17.61	33	-15.39
				25	0	20.55	17.45	33	-15.55
	20775	2502.5	64QAM	1	0	21.32	18.22	33	-14.78
				1	24	21.46	18.36	33	-14.64
				12	6	20.07	16.97	33	-16.03
				25	0	19.98	16.88	33	-16.12
	21100	2535	64QAM	1	0	21.16	18.06	33	-14.94
				1	24	21.54	18.44	33	-14.56
				12	6	20.18	17.08	33	-15.92
				25	0	19.93	16.83	33	-16.17
	21375	2567.5	64QAM	1	0	21.63	18.53	33	-14.47
				1	24	21.55	18.45	33	-14.55
				12	6	20.07	16.97	33	-16.03
				25	0	19.97	16.87	33	-16.13

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

Antenna gain (dBi) -3.1

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20800	2505	QPSK	1	0	22.51	19.41	33	-13.59
				1	49	22.82	19.72	33	-13.28
				25	12	21.66	18.56	33	-14.44
				50	0	21.42	18.32	33	-14.68
	21100	2535	QPSK	1	0	22.52	19.42	33	-13.58
				1	49	22.58	19.48	33	-13.52
				25	12	21.78	18.68	33	-14.32
				50	0	21.52	18.42	33	-14.58
	21350	2565	QPSK	1	0	22.57	19.47	33	-13.53
				1	49	22.67	19.57	33	-13.43
				25	12	21.67	18.57	33	-14.43
				50	0	21.58	18.48	33	-14.52
	20800	2505	16QAM	1	0	21.82	18.72	33	-14.28
				1	49	22.00	18.90	33	-14.1
				25	12	20.69	17.59	33	-15.41
				50	0	20.57	17.47	33	-15.53
	21100	2535	16QAM	1	0	21.70	18.60	33	-14.4
				1	49	22.18	19.08	33	-13.92
				25	12	20.75	17.65	33	-15.35
				50	0	20.47	17.37	33	-15.63
	21350	2565	16QAM	1	0	22.17	19.07	33	-13.93
				1	49	22.13	19.03	33	-13.97
				25	12	20.71	17.61	33	-15.39
				50	0	20.56	17.46	33	-15.54
	20800	2505	64QAM	1	0	21.24	18.14	33	-14.86
				1	49	21.38	18.28	33	-14.72
				25	12	20.16	17.06	33	-15.94
				50	0	19.96	16.86	33	-16.14
	21100	2535	64QAM	1	0	21.15	18.05	33	-14.95
				1	49	21.59	18.49	33	-14.51
				25	12	20.13	17.03	33	-15.97
				50	0	19.90	16.80	33	-16.2
	21350	2565	64QAM	1	0	21.69	18.59	33	-14.41
				1	49	21.55	18.45	33	-14.55
				25	12	20.11	17.01	33	-15.99
				50	0	19.98	16.88	33	-16.12

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

Antenna gain (dBi) -3.1

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	20825	2507.5	QPSK	1	0	22.46	19.36	33	-13.64
				1	74	22.76	19.66	33	-13.34
				36	18	21.64	18.54	33	-14.46
				75	0	21.46	18.36	33	-14.64
	21100	2535	QPSK	1	0	22.51	19.41	33	-13.59
				1	74	22.58	19.48	33	-13.52
				36	18	21.80	18.70	33	-14.3
				75	0	21.53	18.43	33	-14.57
	21375	2562.5	QPSK	1	0	22.62	19.52	33	-13.48
				1	74	22.69	19.59	33	-13.41
				36	18	21.67	18.57	33	-14.43
				75	0	21.50	18.40	33	-14.6
	20825	2507.5	16QAM	1	0	21.85	18.75	33	-14.25
				1	74	22.01	18.91	33	-14.09
				36	18	20.69	17.59	33	-15.41
				75	0	20.57	17.47	33	-15.53
	21100	2535	16QAM	1	0	21.65	18.55	33	-14.45
				1	74	22.09	18.99	33	-14.01
				36	18	20.72	17.62	33	-15.38
				75	0	20.54	17.44	33	-15.56
	21375	2562.5	16QAM	1	0	22.21	19.11	33	-13.89
				1	74	22.12	19.02	33	-13.98
				36	18	20.69	17.59	33	-15.41
				75	0	20.53	17.43	33	-15.57
	20825	2507.5	64QAM	1	0	21.25	18.15	33	-14.85
				1	74	21.45	18.35	33	-14.65
				36	18	20.12	17.02	33	-15.98
				75	0	19.96	16.86	33	-16.14
	21100	2535	64QAM	1	0	21.15	18.05	33	-14.95
				1	74	21.61	18.51	33	-14.49
				36	18	20.19	17.09	33	-15.91
				75	0	19.89	16.79	33	-16.21
	21375	2562.5	64QAM	1	0	21.67	18.57	33	-14.43
				1	74	21.52	18.42	33	-14.58
				36	18	20.10	17.00	33	-16
				75	0	19.94	16.84	33	-16.16

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

Antenna gain (dBi) -3.1

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	20850	2510	QPSK	1	0	22.63	19.53	33	-13.47
				1	99	22.92	19.82	33	-13.18
				50	25	21.78	18.68	33	-14.32
				100	0	21.57	18.47	33	-14.53
	21100	2535	QPSK	1	0	22.69	19.59	33	-13.41
				1	99	22.75	19.65	33	-13.35
				50	25	21.90	18.80	33	-14.2
				100	0	21.63	18.53	33	-14.47
	21350	2560	QPSK	1	0	22.74	19.64	33	-13.36
				1	99	22.85	19.75	33	-13.25
				50	25	21.86	18.76	33	-14.24
				100	0	21.68	18.58	33	-14.42
	20850	2510	16QAM	1	0	22.02	18.92	33	-14.08
				1	99	22.16	19.06	33	-13.94
				50	25	20.82	17.72	33	-15.28
				100	0	20.70	17.60	33	-15.4
	21100	2535	16QAM	1	0	21.81	18.71	33	-14.29
				1	99	22.29	19.19	33	-13.81
				50	25	20.91	17.81	33	-15.19
				100	0	20.67	17.57	33	-15.43
	21350	2560	16QAM	1	0	22.33	19.23	33	-13.77
				1	99	22.24	19.14	33	-13.86
				50	25	20.84	17.74	33	-15.26
				100	0	20.67	17.57	33	-15.43
	20850	2510	64QAM	1	0	21.43	18.33	33	-14.67
				1	99	21.58	18.48	33	-14.52
				50	25	20.26	17.16	33	-15.84
				100	0	20.15	17.05	33	-15.95
	21100	2535	64QAM	1	0	21.28	18.18	33	-14.82
				1	99	21.73	18.63	33	-14.37
				50	25	20.32	17.22	33	-15.78
				100	0	20.08	16.98	33	-16.02
	21350	2560	64QAM	1	0	21.83	18.73	33	-14.27
				1	99	21.68	18.58	33	-14.42
				50	25	20.27	17.17	33	-15.83
				100	0	20.14	17.04	33	-15.96

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

Antenna gain (dBi) -6

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	23017	699.7	QPSK	1	0	22.77	14.62	16.77	34.77	-18
				1	5	22.81	14.66	16.81	34.77	-17.96
				3	2	22.96	14.81	16.96	34.77	-17.81
				6	0	21.98	13.83	15.98	34.77	-18.79
	23095	707.5	QPSK	1	0	22.91	14.76	16.91	34.77	-17.86
				1	5	22.93	14.78	16.93	34.77	-17.84
				3	2	22.93	14.78	16.93	34.77	-17.84
				6	0	21.82	13.67	15.82	34.77	-18.95
	23173	715.5	QPSK	1	0	22.89	14.74	16.89	34.77	-17.88
				1	5	22.95	14.80	16.95	34.77	-17.82
				3	2	22.79	14.64	16.79	34.77	-17.98
				6	0	21.78	13.63	15.78	34.77	-18.99
	23017	699.7	16QAM	1	0	21.83	13.68	15.83	34.77	-18.94
				1	5	21.82	13.67	15.82	34.77	-18.95
				3	2	21.86	13.71	15.86	34.77	-18.91
				6	0	20.85	12.70	14.85	34.77	-19.92
	23095	707.5	16QAM	1	0	21.87	13.72	15.87	34.77	-18.9
				1	5	21.86	13.71	15.86	34.77	-18.91
				3	2	21.82	13.67	15.82	34.77	-18.95
				6	0	20.88	12.73	14.88	34.77	-19.89
	23173	715.5	16QAM	1	0	21.93	13.78	15.93	34.77	-18.84
				1	5	21.81	13.66	15.81	34.77	-18.96
				3	2	21.85	13.70	15.85	34.77	-18.92
				6	0	20.81	12.66	14.81	34.77	-19.96
	23017	699.7	64QAM	1	0	21.30	13.15	15.30	34.77	-19.47
				1	5	21.16	13.01	15.16	34.77	-19.61
				3	2	21.35	13.20	15.35	34.77	-19.42
				6	0	20.37	12.22	14.37	34.77	-20.4
	23095	707.5	64QAM	1	0	21.25	13.10	15.25	34.77	-19.52
				1	5	21.23	13.08	15.23	34.77	-19.54
				3	2	21.28	13.13	15.28	34.77	-19.49
				6	0	20.32	12.17	14.32	34.77	-20.45
	23173	715.5	64QAM	1	0	21.30	13.15	15.30	34.77	-19.47
				1	5	21.29	13.14	15.29	34.77	-19.48
				3	2	21.26	13.11	15.26	34.77	-19.51
				6	0	20.28	12.13	14.28	34.77	-20.49

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

Antenna gain (dBi) -6

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	23025	700.5	QPSK	1	0	22.81	14.66	16.81	34.77	-17.96
				1	14	22.94	14.79	16.94	34.77	-17.83
				8	4	22.16	14.01	16.16	34.77	-18.61
				15	0	21.92	13.77	15.92	34.77	-18.85
	23095	707.5	QPSK	1	0	23.14	14.99	17.14	34.77	-17.63
				1	14	23.29	15.14	17.29	34.77	-17.48
				8	4	22.17	14.02	16.17	34.77	-18.6
				15	0	21.91	13.76	15.91	34.77	-18.86
	23165	714.5	QPSK	1	0	22.94	14.79	16.94	34.77	-17.83
				1	14	23.17	15.02	17.17	34.77	-17.6
				8	4	22.16	14.01	16.16	34.77	-18.61
				15	0	21.99	13.84	15.99	34.77	-18.78
	23025	700.5	16QAM	1	0	22.31	14.16	16.31	34.77	-18.46
				1	14	22.23	14.08	16.23	34.77	-18.54
				8	4	21.05	12.90	15.05	34.77	-19.72
				15	0	20.86	12.71	14.86	34.77	-19.91
	23095	707.5	16QAM	1	0	22.13	13.98	16.13	34.77	-18.64
				1	14	22.60	14.45	16.60	34.77	-18.17
				8	4	21.28	13.13	15.28	34.77	-19.49
				15	0	21.00	12.85	15.00	34.77	-19.77
	23165	714.5	16QAM	1	0	22.45	14.30	16.45	34.77	-18.32
				1	14	22.27	14.12	16.27	34.77	-18.5
				8	4	21.20	13.05	15.20	34.77	-19.57
				15	0	20.98	12.83	14.98	34.77	-19.79
	23025	700.5	64QAM	1	0	21.44	13.29	15.44	34.77	-19.33
				1	14	21.28	13.13	15.28	34.77	-19.49
				8	4	20.11	11.96	14.11	34.77	-20.66
				15	0	20.06	11.91	14.06	34.77	-20.71
	23095	707.5	64QAM	1	0	21.30	13.15	15.30	34.77	-19.47
				1	14	21.64	13.49	15.64	34.77	-19.13
				8	4	20.33	12.18	14.33	34.77	-20.44
				15	0	20.18	12.03	14.18	34.77	-20.59
	23165	714.5	64QAM	1	0	21.65	13.50	15.65	34.77	-19.12
				1	14	21.44	13.29	15.44	34.77	-19.33
				8	4	20.42	12.27	14.42	34.77	-20.35
				15	0	20.13	11.98	14.13	34.77	-20.64

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

Antenna gain (dBi) -6

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23035	701.5	QPSK	1	0	22.74	14.59	16.74	34.77	-18.03
				1	24	22.95	14.80	16.95	34.77	-17.82
				12	6	22.11	13.96	16.11	34.77	-18.66
				25	0	21.90	13.75	15.90	34.77	-18.87
	23095	707.5	QPSK	1	0	23.15	15.00	17.15	34.77	-17.62
				1	24	23.30	15.15	17.30	34.77	-17.47
				12	6	22.15	14.00	16.15	34.77	-18.62
				25	0	21.90	13.75	15.90	34.77	-18.87
	23155	713.5	QPSK	1	0	22.97	14.82	16.97	34.77	-17.8
				1	24	23.20	15.05	17.20	34.77	-17.57
				12	6	22.15	14.00	16.15	34.77	-18.62
				25	0	22.04	13.89	16.04	34.77	-18.73
	23035	701.5	16QAM	1	0	22.34	14.19	16.34	34.77	-18.43
				1	24	22.19	14.04	16.19	34.77	-18.58
				12	6	21.03	12.88	15.03	34.77	-19.74
				25	0	20.90	12.75	14.90	34.77	-19.87
	23095	707.5	16QAM	1	0	22.17	14.02	16.17	34.77	-18.6
				1	24	22.56	14.41	16.56	34.77	-18.21
				12	6	21.22	13.07	15.22	34.77	-19.55
				25	0	20.94	12.79	14.94	34.77	-19.83
	23155	713.5	16QAM	1	0	22.47	14.32	16.47	34.77	-18.3
				1	24	22.30	14.15	16.30	34.77	-18.47
				12	6	21.20	13.05	15.20	34.77	-19.57
				25	0	20.98	12.83	14.98	34.77	-19.79
	23035	701.5	64QAM	1	0	21.51	13.36	15.51	34.77	-19.26
				1	24	21.33	13.18	15.33	34.77	-19.44
				12	6	20.17	12.02	14.17	34.77	-20.6
				25	0	20.06	11.91	14.06	34.77	-20.71
	23095	707.5	64QAM	1	0	21.23	13.08	15.23	34.77	-19.54
				1	24	21.68	13.53	15.68	34.77	-19.09
				12	6	20.39	12.24	14.39	34.77	-20.38
				25	0	20.14	11.99	14.14	34.77	-20.63
	23155	713.5	64QAM	1	0	21.62	13.47	15.62	34.77	-19.15
				1	24	21.51	13.36	15.51	34.77	-19.26
				12	6	20.38	12.23	14.38	34.77	-20.39
				25	0	20.12	11.97	14.12	34.77	-20.65

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

Antenna gain (dBi) -6

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	23060	704	QPSK	1	0	22.94	14.79	16.94	34.77	-17.83
				1	49	23.14	14.99	17.14	34.77	-17.63
				25	12	22.27	14.12	16.27	34.77	-18.5
				50	0	22.06	13.91	16.06	34.77	-18.71
	23095	707.5	QPSK	1	0	23.28	15.13	17.28	34.77	-17.49
				1	49	23.41	15.26	17.41	34.77	-17.36
				25	12	22.35	14.20	16.35	34.77	-18.42
				50	0	22.08	13.93	16.08	34.77	-18.69
	23130	711	QPSK	1	0	23.10	14.95	17.10	34.77	-17.67
				1	49	23.35	15.20	17.35	34.77	-17.42
				25	12	22.34	14.19	16.34	34.77	-18.43
				50	0	22.14	13.99	16.14	34.77	-18.63
	23060	704	16QAM	1	0	22.45	14.30	16.45	34.77	-18.32
				1	49	22.33	14.18	16.33	34.77	-18.44
				25	12	21.18	13.03	15.18	34.77	-19.59
				50	0	21.01	12.86	15.01	34.77	-19.76
	23095	707.5	16QAM	1	0	22.30	14.15	16.30	34.77	-18.47
				1	49	22.72	14.57	16.72	34.77	-18.05
				25	12	21.38	13.23	15.38	34.77	-19.39
				50	0	21.13	12.98	15.13	34.77	-19.64
	23130	711	16QAM	1	0	22.61	14.46	16.61	34.77	-18.16
				1	49	22.45	14.30	16.45	34.77	-18.32
				25	12	21.37	13.22	15.37	34.77	-19.4
				50	0	21.13	12.98	15.13	34.77	-19.64
	23060	704	64QAM	1	0	21.62	13.47	15.62	34.77	-19.15
				1	49	21.44	13.29	15.44	34.77	-19.33
				25	12	20.29	12.14	14.29	34.77	-20.48
				50	0	20.19	12.04	14.19	34.77	-20.58
	23095	707.5	64QAM	1	0	21.42	13.27	15.42	34.77	-19.35
				1	49	21.83	13.68	15.83	34.77	-18.94
				25	12	20.50	12.35	14.50	34.77	-20.27
				50	0	20.31	12.16	14.31	34.77	-20.46
	23130	711	64QAM	1	0	21.77	13.62	15.77	34.77	-19
				1	49	21.64	13.49	15.64	34.77	-19.13
				25	12	20.54	12.39	14.54	34.77	-20.23
				50	0	20.27	12.12	14.27	34.77	-20.5

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

Antenna gain (dBi) -8.7

LTE Band 13_Uplink frequency band : 777 to 787 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23205	779.5	QPSK	1	0	23.04	12.19	14.34	34.77	-20.43
				1	24	22.92	12.07	14.22	34.77	-20.55
				12	6	21.64	10.79	12.94	34.77	-21.83
				25	0	21.59	10.74	12.89	34.77	-21.88
	23230	782	QPSK	1	0	23.08	12.23	14.38	34.77	-20.39
				1	24	22.93	12.08	14.23	34.77	-20.54
				12	6	21.57	10.72	12.87	34.77	-21.9
				25	0	21.47	10.62	12.77	34.77	-22
	23255	784.5	QPSK	1	0	22.85	12.00	14.15	34.77	-20.62
				1	24	22.77	11.92	14.07	34.77	-20.7
				12	6	21.73	10.88	13.03	34.77	-21.74
				25	0	21.51	10.66	12.81	34.77	-21.96
	23205	779.5	16QAM	1	0	21.92	11.07	13.22	34.77	-21.55
				1	24	21.51	10.66	12.81	34.77	-21.96
				12	6	20.56	9.71	11.86	34.77	-22.91
				25	0	20.64	9.79	11.94	34.77	-22.83
	23230	782	16QAM	1	0	21.92	11.07	13.22	34.77	-21.55
				1	24	21.74	10.89	13.04	34.77	-21.73
				12	6	20.65	9.80	11.95	34.77	-22.82
				25	0	20.71	9.86	12.01	34.77	-22.76
	23255	784.5	16QAM	1	0	21.73	10.88	13.03	34.77	-21.74
				1	24	21.86	11.01	13.16	34.77	-21.61
				12	6	20.58	9.73	11.88	34.77	-22.89
				25	0	20.53	9.68	11.83	34.77	-22.94
	23205	779.5	64QAM	1	0	21.41	10.56	12.71	34.77	-22.06
				1	24	21.03	10.18	12.33	34.77	-22.44
				12	6	19.88	9.03	11.18	34.77	-23.59
				25	0	19.78	8.93	11.08	34.77	-23.69
	23230	782	64QAM	1	0	21.35	10.50	12.65	34.77	-22.12
				1	24	21.26	10.41	12.56	34.77	-22.21
				12	6	19.96	9.11	11.26	34.77	-23.51
				25	0	19.90	9.05	11.20	34.77	-23.57
	23255	784.5	64QAM	1	0	21.16	10.31	12.46	34.77	-22.31
				1	24	21.43	10.58	12.73	34.77	-22.04
				12	6	20.05	9.20	11.35	34.77	-23.42
				25	0	19.87	9.02	11.17	34.77	-23.6

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

Antenna gain (dBi) -8.7

LTE Band 13_Uplink frequency band : 777 to 787 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	23230	782	QPSK	1	0	23.07	12.22	14.37	34.77	-20.4
				1	49	22.91	12.06	14.21	34.77	-20.56
				25	12	22.10	11.25	13.40	34.77	-21.37
				50	0	21.93	11.08	13.23	34.77	-21.54
	23230	782	16QAM	1	0	22.32	11.47	13.62	34.77	-21.15
				1	49	22.59	11.74	13.89	34.77	-20.88
				25	12	21.18	10.33	12.48	34.77	-22.29
				50	0	20.89	10.04	12.19	34.77	-22.58
	23230	782	64QAM	1	0	21.43	10.58	12.73	34.77	-22.04
				1	49	21.77	10.92	13.07	34.77	-21.7
				25	12	20.33	9.48	11.63	34.77	-23.14
				50	0	20.03	9.18	11.33	34.77	-23.44

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

Antenna gain (dBi) -6

LTE Band 17_Uplink frequency band : 704 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23755	706.5	QPSK	1	0	22.99	14.84	16.99	34.77	-17.78
				1	24	22.99	14.84	16.99	34.77	-17.78
				12	6	22.14	13.99	16.14	34.77	-18.63
				25	0	22.02	13.87	16.02	34.77	-18.75
	23790	710	QPSK	1	0	23.34	15.19	17.34	34.77	-17.43
				1	24	23.38	15.23	17.38	34.77	-17.39
				12	6	22.13	13.98	16.13	34.77	-18.64
				25	0	21.93	13.78	15.93	34.77	-18.84
	23825	713.5	QPSK	1	0	23.08	14.93	17.08	34.77	-17.69
				1	24	23.08	14.93	17.08	34.77	-17.69
				12	6	22.16	14.01	16.16	34.77	-18.61
				25	0	22.01	13.86	16.01	34.77	-18.76
	23755	706.5	16QAM	1	0	22.43	14.28	16.43	34.77	-18.34
				1	24	22.75	14.60	16.75	34.77	-18.02
				12	6	21.18	13.03	15.18	34.77	-19.59
				25	0	21.02	12.87	15.02	34.77	-19.75
	23790	710	16QAM	1	0	22.33	14.18	16.33	34.77	-18.44
				1	24	22.70	14.55	16.70	34.77	-18.07
				12	6	21.24	13.09	15.24	34.77	-19.53
				25	0	20.99	12.84	14.99	34.77	-19.78
	23825	713.5	16QAM	1	0	22.20	14.05	16.20	34.77	-18.57
				1	24	22.61	14.46	16.61	34.77	-18.16
				12	6	21.19	13.04	15.19	34.77	-19.58
				25	0	20.96	12.81	14.96	34.77	-19.81
	23755	706.5	64QAM	1	0	21.57	13.42	15.57	34.77	-19.2
				1	24	21.71	13.56	15.71	34.77	-19.06
				12	6	20.38	12.23	14.38	34.77	-20.39
				25	0	20.27	12.12	14.27	34.77	-20.5
	23790	710	64QAM	1	0	21.52	13.37	15.52	34.77	-19.25
				1	24	21.83	13.68	15.83	34.77	-18.94
				12	6	20.37	12.22	14.37	34.77	-20.4
				25	0	20.08	11.93	14.08	34.77	-20.69
	23825	713.5	64QAM	1	0	21.27	13.12	15.27	34.77	-19.5
				1	24	21.73	13.58	15.73	34.77	-19.04
				12	6	20.35	12.20	14.35	34.77	-20.42
				25	0	20.10	11.95	14.10	34.77	-20.67

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

Antenna gain (dBi) -6

LTE Band 17_Uplink frequency band : 704 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	23780	709	QPSK	1	0	23.10	14.95	17.10	34.77	-17.67
				1	49	23.14	14.99	17.14	34.77	-17.63
				25	12	22.32	14.17	16.32	34.77	-18.45
				50	0	22.14	13.99	16.14	34.77	-18.63
	23790	710	QPSK	1	0	23.48	15.33	17.48	34.77	-17.29
				1	49	23.49	15.34	17.49	34.77	-17.28
				25	12	22.31	14.16	16.31	34.77	-18.46
				50	0	22.11	13.96	16.11	34.77	-18.66
	23800	711	QPSK	1	0	23.19	15.04	17.19	34.77	-17.58
				1	49	23.21	15.06	17.21	34.77	-17.56
				25	12	22.27	14.12	16.27	34.77	-18.5
				50	0	22.13	13.98	16.13	34.77	-18.64
	23780	709	16QAM	1	0	22.62	14.47	16.62	34.77	-18.15
				1	49	22.87	14.72	16.87	34.77	-17.9
				25	12	21.37	13.22	15.37	34.77	-19.4
				50	0	21.20	13.05	15.20	34.77	-19.57
	23790	710	16QAM	1	0	22.52	14.37	16.52	34.77	-18.25
				1	49	22.82	14.67	16.82	34.77	-17.95
				25	12	21.38	13.23	15.38	34.77	-19.39
				50	0	21.14	12.99	15.14	34.77	-19.63
	23800	711	16QAM	1	0	22.31	14.16	16.31	34.77	-18.46
				1	49	22.72	14.57	16.72	34.77	-18.05
				25	12	21.30	13.15	15.30	34.77	-19.47
				50	0	21.14	12.99	15.14	34.77	-19.63
	23780	709	64QAM	1	0	21.75	13.60	15.75	34.77	-19.02
				1	49	21.89	13.74	15.89	34.77	-18.88
				25	12	20.49	12.34	14.49	34.77	-20.28
				50	0	20.38	12.23	14.38	34.77	-20.39
	23790	710	64QAM	1	0	21.66	13.51	15.66	34.77	-19.11
				1	49	21.97	13.82	15.97	34.77	-18.8
				25	12	20.52	12.37	14.52	34.77	-20.25
				50	0	20.24	12.09	14.24	34.77	-20.53
	23800	711	64QAM	1	0	21.42	13.27	15.42	34.77	-19.35
				1	49	21.88	13.73	15.88	34.77	-18.89
				25	12	20.45	12.30	14.45	34.77	-20.32
				50	0	20.26	12.11	14.26	34.77	-20.51

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

Antenna gain (dBi) -2.4

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	37775	2572.5	QPSK	1	0	22.63	20.23	33	-12.77
				1	24	22.70	20.30	33	-12.7
				12	6	21.99	19.59	33	-13.41
				25	0	21.82	19.42	33	-13.58
	38000	2595	QPSK	1	0	22.95	20.55	33	-12.45
				1	24	22.91	20.51	33	-12.49
				12	6	22.00	19.60	33	-13.4
				25	0	21.79	19.39	33	-13.61
	38225	2617.5	QPSK	1	0	22.91	20.51	33	-12.49
				1	24	22.70	20.30	33	-12.7
				12	6	22.03	19.63	33	-13.37
				25	0	21.84	19.44	33	-13.56
	37775	2572.5	16QAM	1	0	21.98	19.58	33	-13.42
				1	24	22.04	19.64	33	-13.36
				12	6	20.99	18.59	33	-14.41
				25	0	20.80	18.40	33	-14.6
	38000	2595	16QAM	1	0	22.16	19.76	33	-13.24
				1	24	21.91	19.51	33	-13.49
				12	6	21.08	18.68	33	-14.32
				25	0	20.85	18.45	33	-14.55
	38225	2617.5	16QAM	1	0	22.19	19.79	33	-13.21
				1	24	22.16	19.76	33	-13.24
				12	6	21.01	18.61	33	-14.39
				25	0	20.79	18.39	33	-14.61
	37775	2572.5	64QAM	1	0	21.49	19.09	33	-13.91
				1	24	21.48	19.08	33	-13.92
				12	6	20.48	18.08	33	-14.92
				25	0	20.18	17.78	33	-15.22
	38000	2595	64QAM	1	0	21.68	19.28	33	-13.72
				1	24	21.39	18.99	33	-14.01
				12	6	20.56	18.16	33	-14.84
				25	0	20.27	17.87	33	-15.13
	38225	2617.5	64QAM	1	0	21.68	19.28	33	-13.72
				1	24	21.64	19.24	33	-13.76
				12	6	20.59	18.19	33	-14.81
				25	0	20.31	17.91	33	-15.09

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

Antenna gain (dBi) -2.4

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	37800	2575	QPSK	1	0	22.63	20.23	33	-12.77
				1	49	22.73	20.33	33	-12.67
				25	12	22.04	19.64	33	-13.36
				50	0	21.82	19.42	33	-13.58
	38000	2595	QPSK	1	0	22.92	20.52	33	-12.48
				1	49	22.96	20.56	33	-12.44
				25	12	22.03	19.63	33	-13.37
				50	0	21.73	19.33	33	-13.67
	38200	2615	QPSK	1	0	22.85	20.45	33	-12.55
				1	49	22.71	20.31	33	-12.69
				25	12	21.94	19.54	33	-13.46
				50	0	21.77	19.37	33	-13.63
	37800	2575	16QAM	1	0	22.02	19.62	33	-13.38
				1	49	22.00	19.60	33	-13.4
				25	12	20.95	18.55	33	-14.45
				50	0	20.78	18.38	33	-14.62
	38000	2595	16QAM	1	0	22.15	19.75	33	-13.25
				1	49	21.92	19.52	33	-13.48
				25	12	21.09	18.69	33	-14.31
				50	0	20.86	18.46	33	-14.54
	38200	2615	16QAM	1	0	22.17	19.77	33	-13.23
				1	49	22.13	19.73	33	-13.27
				25	12	21.01	18.61	33	-14.39
				50	0	20.77	18.37	33	-14.63
	37800	2575	64QAM	1	0	21.44	19.04	33	-13.96
				1	49	21.46	19.06	33	-13.94
				25	12	20.53	18.13	33	-14.87
				50	0	20.16	17.76	33	-15.24
	38000	2595	64QAM	1	0	21.68	19.28	33	-13.72
				1	49	21.46	19.06	33	-13.94
				25	12	20.59	18.19	33	-14.81
				50	0	20.28	17.88	33	-15.12
	38200	2615	64QAM	1	0	21.64	19.24	33	-13.76
				1	49	21.70	19.30	33	-13.7
				25	12	20.57	18.17	33	-14.83
				50	0	20.32	17.92	33	-15.08

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

Antenna gain (dBi) -2.4

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	37825	2577.5	QPSK	1	0	22.70	20.30	33	-12.7
				1	74	22.71	20.31	33	-12.69
				36	19	22.01	19.61	33	-13.39
				75	0	21.78	19.38	33	-13.62
	38000	2595	QPSK	1	0	22.88	20.48	33	-12.52
				1	74	22.94	20.54	33	-12.46
				36	19	21.97	19.57	33	-13.43
				75	0	21.74	19.34	33	-13.66
	38175	2612.5	QPSK	1	0	22.90	20.50	33	-12.5
				1	74	22.72	20.32	33	-12.68
				36	19	21.96	19.56	33	-13.44
				75	0	21.82	19.42	33	-13.58
	37825	2577.5	16QAM	1	0	22.01	19.61	33	-13.39
				1	74	22.01	19.61	33	-13.39
				36	19	20.96	18.56	33	-14.44
				75	0	20.73	18.33	33	-14.67
	38000	2595	16QAM	1	0	22.19	19.79	33	-13.21
				1	74	21.95	19.55	33	-13.45
				36	19	21.14	18.74	33	-14.26
				75	0	20.85	18.45	33	-14.55
	38175	2612.5	16QAM	1	0	22.19	19.79	33	-13.21
				1	74	22.20	19.80	33	-13.2
				36	19	21.04	18.64	33	-14.36
				75	0	20.85	18.45	33	-14.55
	37825	2577.5	64QAM	1	0	21.49	19.09	33	-13.91
				1	74	21.42	19.02	33	-13.98
				36	19	20.49	18.09	33	-14.91
				75	0	20.16	17.76	33	-15.24
	38000	2595	64QAM	1	0	21.61	19.21	33	-13.79
				1	74	21.43	19.03	33	-13.97
				36	19	20.53	18.13	33	-14.87
				75	0	20.33	17.93	33	-15.07
	38175	2612.5	64QAM	1	0	21.66	19.26	33	-13.74
				1	74	21.63	19.23	33	-13.77
				36	19	20.53	18.13	33	-14.87
				75	0	20.24	17.84	33	-15.16

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

Antenna gain (dBi) -2.4

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	37850	2580	QPSK	1	0	22.81	20.41	33	-12.59
				1	99	22.90	20.50	33	-12.5
				50	25	22.18	19.78	33	-13.22
				100	0	21.97	19.57	33	-13.43
	38000	2595	QPSK	1	0	23.06	20.66	33	-12.34
				1	99	23.07	20.67	33	-12.33
				50	25	22.16	19.76	33	-13.24
				100	0	21.93	19.53	33	-13.47
	38150	2610	QPSK	1	0	23.01	20.61	33	-12.39
				1	99	22.86	20.46	33	-12.54
				50	25	22.14	19.74	33	-13.26
				100	0	21.96	19.56	33	-13.44
	37850	2580	16QAM	1	0	22.13	19.73	33	-13.27
				1	99	22.18	19.78	33	-13.22
				50	25	21.15	18.75	33	-14.25
				100	0	20.93	18.53	33	-14.47
	38000	2595	16QAM	1	0	22.31	19.91	33	-13.09
				1	99	22.09	19.69	33	-13.31
				50	25	21.25	18.85	33	-14.15
				100	0	20.96	18.56	33	-14.44
	38150	2610	16QAM	1	0	22.36	19.96	33	-13.04
				1	99	22.32	19.92	33	-13.08
				50	25	21.19	18.79	33	-14.21
				100	0	20.96	18.56	33	-14.44
	37850	2580	64QAM	1	0	21.60	19.20	33	-13.8
				1	99	21.61	19.21	33	-13.79
				50	25	20.63	18.23	33	-14.77
				100	0	20.35	17.95	33	-15.05
	38000	2595	64QAM	1	0	21.80	19.40	33	-13.6
				1	99	21.57	19.17	33	-13.83
				50	25	20.71	18.31	33	-14.69
				100	0	20.44	18.04	33	-14.96
	38150	2610	64QAM	1	0	21.82	19.42	33	-13.58
				1	99	21.82	19.42	33	-13.58
				50	25	20.69	18.29	33	-14.71
				100	0	20.42	18.02	33	-14.98

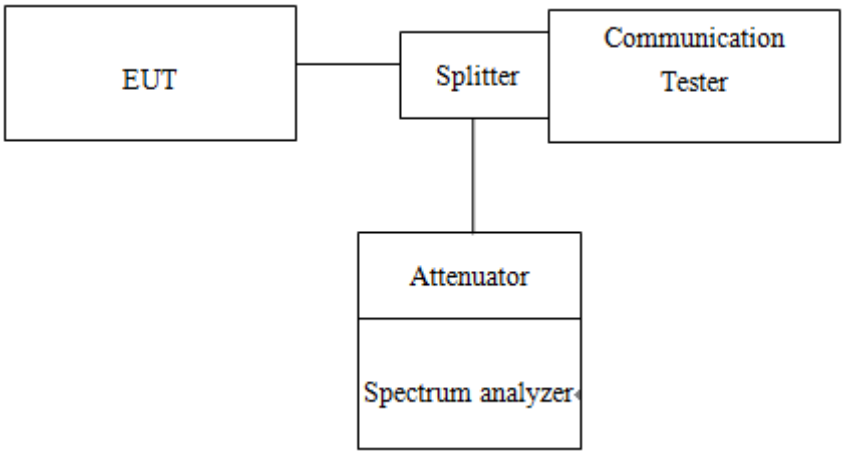
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

7. OCCUPIED BANDWIDTH MEASUREMENT

7.1. Standard Applicable

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power.

7.2. Test Set-up



7.3. Measurement Procedure

99% &26dB Bandwidth with detector peak

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW, -26dBc display line was placed on the screen (or 26dB bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. Then set RBW to 99% bandwidth, RBW= 1%, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

99% Bandwidth with detector sample

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% ~ 5% of emission BW, VBW= 3 times RBW, -20dBc display line was placed on the screen (or 20dB bandwidth). Set RBW to 99% bandwidth, RBW= 1% ~ 5%, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

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

7.4. Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/02/2019	05/01/2020
Radio Communication Analyzer	Anritsu	MT8815B	6200711454	04/01/2019	03/31/2020
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	04/01/2019	03/31/2020
DC Power Supply	Agilent	E3640A	MY52410006	12/04/2018	12/03/2019
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2019	01/01/2020
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2019	01/01/2020
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	01/02/2019	01/01/2020

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

7.5. Measurement Result

Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		GSM 850	GPRS 850	GPRS 850	GPRS 850
824.2	128	0.24205	0.24453	0.321	0.315
836.6	190	0.24416	0.24680	0.323	0.319
848.8	251	0.24172	0.24088	0.316	0.318

Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		GSM 1900	GPRS 1900	GSM 1900	GPRS 1900
1850.2	512	0.24215	0.24045	0.316	0.311
1880.0	661	0.24134	0.24509	0.313	0.315
1909.8	810	0.24167	0.24133	0.318	0.314

Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA II	HSDPA II	HSUPA II	WCDMA II	HSDPA II	HSUPA II
1852.40	9262	4.14780	4.15050	4.14360	4.699	4.709	4.708
1880.00	9400	4.14140	4.14980	4.14920	4.690	4.705	4.720
1907.60	9538	4.14740	4.14600	4.14480	4.705	4.695	4.720

Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA IV	HSDPA IV	HSUPA IV	WCDMA IV	HSDPA IV	HSUPA IV
1712.40	1312	4.14860	4.15340	4.15150	4.698	4.713	4.696
1732.60	1413	4.15000	4.14500	4.14430	4.717	4.716	4.702
1752.60	1513	4.13870	4.14940	4.14910	4.710	4.709	4.716

Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA V	HSDPA V	HSUPA V	WCDMA V	HSDPA V	HSUPA V
826.40	4132	4.13410	4.14150	4.13680	4.699	4.699	4.704
836.60	4183	4.12070	4.13070	4.13530	4.694	4.710	4.712
846.60	4233	4.11980	4.11750	4.12610	4.687	4.691	4.699

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

LTE BAND 2 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1850.7	18607	1.0948	1.0973	1.0973	1.236	1.242	1.245
1880.0	18900	1.0949	1.0974	1.0957	1.239	1.240	1.234
1909.3	19193	1.0944	1.0972	1.0953	1.235	1.241	1.240

LTE BAND 2 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1851.5	18615	2.6966	2.7009	2.7014	2.985	3.017	3.001
1880.0	18900	2.6984	2.7009	2.7038	3.002	3.014	3.001
1908.5	19185	2.6975	2.7021	2.7034	3.000	3.019	3.000

LTE BAND 2 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1852.5	18625	4.5013	4.5037	4.5100	4.985	4.999	4.969
1880.0	18900	4.5018	4.5076	4.5009	4.990	4.967	4.979
1907.5	19175	4.5038	4.5050	4.5150	4.983	5.000	4.989

LTE BAND 2 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1855.0	18650	8.9906	8.9646	8.9848	9.866	9.797	9.830
1880.0	18900	9.0096	8.9636	8.9894	9.827	9.796	9.821
1905.0	19150	9.0221	8.9698	8.9900	9.841	9.782	9.835

LTE BAND 2 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1857.5	18675	13.480	13.459	13.445	14.672	14.671	14.732
1880.0	18900	13.485	13.462	13.457	14.643	14.744	14.721
1902.5	19125	13.512	13.477	13.458	14.792	14.770	14.722

LTE BAND 2 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1860.0	18700	17.930	17.950	17.951	19.490	19.490	19.562
1880.0	18900	17.934	17.964	17.974	19.534	19.527	19.633
1900.0	19100	17.954	17.974	17.969	19.529	19.490	19.621

LTE BAND 4 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1710.7	19957	1.0951	1.0950	1.0967	1.238	1.242	1.236
1732.5	20175	1.0944	1.0959	1.0956	1.233	1.243	1.236
1754.3	20393	1.0938	1.0961	1.0953	1.239	1.240	1.237

LTE BAND 4 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1711.5	19965	2.6978	2.7022	2.7016	3.000	3.018	2.985
1732.5	20175	2.7000	2.7015	2.7020	3.011	3.014	2.996
1753.5	20385	2.6956	2.6968	2.7042	3.001	3.005	2.999

LTE BAND 4 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1712.5	19957	4.5033	4.5046	4.5101	4.980	4.962	4.978
1732.5	20175	4.4997	4.5044	4.5078	4.989	4.976	4.985
1752.5	20375	4.5045	4.5050	4.5126	5.001	4.970	4.979

LTE BAND 4 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1715.0	20000	9.0031	8.9704	8.9992	9.824	9.739	9.830
1732.5	20175	9.0072	8.9630	8.9868	9.857	9.798	9.856
1750.0	20350	8.9993	8.9580	8.9902	9.822	9.773	9.835

LTE BAND 4 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1717.5	20025	13.486	13.481	13.478	14.729	14.816	14.774
1732.5	20175	13.465	13.460	13.446	14.771	14.786	14.693
1747.5	20325	13.480	13.468	13.464	14.730	14.780	14.776

LTE BAND 4 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1720.0	20050	17.934	17.934	17.958	19.507	19.347	19.550
1732.5	20175	17.919	17.939	17.931	19.475	19.526	19.557
1745.0	20300	17.952	17.963	17.965	19.506	19.539	19.602

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

LTE BAND 5 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
824.7	20407	1.0951	1.0965	1.0956	1.236	1.244	1.237
836.5	20525	1.0955	1.0975	1.0955	1.236	1.245	1.230
848.3	20643	1.0932	1.0959	1.0933	1.239	1.238	1.235

LTE BAND 5 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
825.5	20415	2.7009	2.7007	2.7003	2.999	2.999	2.985
836.5	20525	2.6963	2.7002	2.7025	3.007	3.007	2.998
847.5	20635	2.6964	2.6961	2.6992	2.993	3.003	2.984

LTE BAND 5 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
826.5	20425	4.5028	4.5043	4.5147	4.975	4.959	4.986
836.5	20525	4.4996	4.5009	4.5080	4.989	4.981	4.986
846.5	20625	4.4883	4.4978	4.5063	4.886	4.971	4.985

LTE BAND 5 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
829.0	20450	9.0305	8.9758	9.0102	9.829	9.820	9.811
836.5	20525	8.9872	8.9454	8.9807	9.846	9.773	9.844
844.0	20600	9.0336	8.9711	9.0077	9.828	9.793	9.847

LTE BAND 7 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2502.5	20775	4.5006	4.5041	4.5137	4.987	4.992	5.001
2535.0	21100	4.5020	4.5038	4.5095	4.978	4.987	4.990
2567.5	21425	4.4986	4.5036	4.5143	4.985	4.980	4.974

LTE BAND 7 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2505.0	20800	9.0088	8.9621	8.9896	9.819	9.788	9.844
2535.0	21100	9.0101	8.9632	8.9926	9.838	9.779	9.843
2565.0	21400	8.9961	8.9622	8.9730	9.788	9.790	9.838

LTE BAND 7 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2507.5	20825	13.481	13.458	13.443	14.729	14.795	14.680
2535.0	21100	13.477	13.466	13.444	14.696	14.701	14.753
2562.5	21375	13.492	13.465	13.453	14.667	14.848	14.707

LTE BAND 7 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2510.0	20850	17.921	17.943	17.950	19.399	19.519	19.534
2535.0	21100	17.937	17.963	17.954	19.491	19.471	19.530
2560.0	21350	17.927	17.968	17.970	19.495	19.499	19.493

LTE BAND 12 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
699.7	23017	1.0948	1.1104	1.0999	1.222	1.242	1.211
707.5	23095	1.0904	1.0921	1.0968	1.220	1.221	1.207
715.3	23173	1.1177	1.1106	1.0974	1.213	1.205	1.226

LTE BAND 12 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
700.5	23025	2.6774	2.6759	2.6850	2.889	2.896	2.877
707.5	23095	2.6853	2.6820	2.6903	2.921	2.915	2.881
714.5	23165	2.6708	2.6781	2.6830	2.900	2.893	2.887

LTE BAND 12 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
701.5	23035	4.5012	4.5052	4.5122	5.000	4.993	4.982
707.5	23095	4.4526	4.4869	4.4613	4.804	4.859	4.784
713.5	23155	4.5016	4.4633	4.4591	4.958	4.786	4.793

LTE BAND 12 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
704.0	23060	9.0087	8.9297	8.9898	9.844	9.473	9.846
707.5	23095	9.0191	8.9568	8.9698	9.829	9.757	9.641
711.0	23130	9.0167	8.9233	8.9850	9.856	10.119	9.848

LTE BAND 13 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
779.5	23205	4.5025	4.5006	4.5058	4.992	4.874	4.974
782.0	23230	4.4995	4.5041	4.5103	5.005	4.997	4.982
784.5	23255	4.4980	4.4994	4.5029	4.998	4.965	4.972

LTE BAND 13 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
782.0	23230	9.015	8.957	8.985	9.830	9.764	9.837

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

LTE BAND 17 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
706.5	23755	4.4854	4.4807	4.4693	4.857	4.804	4.817
710.0	23790	4.4973	4.4717	4.4764	4.899	4.807	4.775
713.5	23825	4.4742	4.4729	4.4539	4.850	4.779	4.786

LTE BAND 17 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
709.0	23780	8.9767	8.9340	8.8840	9.494	9.557	9.442
710.0	23790	8.9546	8.8743	8.8822	9.492	9.441	9.413
711.0	23800	8.9602	8.9222	8.8863	9.553	9.476	9.551

LTE BAND 38 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2572.5	37775	4.5070	4.5001	4.5081	5.152	4.960	5.119
2595.0	38000	4.5033	4.5053	4.5102	5.207	4.972	5.186
2617.5	38225	4.5067	4.5033	4.5028	4.997	4.966	4.942

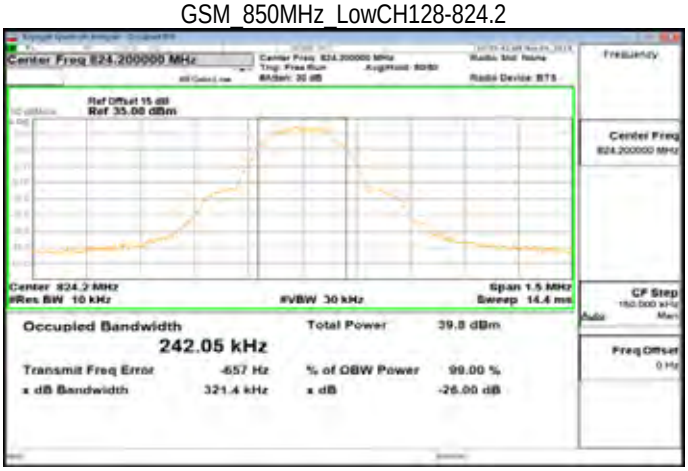
LTE BAND 38 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2575.0	37800	8.9753	8.9652	8.9786	9.798	9.782	9.811
2595.0	38000	8.9730	8.9628	8.9827	9.769	9.735	9.844
2615.0	38200	8.9814	8.9639	8.9847	9.741	9.820	9.858

LTE BAND 38 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2577.5	37825	13.485	13.476	13.451	14.671	14.801	14.631
2595.0	38000	13.479	13.485	13.445	14.608	14.724	14.651
2612.5	38175	13.484	13.486	13.453	14.670	14.739	14.760

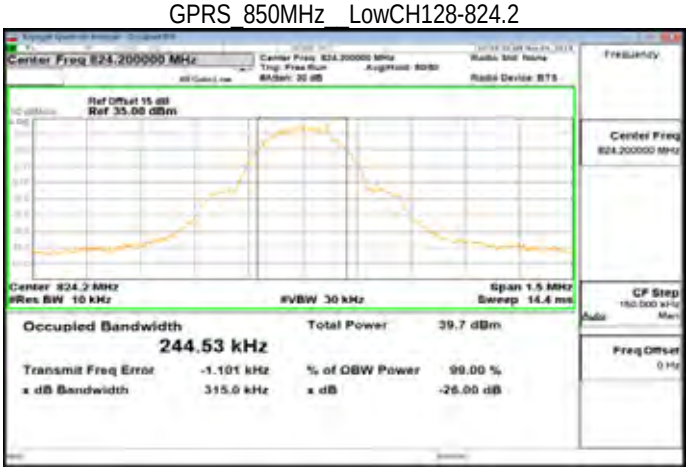
LTE BAND 38 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2580.0	37850	17.980	17.937	17.921	19.570	19.552	19.445
2595.0	38000	17.974	17.948	17.925	19.591	19.538	19.446
2610.0	38150	17.978	17.913	17.916	19.596	19.526	19.467

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

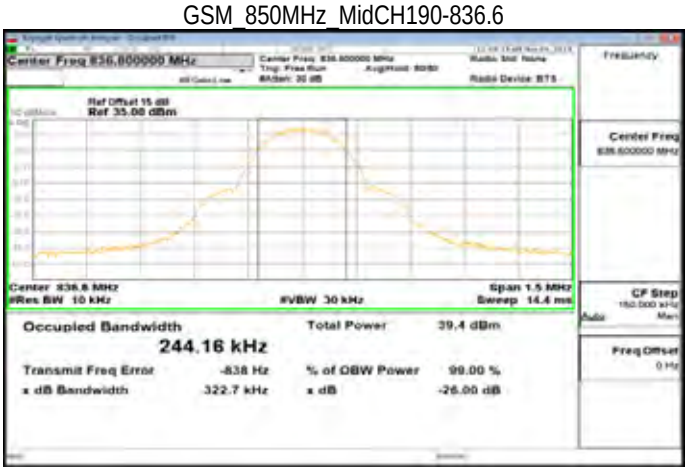
GSM_850MHz_LowCH128-824.2



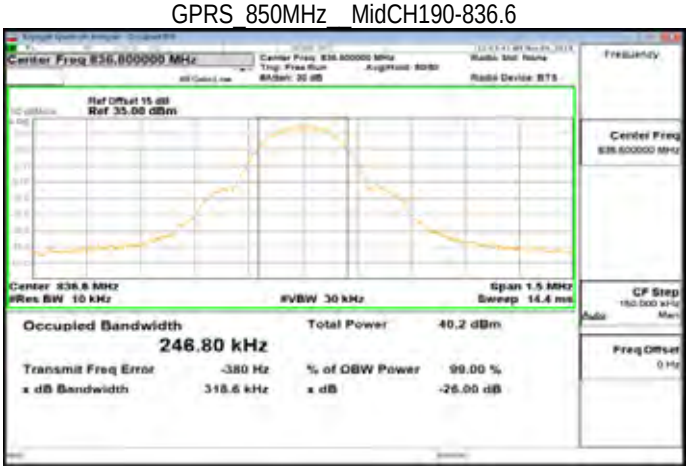
GPRS_850MHz__LowCH128-824.2



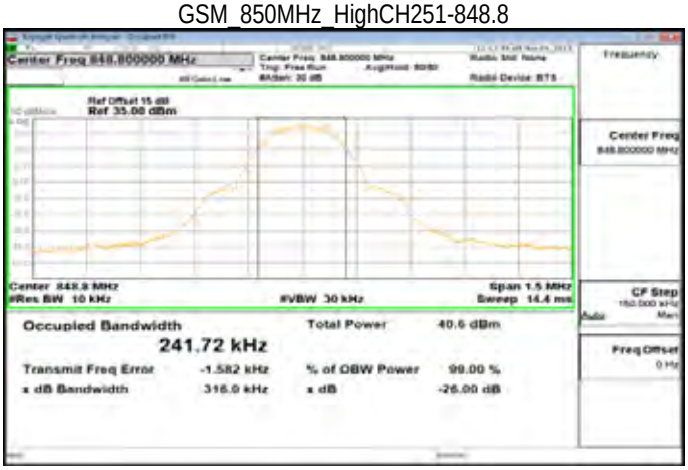
GSM_850MHz_MidCH190-836.6



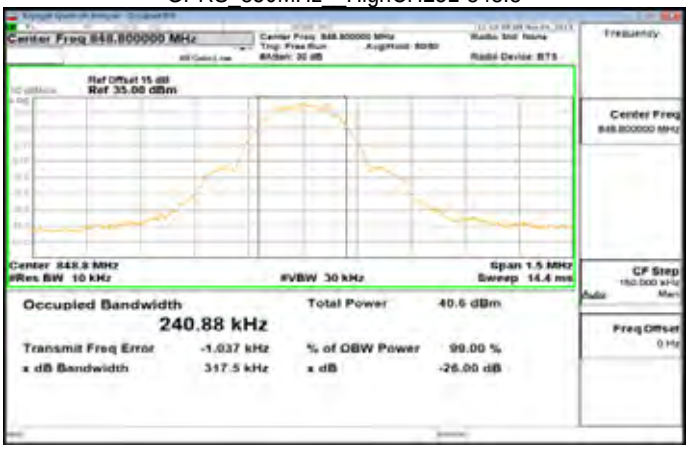
GPRS_850MHz__MidCH190-836.6



GSM_850MHz_HighCH251-848.8

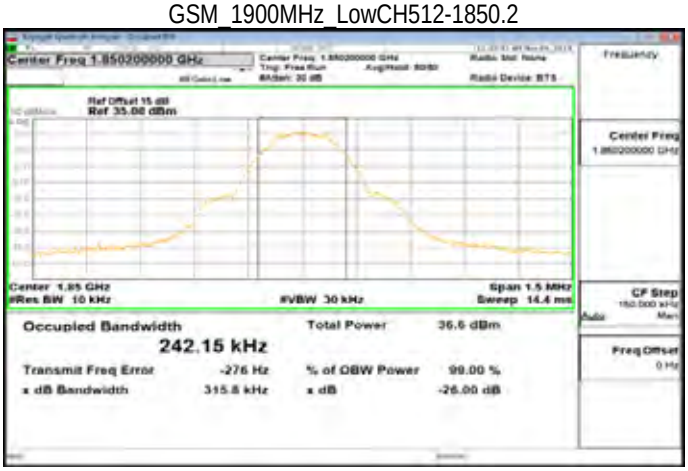


GPRS_850MHz__HighCH251-848.8

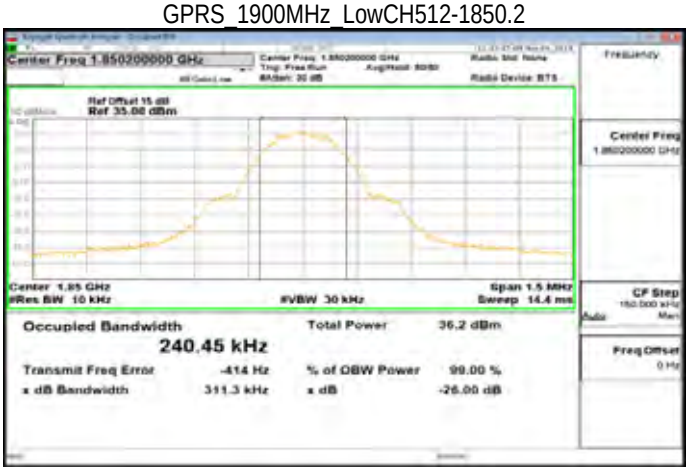


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

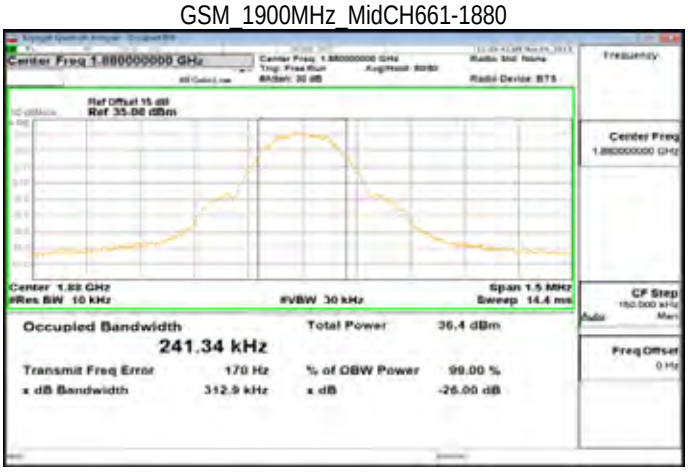
GSM_1900MHz_LowCH512-1850.2



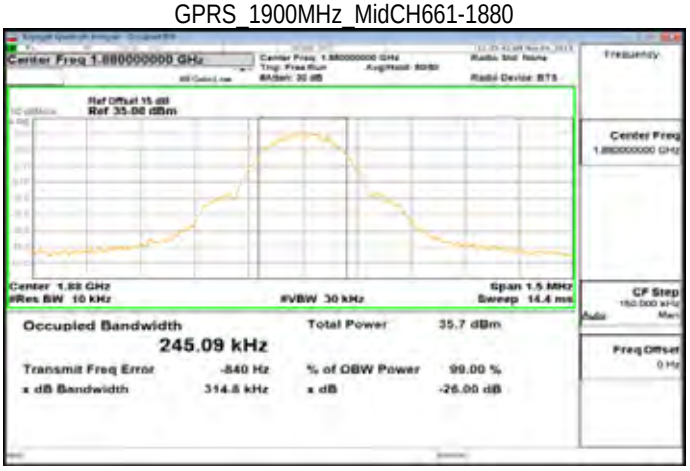
GPRS_1900MHz_LowCH512-1850.2



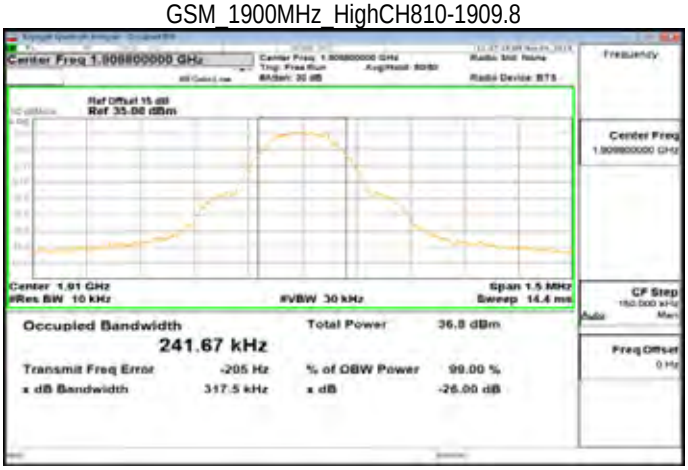
GSM_1900MHz_MidCH661-1880



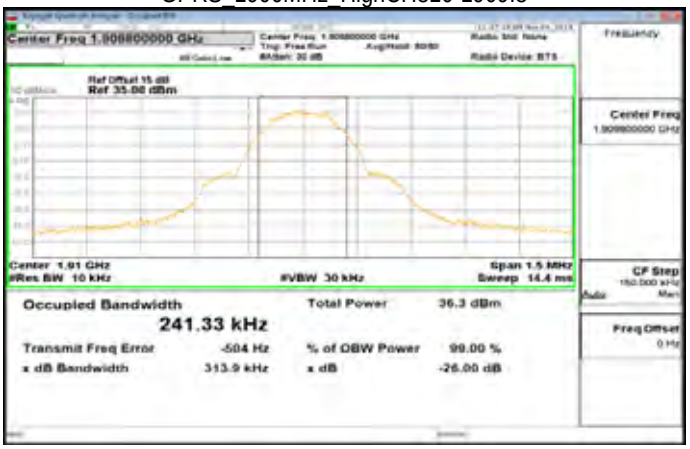
GPRS_1900MHz_MidCH661-1880



GSM_1900MHz_HighCH810-1909.8

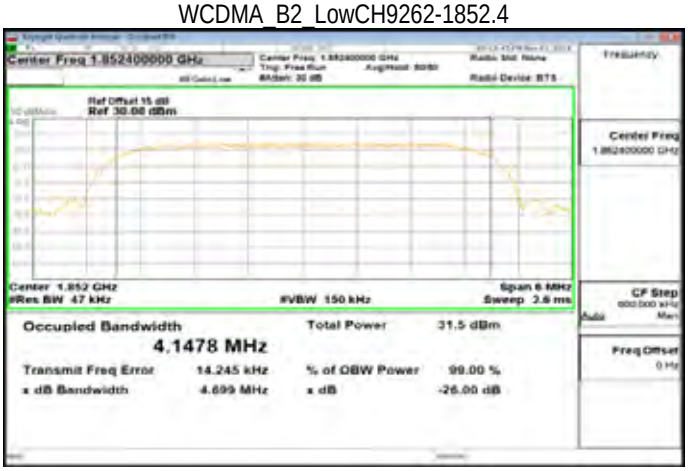


GPRS_1900MHz_HighCH810-1909.8

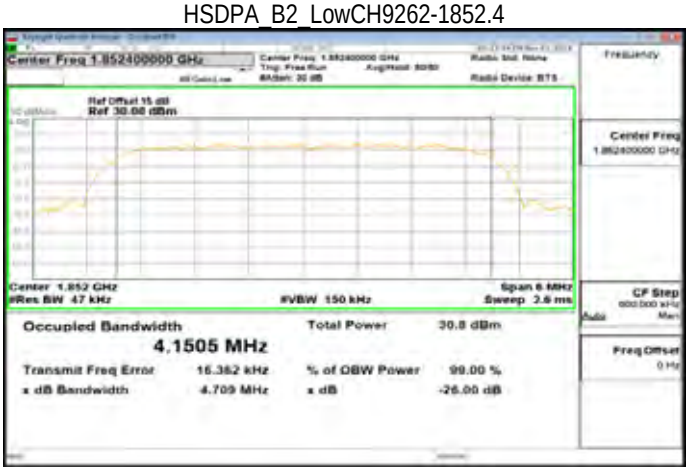


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

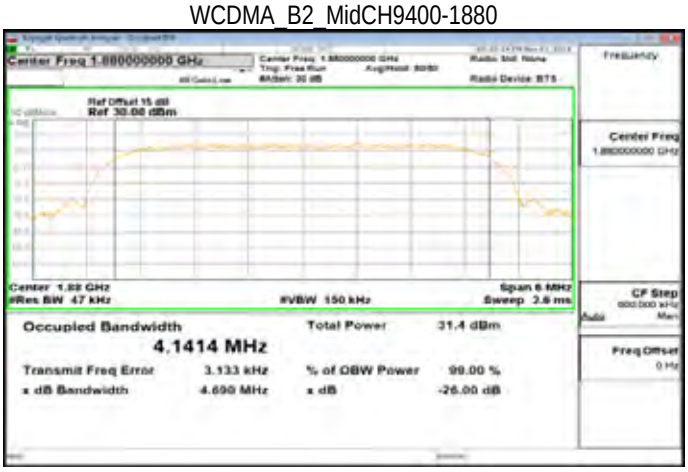
WCDMA_B2_LowCH9262-1852.4



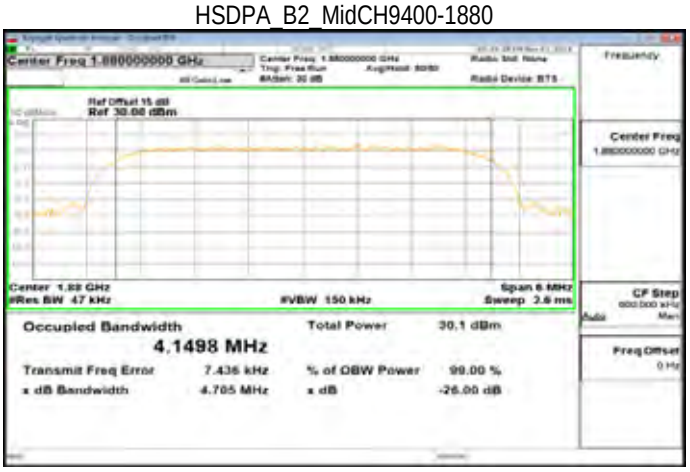
HSDPA_B2_LowCH9262-1852.4



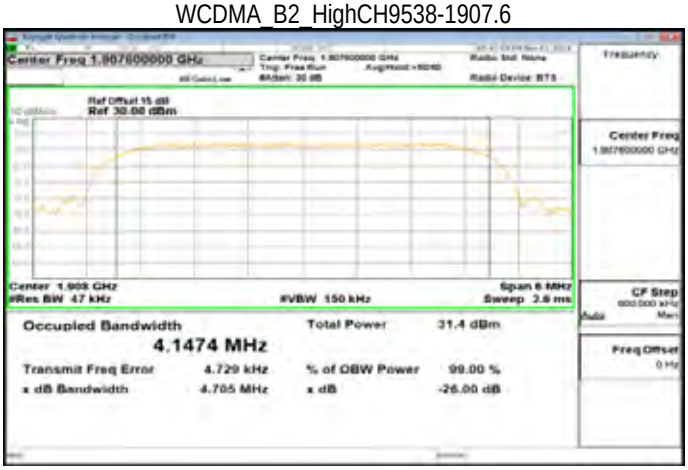
WCDMA_B2_MidCH9400-1880



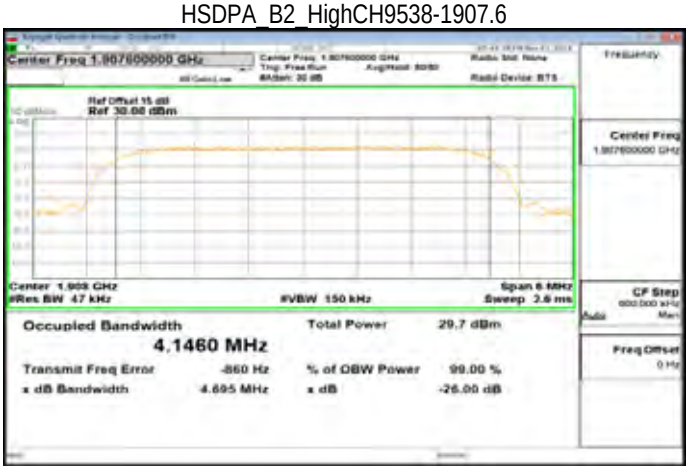
HSDPA_B2_MidCH9400-1880



WCDMA_B2_HighCH9538-1907.6

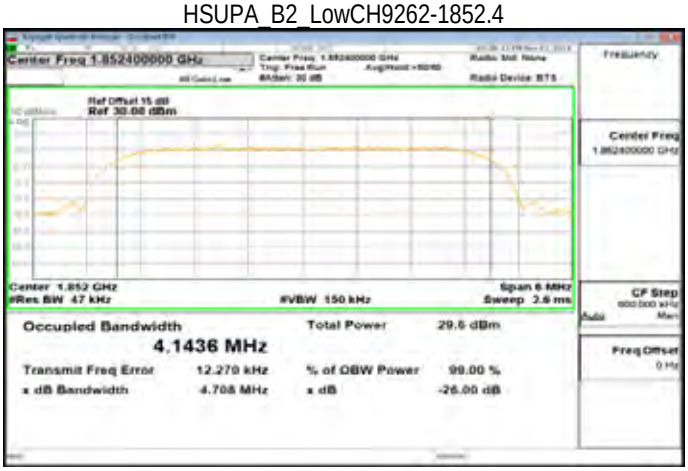


HSDPA_B2_HighCH9538-1907.6

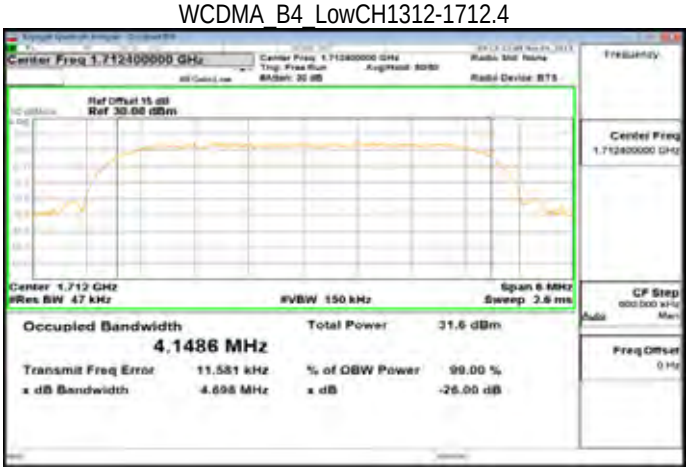


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

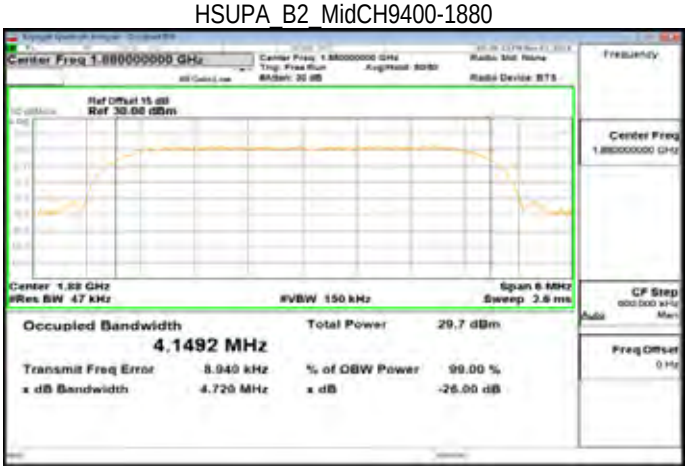
HSUPA_B2_LowCH9262-1852.4



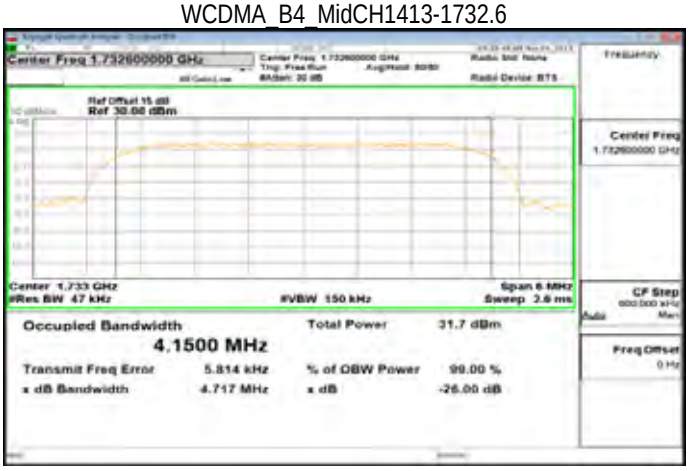
WCDMA_B4_LowCH1312-1712.4



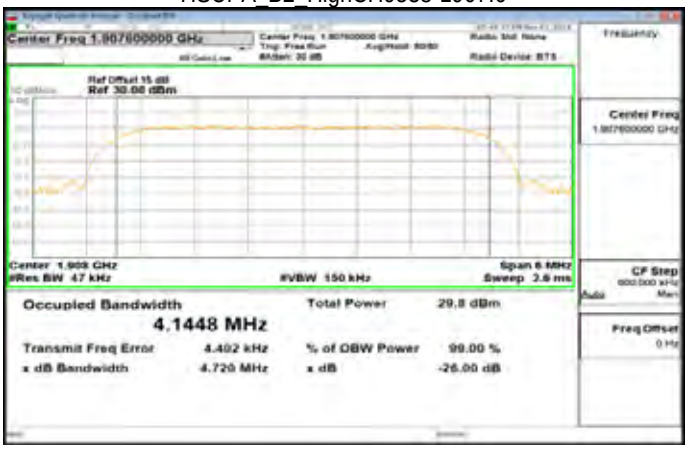
HSUPA_B2_MidCH9400-1880



WCDMA_B4_MidCH1413-1732.6



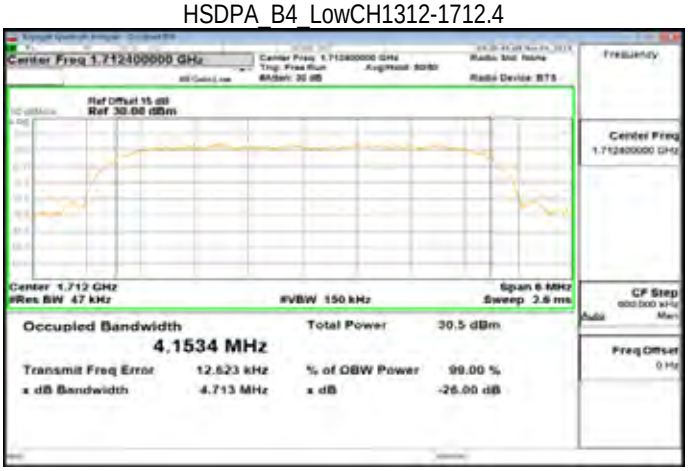
HSUPA_B2_HighCH9538-1907.6



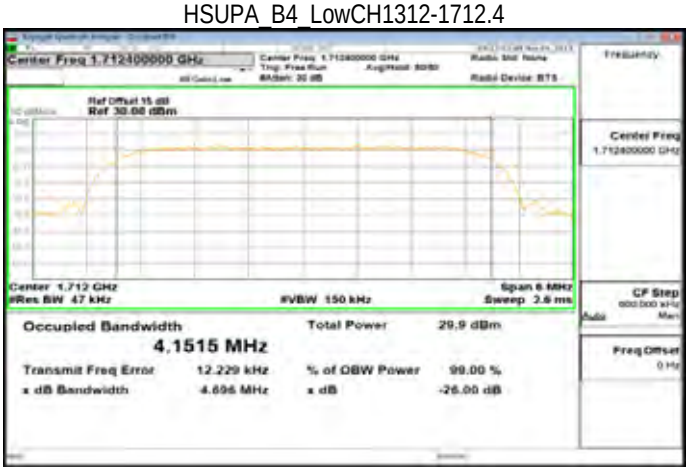
WCDMA_B4_HighCH1513-1752.6

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

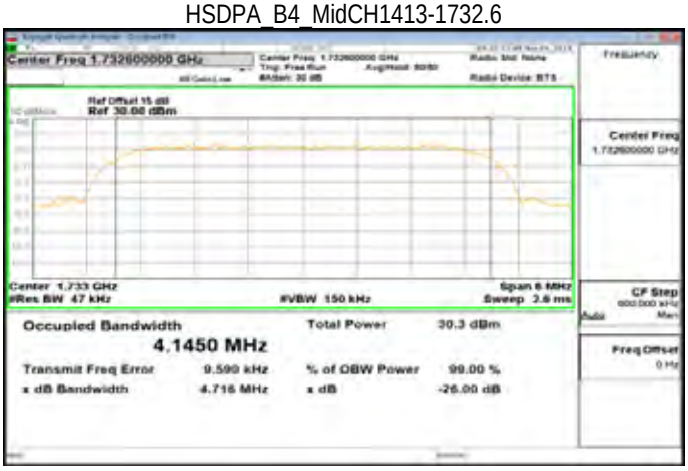
HSDPA_B4_LowCH1312-1712.4



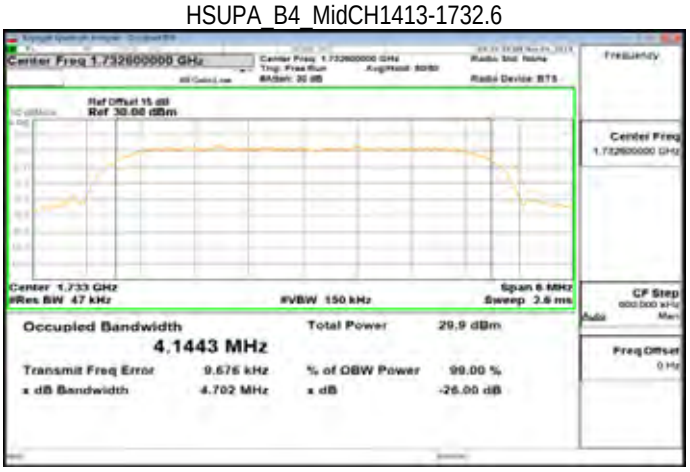
HSUPA_B4_LowCH1312-1712.4



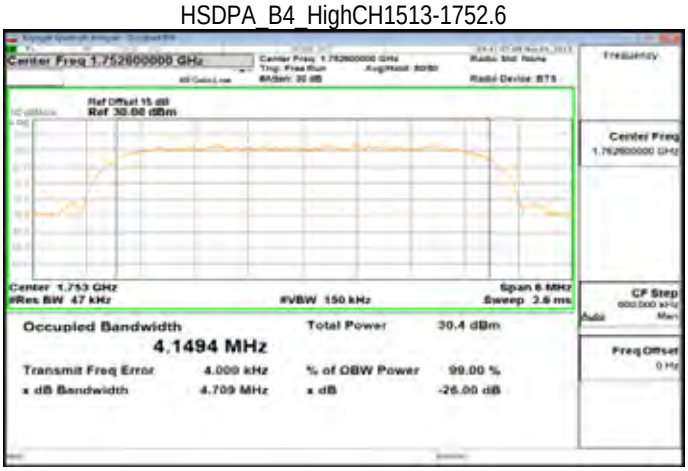
HSDPA_B4_MidCH1413-1732.6



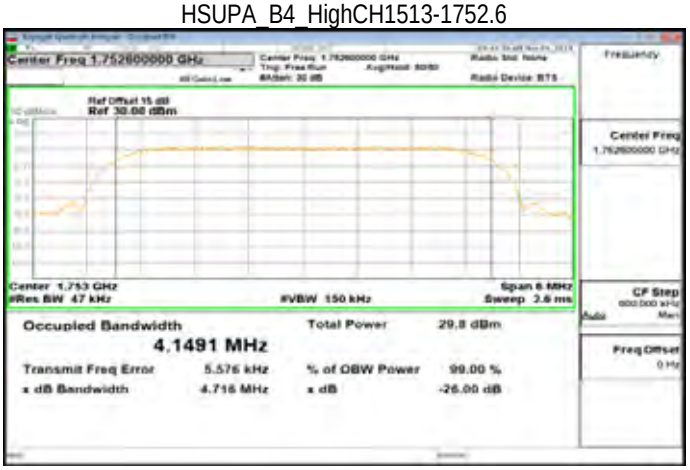
HSUPA_B4_MidCH1413-1732.6



HSDPA_B4_HighCH1513-1752.6

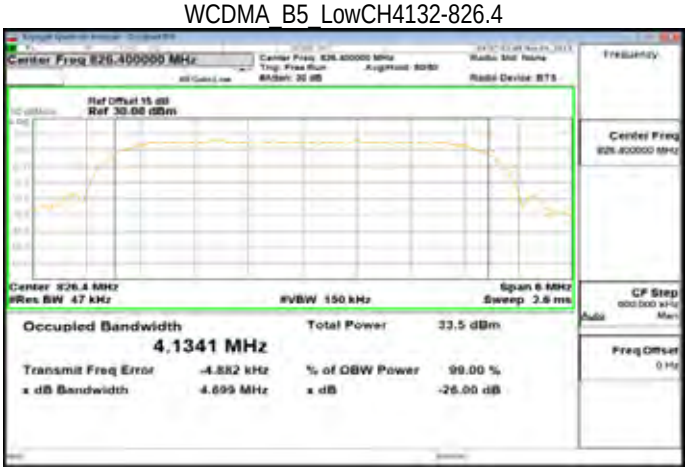


HSUPA_B4_HighCH1513-1752.6

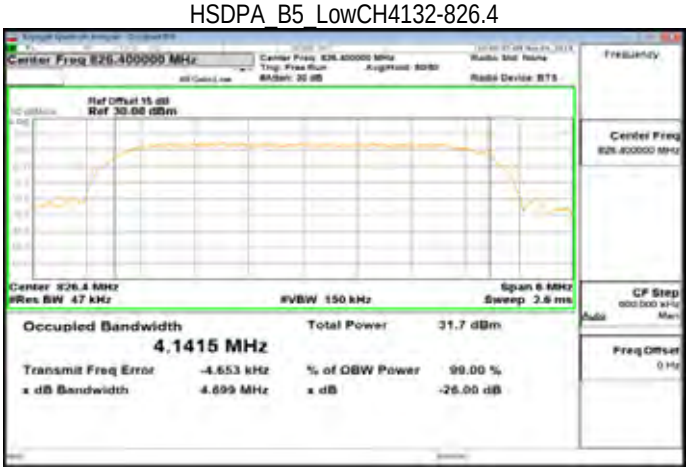


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

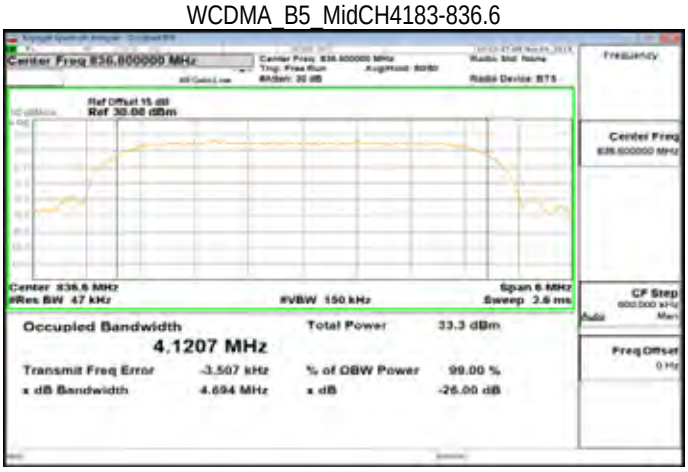
WCDMA_B5_LowCH4132-826.4



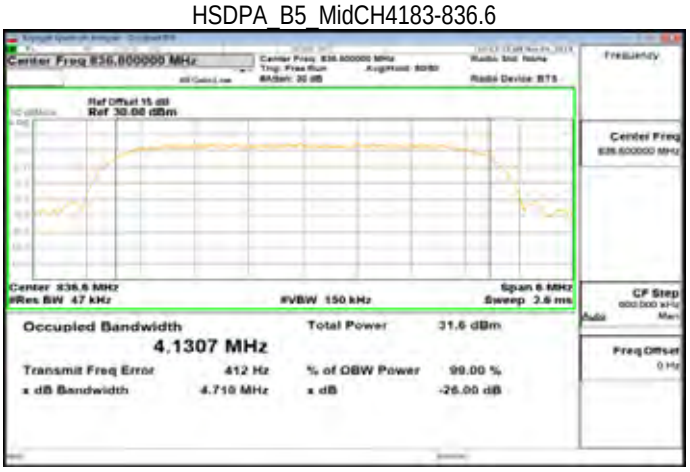
HSDPA_B5_LowCH4132-826.4



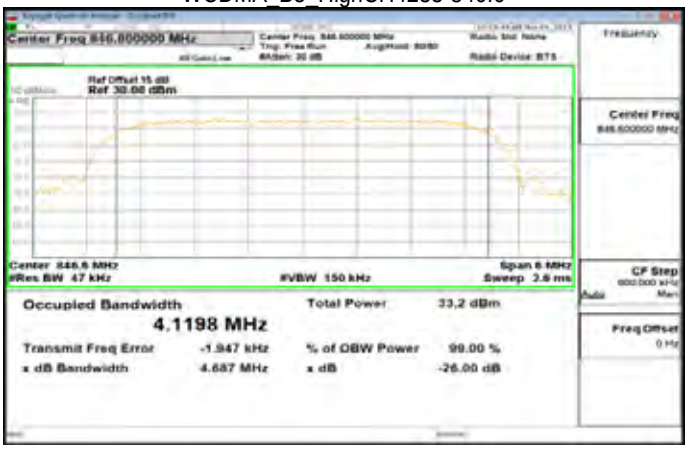
WCDMA_B5_MidCH4183-836.6



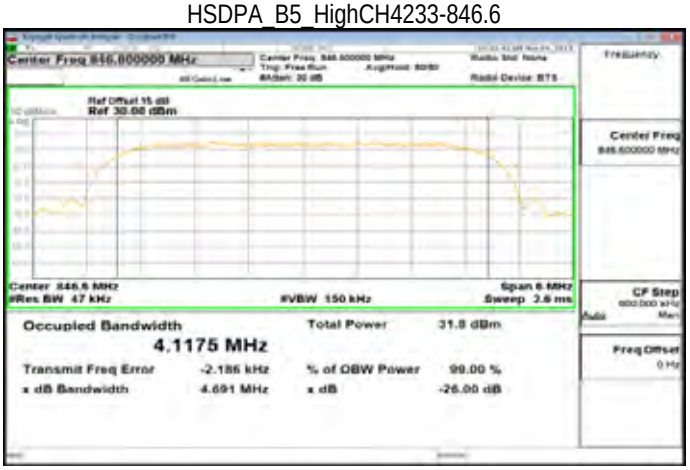
HSDPA_B5_MidCH4183-836.6



WCDMA_B5_HighCH4233-846.6

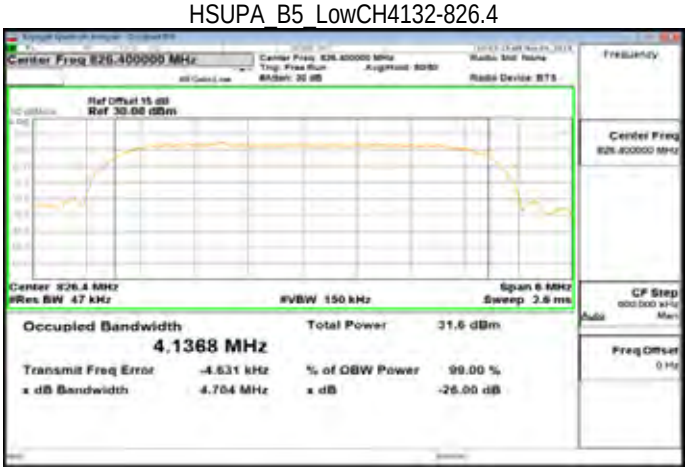


HSDPA_B5_HighCH4233-846.6

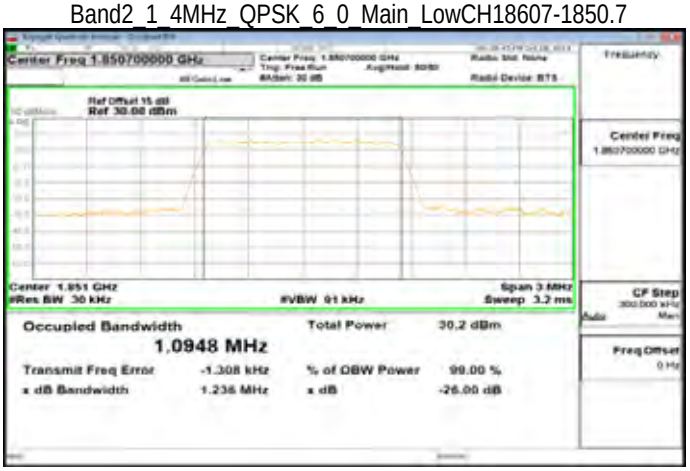


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

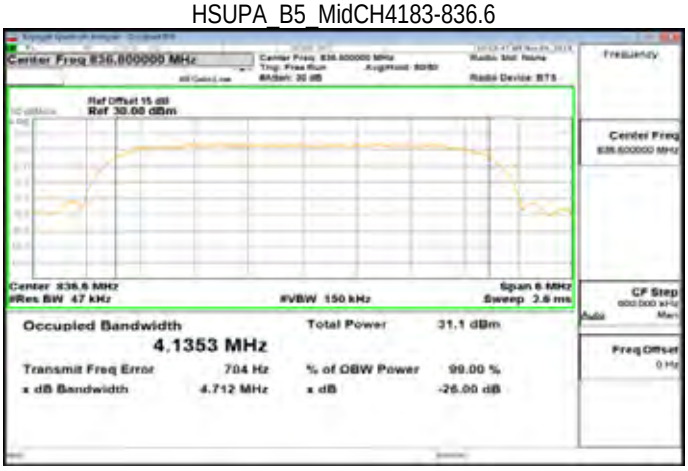
HSUPA_B5_LowCH4132-826.4



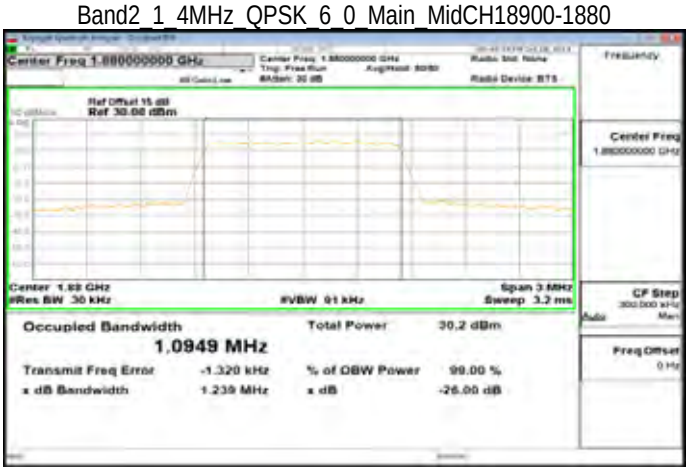
Band2_1_4MHz_QPSK_6_0_Main_LowCH18607-1850.7



HSUPA_B5_MidCH4183-836.6



Band2_1_4MHz_QPSK_6_0_Main_MidCH18900-1880

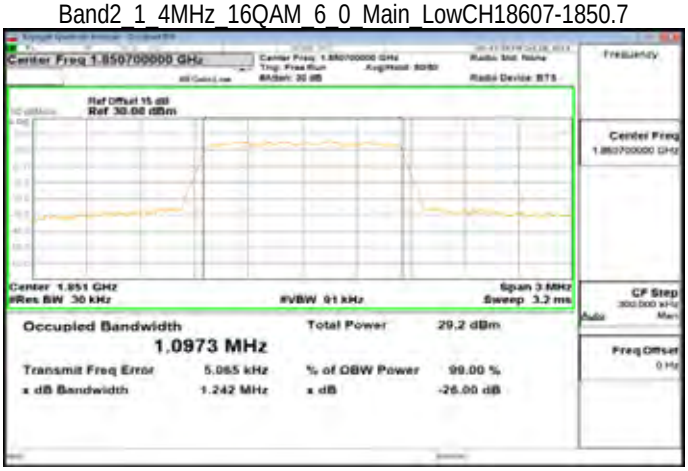


HSUPA_B5_HighCH4233-846.6

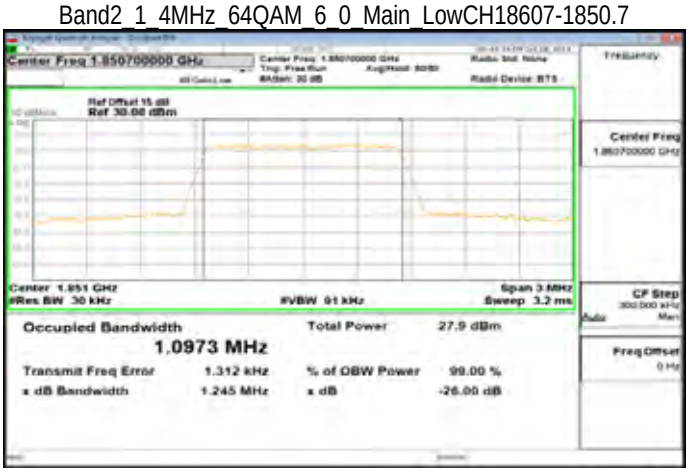
Band2_1_4MHz_QPSK_6_0_Main_HighCH19193-1909.3

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

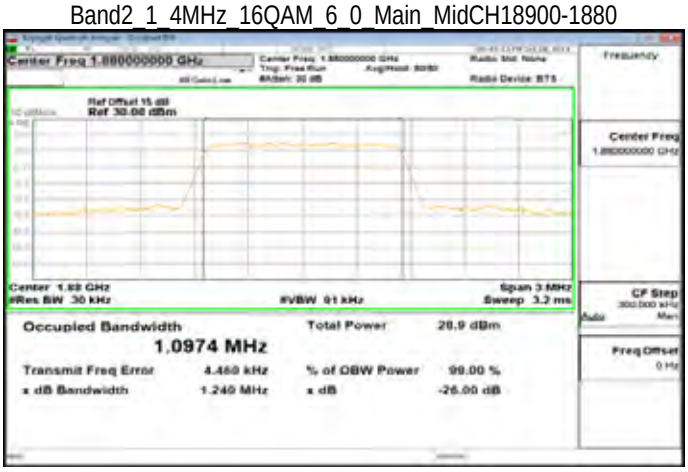
Band2_1_4MHz_16QAM_6_0_Main_LowCH18607-1850.7



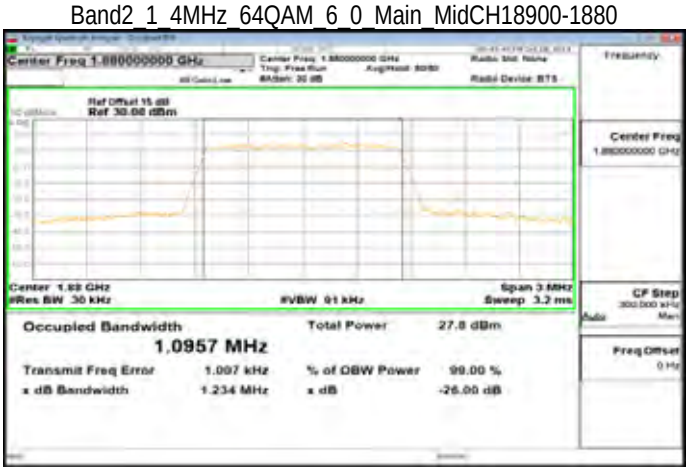
Band2_1_4MHz_64QAM_6_0_Main_LowCH18607-1850.7



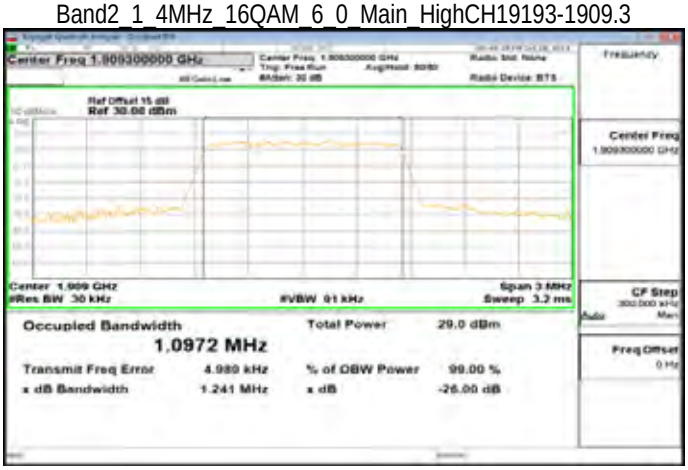
Band2_1_4MHz_16QAM_6_0_Main_MidCH18900-1880



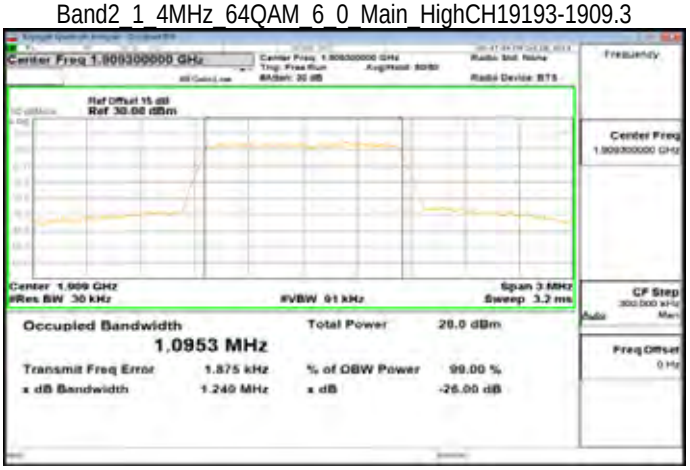
Band2_1_4MHz_64QAM_6_0_Main_MidCH18900-1880



Band2_1_4MHz_16QAM_6_0_Main_HighCH19193-1909.3

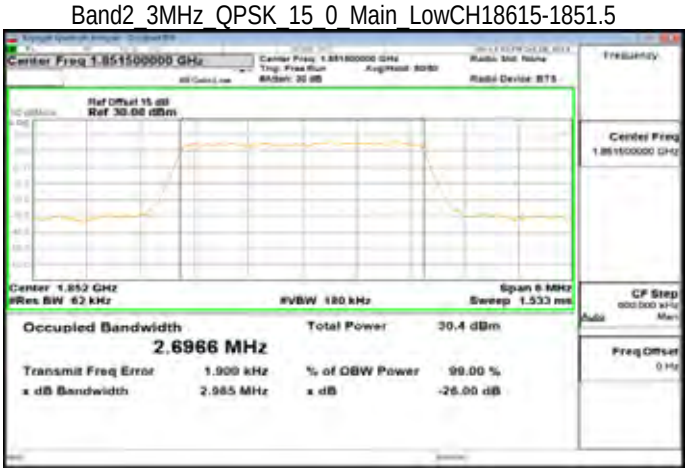


Band2_1_4MHz_64QAM_6_0_Main_HighCH19193-1909.3

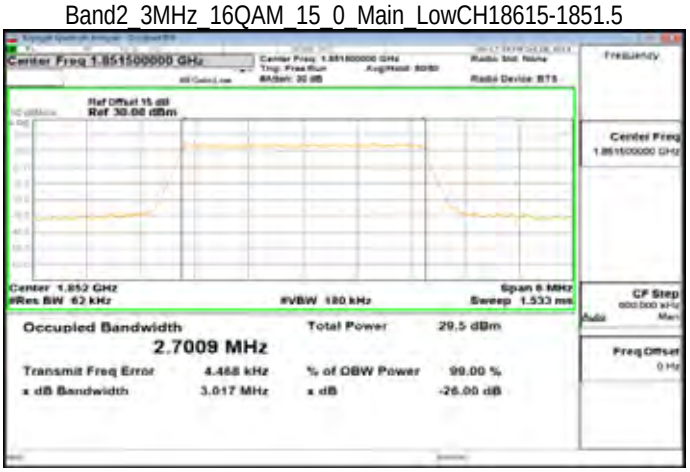


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

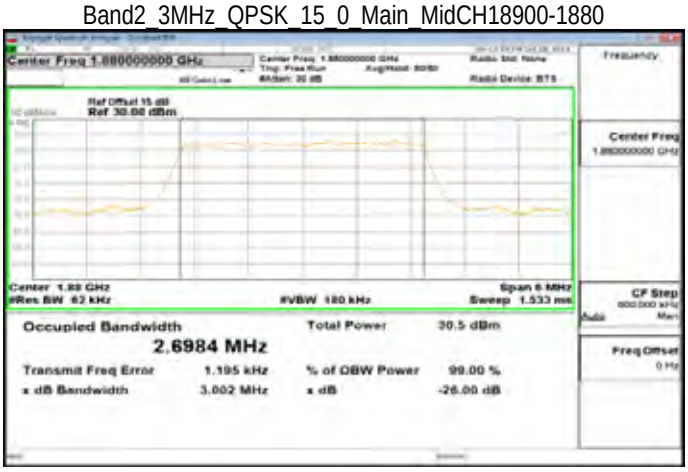
Band2_3MHz_QPSK_15_0_Main_LowCH18615-1851.5



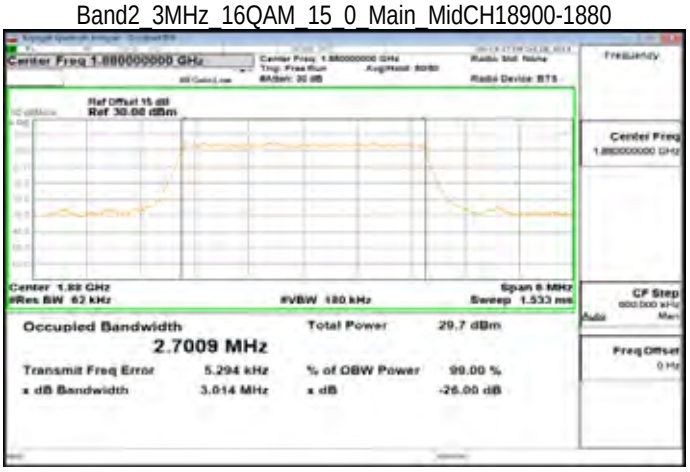
Band2_3MHz_16QAM_15_0_Main_LowCH18615-1851.5



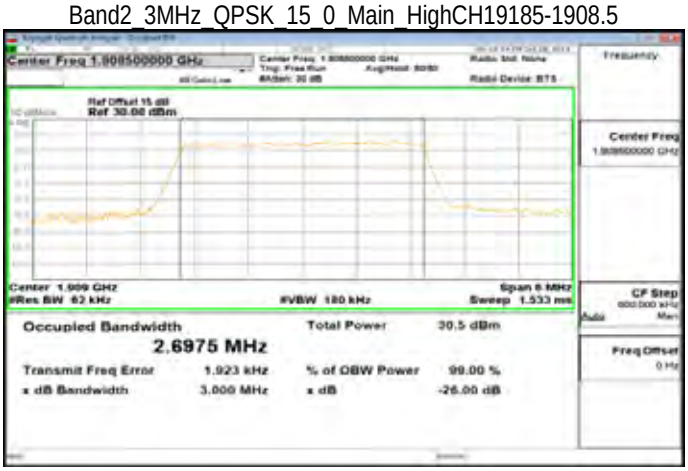
Band2_3MHz_QPSK_15_0_Main_MidCH18900-1880



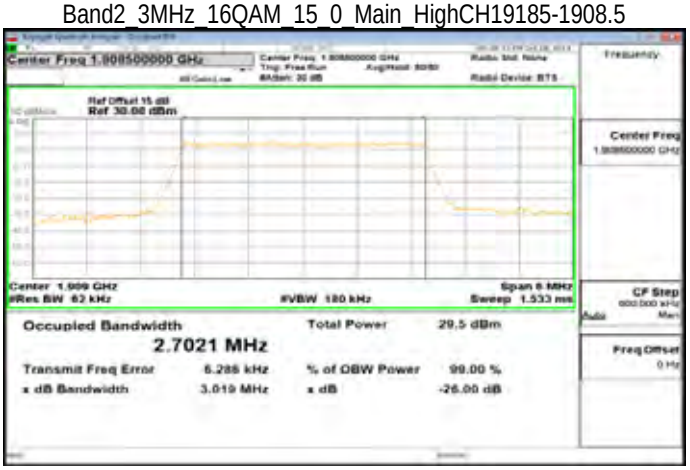
Band2_3MHz_16QAM_15_0_Main_MidCH18900-1880



Band2_3MHz_QPSK_15_0_Main_HighCH19185-1908.5

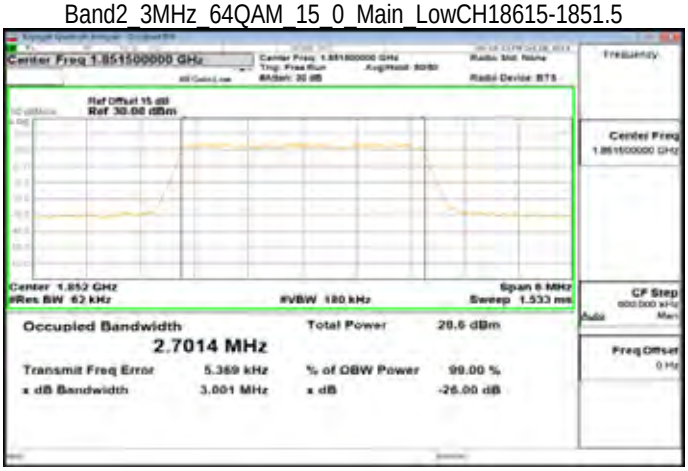


Band2_3MHz_16QAM_15_0_Main_HighCH19185-1908.5

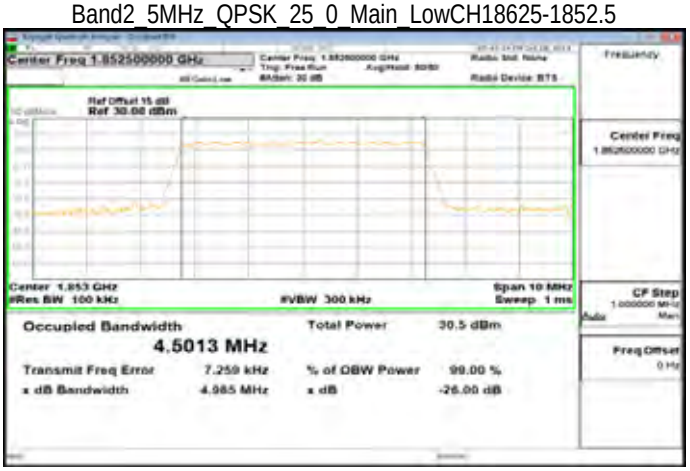


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

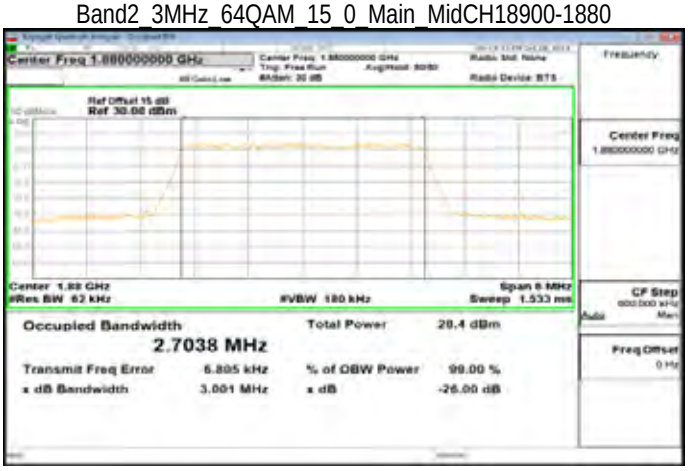
Band2_3MHz_64QAM_15_0_Main_LowCH18615-1851.5



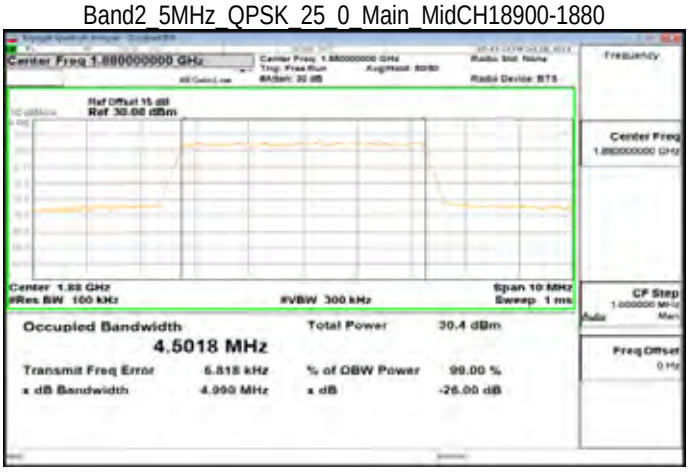
Band2_5MHz_QPSK_25_0_Main_LowCH18625-1852.5



Band2_3MHz_64QAM_15_0_Main_MidCH18900-1880

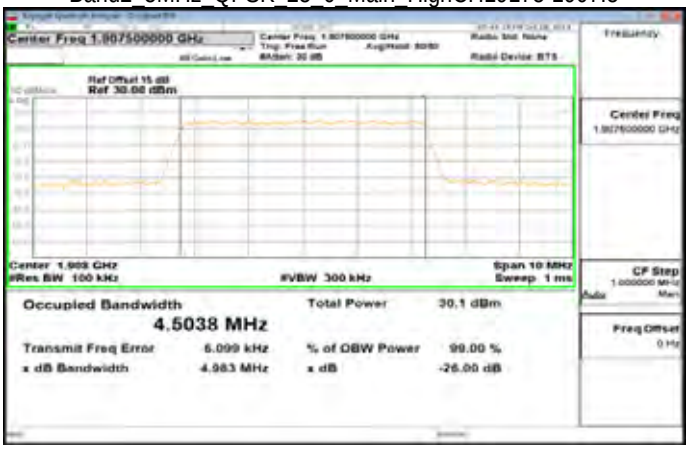


Band2_5MHz_QPSK_25_0_Main_MidCH18900-1880



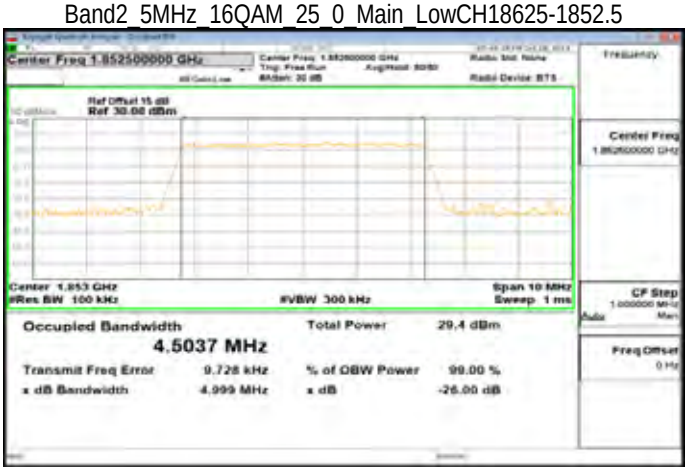
Band2_3MHz_64QAM_15_0_Main_HighCH19185-1908.5

Band2_5MHz_QPSK_25_0_Main_HighCH19175-1907.5

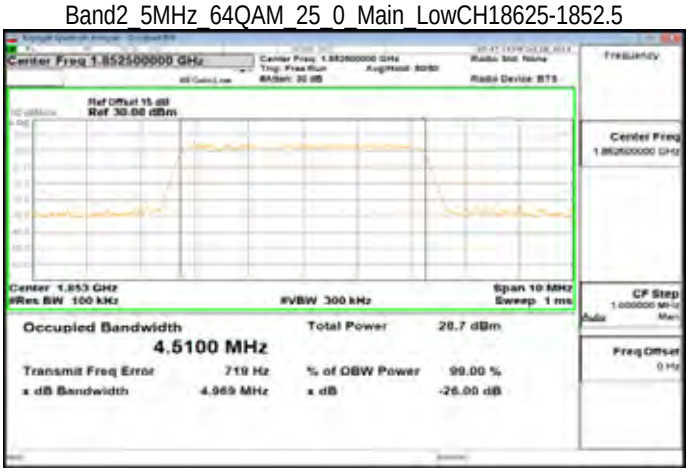


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

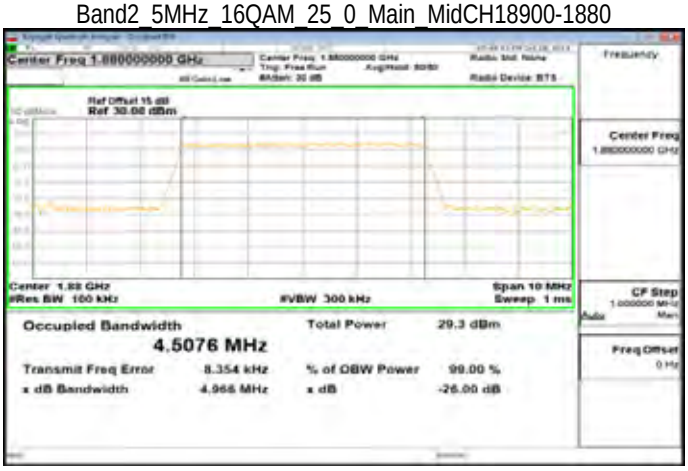
Band2_5MHz_16QAM_25_0_Main_LowCH18625-1852.5



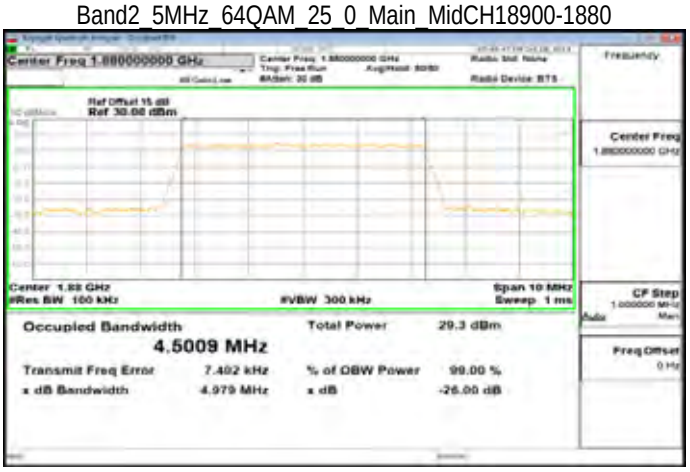
Band2_5MHz_64QAM_25_0_Main_LowCH18625-1852.5



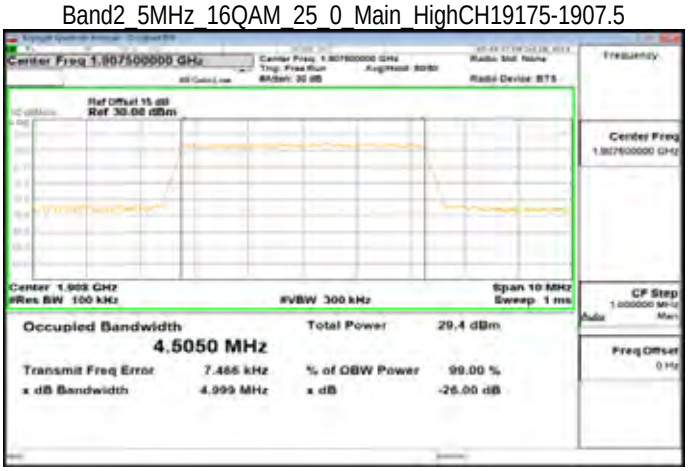
Band2_5MHz_16QAM_25_0_Main_MidCH18900-1880



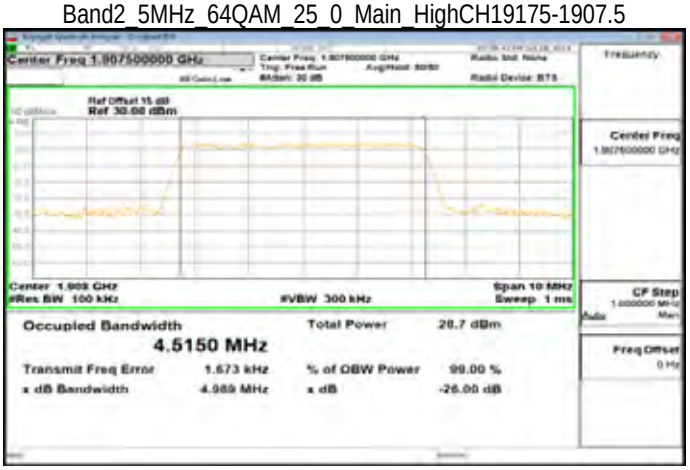
Band2_5MHz_64QAM_25_0_Main_MidCH18900-1880



Band2_5MHz_16QAM_25_0_Main_HighCH19175-1907.5

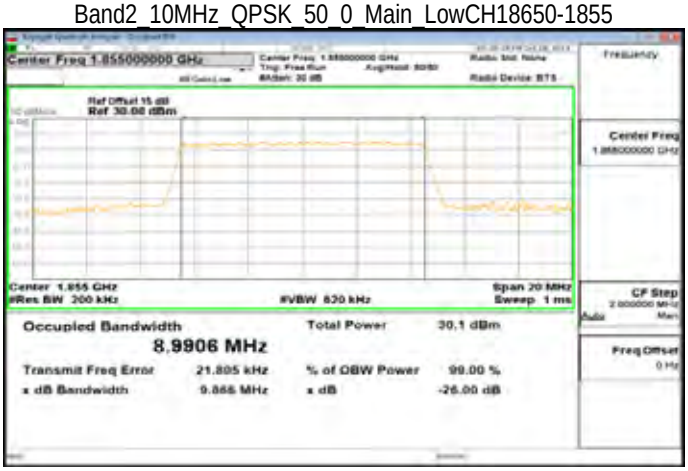


Band2_5MHz_64QAM_25_0_Main_HighCH19175-1907.5

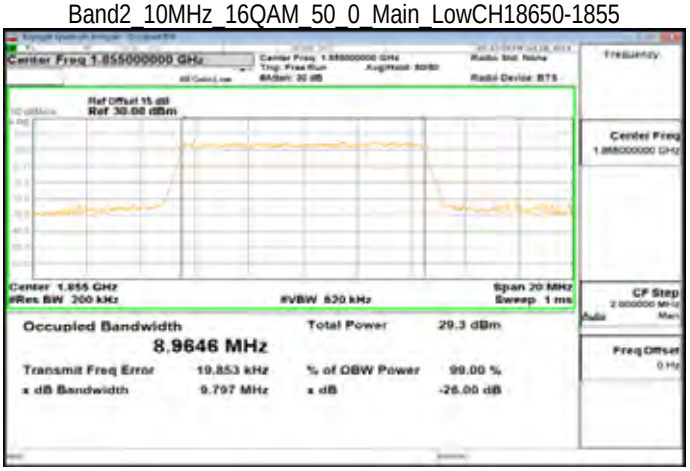


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

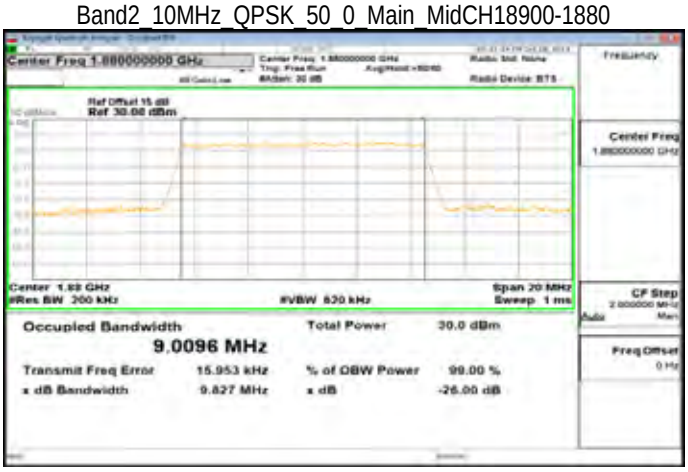
Band2_10MHz_QPSK_50_0_Main_LowCH18650-1855



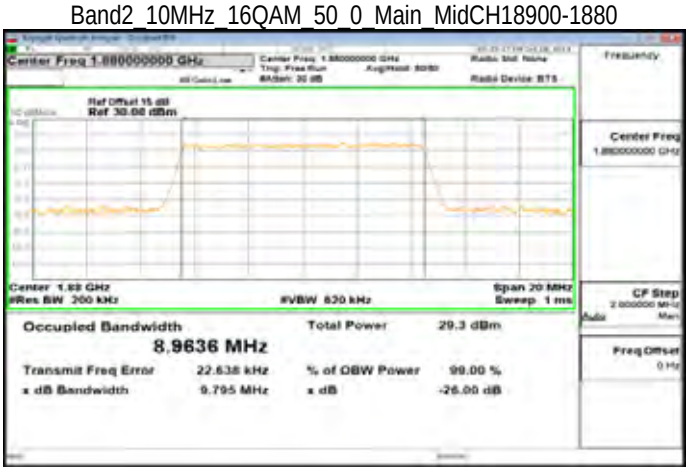
Band2_10MHz_16QAM_50_0_Main_LowCH18650-1855



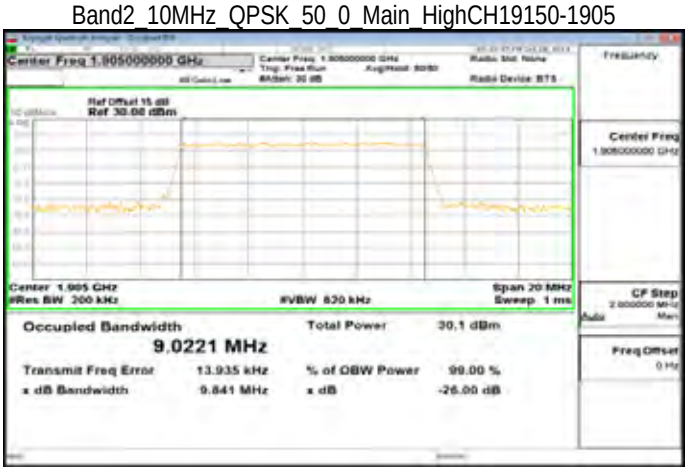
Band2_10MHz_QPSK_50_0_Main_MidCH18900-1880



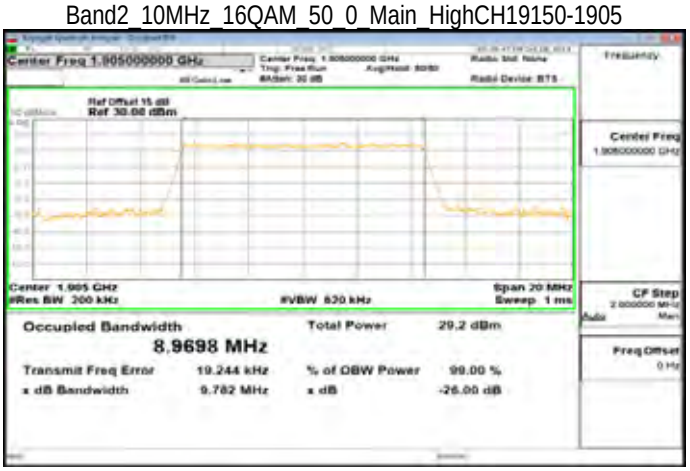
Band2_10MHz_16QAM_50_0_Main_MidCH18900-1880



Band2_10MHz_QPSK_50_0_Main_HighCH19150-1905

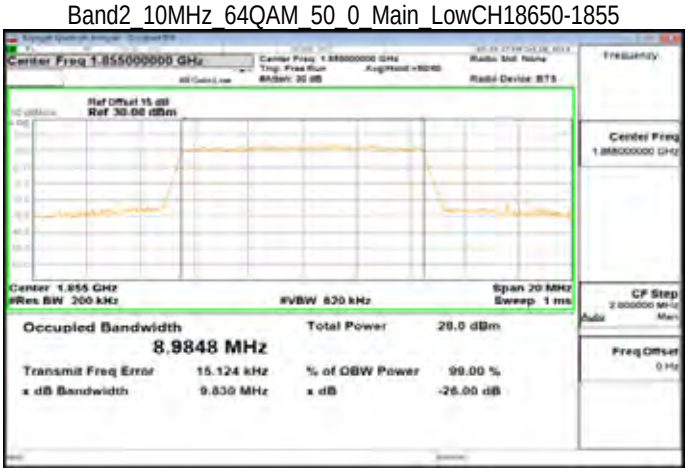


Band2_10MHz_16QAM_50_0_Main_HighCH19150-1905

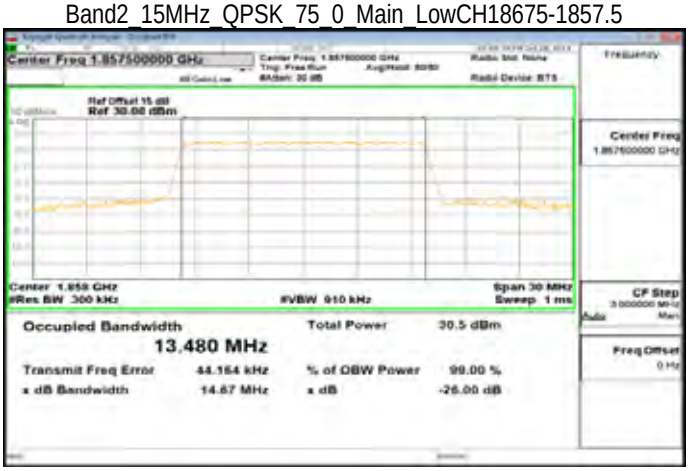


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

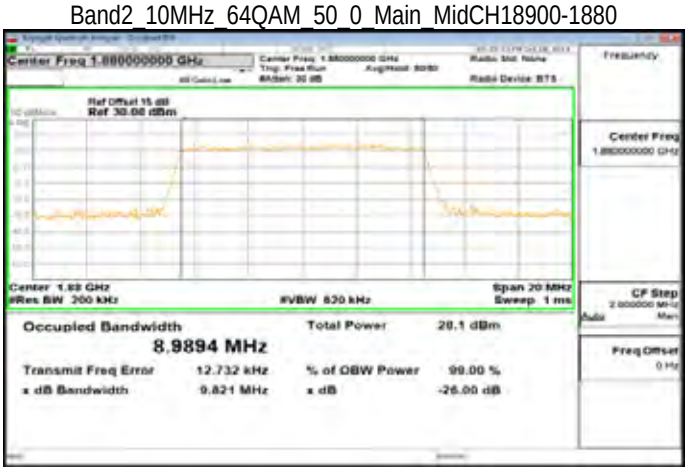
Band2_10MHz_64QAM_50_0_Main_LowCH18650-1855



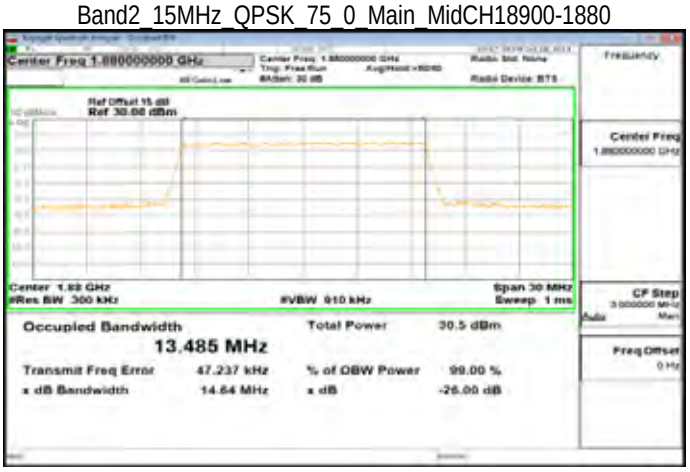
Band2_15MHz_QPSK_75_0_Main_LowCH18675-1857.5



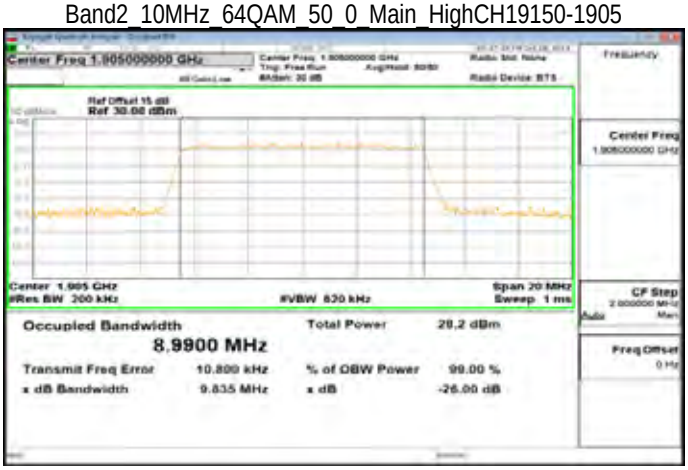
Band2_10MHz_64QAM_50_0_Main_MidCH18900-1880



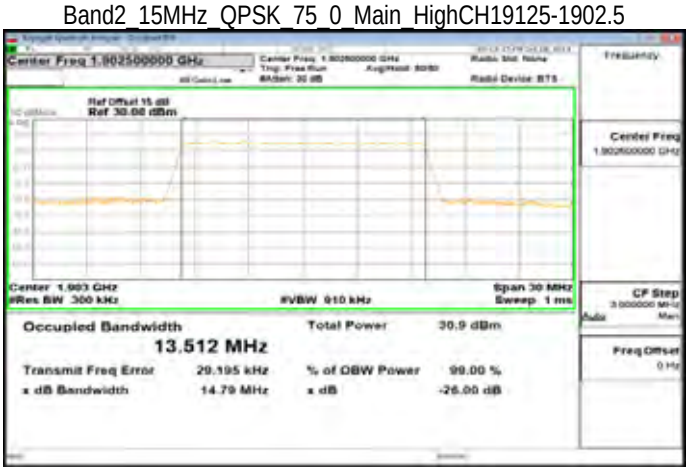
Band2_15MHz_QPSK_75_0_Main_MidCH18900-1880



Band2_10MHz_64QAM_50_0_Main_HighCH19150-1905

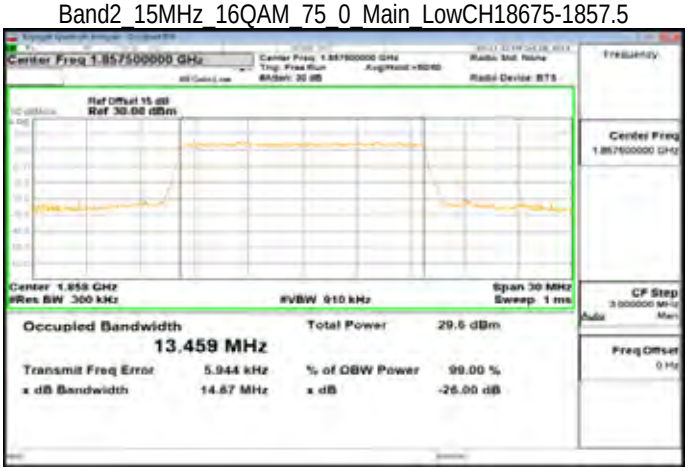


Band2_15MHz_QPSK_75_0_Main_HighCH19125-1902.5

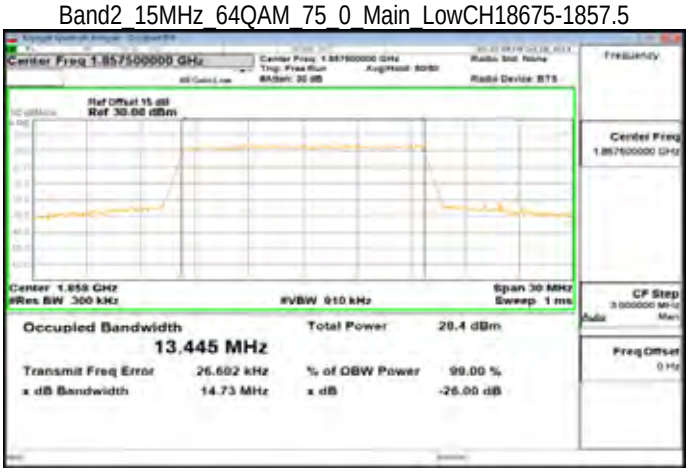


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

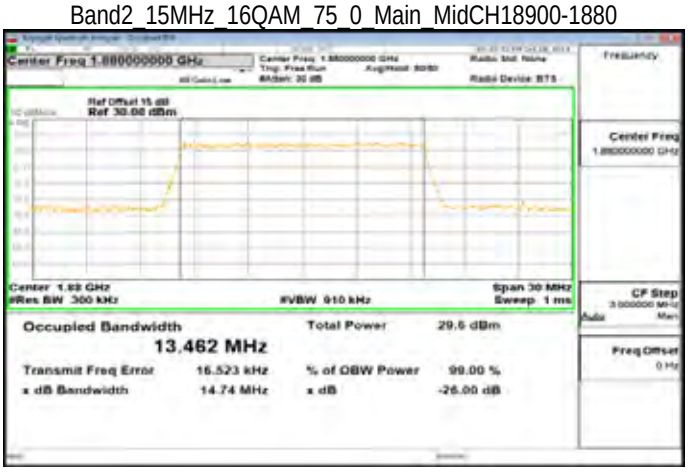
Band2_15MHz_16QAM_75_0_Main_LowCH18675-1857.5



Band2_15MHz_64QAM_75_0_Main_LowCH18675-1857.5

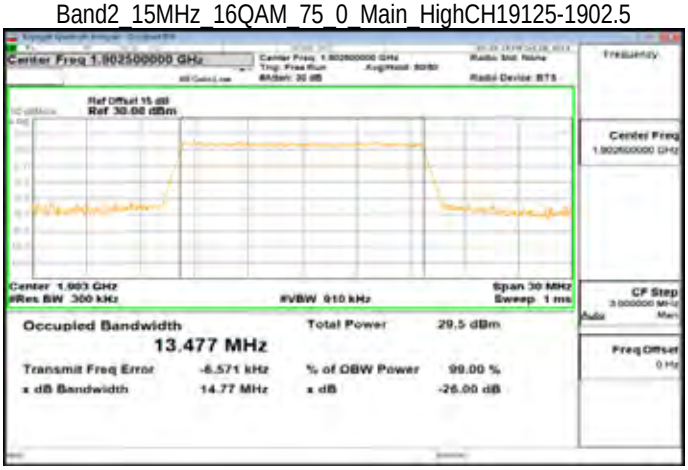


Band2_15MHz_16QAM_75_0_Main_MidCH18900-1880

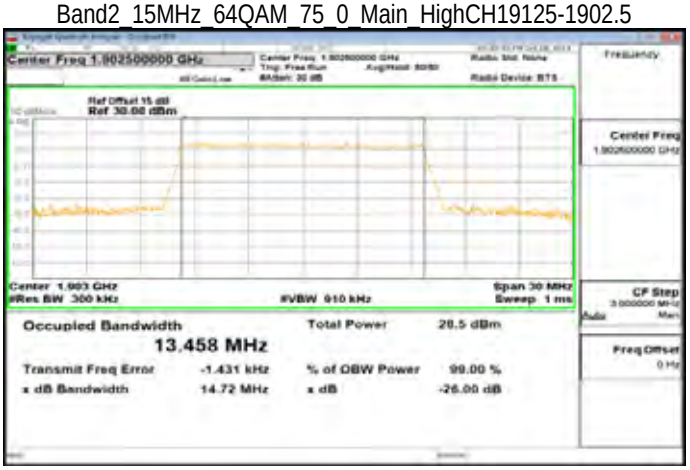


Band2_15MHz_64QAM_75_0_Main_MidCH18900-1880

Band2_15MHz_16QAM_75_0_Main_HighCH19125-1902.5

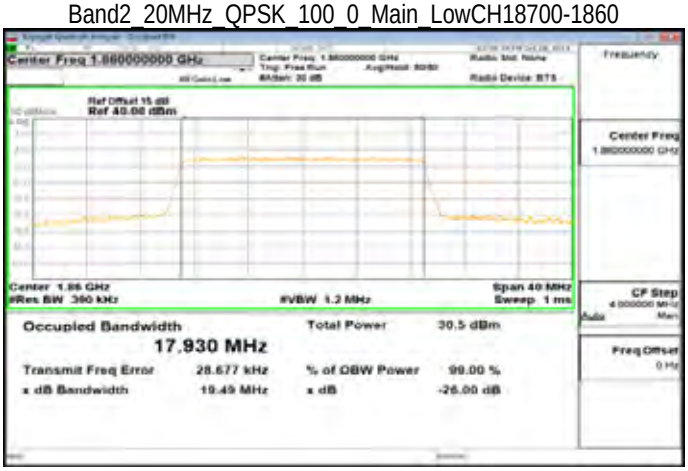


Band2_15MHz_64QAM_75_0_Main_HighCH19125-1902.5

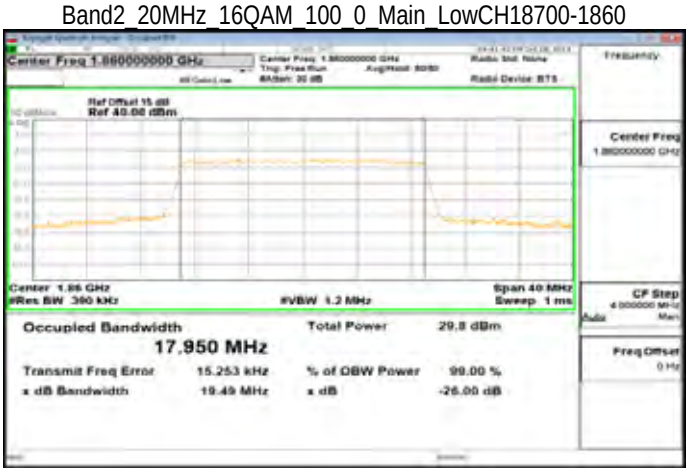


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

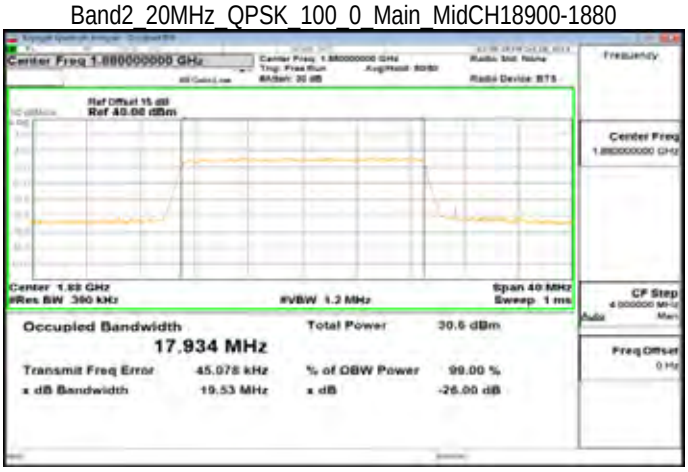
Band2_20MHz_QPSK_100_0_Main_LowCH18700-1860



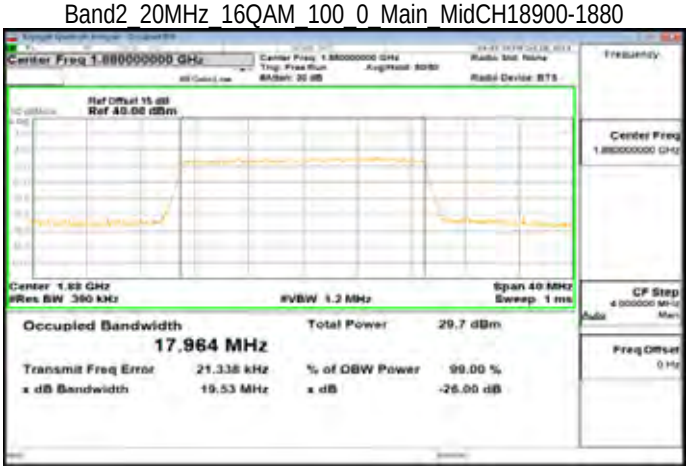
Band2_20MHz_16QAM_100_0_Main_LowCH18700-1860



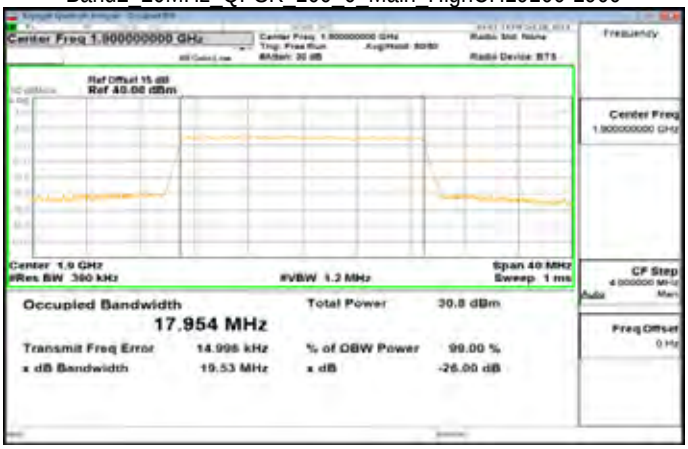
Band2_20MHz_QPSK_100_0_Main_MidCH18900-1880



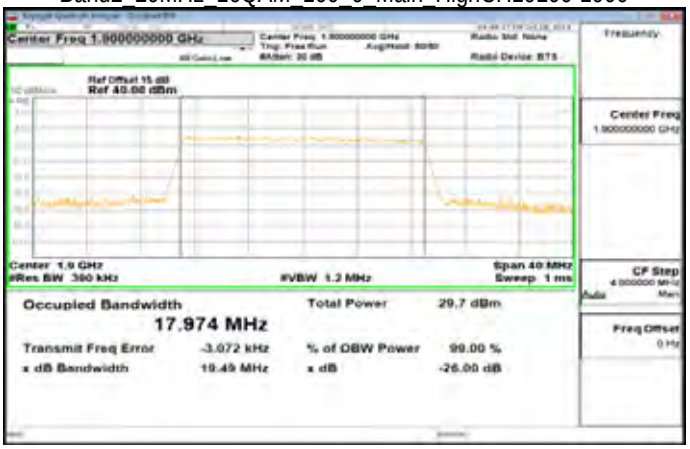
Band2_20MHz_16QAM_100_0_Main_MidCH18900-1880



Band2_20MHz_QPSK_100_0_Main_HighCH19100-1900

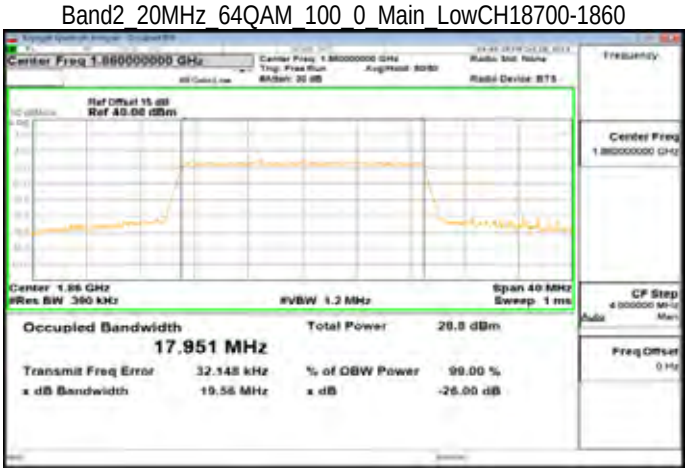


Band2_20MHz_16QAM_100_0_Main_HighCH19100-1900

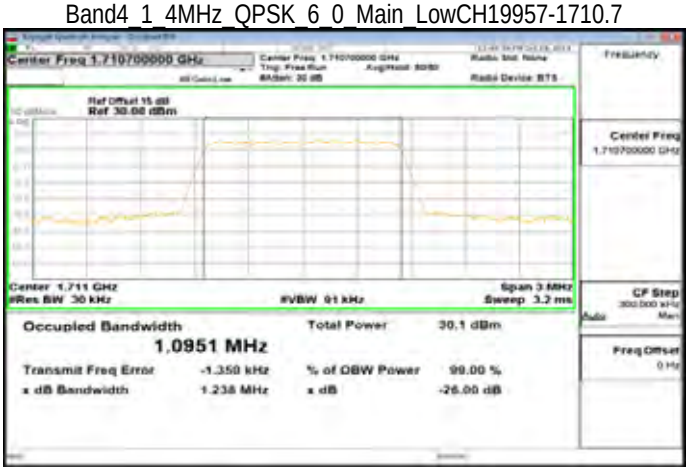


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

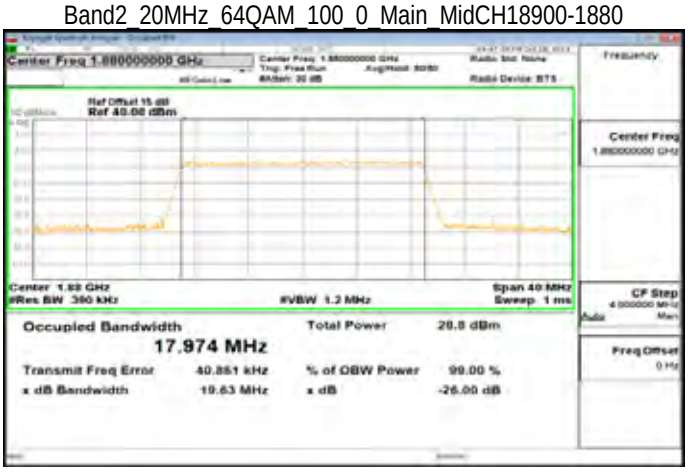
Band2_20MHz_64QAM_100_0_Main_LowCH18700-1860



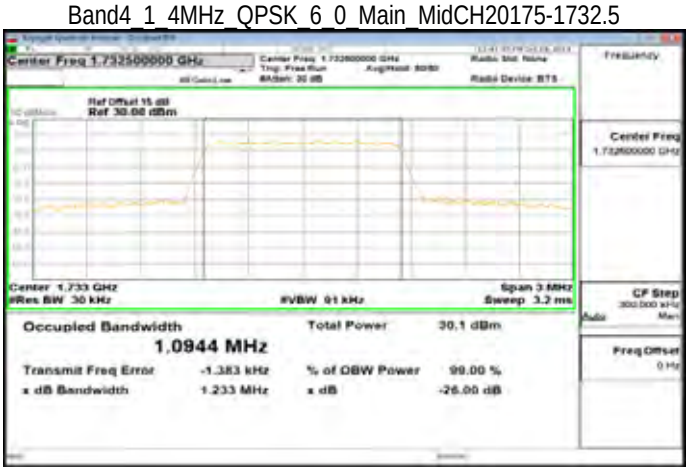
Band4_1_4MHz_QPSK_6_0_Main_LowCH19957-1710.7



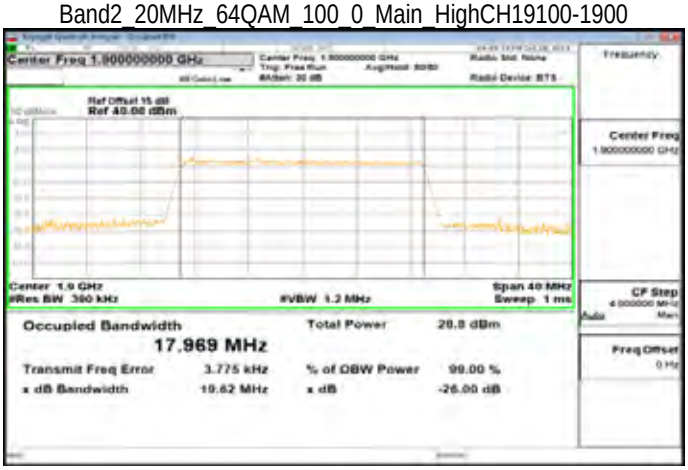
Band2_20MHz_64QAM_100_0_Main_MidCH18900-1880



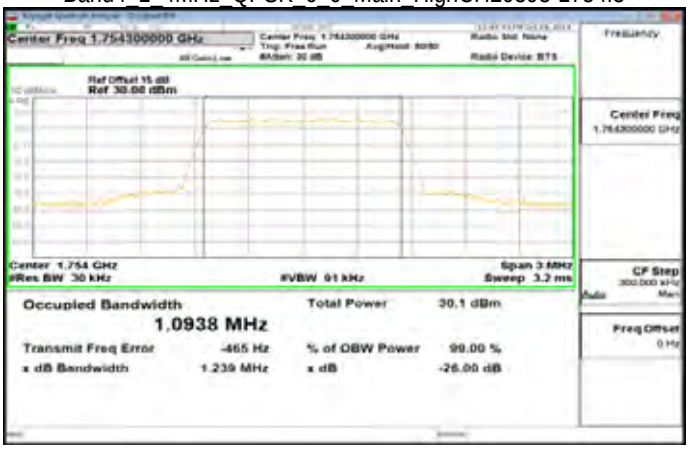
Band4_1_4MHz_QPSK_6_0_Main_MidCH20175-1732.5



Band2_20MHz_64QAM_100_0_Main_HighCH19100-1900

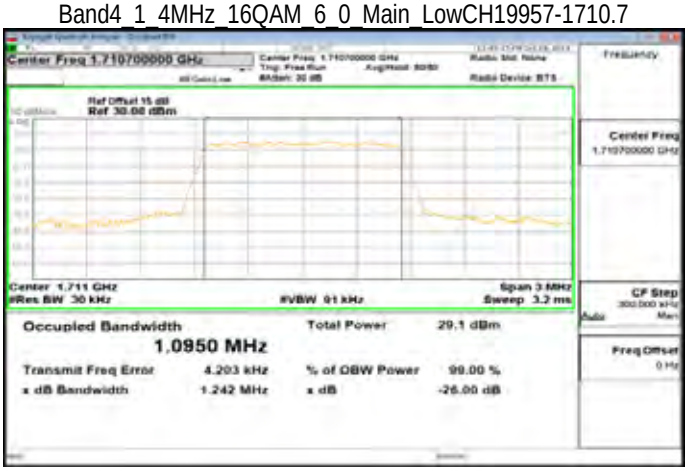


Band4_1_4MHz_QPSK_6_0_Main_HighCH20393-1754.3

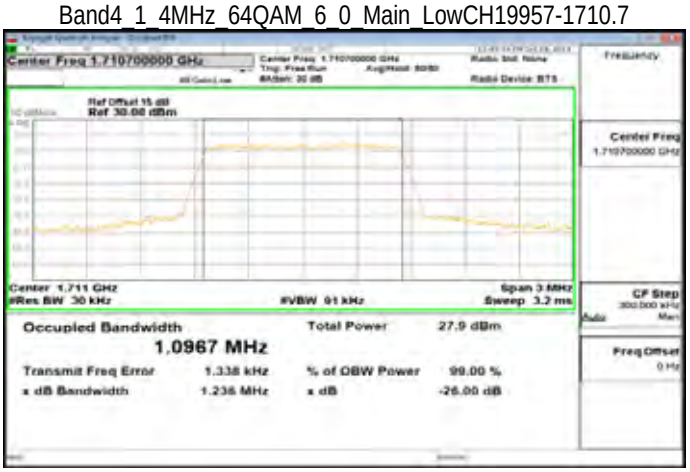


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

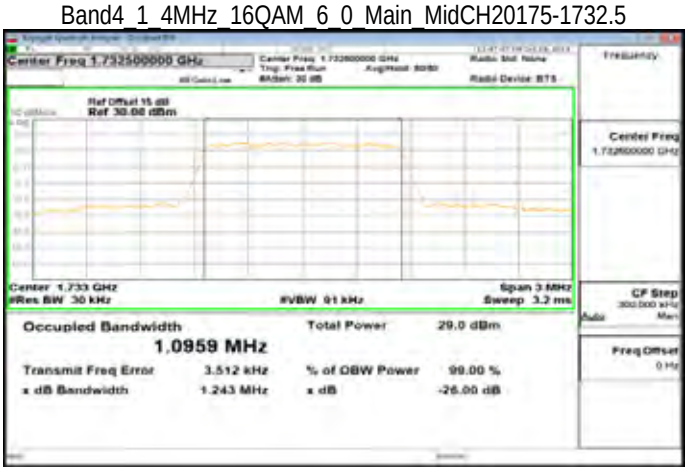
Band4_1_4MHz_16QAM_6_0_Main_LowCH19957-1710.7



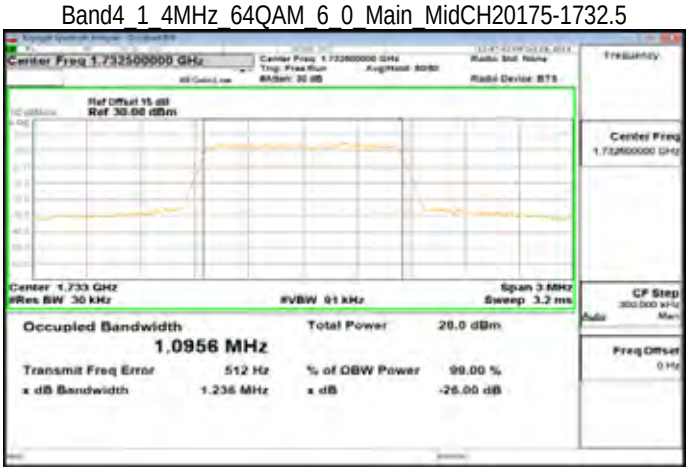
Band4_1_4MHz_64QAM_6_0_Main_LowCH19957-1710.7



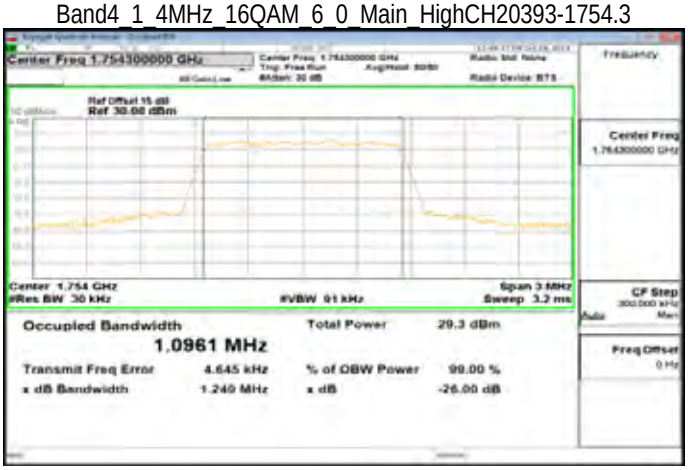
Band4_1_4MHz_16QAM_6_0_Main_MidCH20175-1732.5



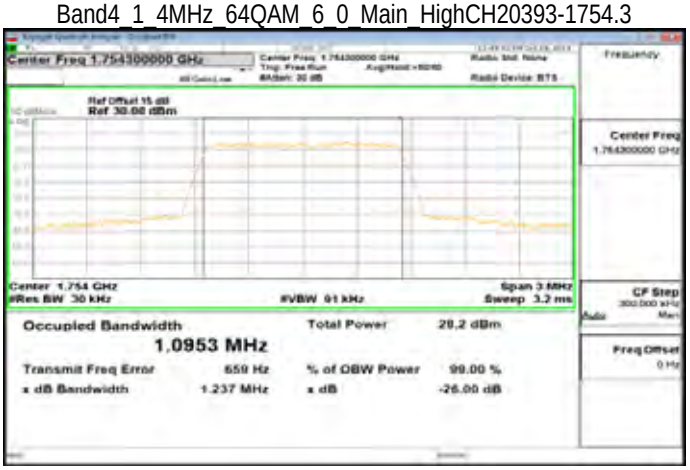
Band4_1_4MHz_64QAM_6_0_Main_MidCH20175-1732.5



Band4_1_4MHz_16QAM_6_0_Main_HighCH20393-1754.3

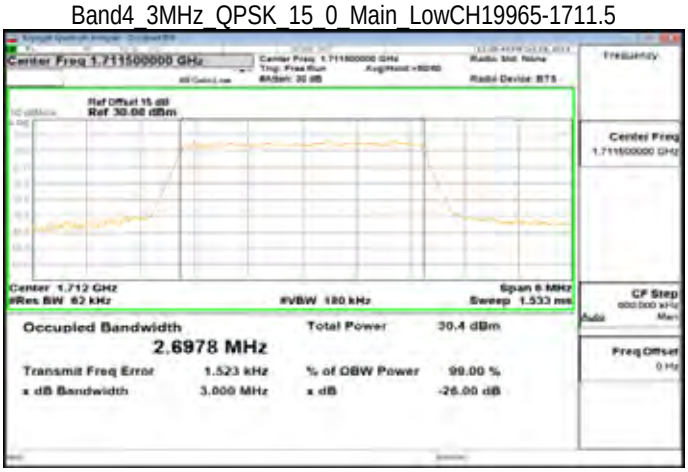


Band4_1_4MHz_64QAM_6_0_Main_HighCH20393-1754.3

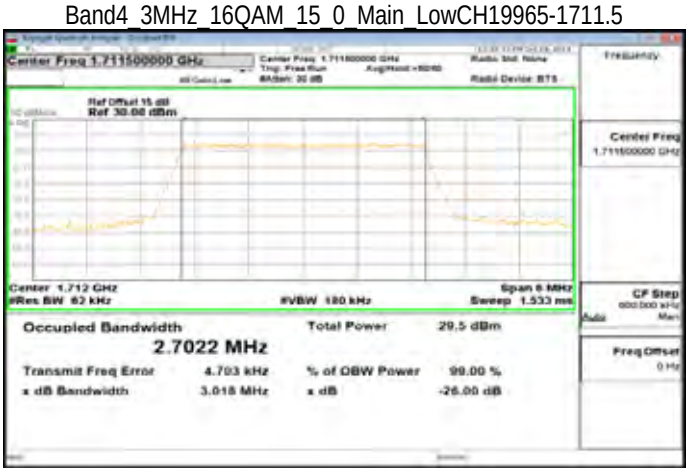


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

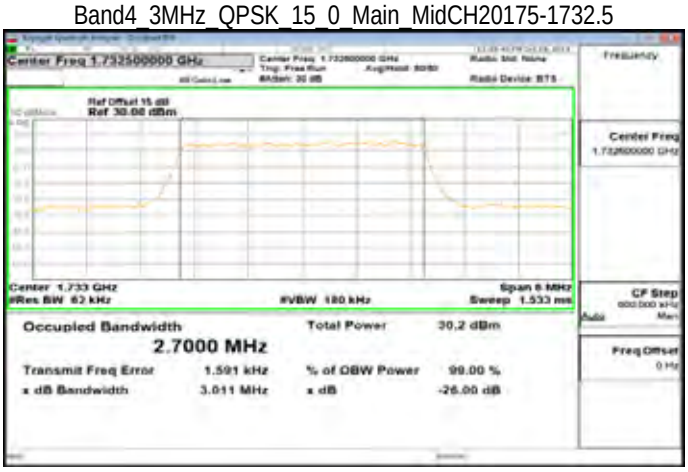
Band4_3MHz_QPSK_15_0_Main_LowCH19965-1711.5



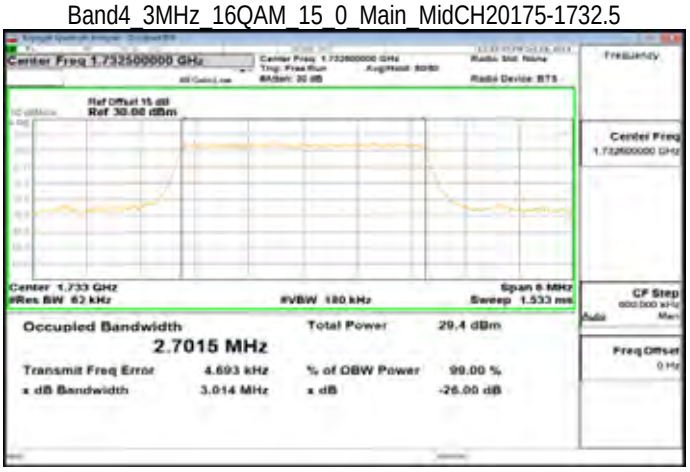
Band4_3MHz_16QAM_15_0_Main_LowCH19965-1711.5



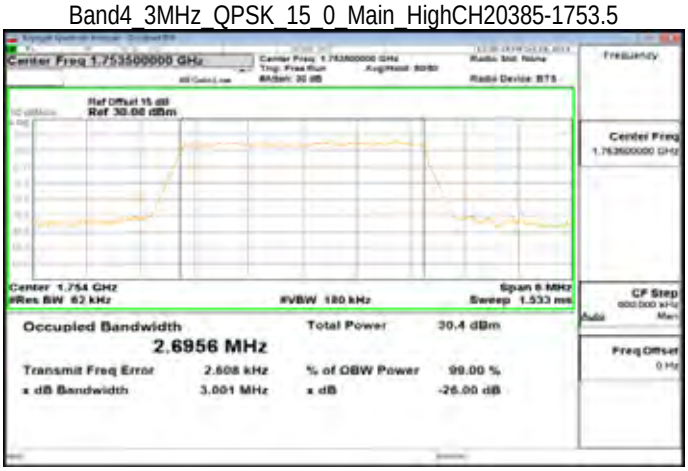
Band4_3MHz_QPSK_15_0_Main_MidCH20175-1732.5



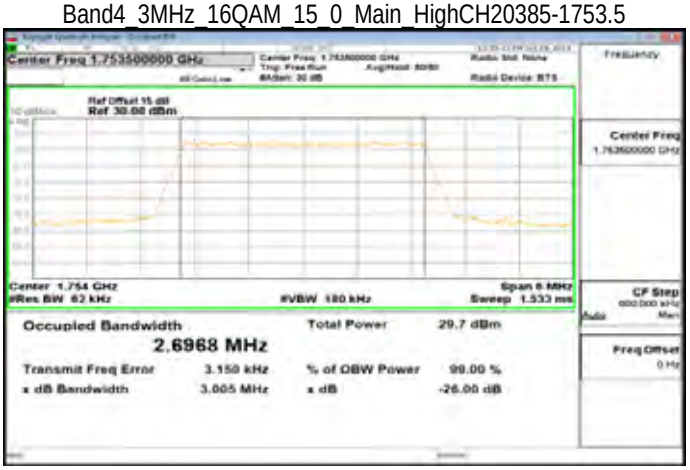
Band4_3MHz_16QAM_15_0_Main_MidCH20175-1732.5



Band4_3MHz_QPSK_15_0_Main_HighCH20385-1753.5

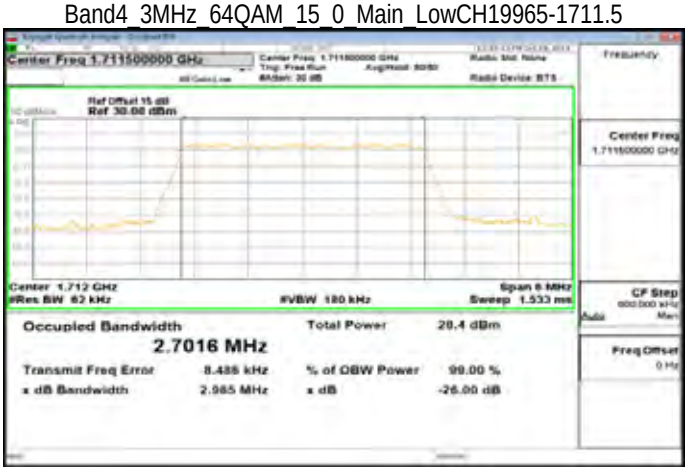


Band4_3MHz_16QAM_15_0_Main_HighCH20385-1753.5

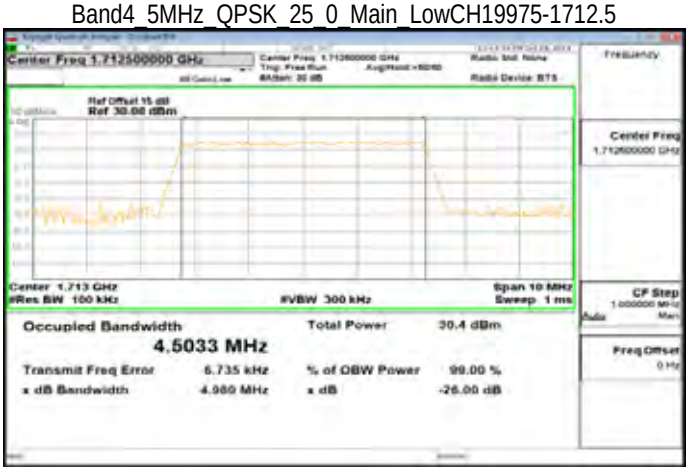


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

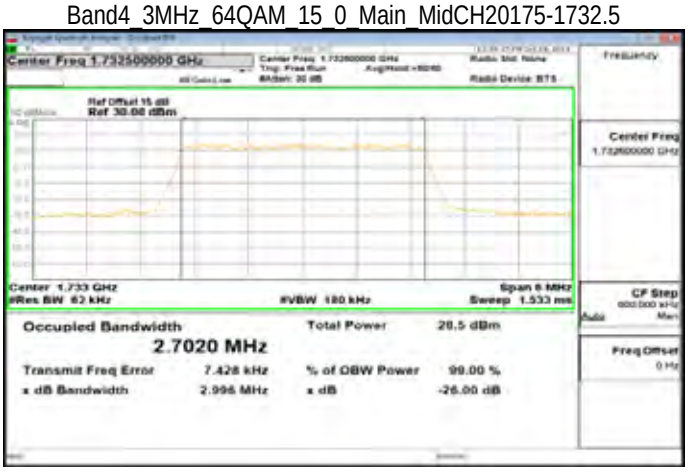
Band4_3MHz_64QAM_15_0_Main_LowCH19965-1711.5



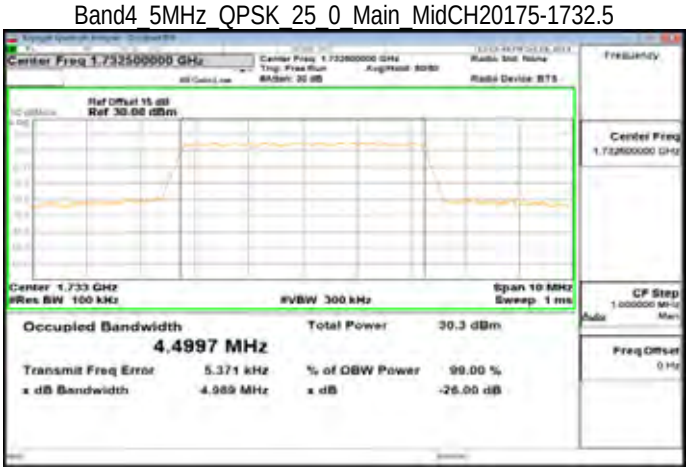
Band4_5MHz_QPSK_25_0_Main_LowCH19975-1712.5



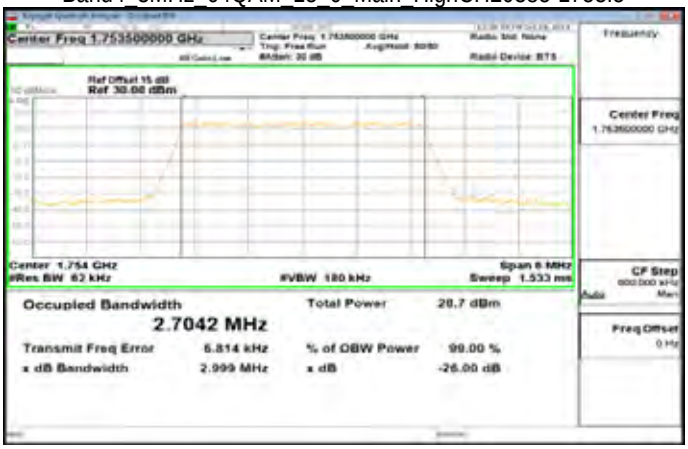
Band4_3MHz_64QAM_15_0_Main_MidCH20175-1732.5



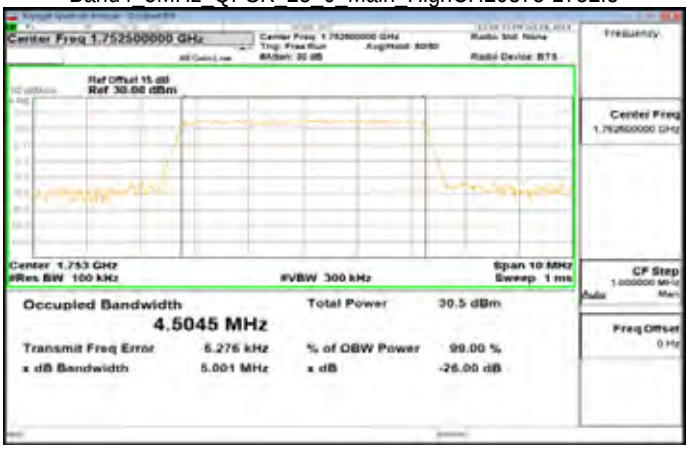
Band4_5MHz_QPSK_25_0_Main_MidCH20175-1732.5



Band4_3MHz_64QAM_15_0_Main_HighCH20385-1753.5

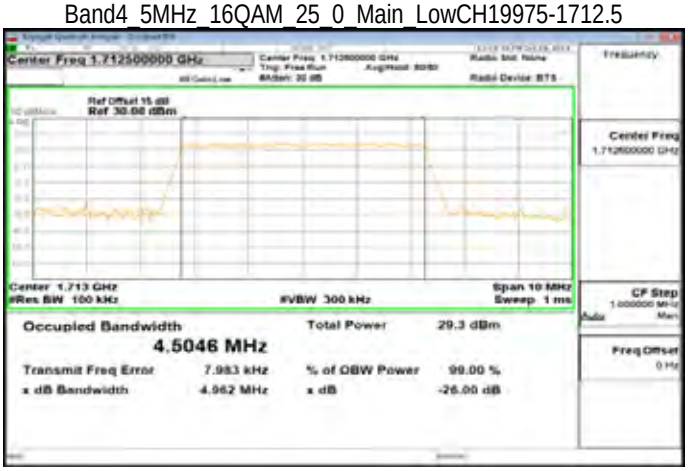


Band4_5MHz_QPSK_25_0_Main_HighCH20375-1752.5

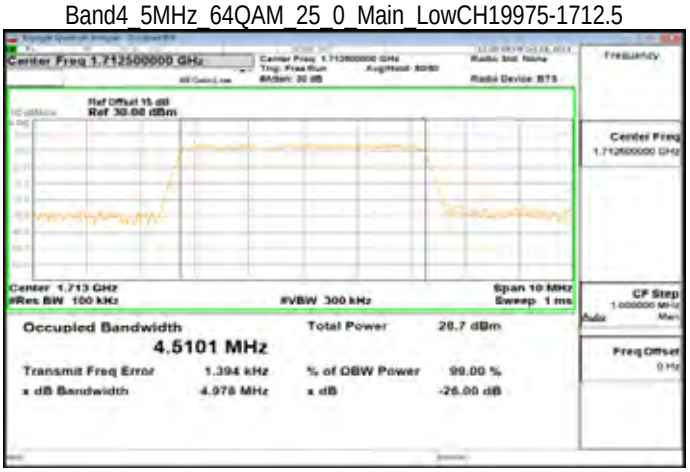


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

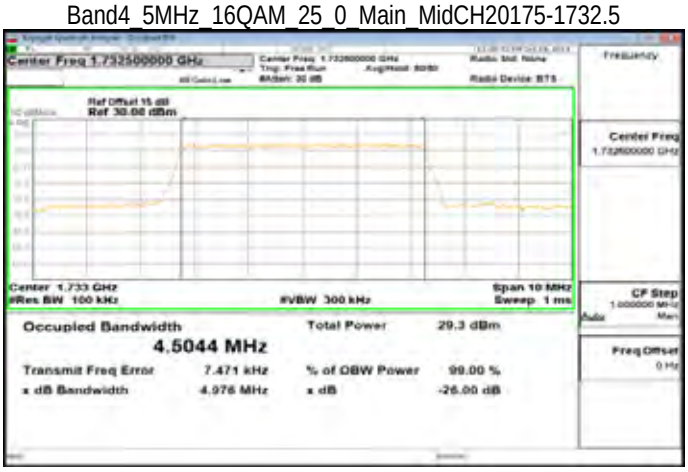
Band4_5MHz_16QAM_25_0_Main_LowCH19975-1712.5



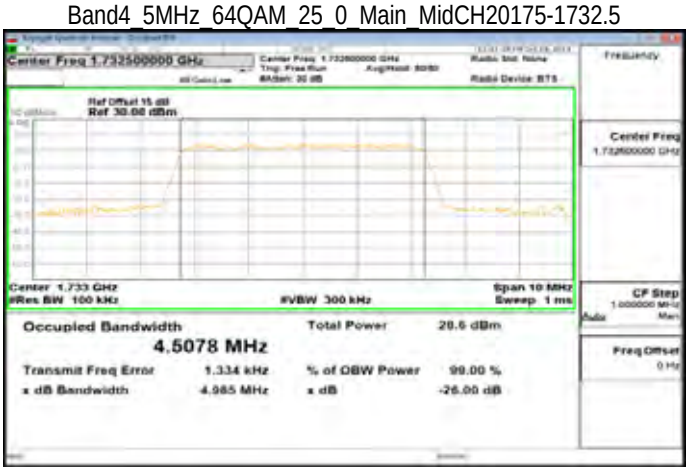
Band4_5MHz_64QAM_25_0_Main_LowCH19975-1712.5



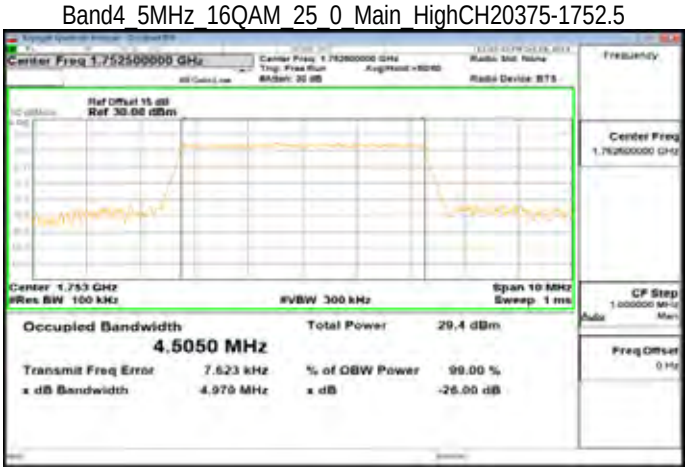
Band4_5MHz_16QAM_25_0_Main_MidCH20175-1732.5



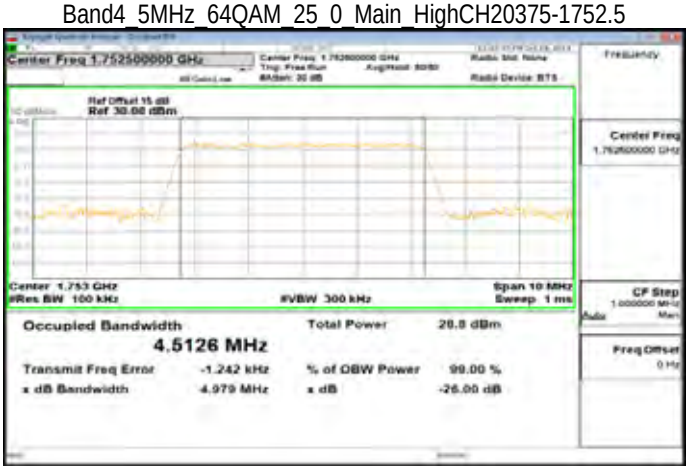
Band4_5MHz_64QAM_25_0_Main_MidCH20175-1732.5



Band4_5MHz_16QAM_25_0_Main_HighCH20375-1752.5

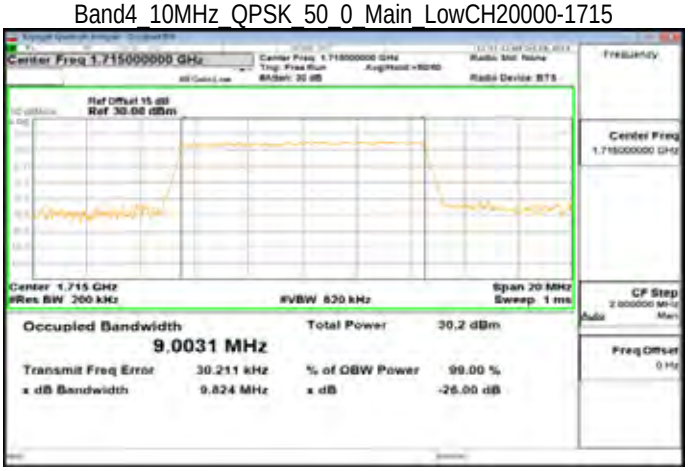


Band4_5MHz_64QAM_25_0_Main_HighCH20375-1752.5

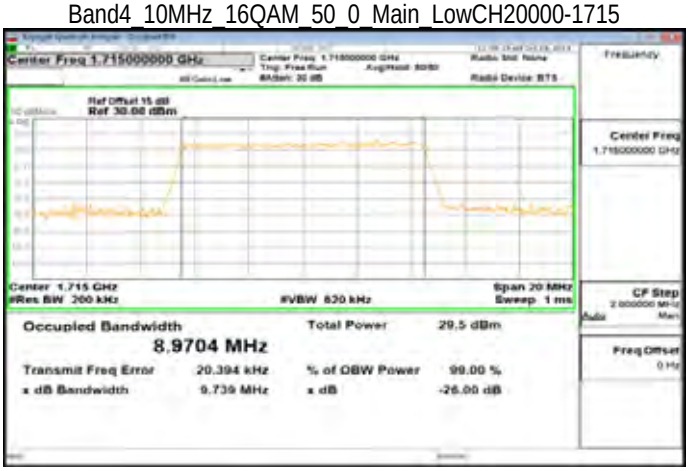


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

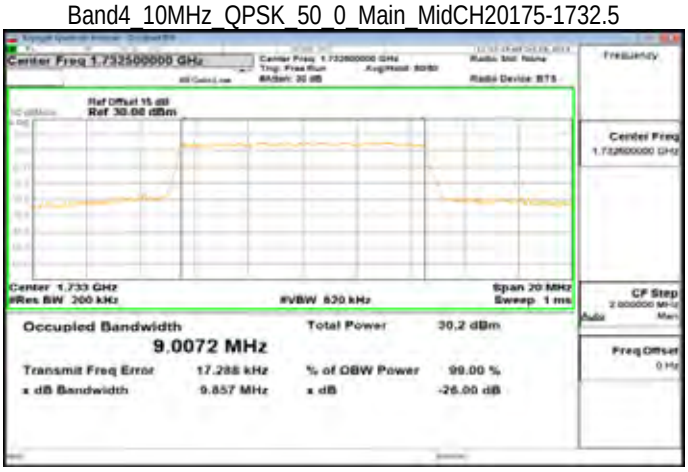
Band4_10MHz_QPSK_50_0_Main_LowCH20000-1715



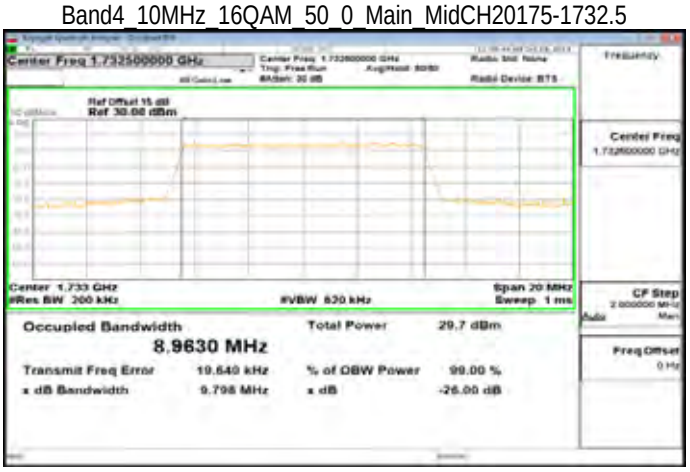
Band4_10MHz_16QAM_50_0_Main_LowCH20000-1715



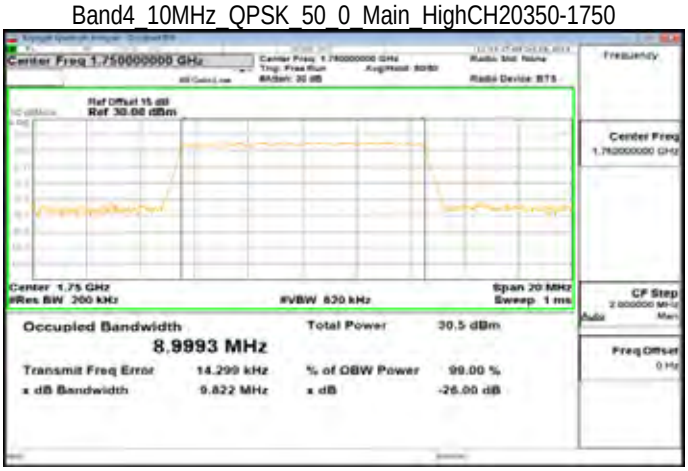
Band4_10MHz_QPSK_50_0_Main_MidCH20175-1732.5



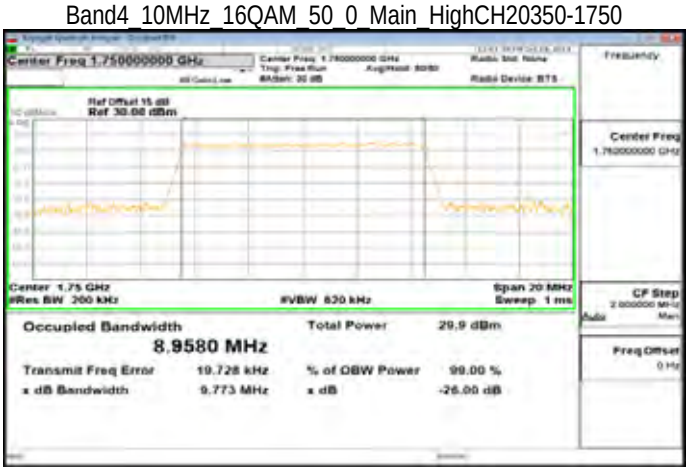
Band4_10MHz_16QAM_50_0_Main_MidCH20175-1732.5



Band4_10MHz_QPSK_50_0_Main_HighCH20350-1750

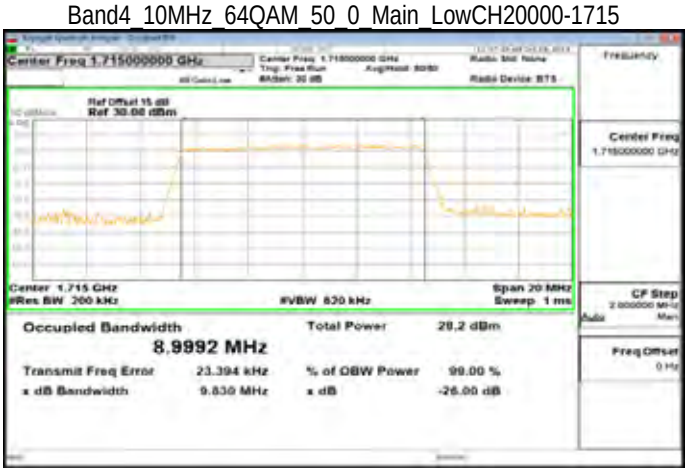


Band4_10MHz_16QAM_50_0_Main_HighCH20350-1750

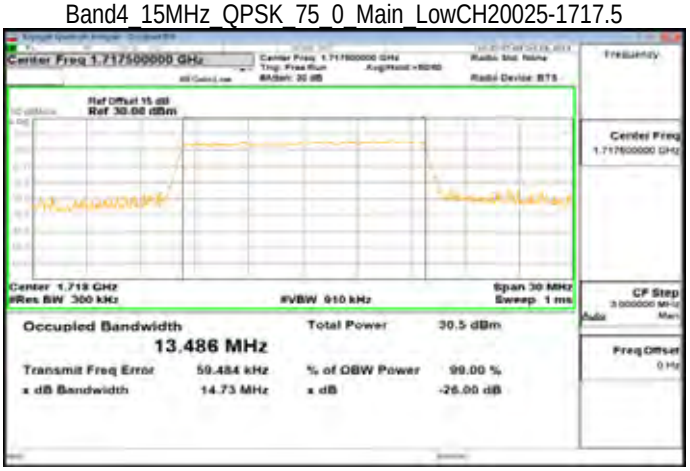


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

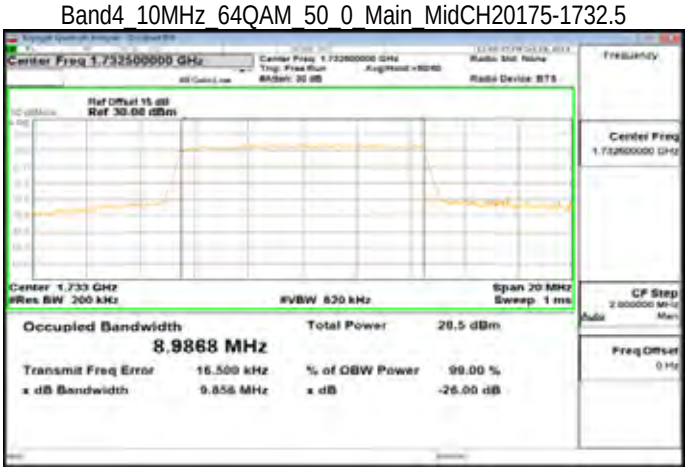
Band4_10MHz_64QAM_50_0_Main_LowCH20000-1715



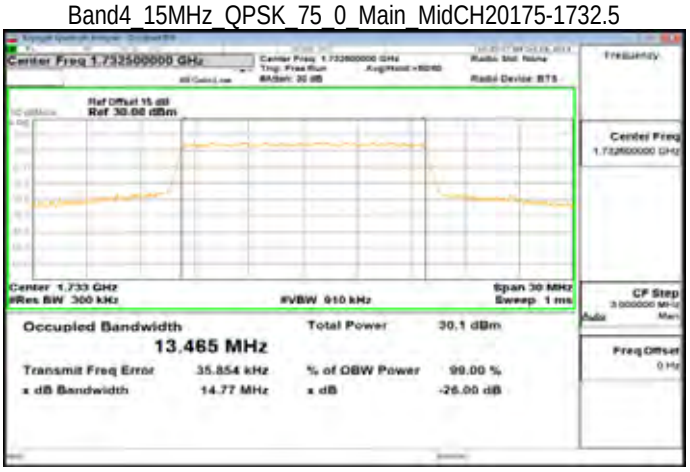
Band4_15MHz_QPSK_75_0_Main_LowCH20025-1717.5



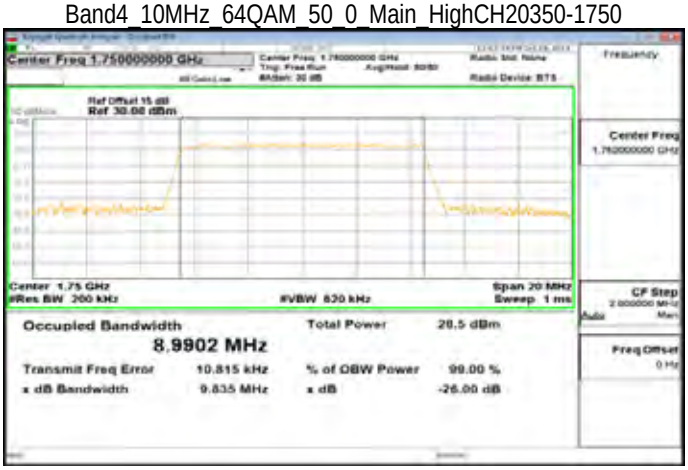
Band4_10MHz_64QAM_50_0_Main_MidCH20175-1732.5



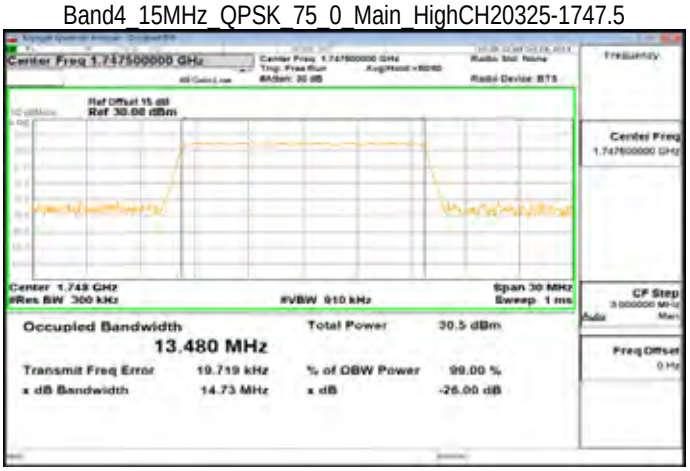
Band4_15MHz_QPSK_75_0_Main_MidCH20175-1732.5



Band4_10MHz_64QAM_50_0_Main_HighCH20350-1750

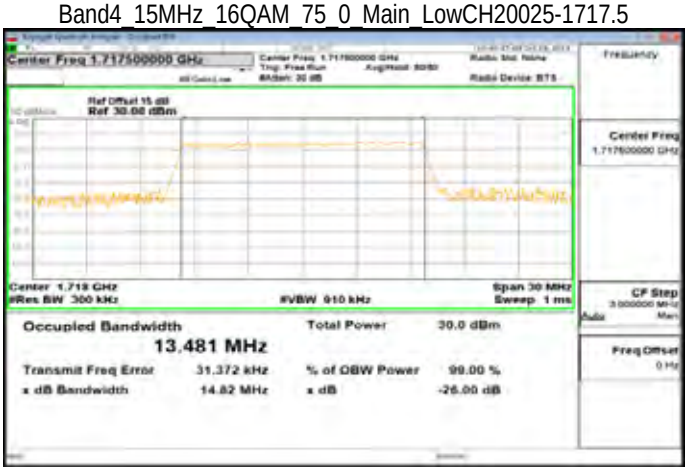


Band4_15MHz_QPSK_75_0_Main_HighCH20325-1747.5

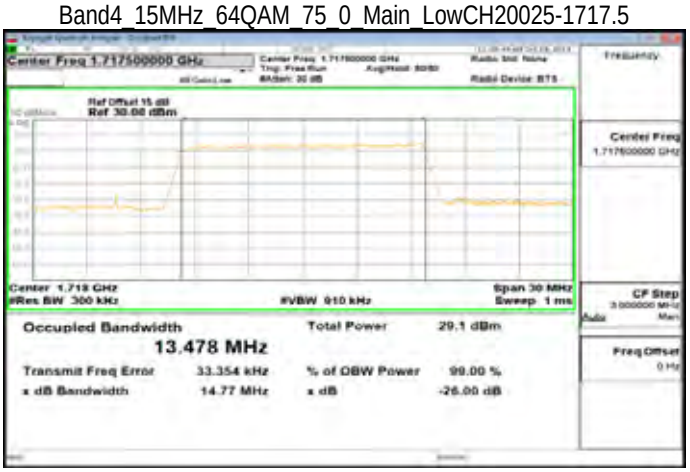


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

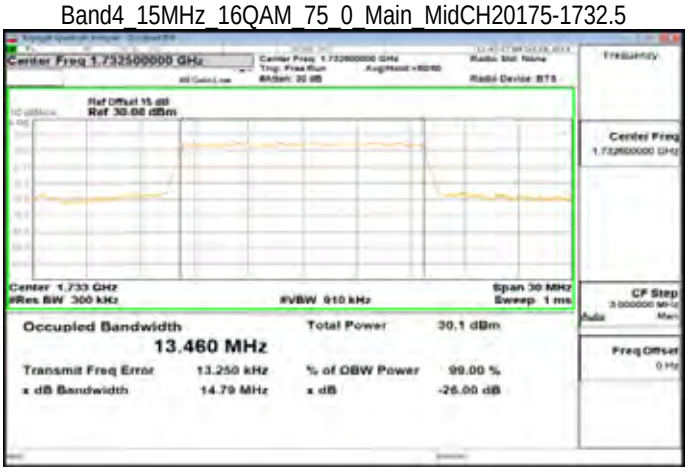
Band4_15MHz_16QAM_75_0_Main_LowCH20025-1717.5



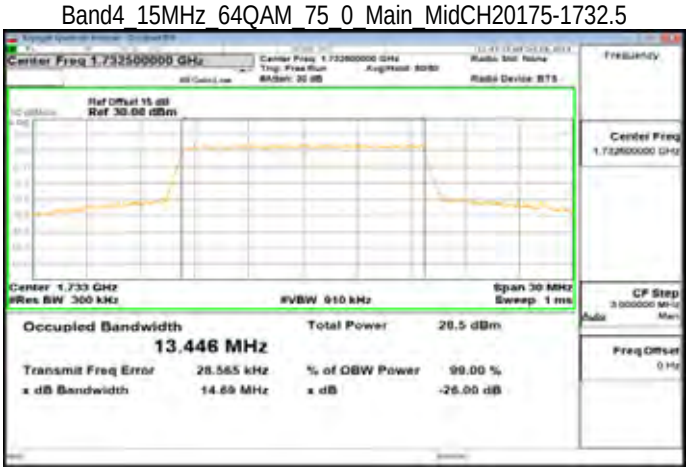
Band4_15MHz_64QAM_75_0_Main_LowCH20025-1717.5



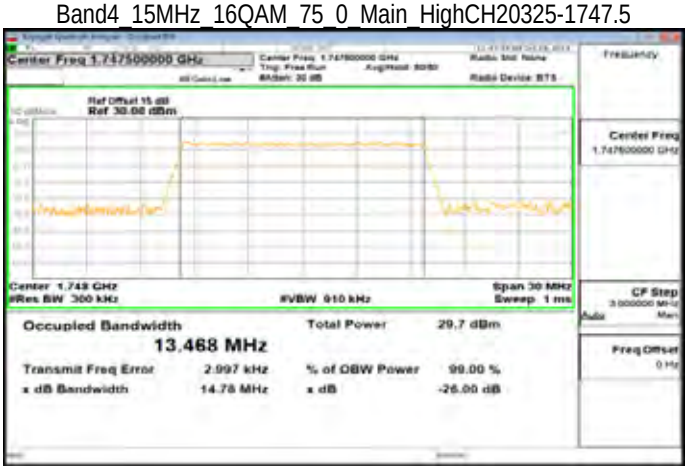
Band4_15MHz_16QAM_75_0_Main_MidCH20175-1732.5



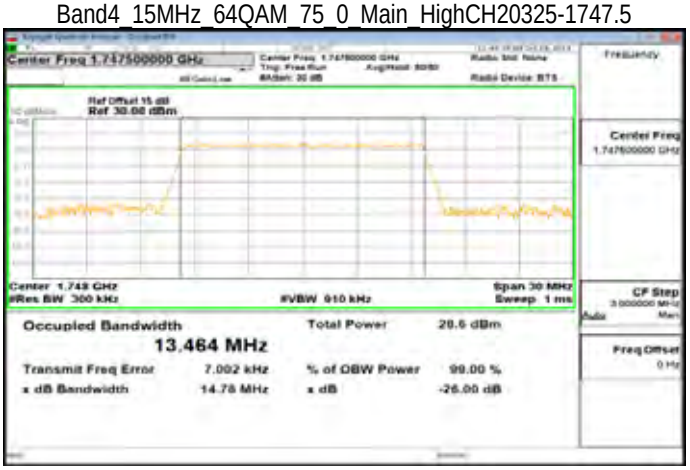
Band4_15MHz_64QAM_75_0_Main_MidCH20175-1732.5



Band4_15MHz_16QAM_75_0_Main_HighCH20325-1747.5

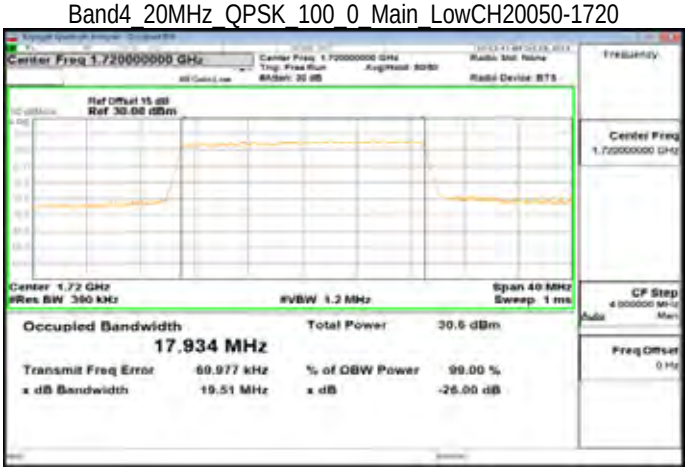


Band4_15MHz_64QAM_75_0_Main_HighCH20325-1747.5

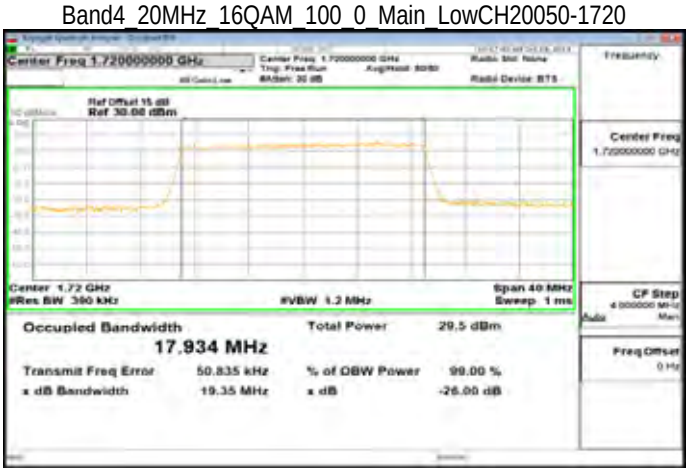


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

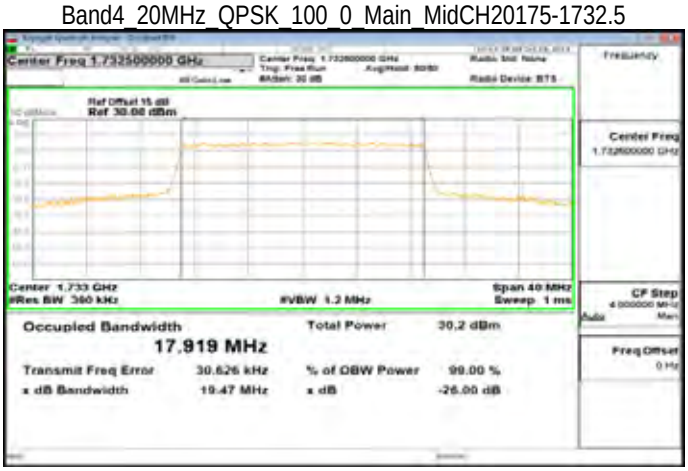
Band4_20MHz_QPSK_100_0_Main_LowCH20050-1720



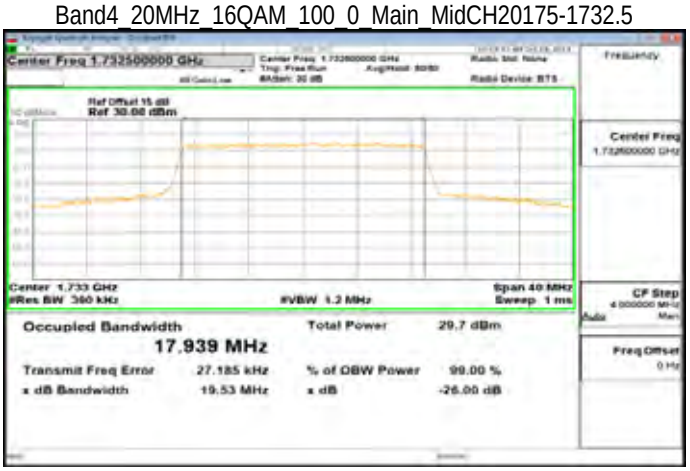
Band4_20MHz_16QAM_100_0_Main_LowCH20050-1720



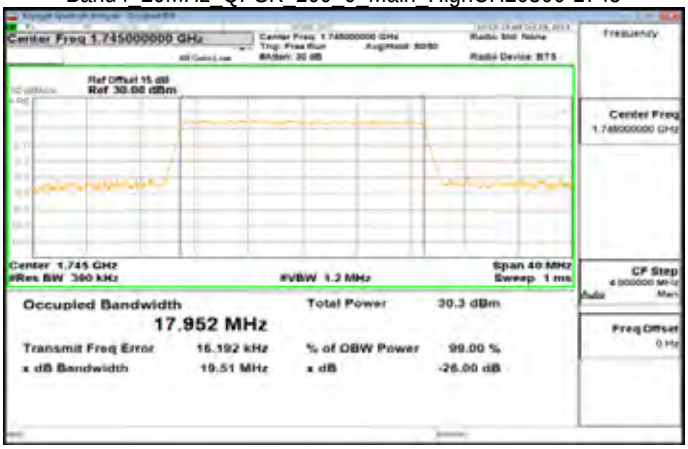
Band4_20MHz_QPSK_100_0_Main_MidCH20175-1732.5



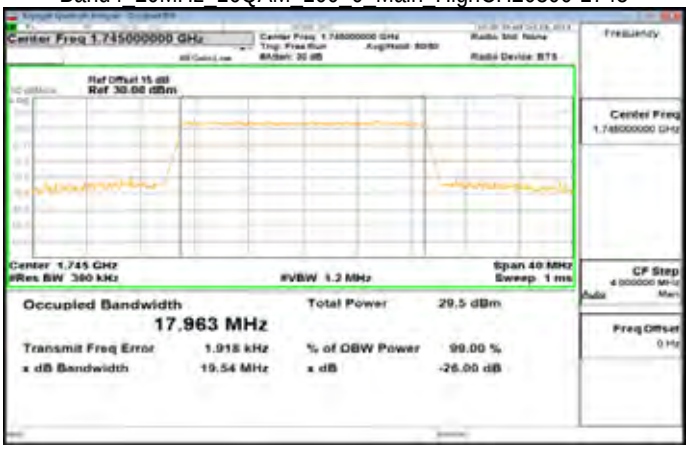
Band4_20MHz_16QAM_100_0_Main_MidCH20175-1732.5



Band4_20MHz_QPSK_100_0_Main_HighCH20300-1745



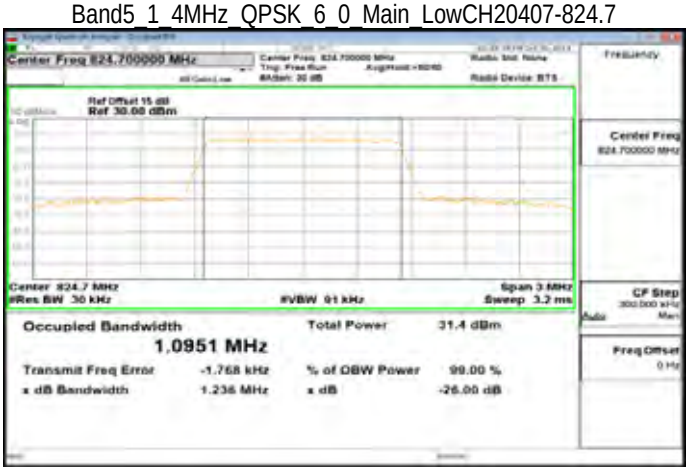
Band4_20MHz_16QAM_100_0_Main_HighCH20300-1745



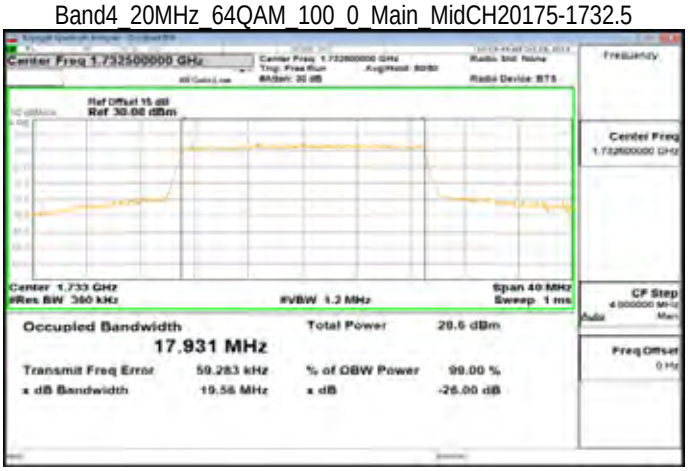
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

Band4_20MHz_64QAM_100_0_Main_LowCH20050-1720

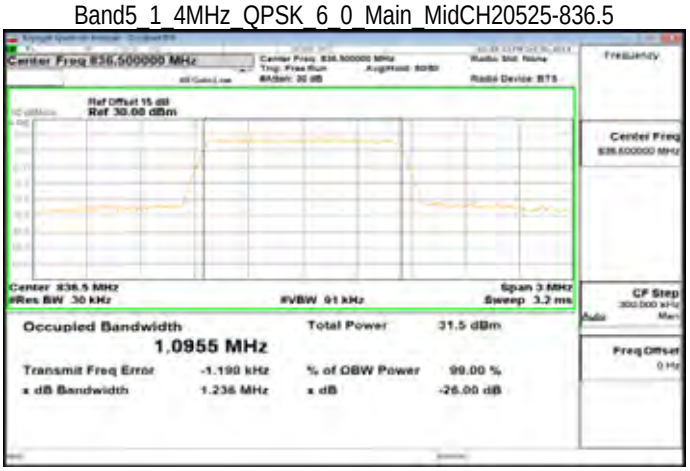
Band5_1_4MHz_QPSK_6_0_Main_LowCH20407-824.7



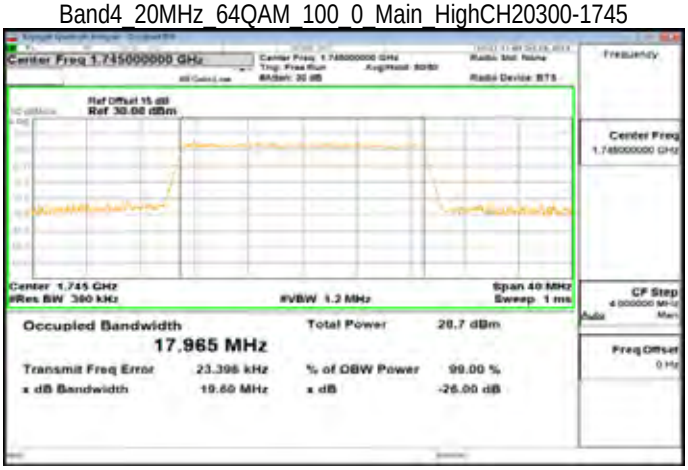
Band4_20MHz_64QAM_100_0_Main_MidCH20175-1732.5



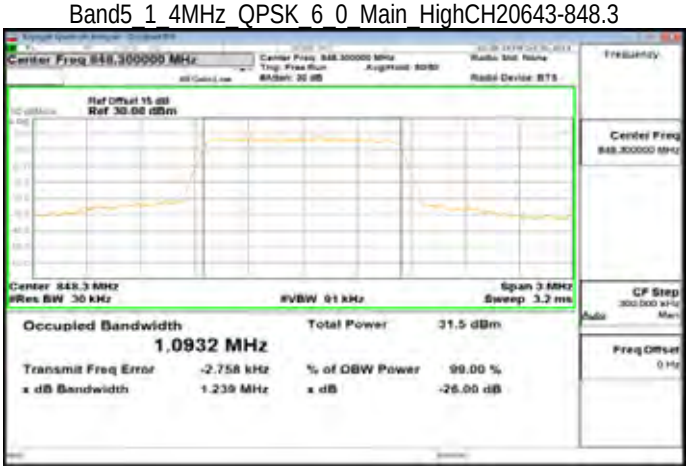
Band5_1_4MHz_QPSK_6_0_Main_MidCH20525-836.5



Band4_20MHz_64QAM_100_0_Main_HighCH20300-1745

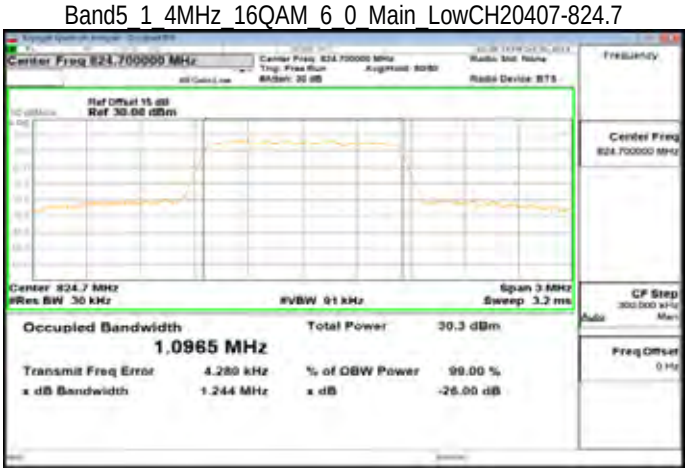


Band5_1_4MHz_QPSK_6_0_Main_HighCH20643-848.3

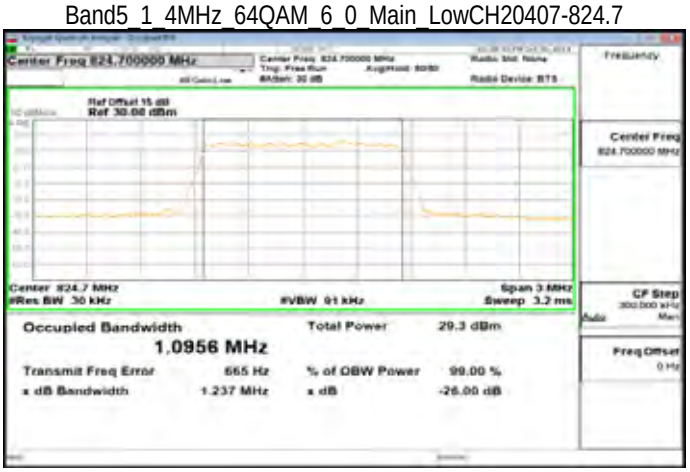


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

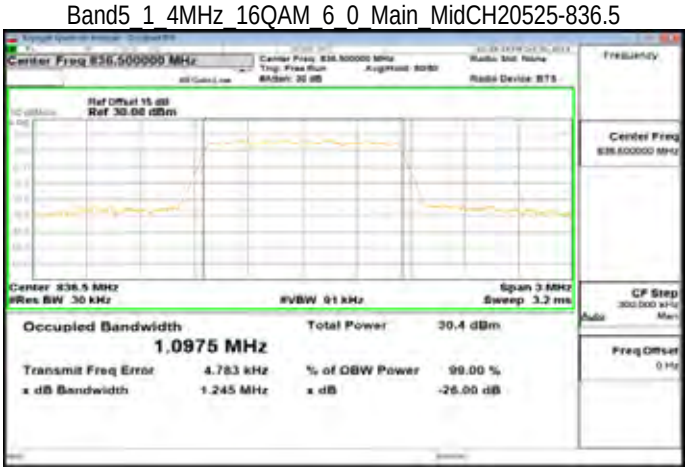
Band5_1_4MHz_16QAM_6_0_Main_LowCH20407-824.7



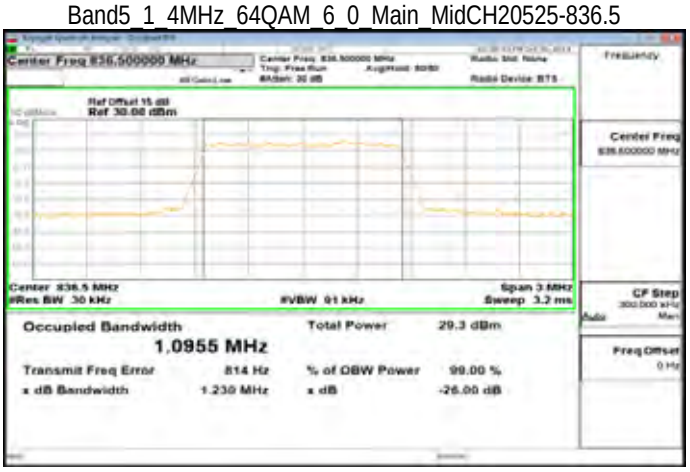
Band5_1_4MHz_64QAM_6_0_Main_LowCH20407-824.7



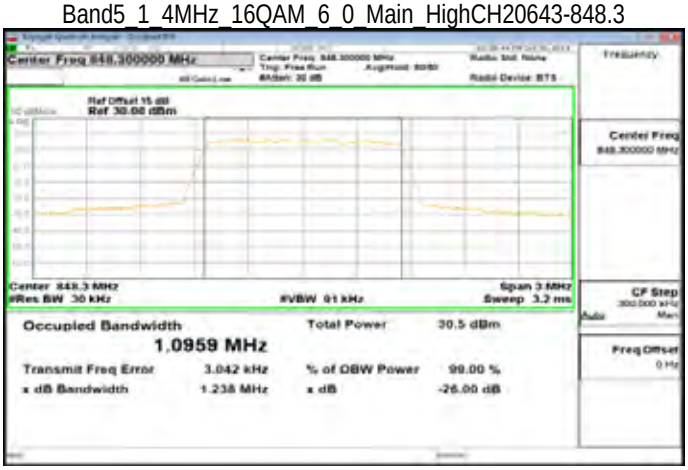
Band5_1_4MHz_16QAM_6_0_Main_MidCH20525-836.5



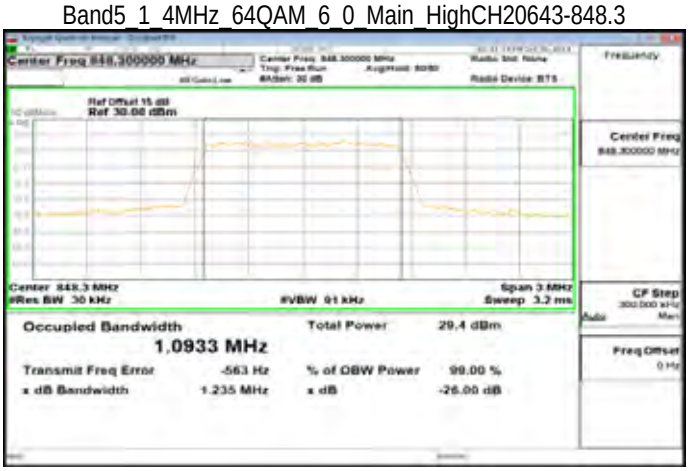
Band5_1_4MHz_64QAM_6_0_Main_MidCH20525-836.5



Band5_1_4MHz_16QAM_6_0_Main_HighCH20643-848.3

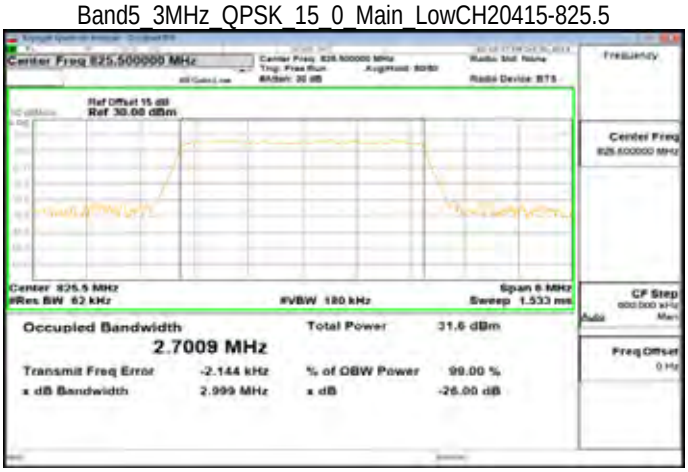


Band5_1_4MHz_64QAM_6_0_Main_HighCH20643-848.3

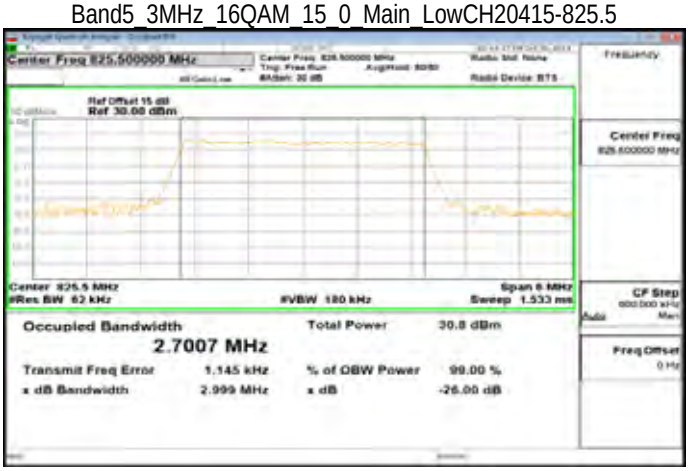


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

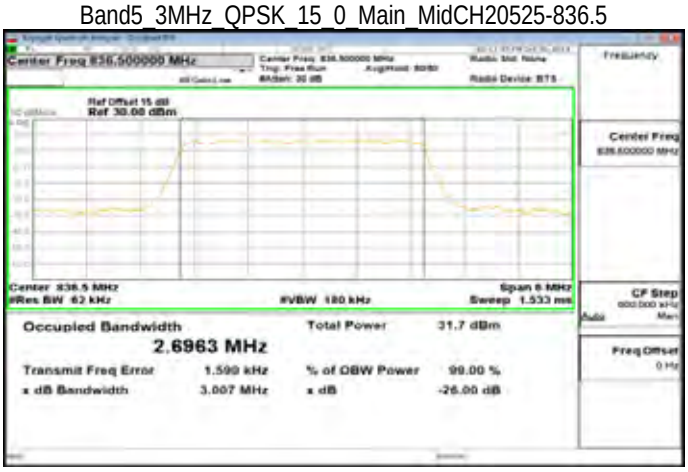
Band5_3MHz_QPSK_15_0_Main_LowCH20415-825.5



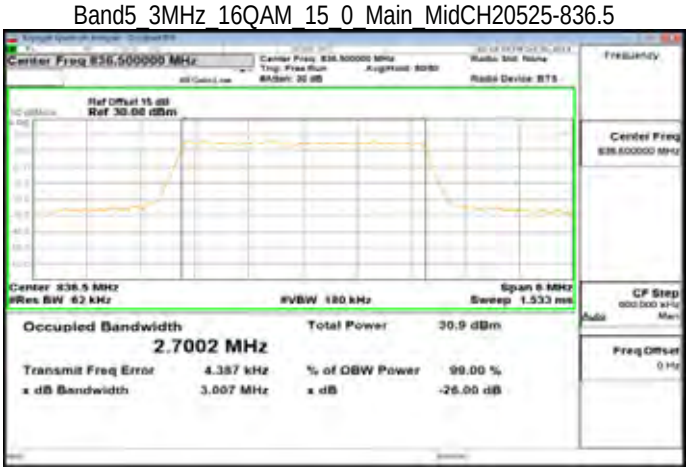
Band5_3MHz_16QAM_15_0_Main_LowCH20415-825.5



Band5_3MHz_QPSK_15_0_Main_MidCH20525-836.5

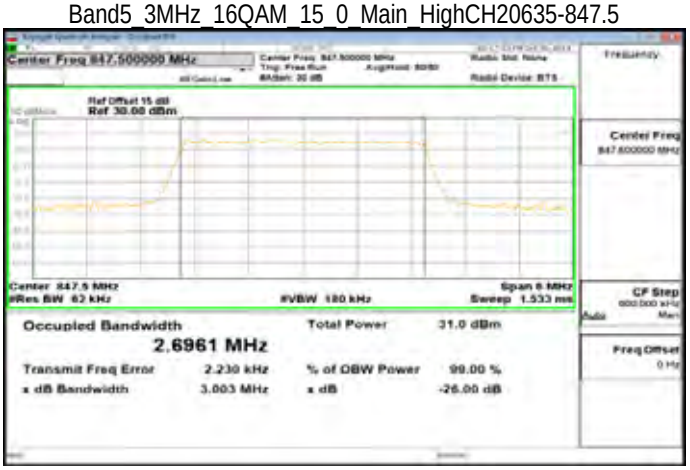


Band5_3MHz_16QAM_15_0_Main_MidCH20525-836.5



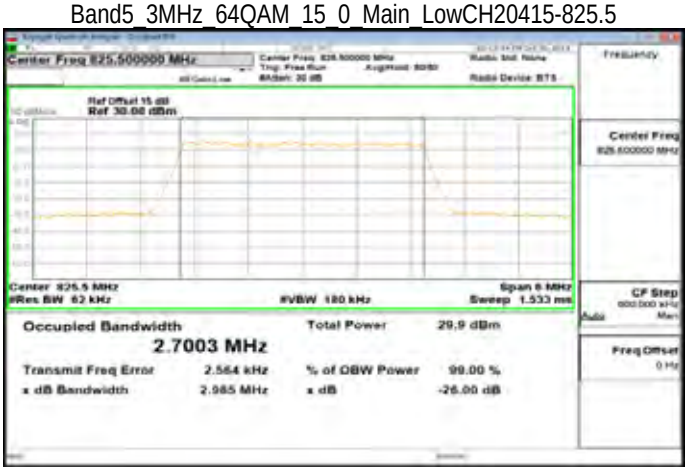
Band5_3MHz_QPSK_15_0_Main_HighCH20635-847.5

Band5_3MHz_16QAM_15_0_Main_HighCH20635-847.5

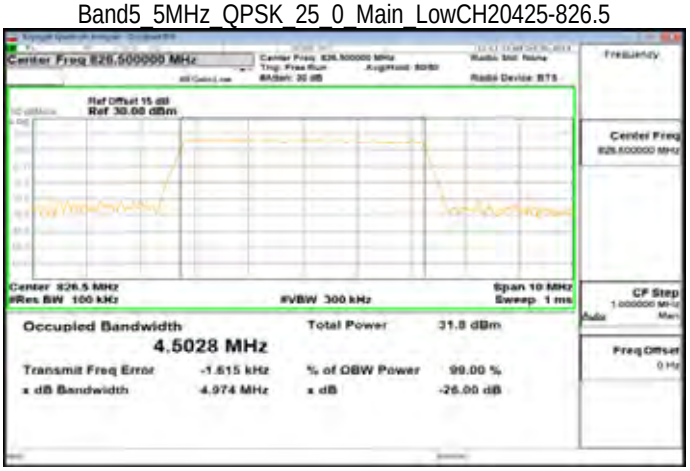


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

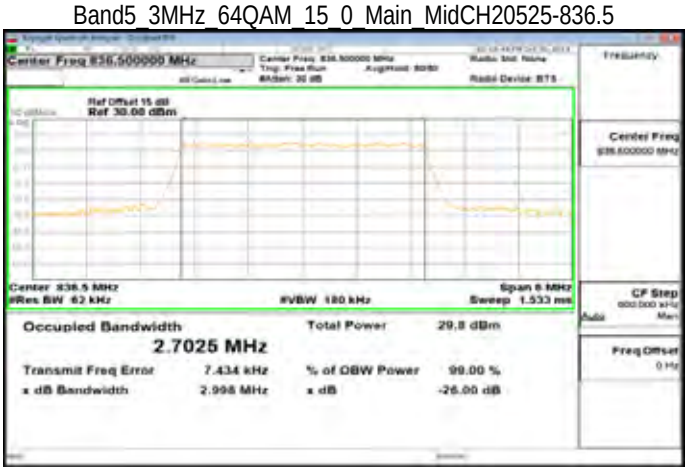
Band5_3MHz_64QAM_15_0_Main_LowCH20415-825.5



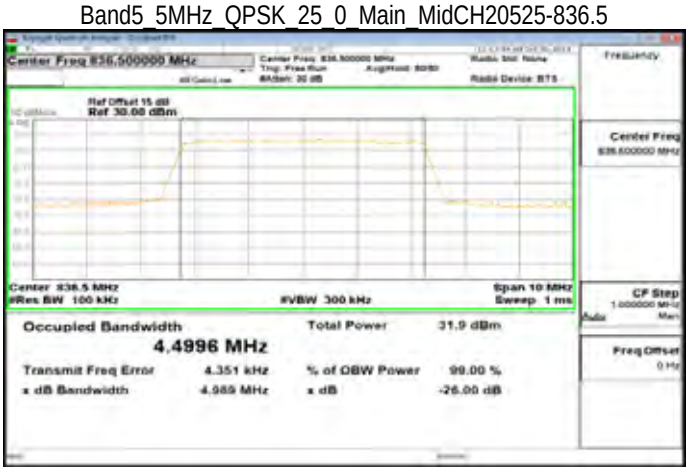
Band5_5MHz_QPSK_25_0_Main_LowCH20425-826.5



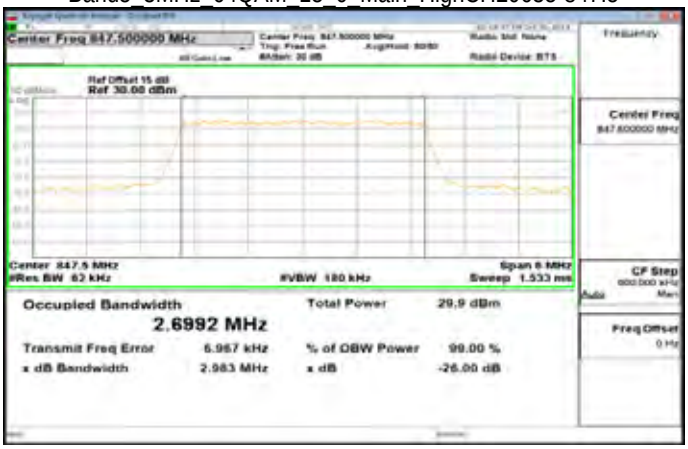
Band5_3MHz_64QAM_15_0_Main_MidCH20525-836.5



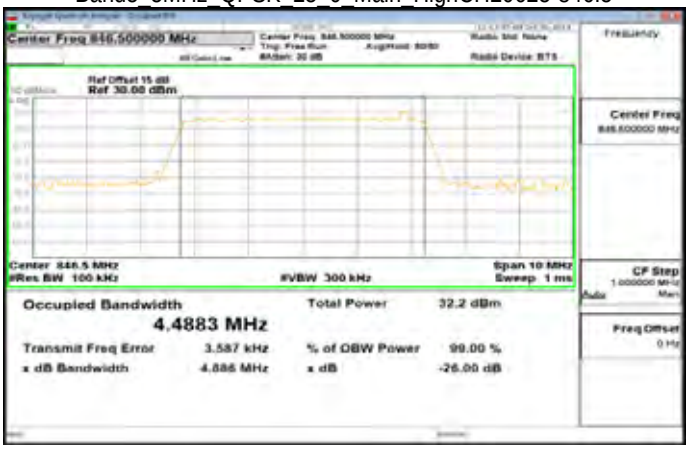
Band5_5MHz_QPSK_25_0_Main_MidCH20525-836.5



Band5_3MHz_64QAM_15_0_Main_HighCH20635-847.5

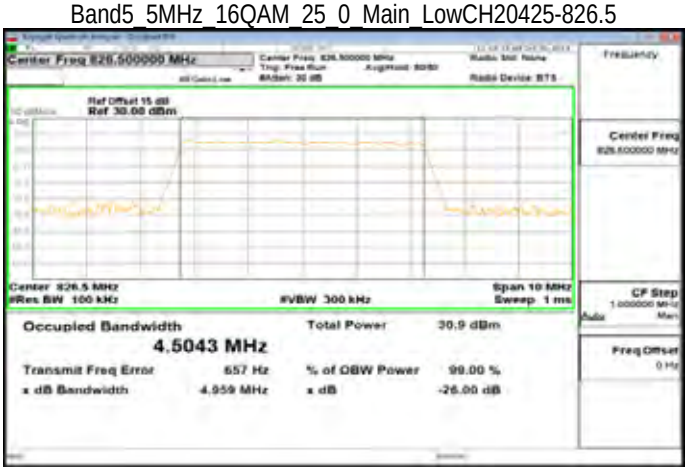


Band5_5MHz_QPSK_25_0_Main_HighCH20625-846.5

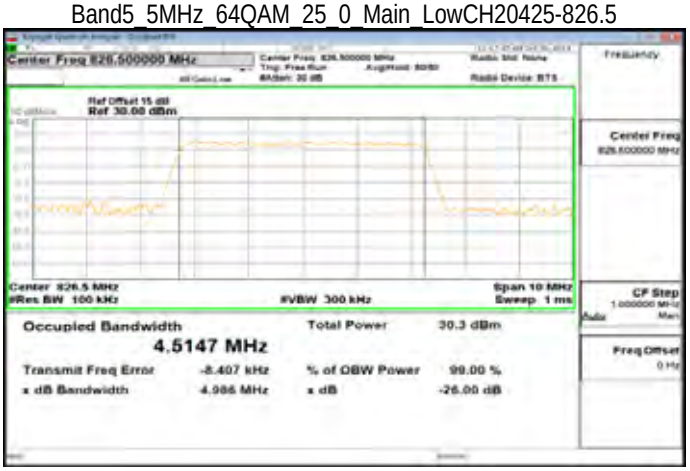


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

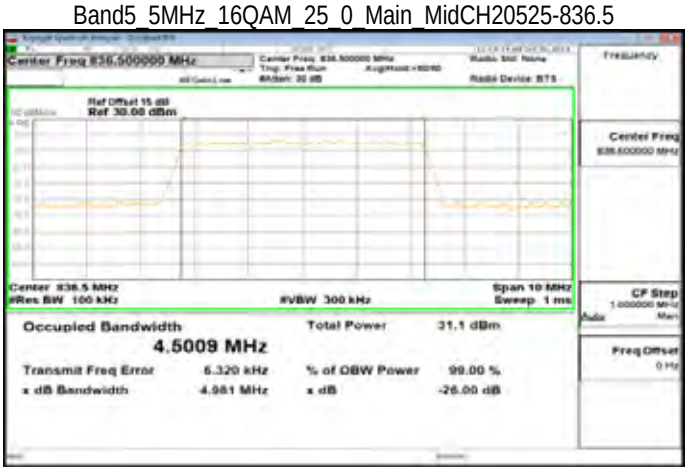
Band5_5MHz_16QAM_25_0_Main_LowCH20425-826.5



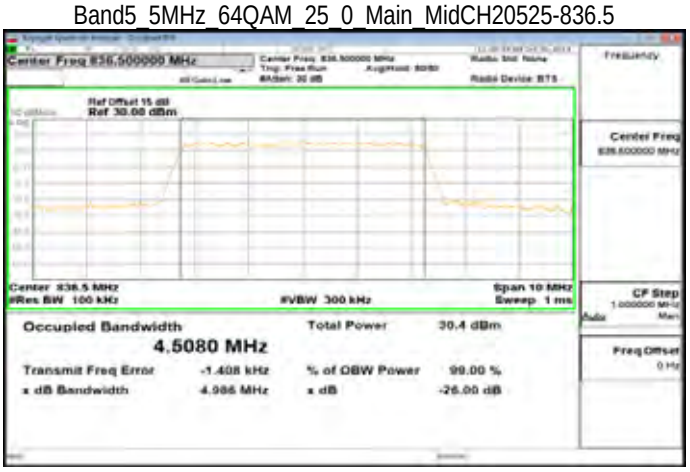
Band5_5MHz_64QAM_25_0_Main_LowCH20425-826.5



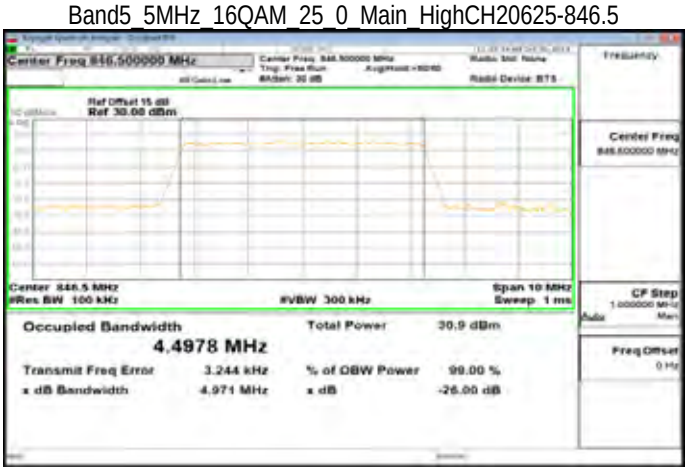
Band5_5MHz_16QAM_25_0_Main_MidCH20525-836.5



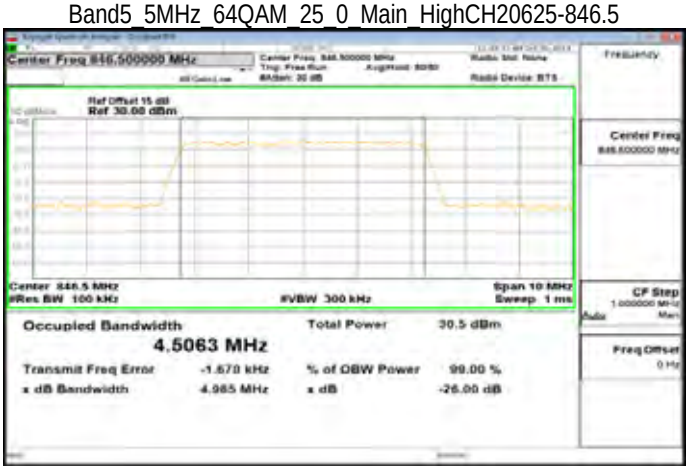
Band5_5MHz_64QAM_25_0_Main_MidCH20525-836.5



Band5_5MHz_16QAM_25_0_Main_HighCH20625-846.5

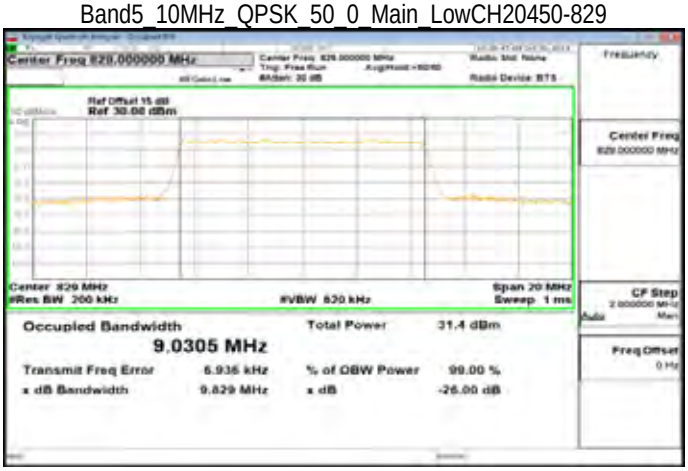


Band5_5MHz_64QAM_25_0_Main_HighCH20625-846.5

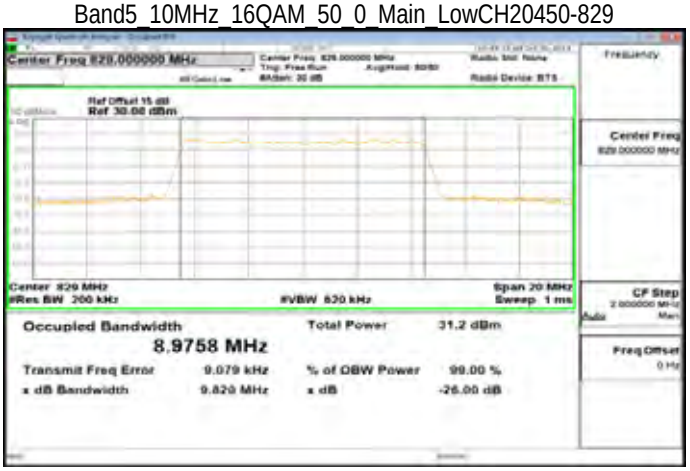


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

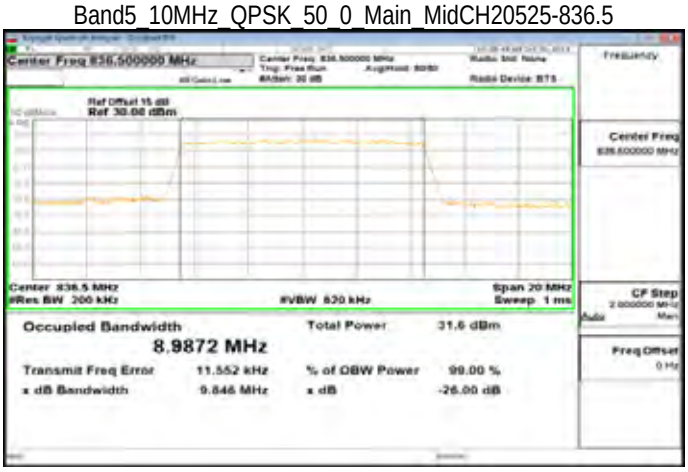
Band5_10MHz_QPSK_50_0_Main_LowCH20450-829



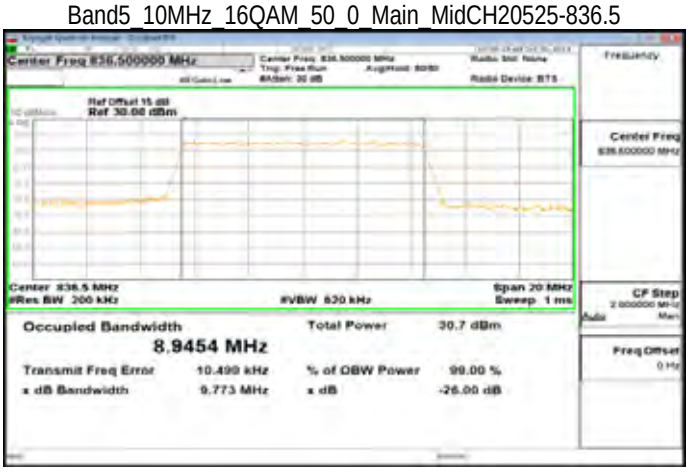
Band5_10MHz_16QAM_50_0_Main_LowCH20450-829



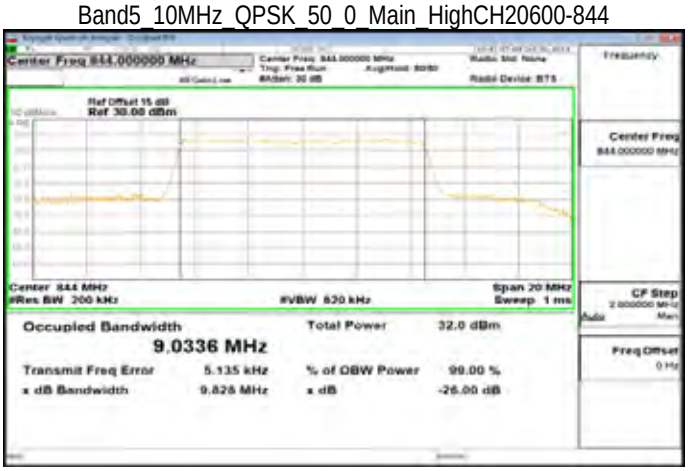
Band5_10MHz_QPSK_50_0_Main_MidCH20525-836.5



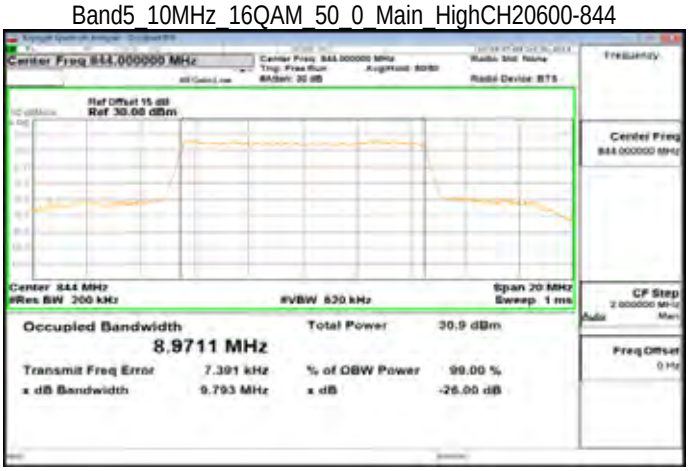
Band5_10MHz_16QAM_50_0_Main_MidCH20525-836.5



Band5_10MHz_QPSK_50_0_Main_HighCH20600-844

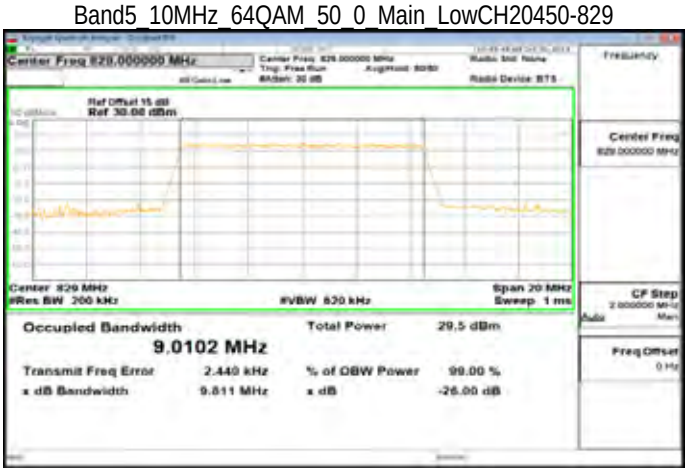


Band5_10MHz_16QAM_50_0_Main_HighCH20600-844

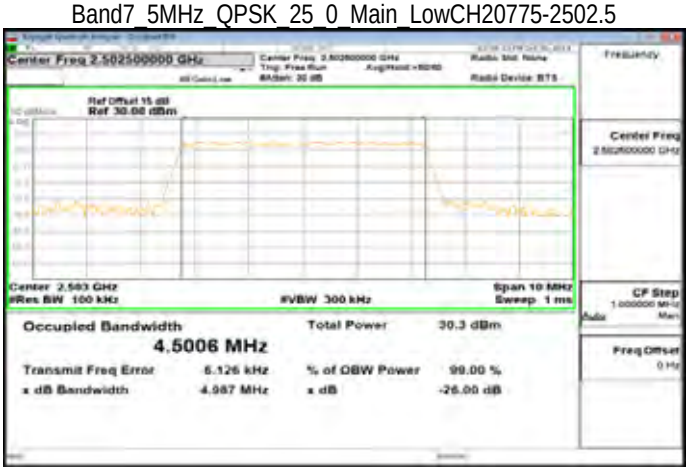


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

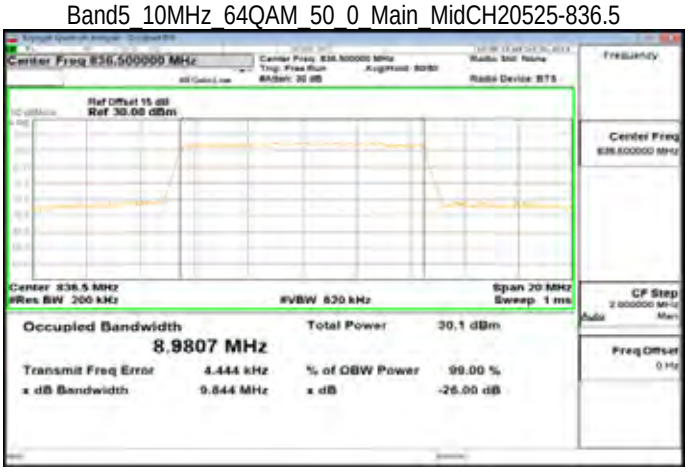
Band5_10MHz_64QAM_50_0_Main_LowCH20450-829



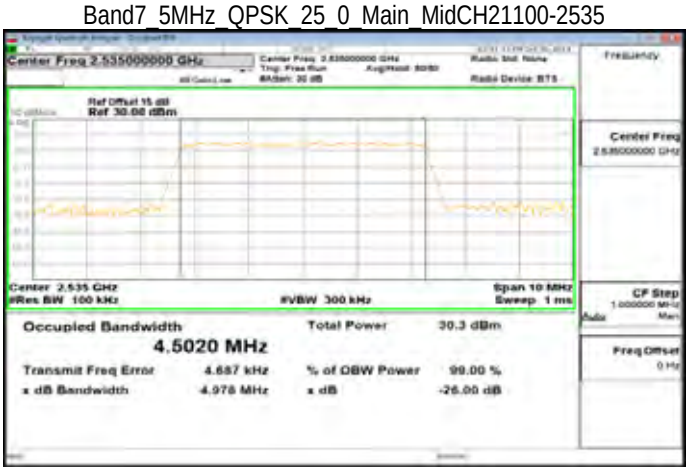
Band7_5MHz_QPSK_25_0_Main_LowCH20775-2502.5



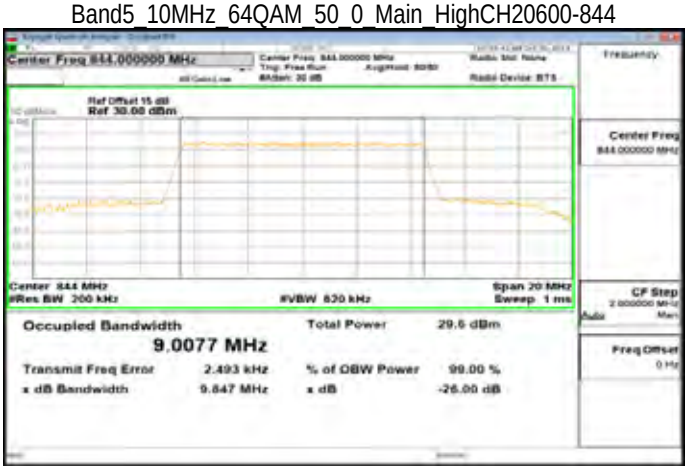
Band5_10MHz_64QAM_50_0_Main_MidCH20525-836.5



Band7_5MHz_QPSK_25_0_Main_MidCH21100-2535



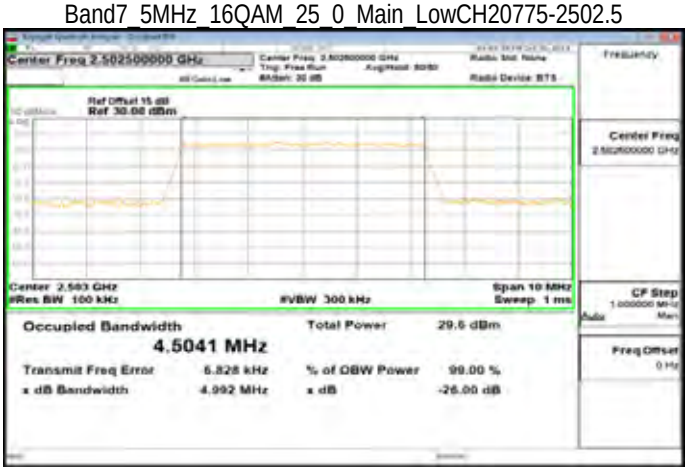
Band5_10MHz_64QAM_50_0_Main_HighCH20600-844



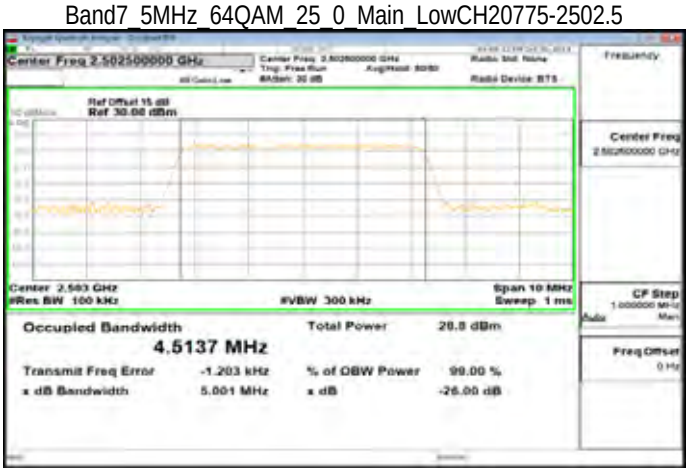
Band7_5MHz_QPSK_25_0_Main_HighCH21425-2567.5

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

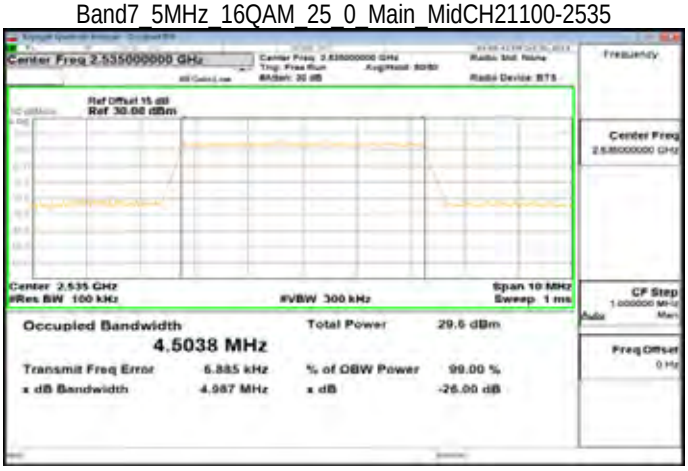
Band7_5MHz_16QAM_25_0_Main_LowCH20775-2502.5



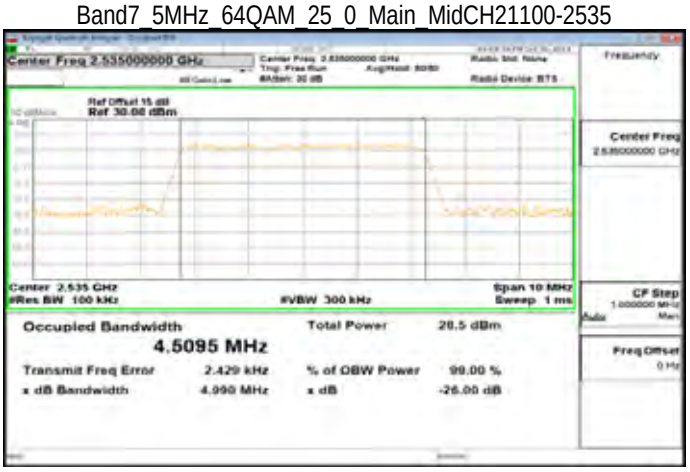
Band7_5MHz_64QAM_25_0_Main_LowCH20775-2502.5



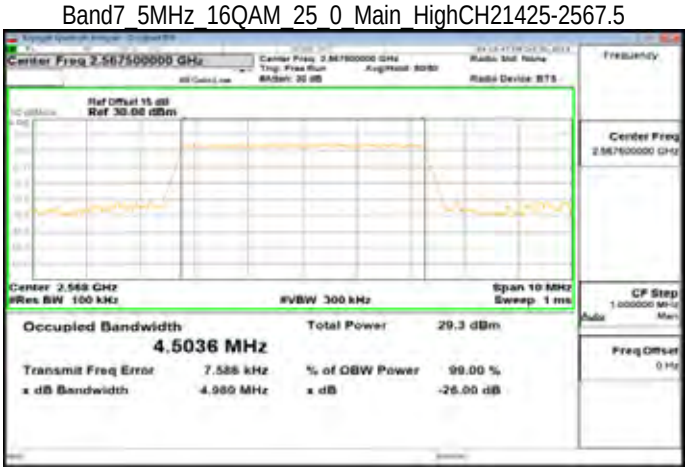
Band7_5MHz_16QAM_25_0_Main_MidCH21100-2535



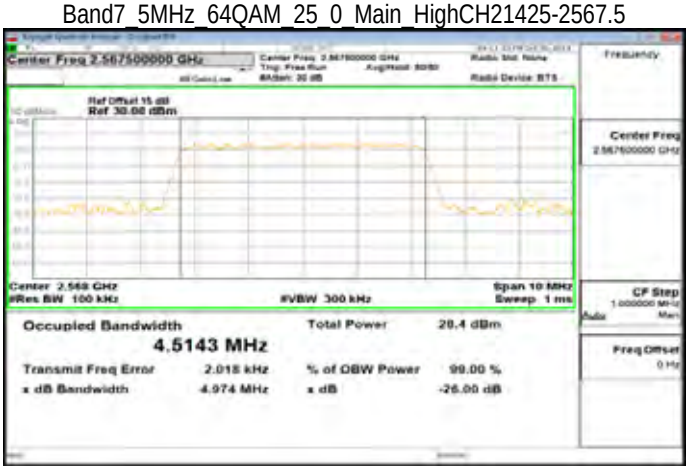
Band7_5MHz_64QAM_25_0_Main_MidCH21100-2535



Band7_5MHz_16QAM_25_0_Main_HighCH21425-2567.5

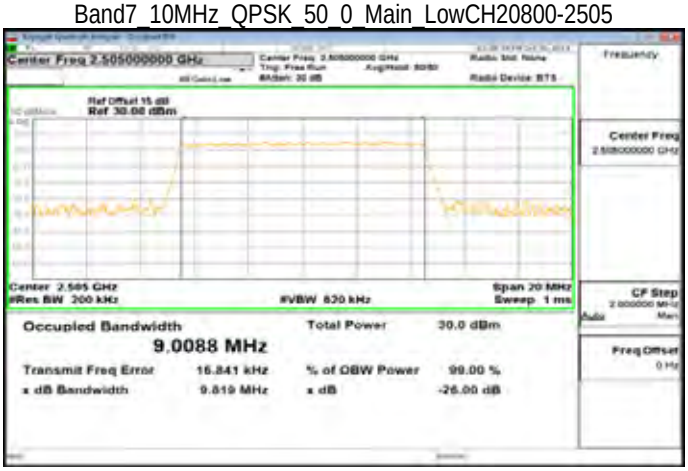


Band7_5MHz_64QAM_25_0_Main_HighCH21425-2567.5

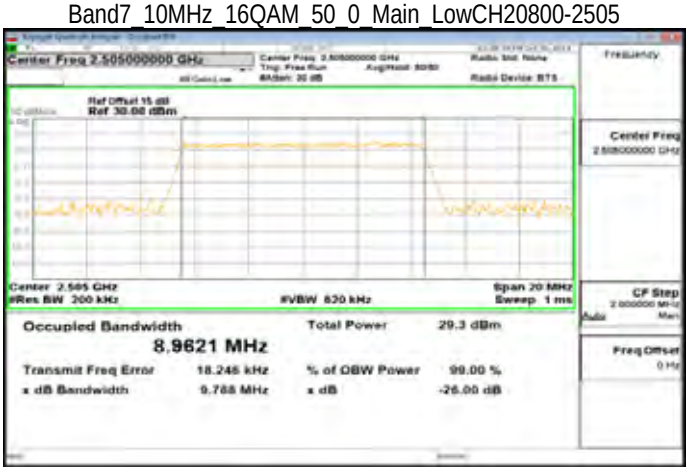


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

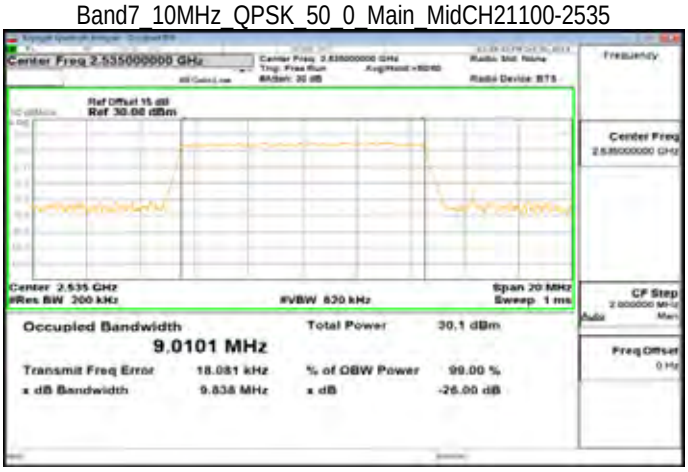
Band7_10MHz_QPSK_50_0_Main_LowCH20800-2505



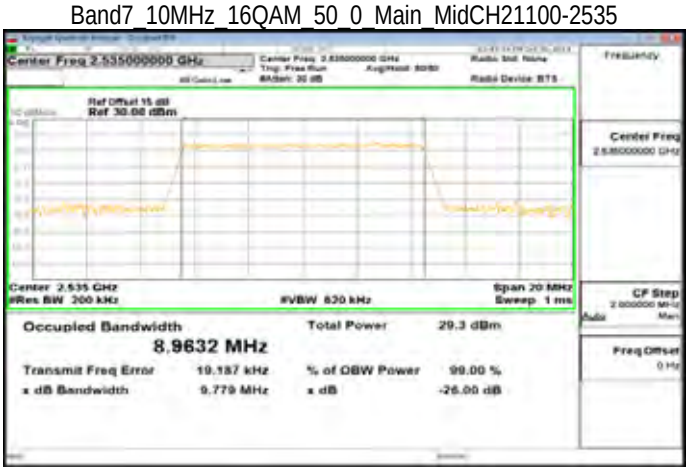
Band7_10MHz_16QAM_50_0_Main_LowCH20800-2505



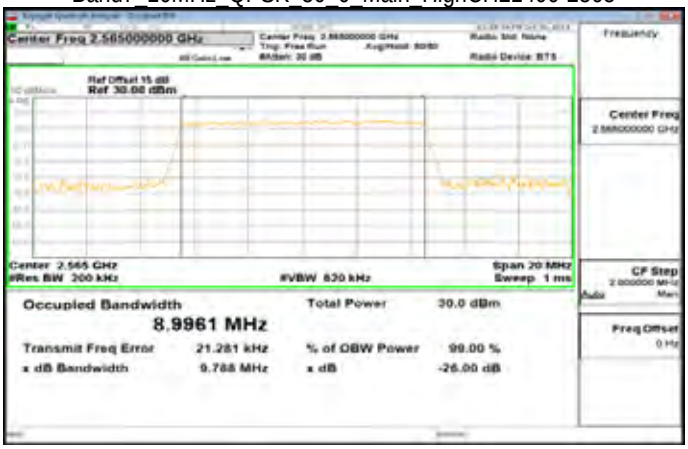
Band7_10MHz_QPSK_50_0_Main_MidCH21100-2535



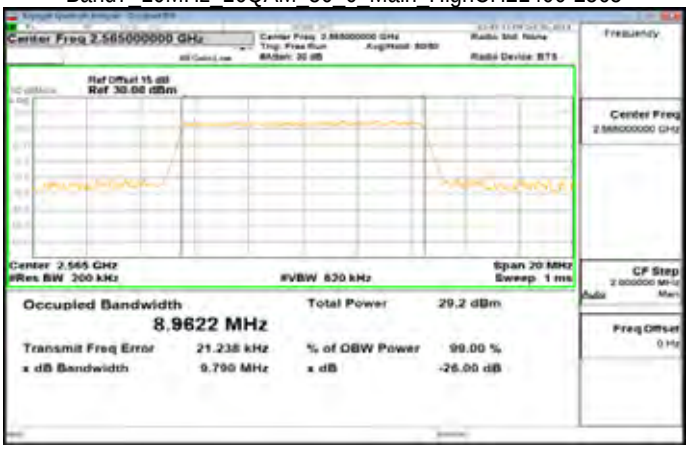
Band7_10MHz_16QAM_50_0_Main_MidCH21100-2535



Band7_10MHz_QPSK_50_0_Main_HighCH21400-2565

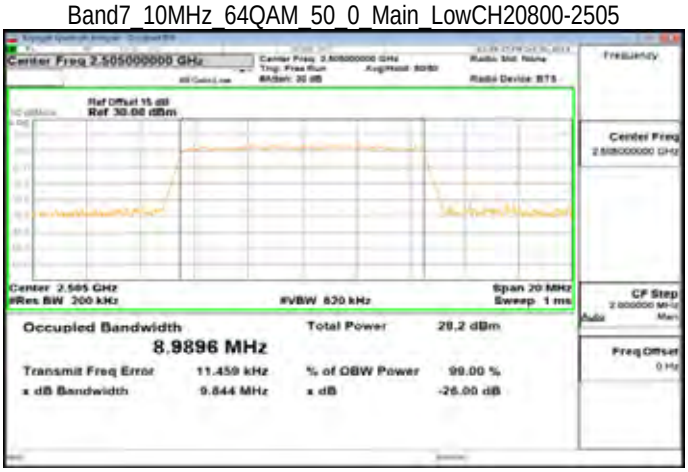


Band7_10MHz_16QAM_50_0_Main_HighCH21400-2565

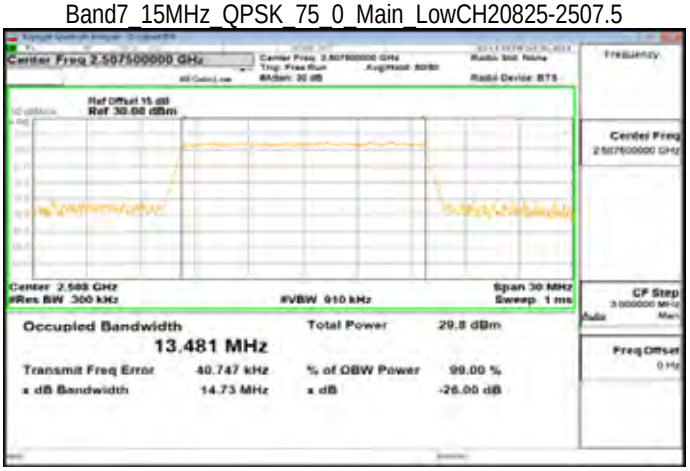


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

Band7_10MHz_64QAM_50_0_Main_LowCH20800-2505

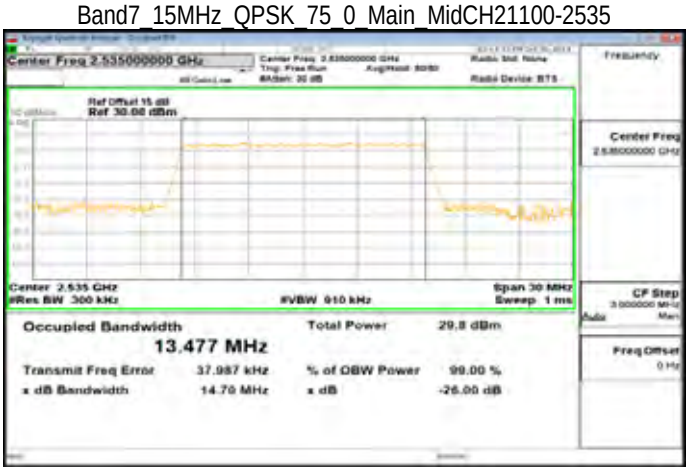


Band7_15MHz_QPSK_75_0_Main_LowCH20825-2507.5

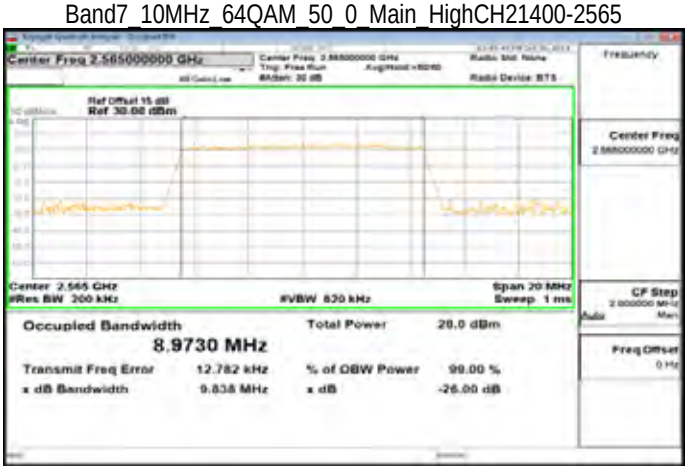


Band7_10MHz_64QAM_50_0_Main_MidCH21100-2535

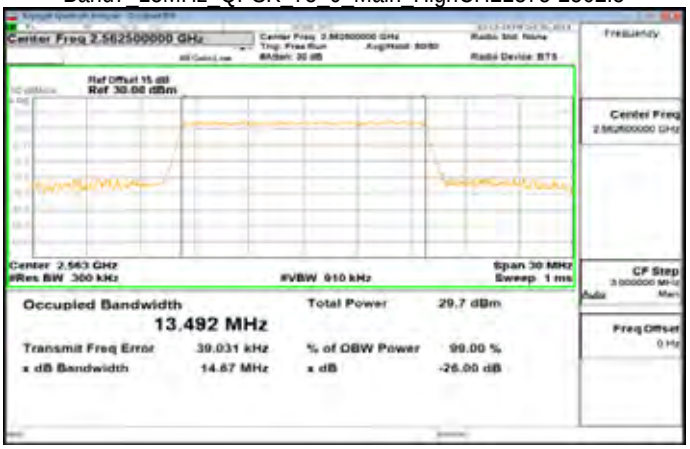
Band7_15MHz_QPSK_75_0_Main_MidCH21100-2535



Band7_10MHz_64QAM_50_0_Main_HighCH21400-2565

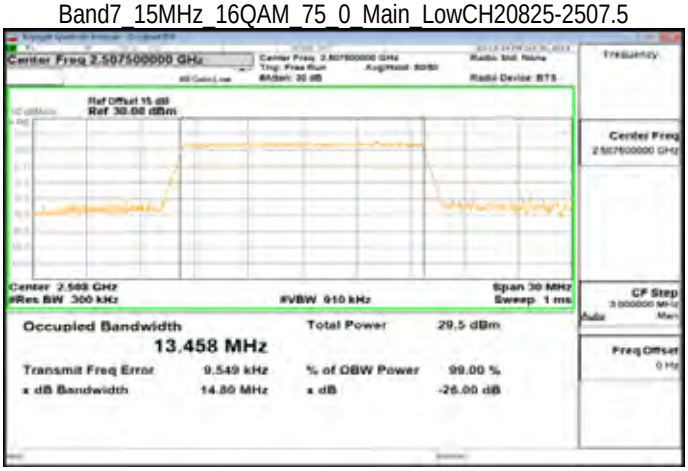


Band7_15MHz_QPSK_75_0_Main_HighCH21375-2562.5

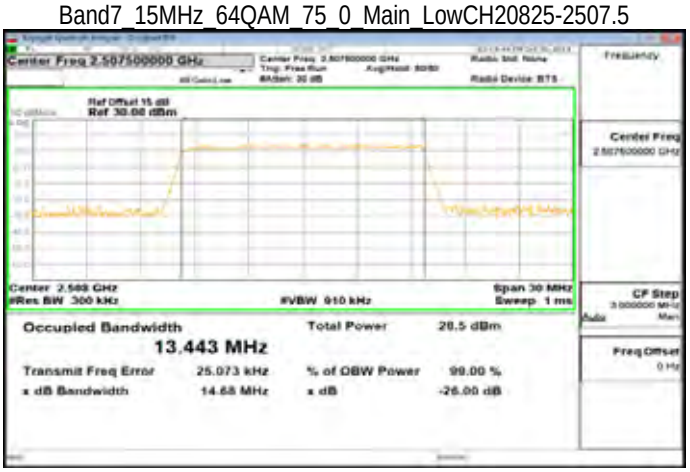


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

Band7_15MHz_16QAM_75_0_Main_LowCH20825-2507.5

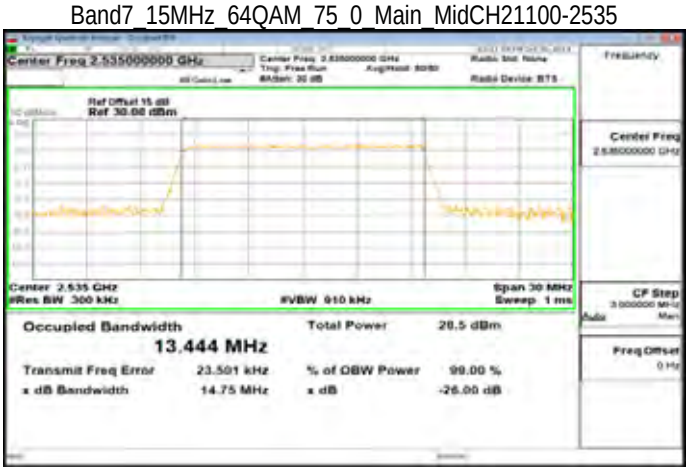


Band7_15MHz_64QAM_75_0_Main_LowCH20825-2507.5

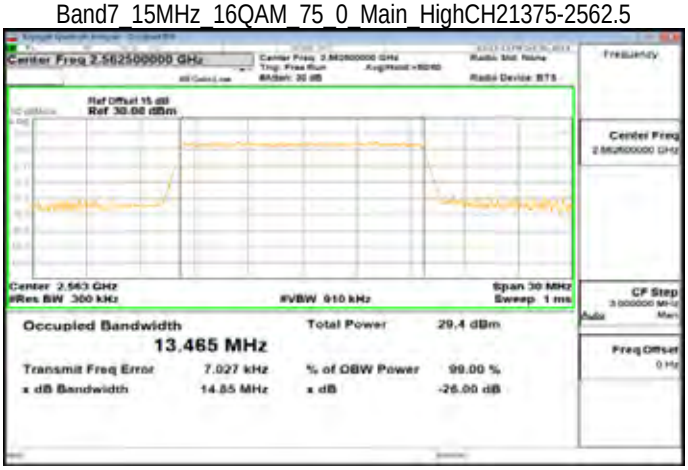


Band7_15MHz_16QAM_75_0_Main_MidCH21100-2535

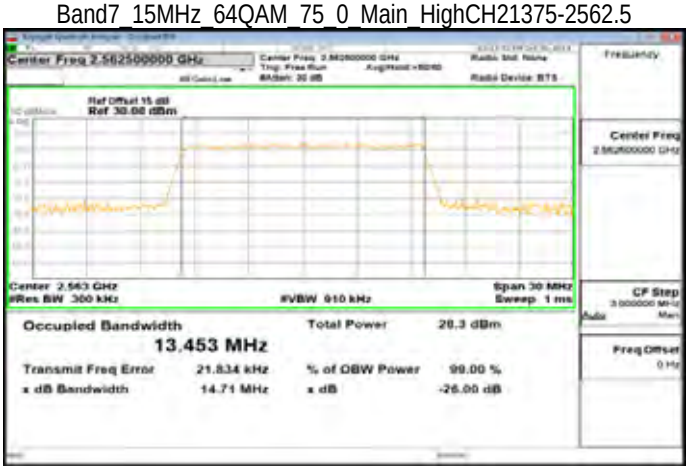
Band7_15MHz_64QAM_75_0_Main_MidCH21100-2535



Band7_15MHz_16QAM_75_0_Main_HighCH21375-2562.5

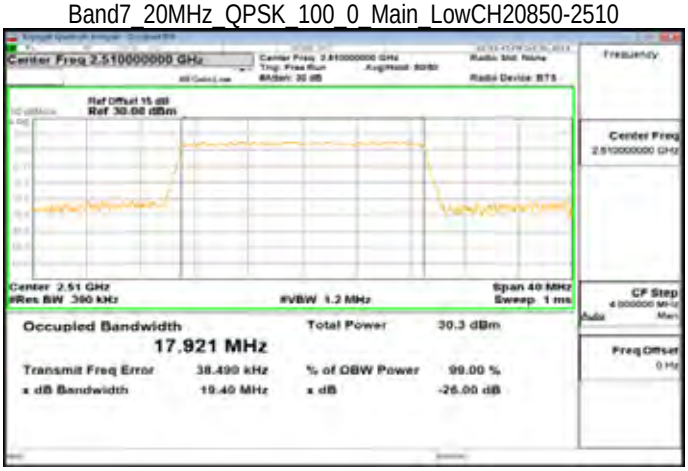


Band7_15MHz_64QAM_75_0_Main_HighCH21375-2562.5

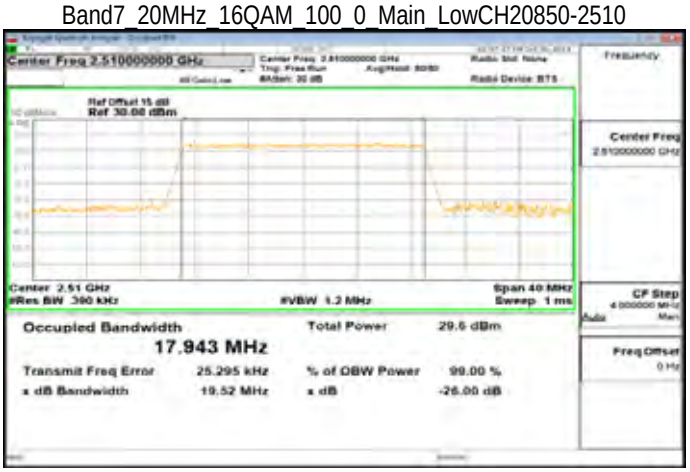


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

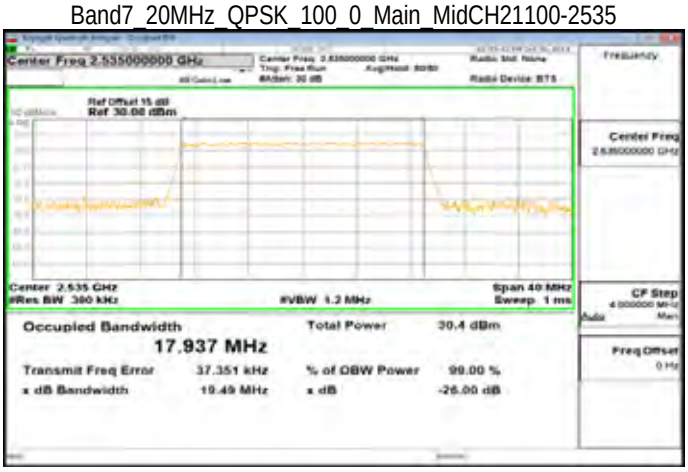
Band7_20MHz_QPSK_100_0_Main_LowCH20850-2510



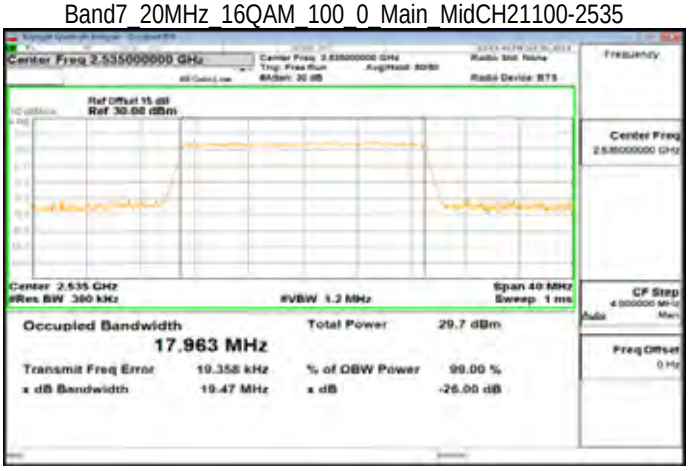
Band7_20MHz_16QAM_100_0_Main_LowCH20850-2510



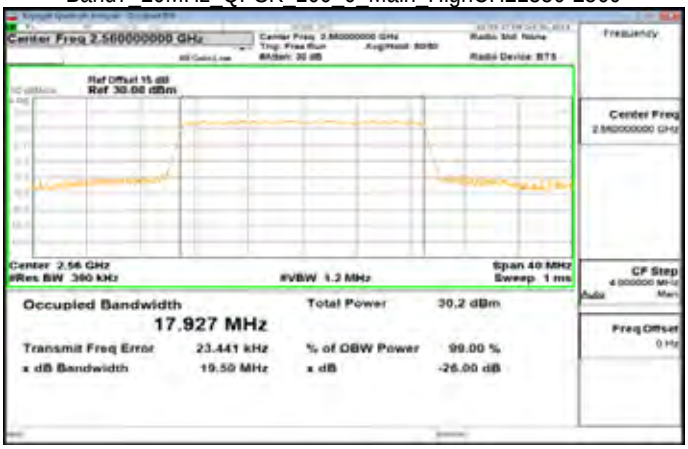
Band7_20MHz_QPSK_100_0_Main_MidCH21100-2535



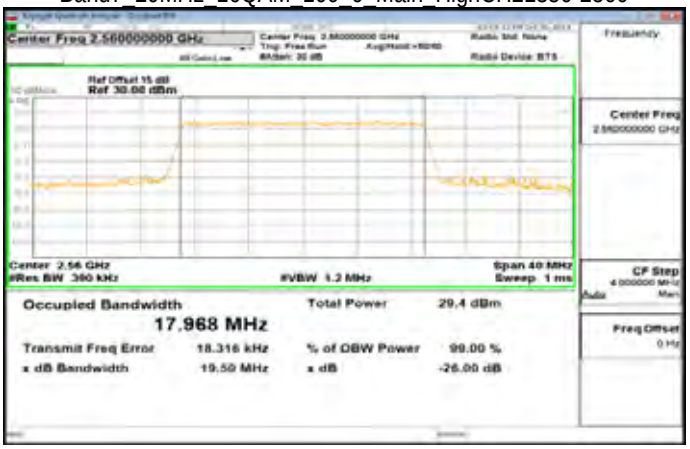
Band7_20MHz_16QAM_100_0_Main_MidCH21100-2535



Band7_20MHz_QPSK_100_0_Main_HighCH21350-2560



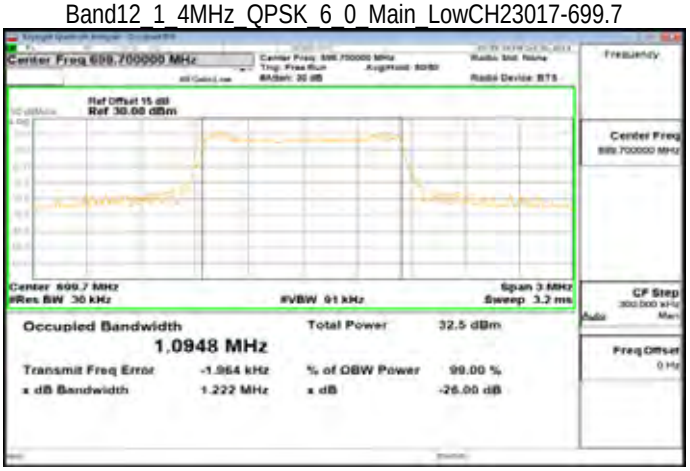
Band7_20MHz_16QAM_100_0_Main_HighCH21350-2560



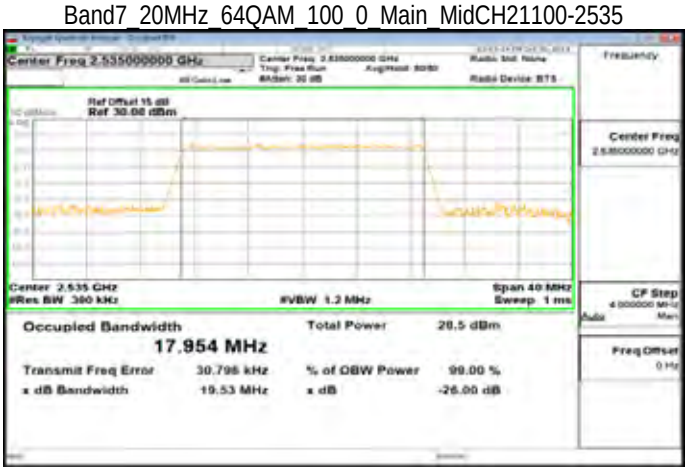
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

Band7_20MHz_64QAM_100_0_Main_LowCH20850-2510

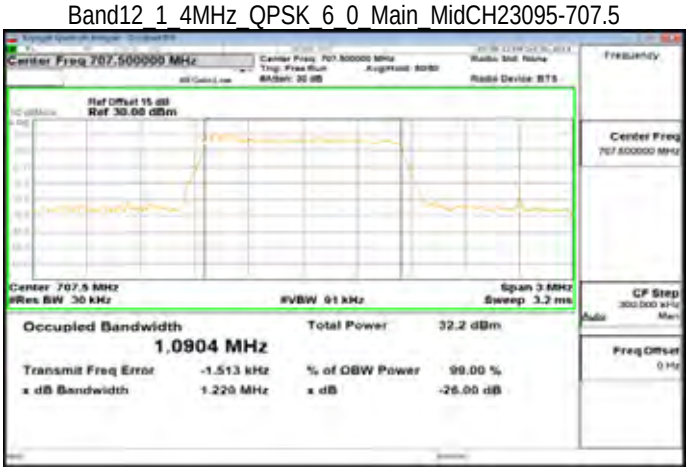
Band12_1_4MHz_QPSK_6_0_Main_LowCH23017-699.7



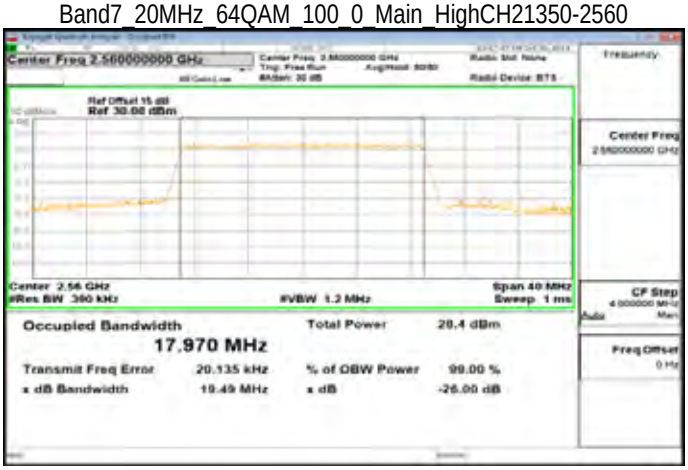
Band7_20MHz_64QAM_100_0_Main_MidCH21100-2535



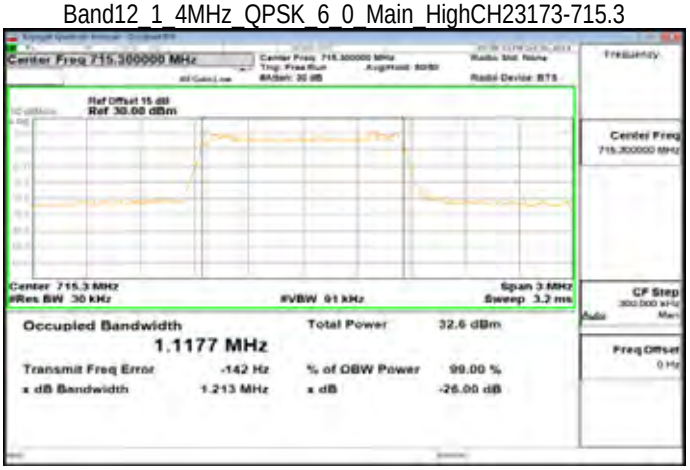
Band12_1_4MHz_QPSK_6_0_Main_MidCH23095-707.5



Band7_20MHz_64QAM_100_0_Main_HighCH21350-2560

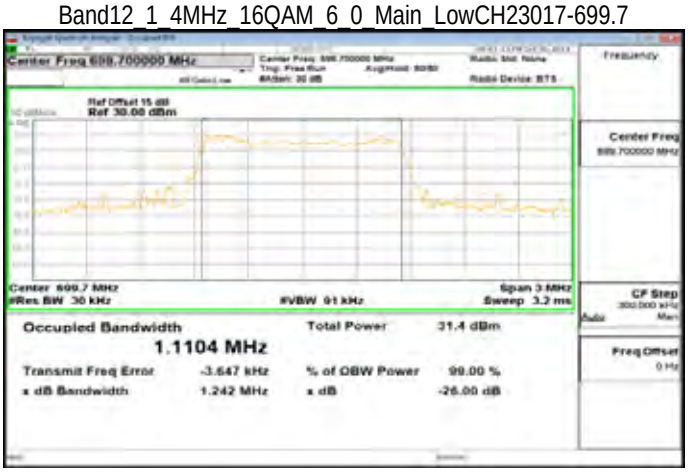


Band12_1_4MHz_QPSK_6_0_Main_HighCH23173-715.3

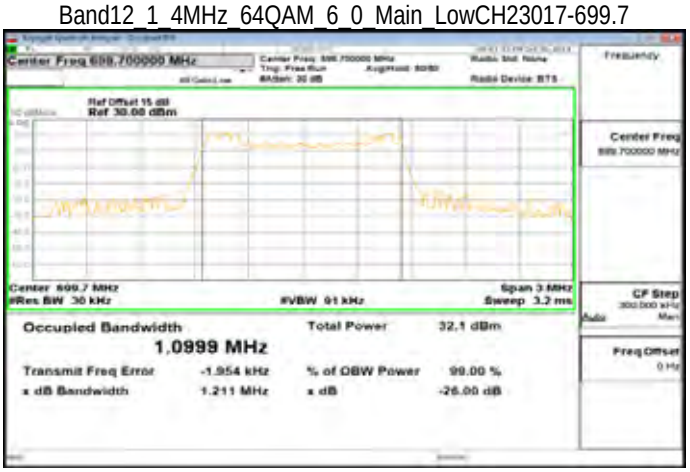


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

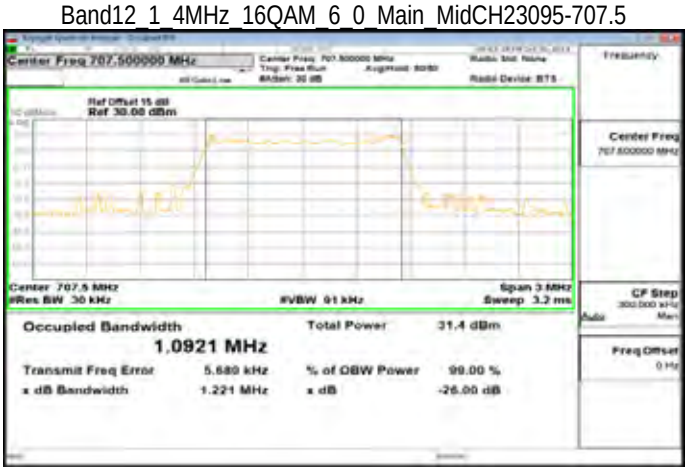
Band12_1_4MHz_16QAM_6_0_Main_LowCH23017-699.7



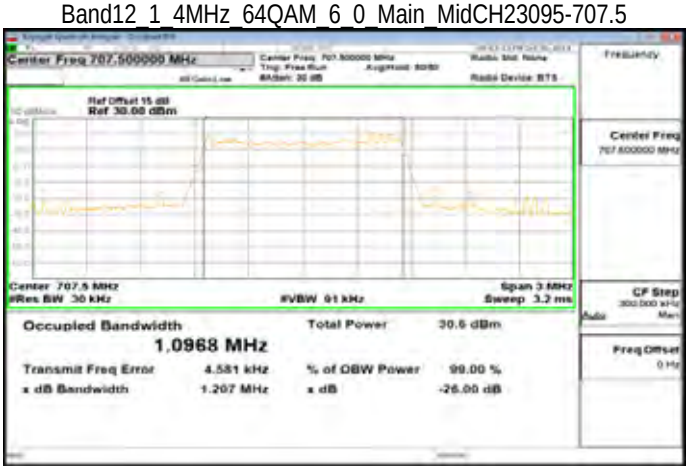
Band12_1_4MHz_64QAM_6_0_Main_LowCH23017-699.7



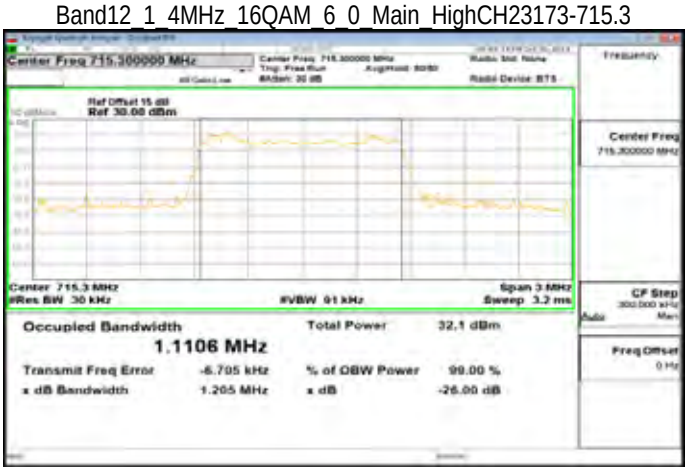
Band12_1_4MHz_16QAM_6_0_Main_MidCH23095-707.5



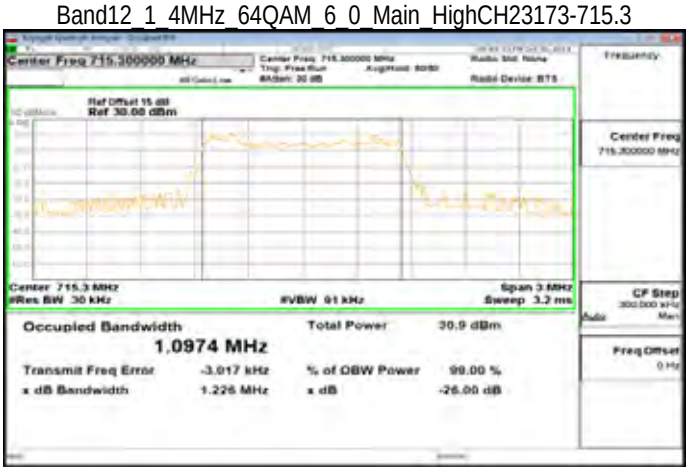
Band12_1_4MHz_64QAM_6_0_Main_MidCH23095-707.5



Band12_1_4MHz_16QAM_6_0_Main_HighCH23173-715.3

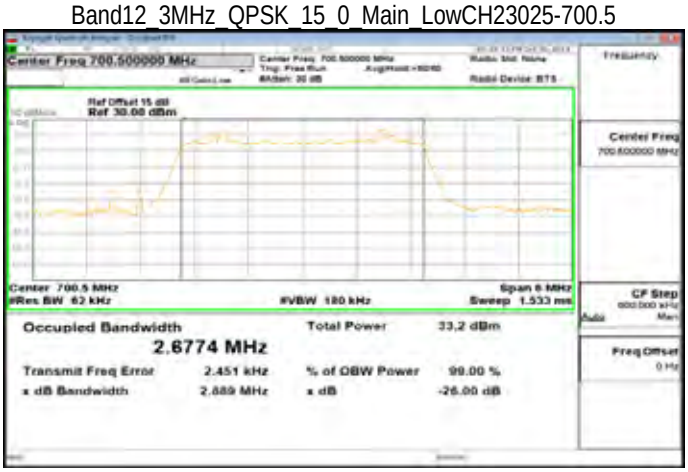


Band12_1_4MHz_64QAM_6_0_Main_HighCH23173-715.3

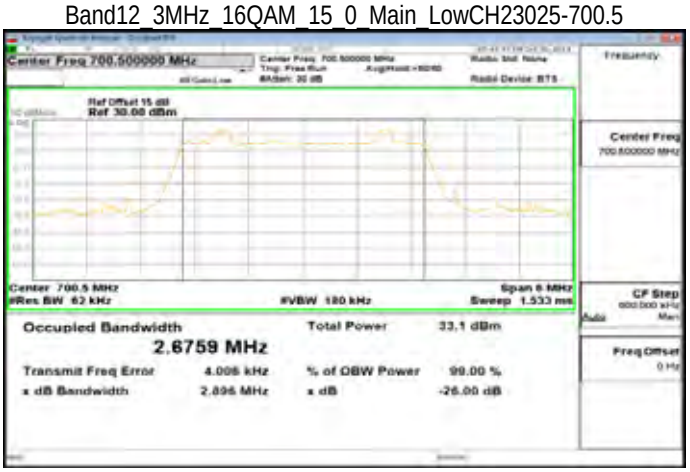


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

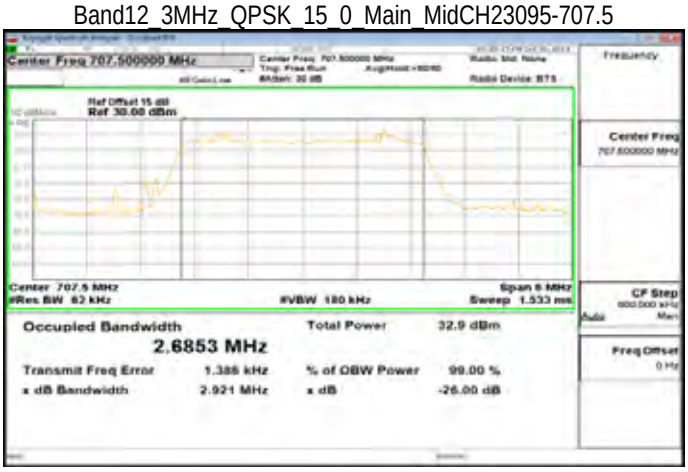
Band12_3MHz_QPSK_15_0_Main_LowCH23025-700.5



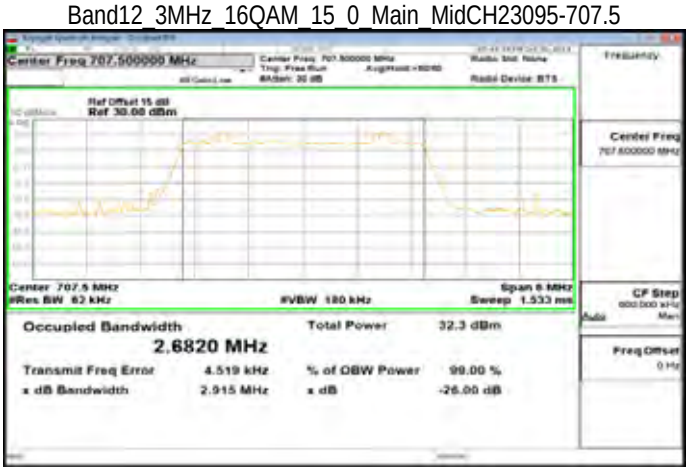
Band12_3MHz_16QAM_15_0_Main_LowCH23025-700.5



Band12_3MHz_QPSK_15_0_Main_MidCH23095-707.5

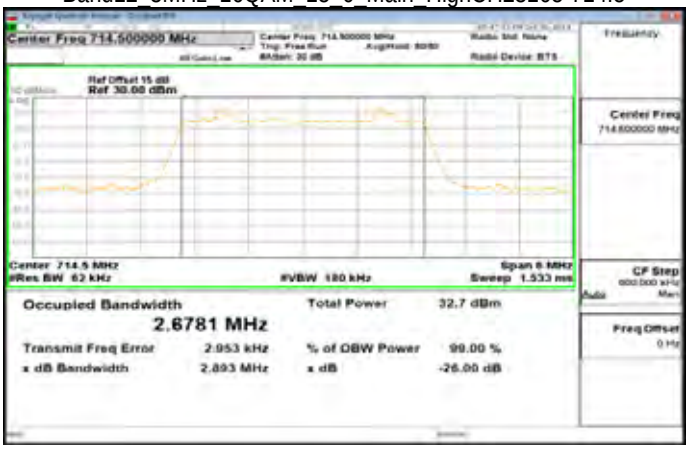


Band12_3MHz_16QAM_15_0_Main_MidCH23095-707.5



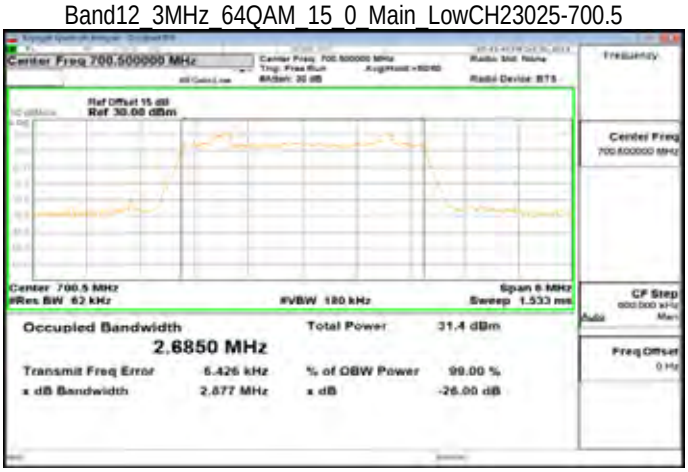
Band12_3MHz_QPSK_15_0_Main_HighCH23165-714.5

Band12_3MHz_16QAM_15_0_Main_HighCH23165-714.5

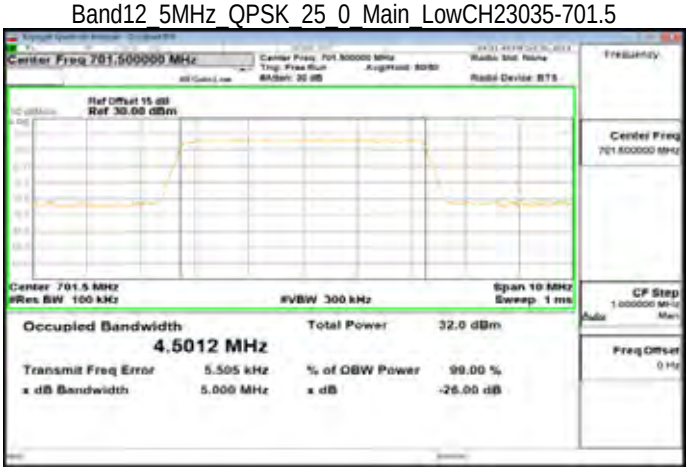


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

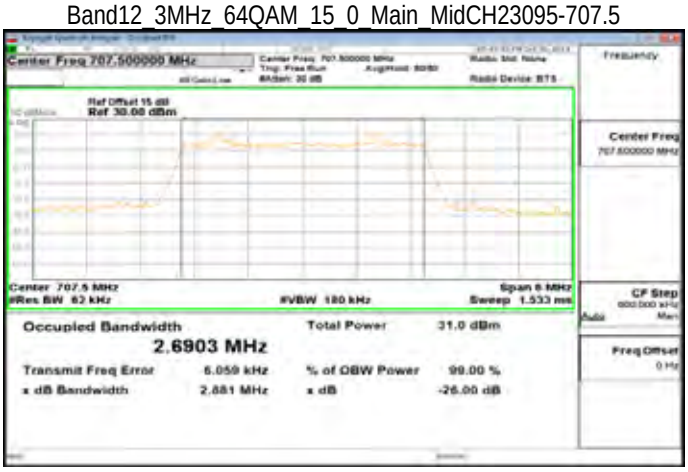
Band12_3MHz_64QAM_15_0_Main_LowCH23025-700.5



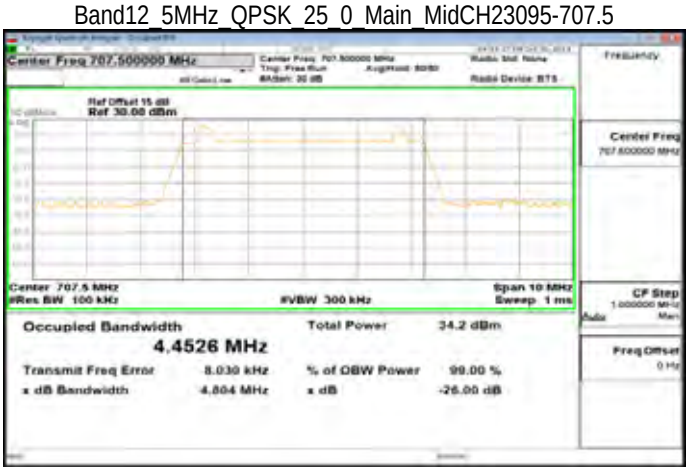
Band12_5MHz_QPSK_25_0_Main_LowCH23035-701.5



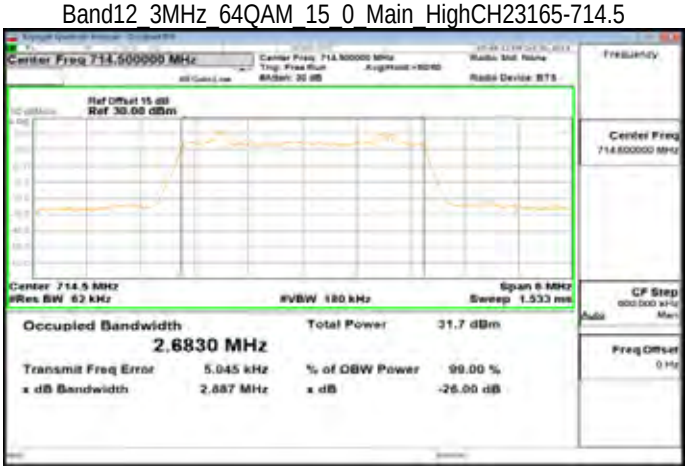
Band12_3MHz_64QAM_15_0_Main_MidCH23095-707.5



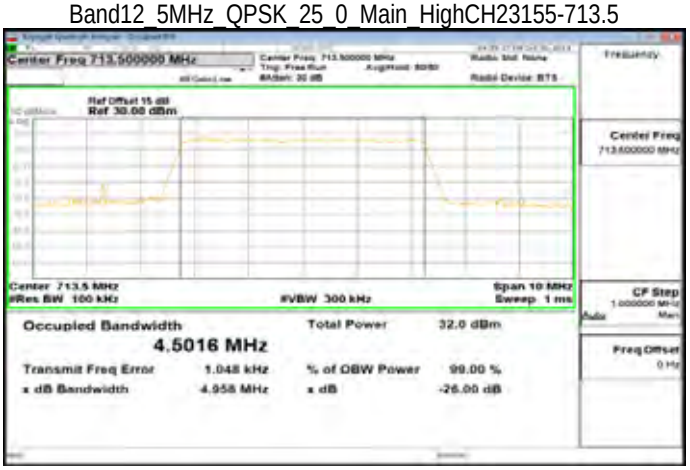
Band12_5MHz_QPSK_25_0_Main_MidCH23095-707.5



Band12_3MHz_64QAM_15_0_Main_HighCH23165-714.5

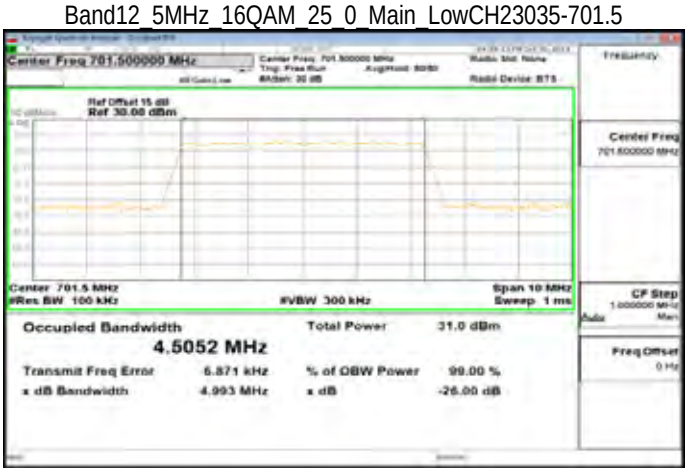


Band12_5MHz_QPSK_25_0_Main_HighCH23155-713.5

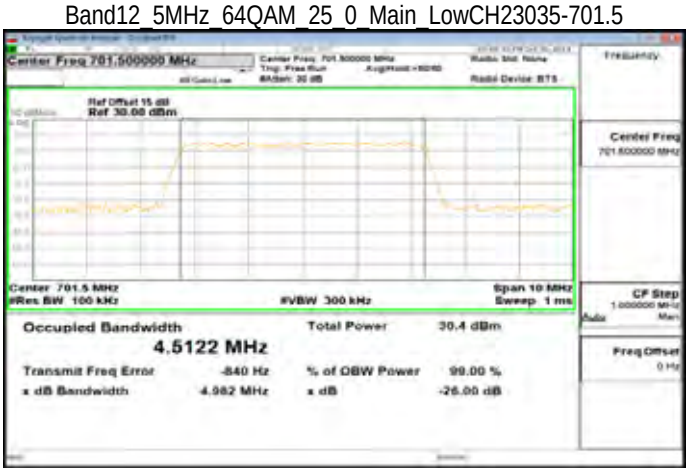


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

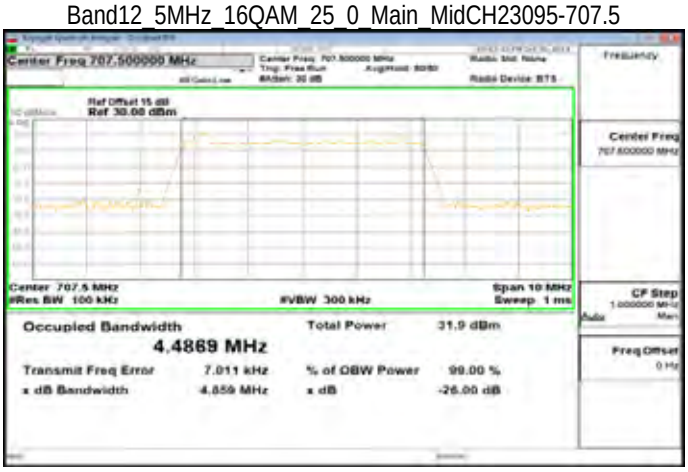
Band12_5MHz_16QAM_25_0_Main_LowCH23035-701.5



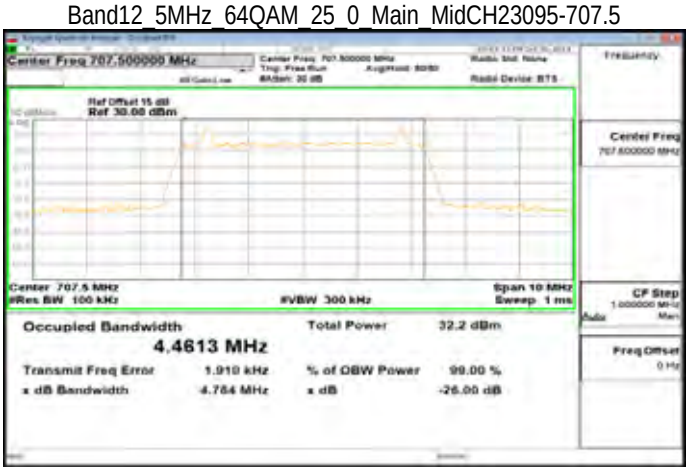
Band12_5MHz_64QAM_25_0_Main_LowCH23035-701.5



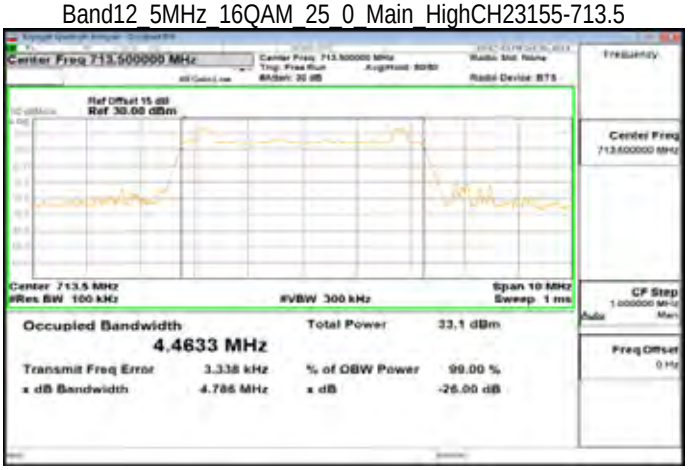
Band12_5MHz_16QAM_25_0_Main_MidCH23095-707.5



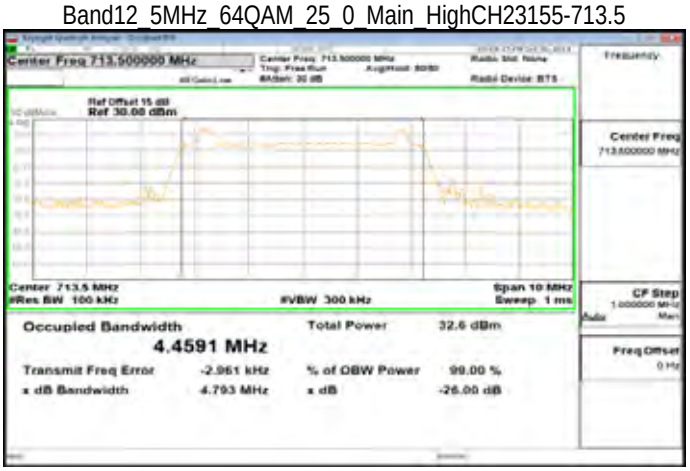
Band12_5MHz_64QAM_25_0_Main_MidCH23095-707.5



Band12_5MHz_16QAM_25_0_Main_HighCH23155-713.5

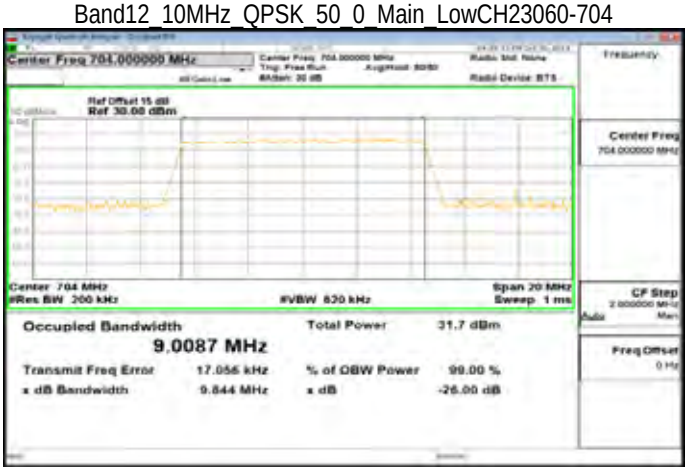


Band12_5MHz_64QAM_25_0_Main_HighCH23155-713.5

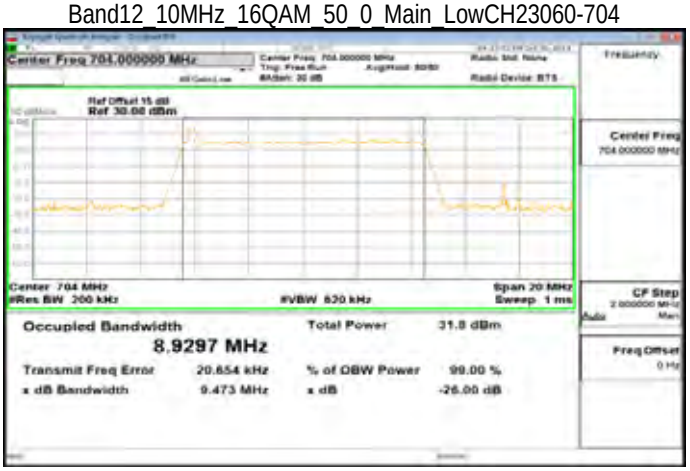


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

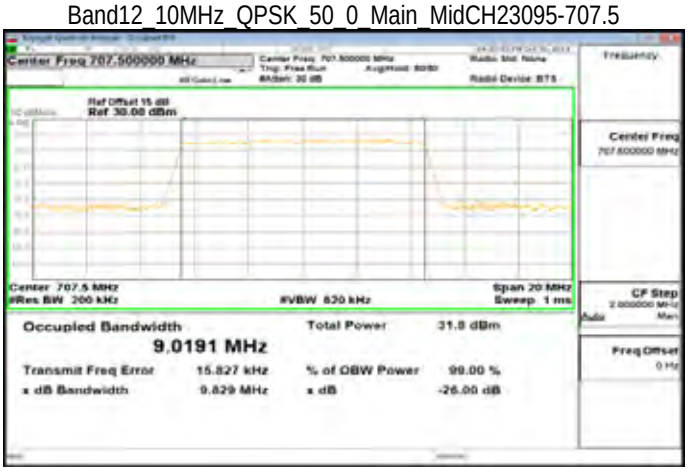
Band12_10MHz_QPSK_50_0_Main_LowCH23060-704



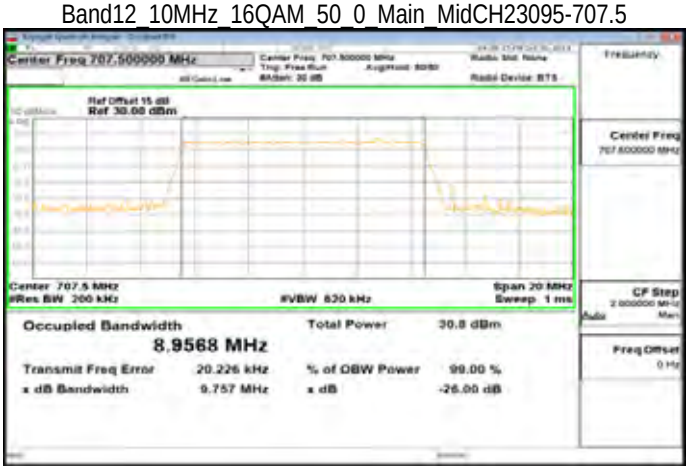
Band12_10MHz_16QAM_50_0_Main_LowCH23060-704



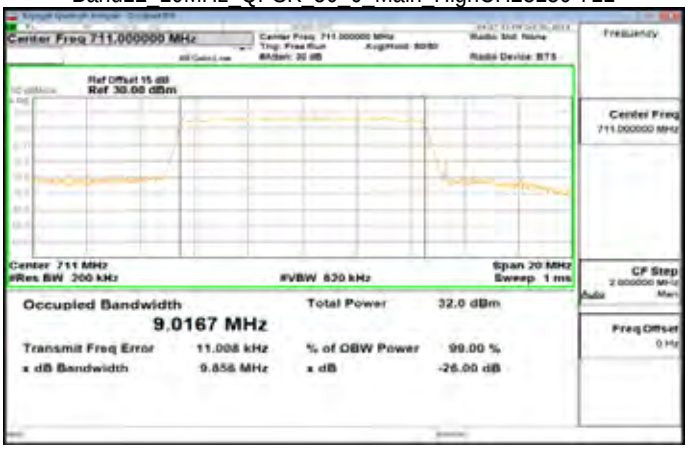
Band12_10MHz_QPSK_50_0_Main_MidCH23095-707.5



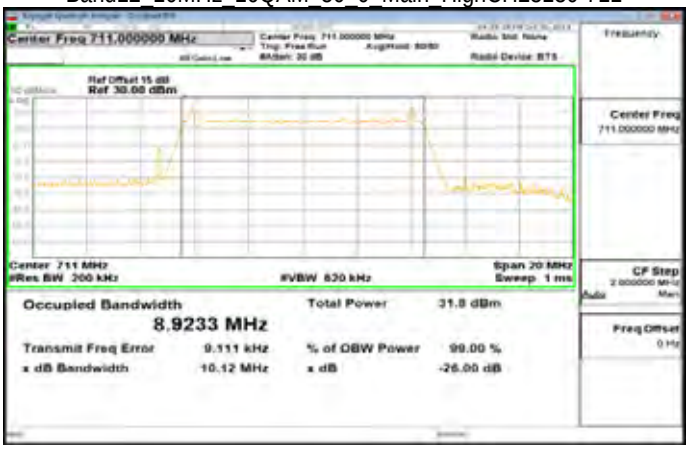
Band12_10MHz_16QAM_50_0_Main_MidCH23095-707.5



Band12_10MHz_QPSK_50_0_Main_HighCH23130-711

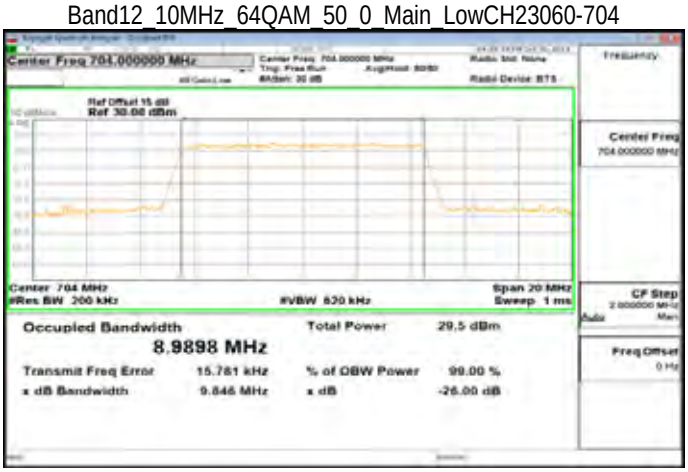


Band12_10MHz_16QAM_50_0_Main_HighCH23130-711

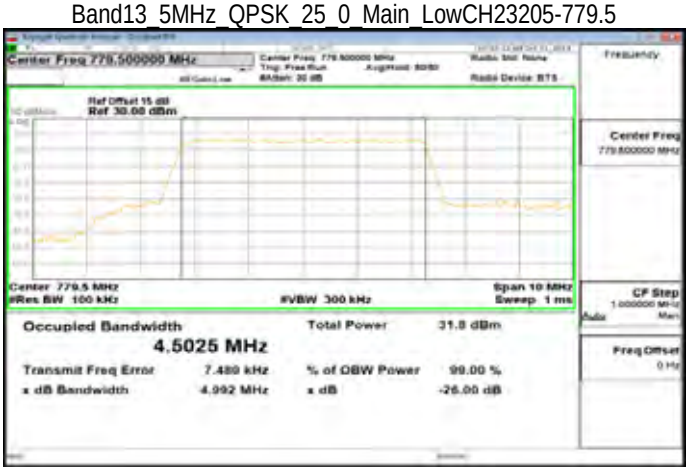


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

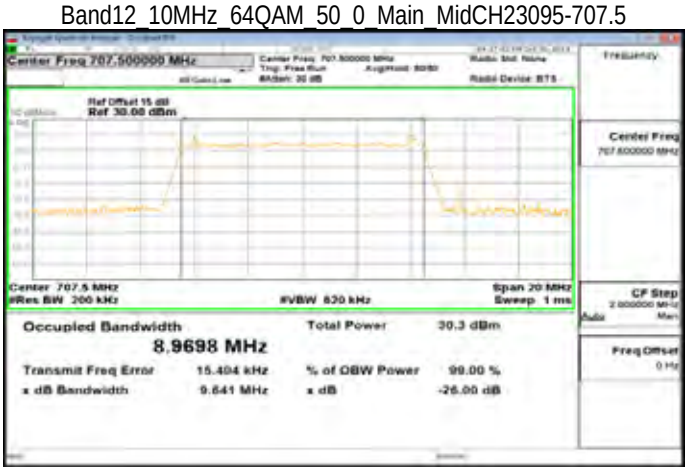
Band12_10MHz_64QAM_50_0_Main_LowCH23060-704



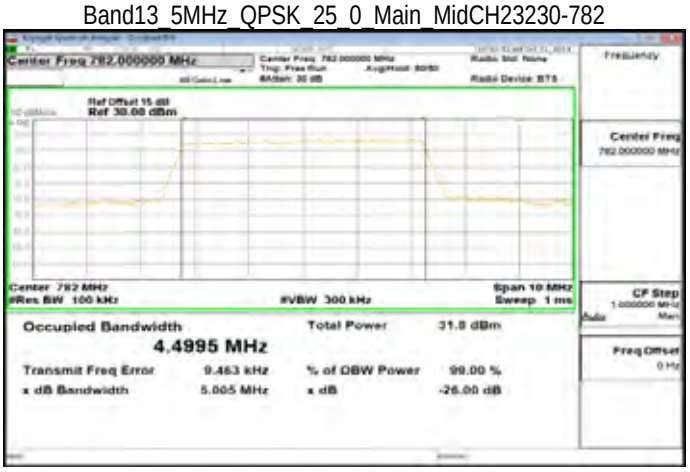
Band13_5MHz_QPSK_25_0_Main_LowCH23205-779.5



Band12_10MHz_64QAM_50_0_Main_MidCH23095-707.5

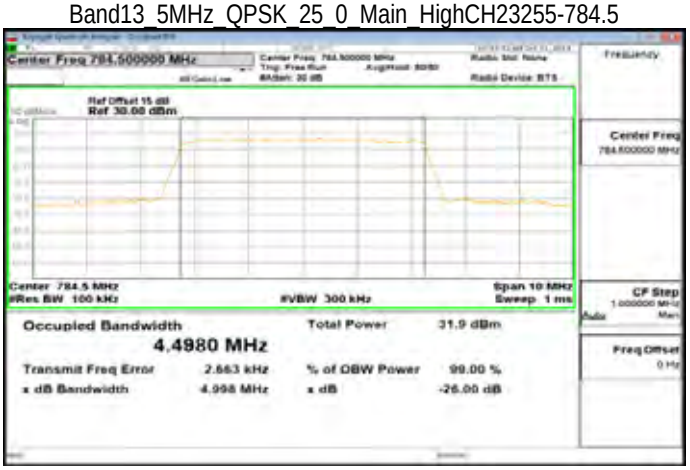


Band13_5MHz_QPSK_25_0_Main_MidCH23230-782



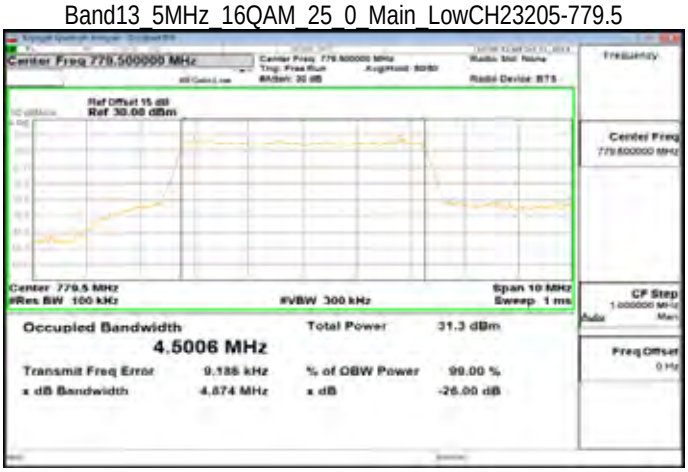
Band12_10MHz_64QAM_50_0_Main_HighCH23130-711

Band13_5MHz_QPSK_25_0_Main_HighCH23255-784.5

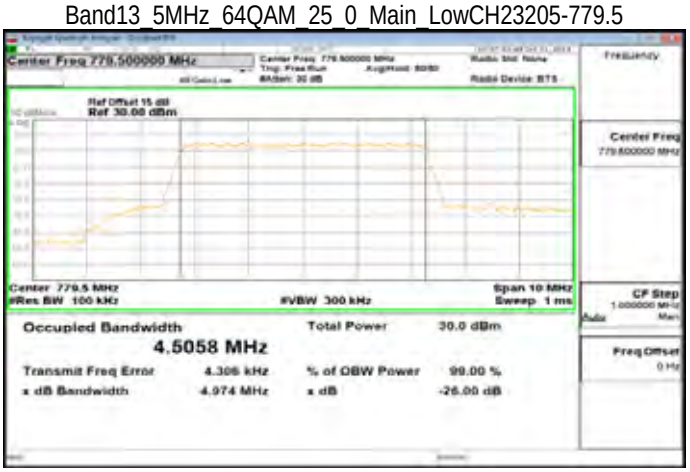


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

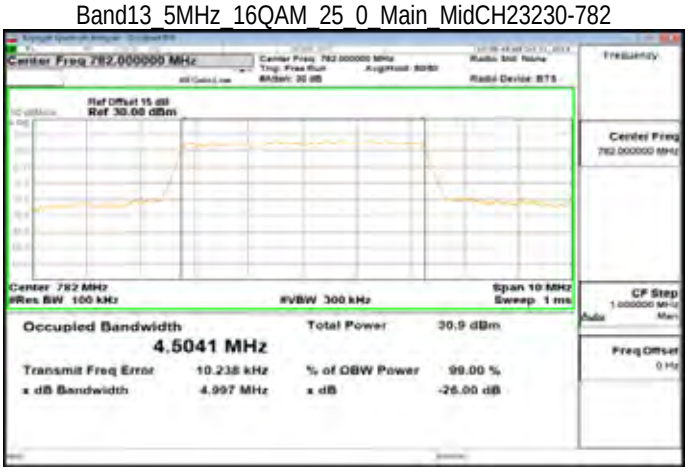
Band13_5MHz_16QAM_25_0_Main_LowCH23205-779.5



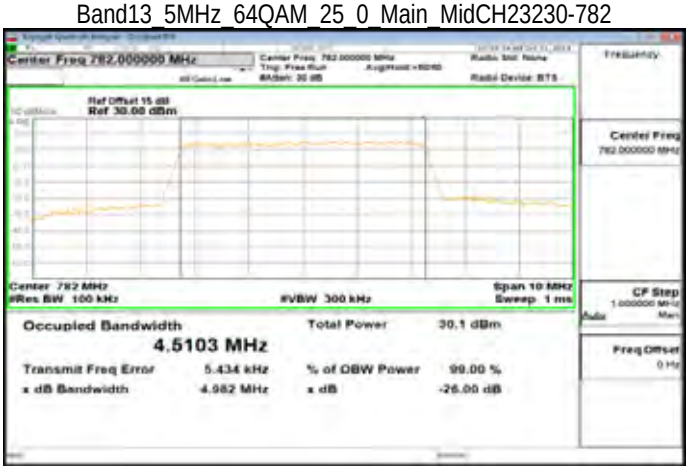
Band13_5MHz_64QAM_25_0_Main_LowCH23205-779.5



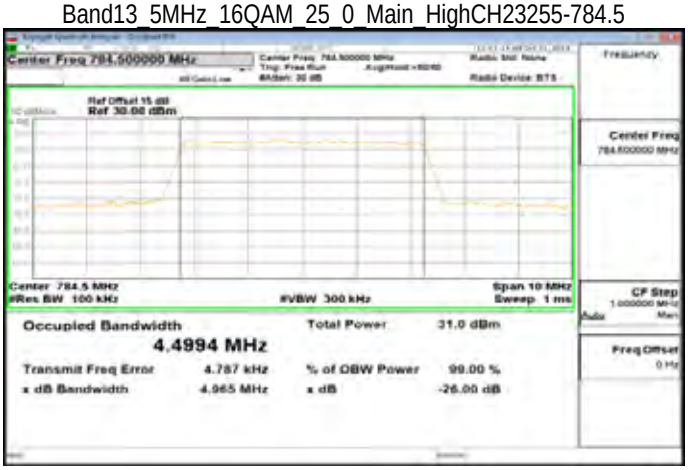
Band13_5MHz_16QAM_25_0_Main_MidCH23230-782



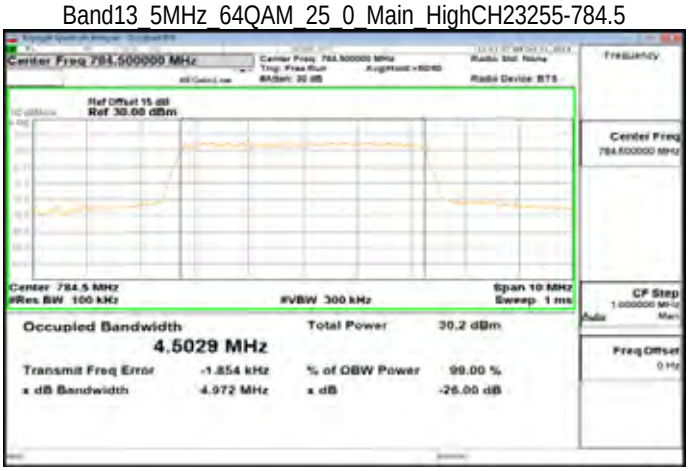
Band13_5MHz_64QAM_25_0_Main_MidCH23230-782



Band13_5MHz_16QAM_25_0_Main_HighCH23255-784.5

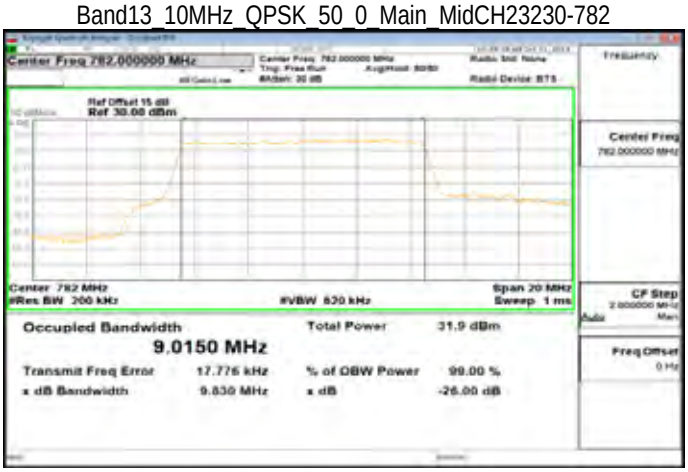


Band13_5MHz_64QAM_25_0_Main_HighCH23255-784.5

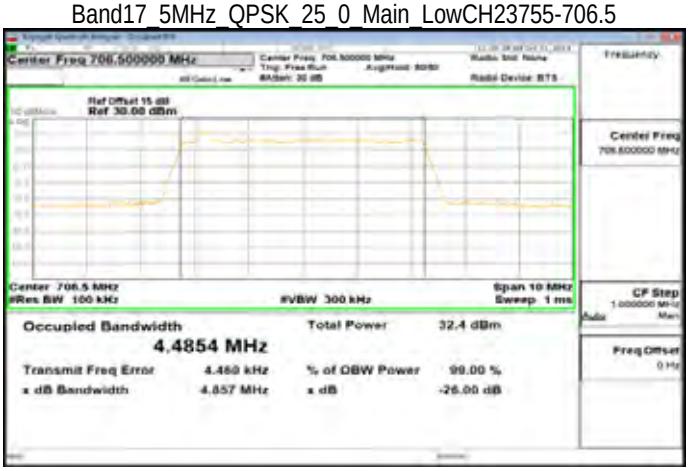


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

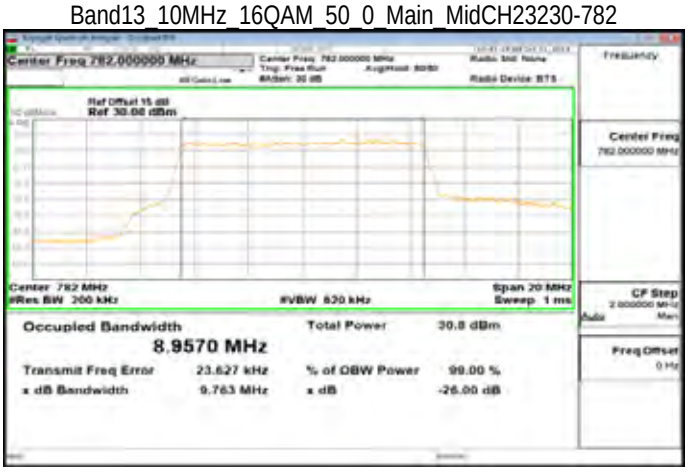
Band13_10MHz_QPSK_50_0_Main_MidCH23230-782



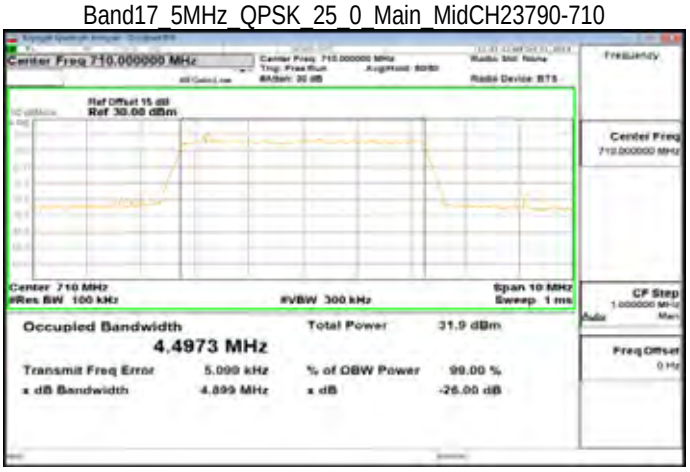
Band17_5MHz_QPSK_25_0_Main_LowCH23755-706.5



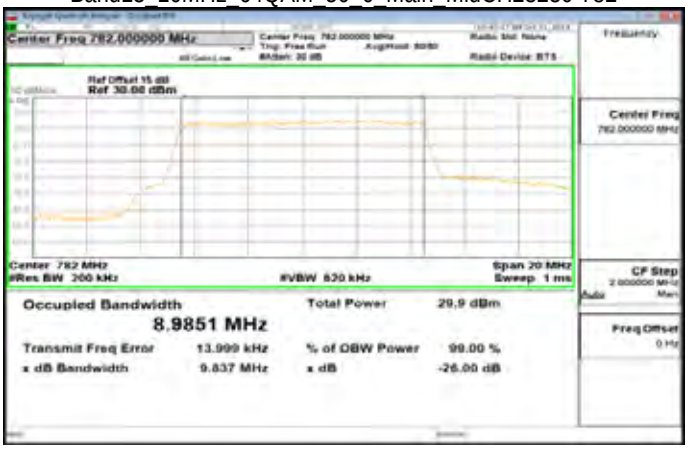
Band13_10MHz_16QAM_50_0_Main_MidCH23230-782



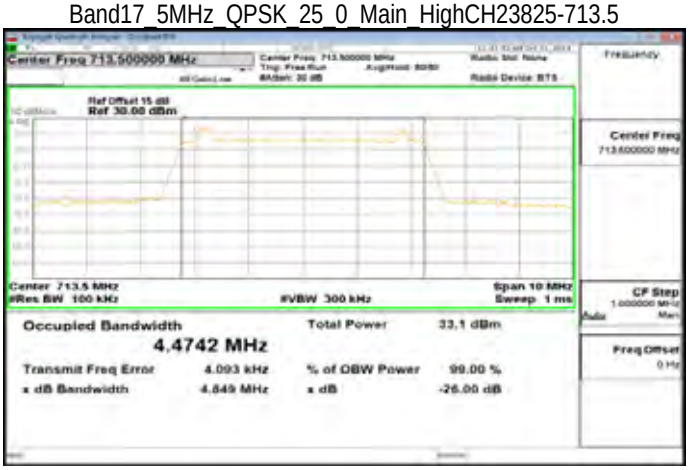
Band17_5MHz_QPSK_25_0_Main_MidCH23790-710



Band13_10MHz_64QAM_50_0_Main_MidCH23230-782

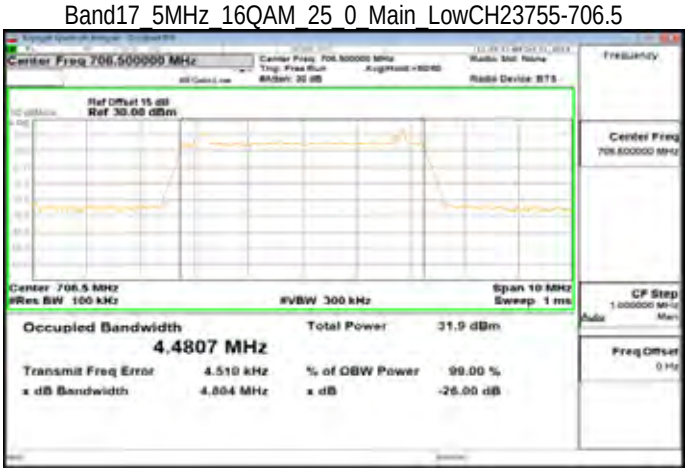


Band17_5MHz_QPSK_25_0_Main_HighCH23825-713.5

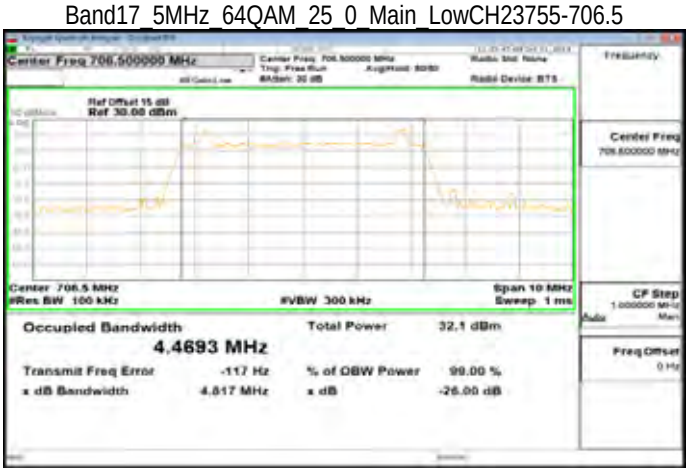


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

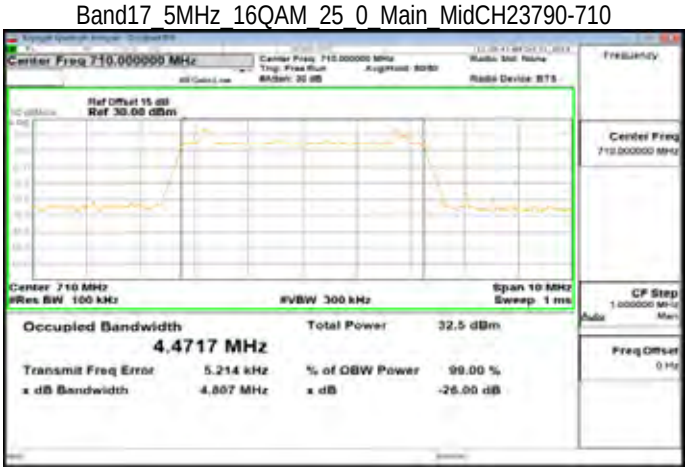
Band17_5MHz_16QAM_25_0_Main_LowCH23755-706.5



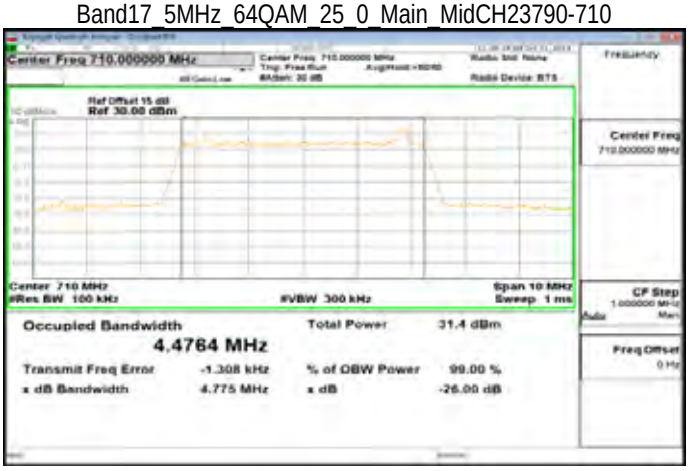
Band17_5MHz_64QAM_25_0_Main_LowCH23755-706.5



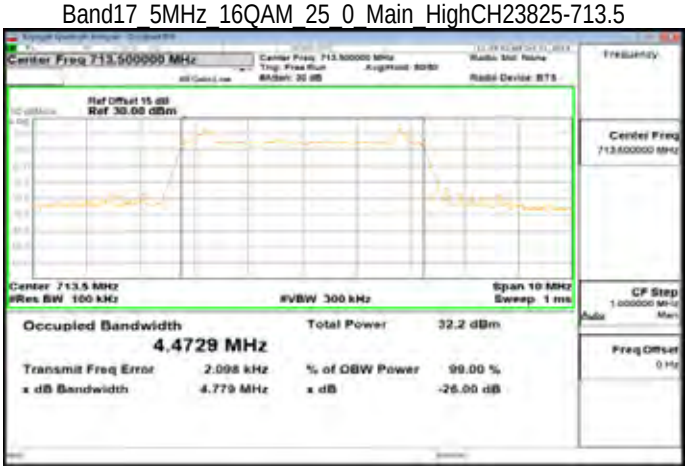
Band17_5MHz_16QAM_25_0_Main_MidCH23790-710



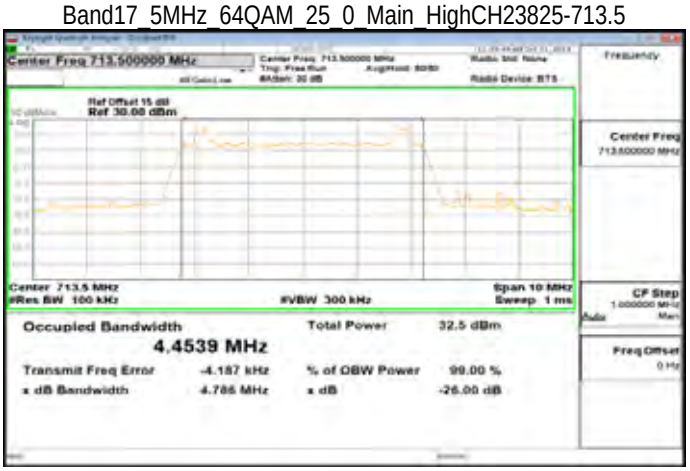
Band17_5MHz_64QAM_25_0_Main_MidCH23790-710



Band17_5MHz_16QAM_25_0_Main_HighCH23825-713.5

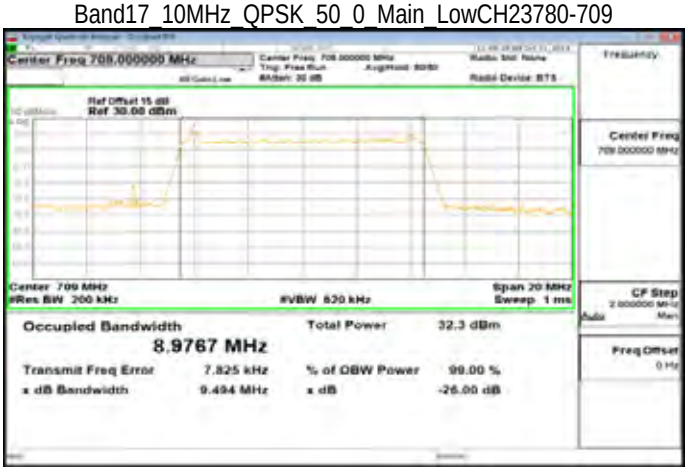


Band17_5MHz_64QAM_25_0_Main_HighCH23825-713.5

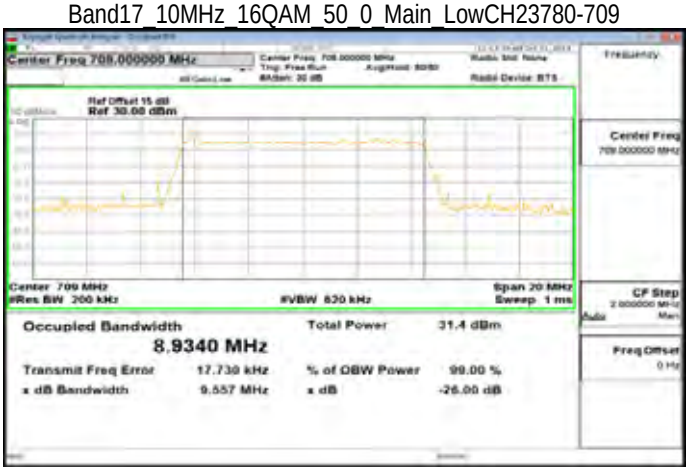


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

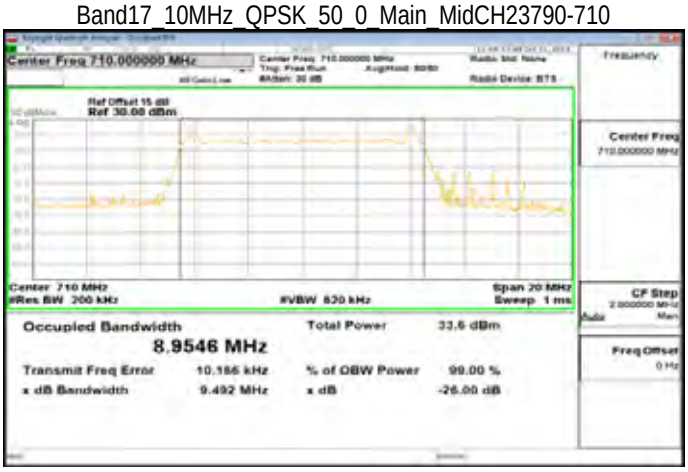
Band17_10MHz_QPSK_50_0_Main_LowCH23780-709



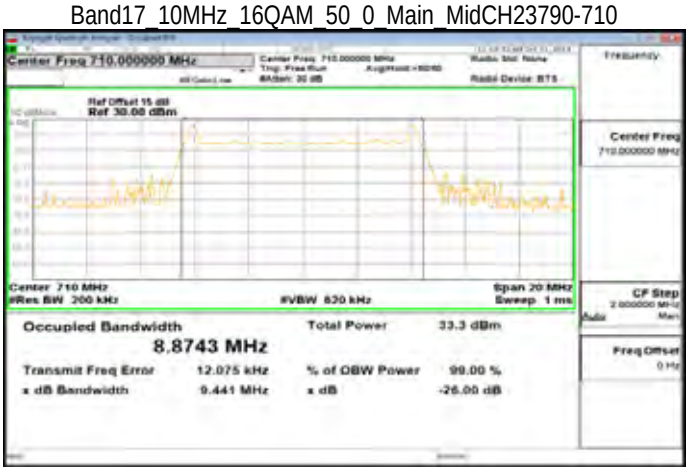
Band17_10MHz_16QAM_50_0_Main_LowCH23780-709



Band17_10MHz_QPSK_50_0_Main_MidCH23790-710

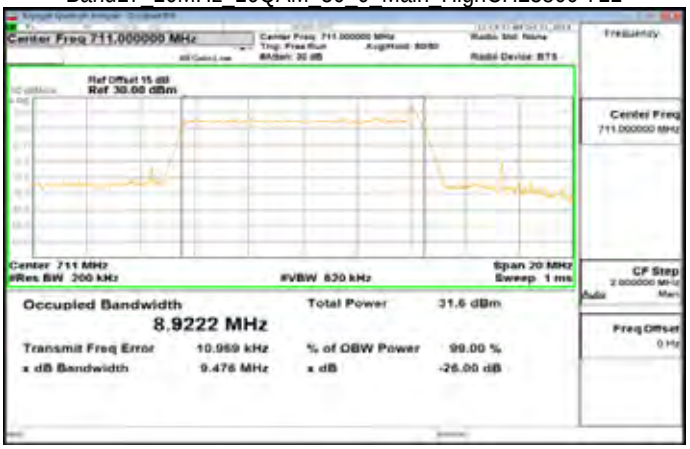


Band17_10MHz_16QAM_50_0_Main_MidCH23790-710



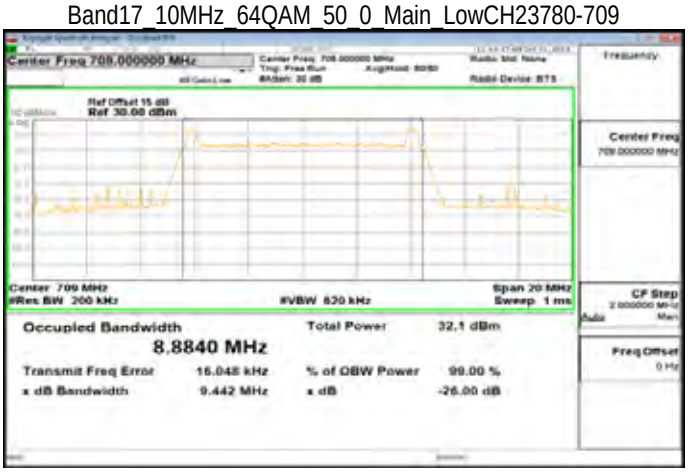
Band17_10MHz_QPSK_50_0_Main_HighCH23800-711

Band17_10MHz_16QAM_50_0_Main_HighCH23800-711

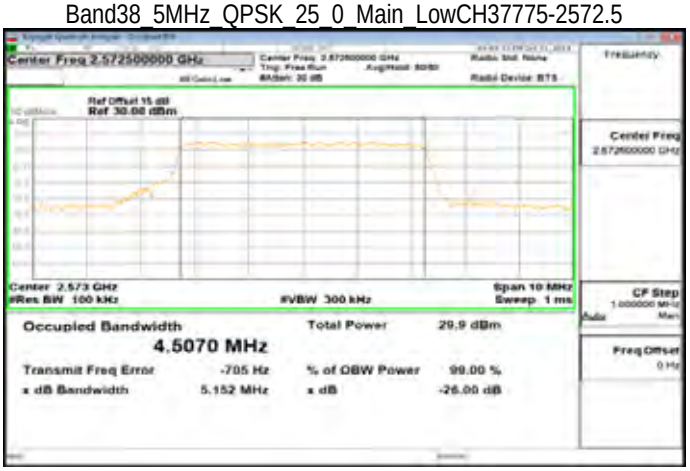


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

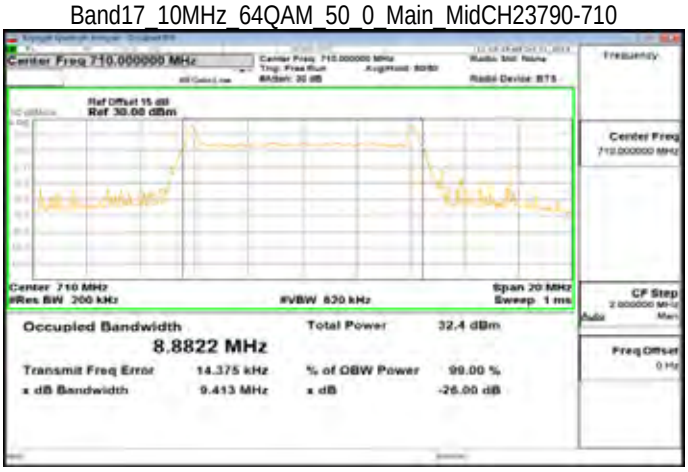
Band17_10MHz_64QAM_50_0_Main_LowCH23780-709



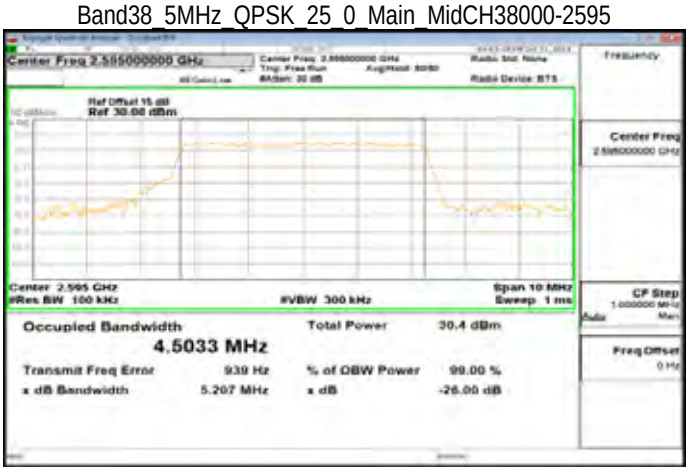
Band38_5MHz_QPSK_25_0_Main_LowCH37775-2572.5



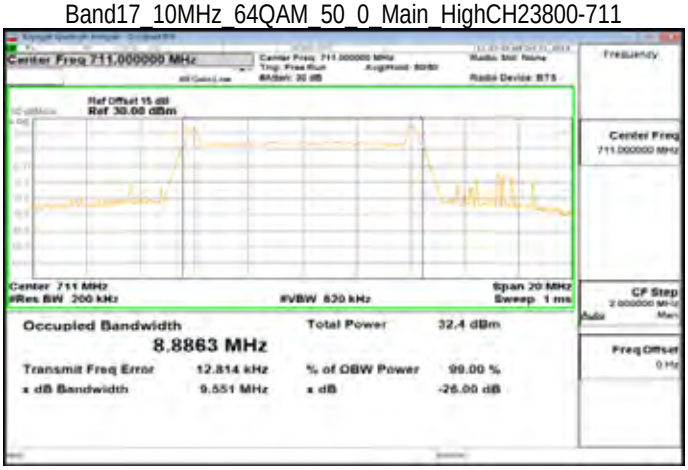
Band17_10MHz_64QAM_50_0_Main_MidCH23790-710



Band38_5MHz_QPSK_25_0_Main_MidCH38000-2595



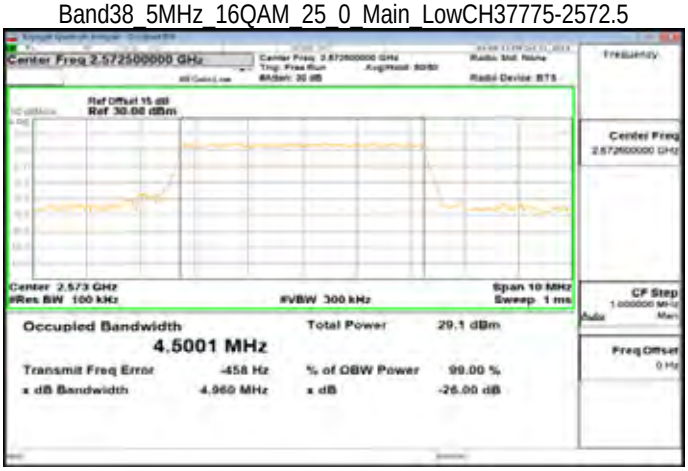
Band17_10MHz_64QAM_50_0_Main_HighCH23800-711



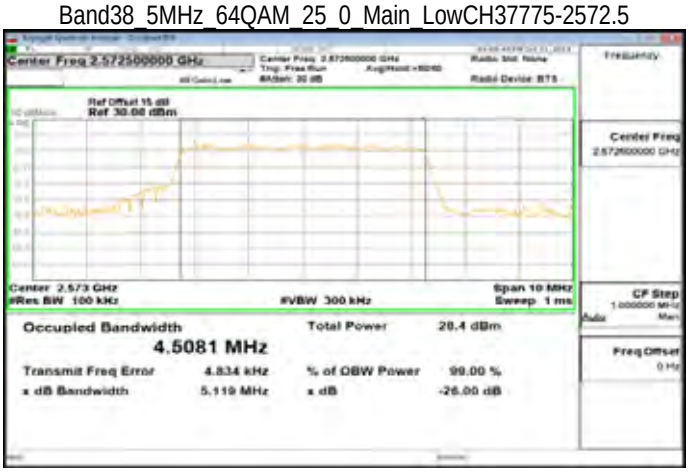
Band38_5MHz_QPSK_25_0_Main_HighCH38225-2617.5

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

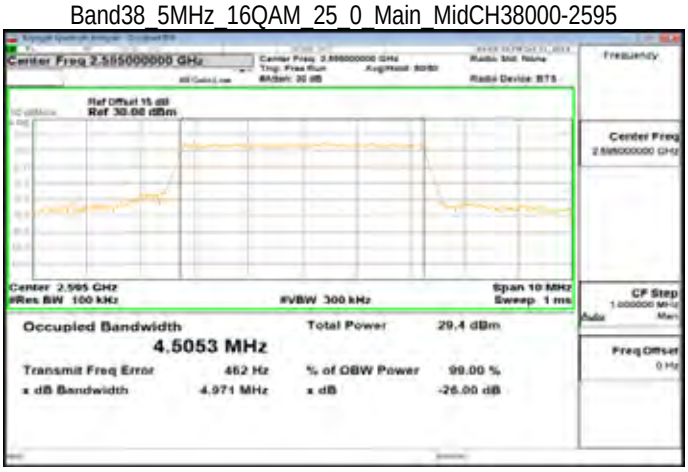
Band38_5MHz_16QAM_25_0_Main_LowCH37775-2572.5



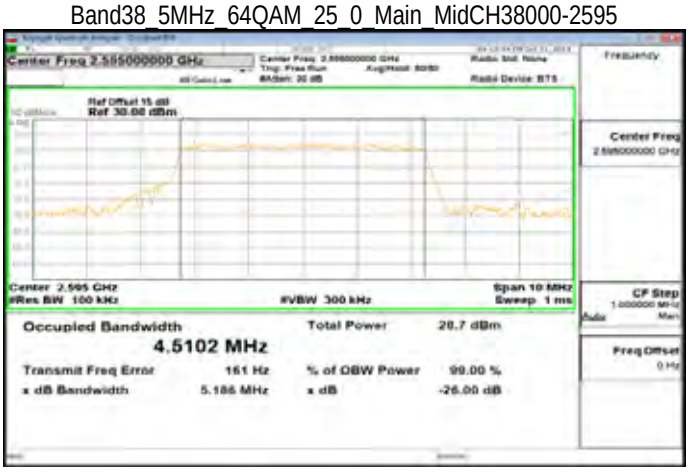
Band38_5MHz_64QAM_25_0_Main_LowCH37775-2572.5



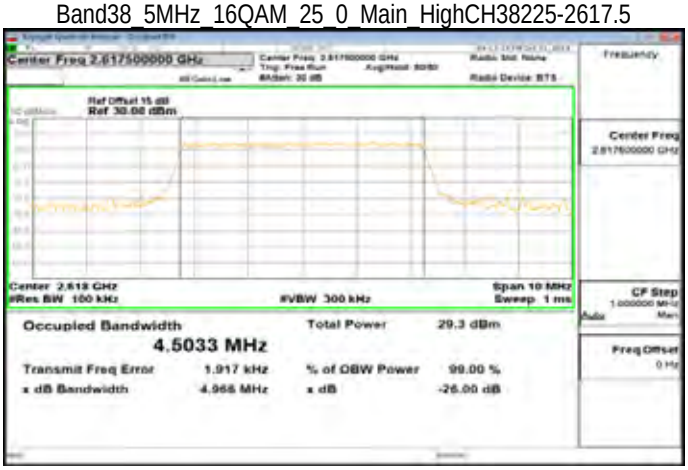
Band38_5MHz_16QAM_25_0_Main_MidCH38000-2595



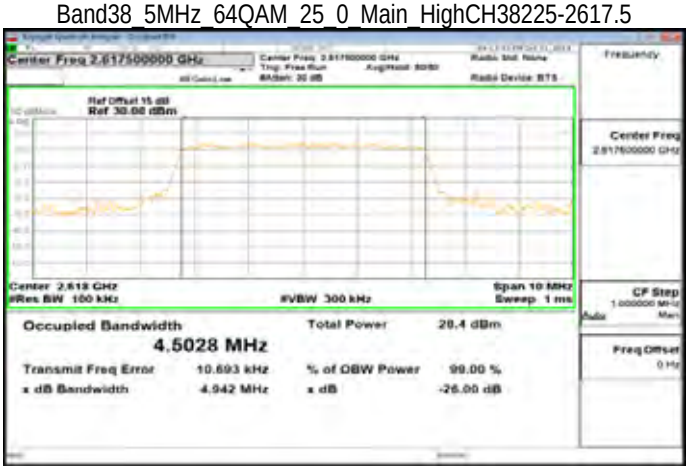
Band38_5MHz_64QAM_25_0_Main_MidCH38000-2595



Band38_5MHz_16QAM_25_0_Main_HighCH38225-2617.5

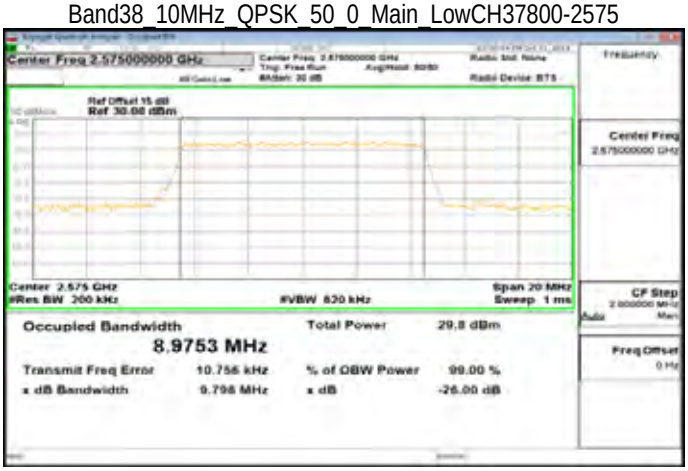


Band38_5MHz_64QAM_25_0_Main_HighCH38225-2617.5

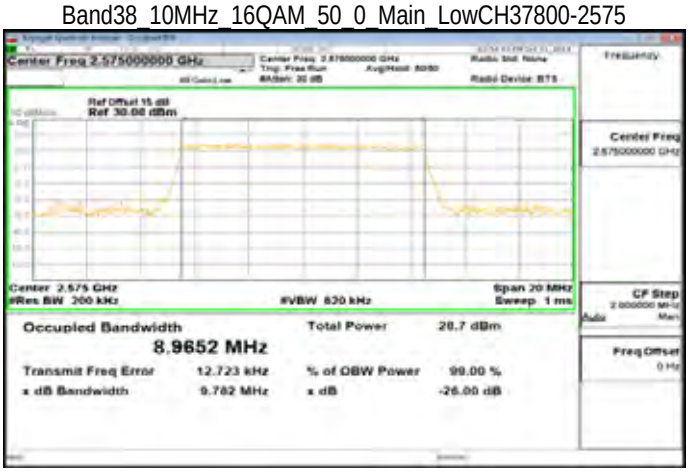


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

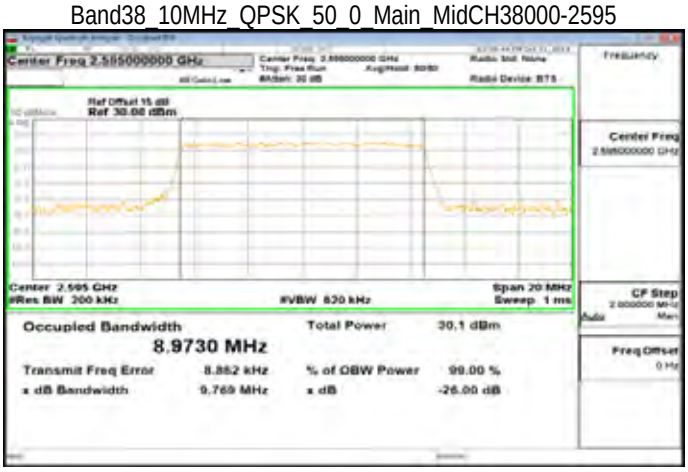
Band38_10MHz_QPSK_50_0_Main_LowCH37800-2575



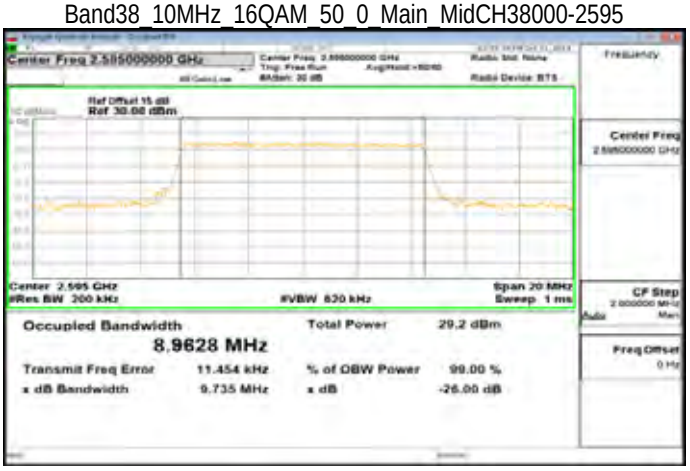
Band38_10MHz_16QAM_50_0_Main_LowCH37800-2575



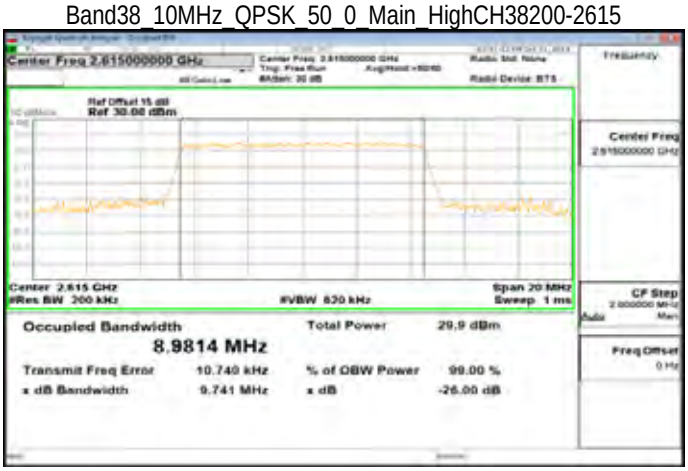
Band38_10MHz_QPSK_50_0_Main_MidCH38000-2595



Band38_10MHz_16QAM_50_0_Main_MidCH38000-2595



Band38_10MHz_QPSK_50_0_Main_HighCH38200-2615

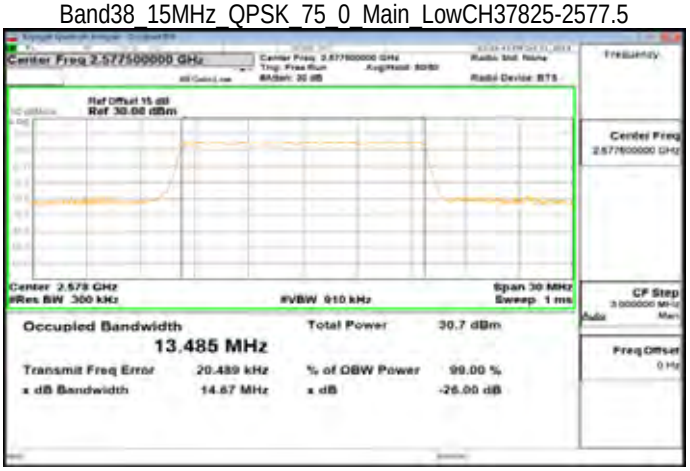


Band38_10MHz_16QAM_50_0_Main_HighCH38200-2615

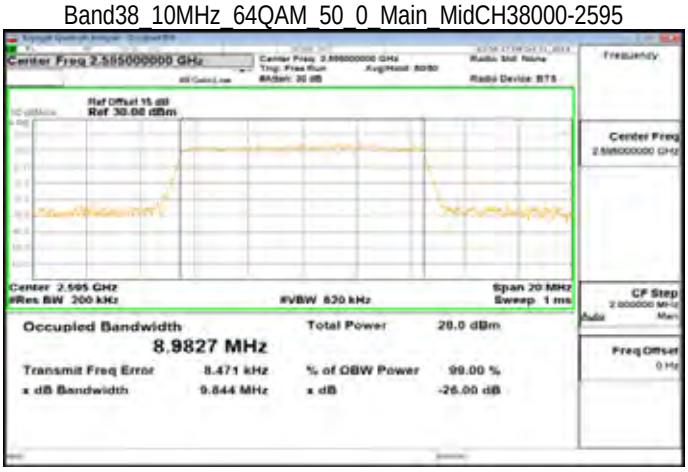
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

Band38_10MHz_64QAM_50_0_Main_LowCH37800-2575

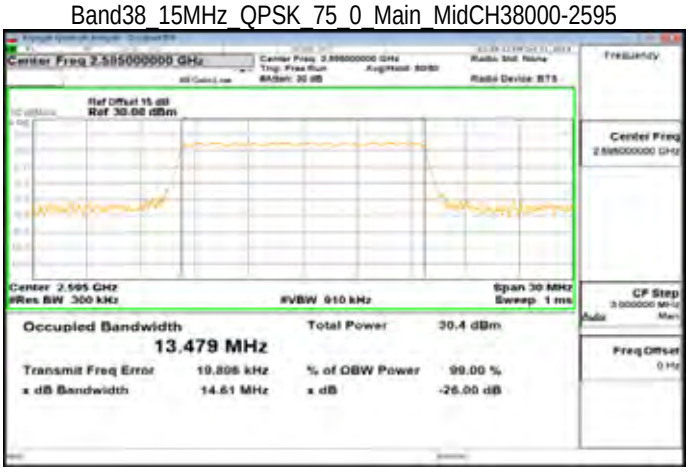
Band38_15MHz_QPSK_75_0_Main_LowCH37825-2577.5



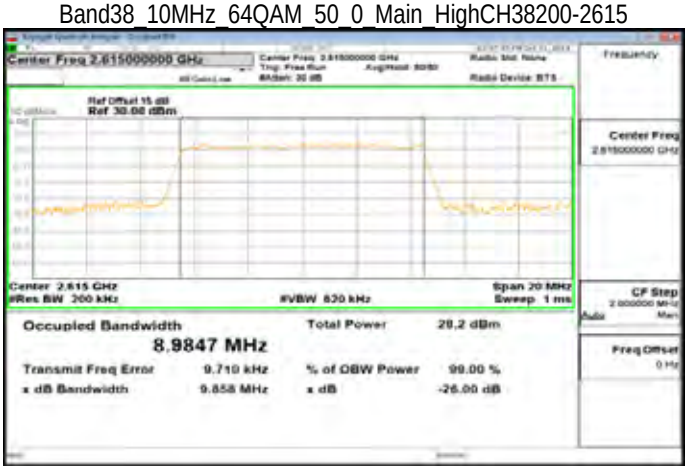
Band38_10MHz_64QAM_50_0_Main_MidCH38000-2595



Band38_15MHz_QPSK_75_0_Main_MidCH38000-2595



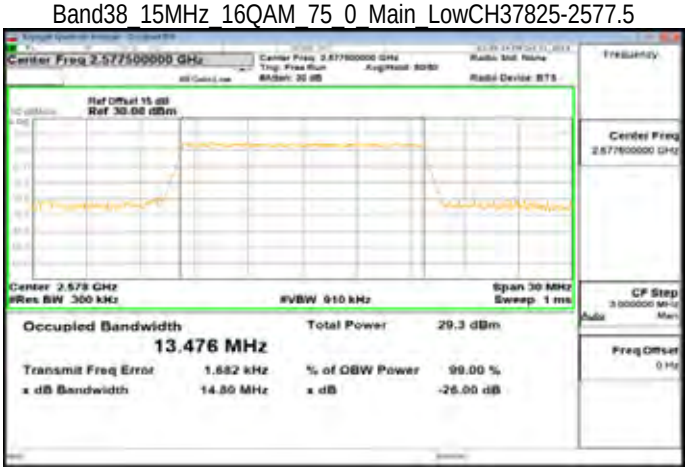
Band38_10MHz_64QAM_50_0_Main_HighCH38200-2615



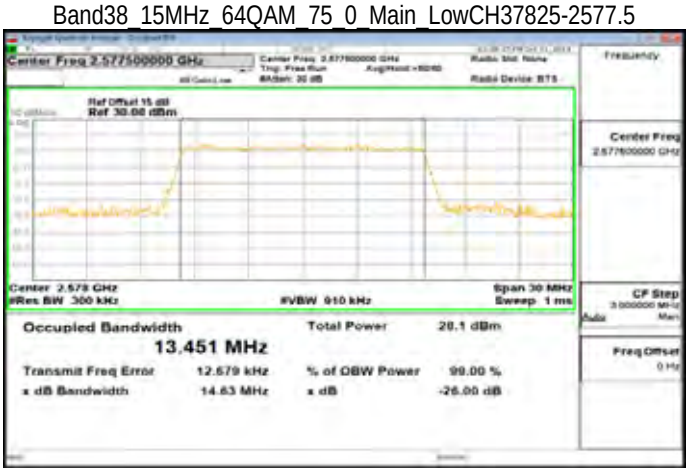
Band38_15MHz_QPSK_75_0_Main_HighCH38175-2612.5

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

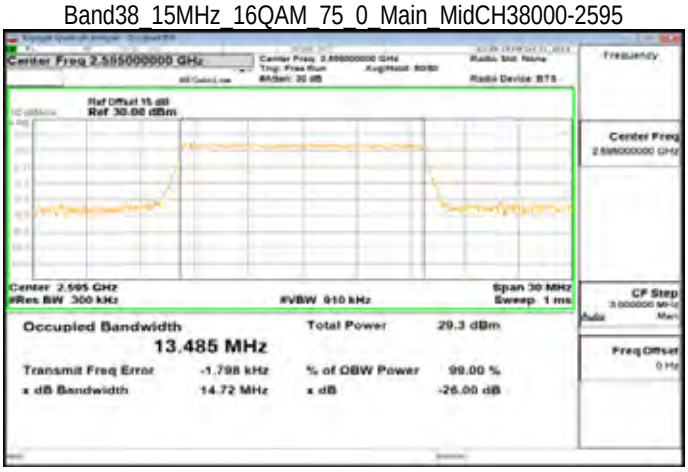
Band38_15MHz_16QAM_75_0_Main_LowCH37825-2577.5



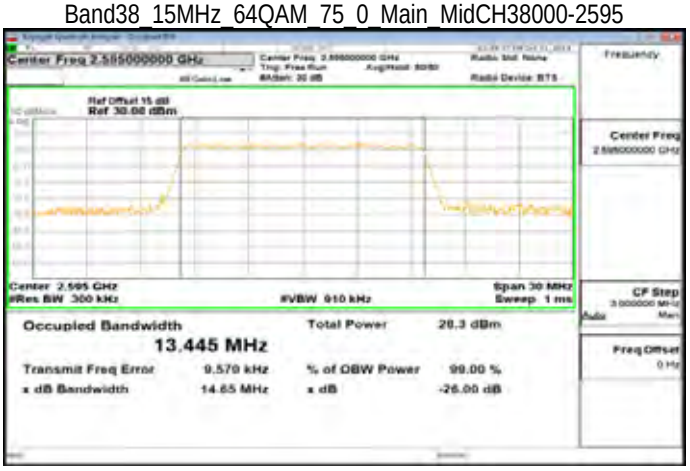
Band38_15MHz_64QAM_75_0_Main_LowCH37825-2577.5



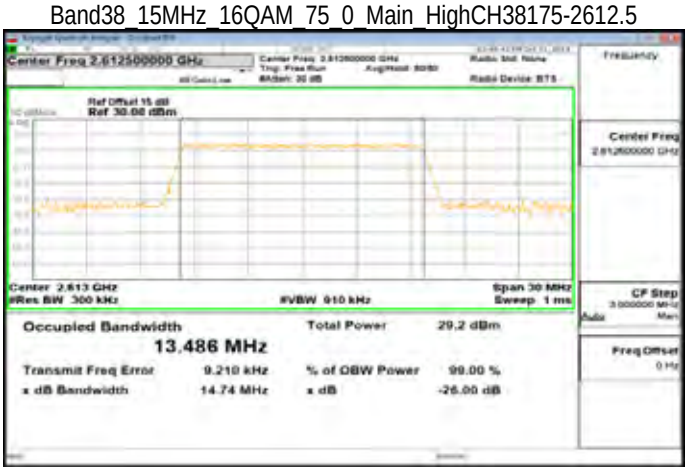
Band38_15MHz_16QAM_75_0_Main_MidCH38000-2595



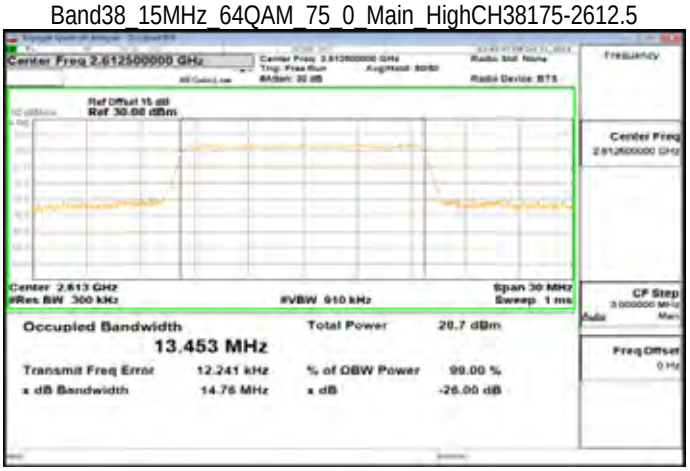
Band38_15MHz_64QAM_75_0_Main_MidCH38000-2595



Band38_15MHz_16QAM_75_0_Main_HighCH38175-2612.5

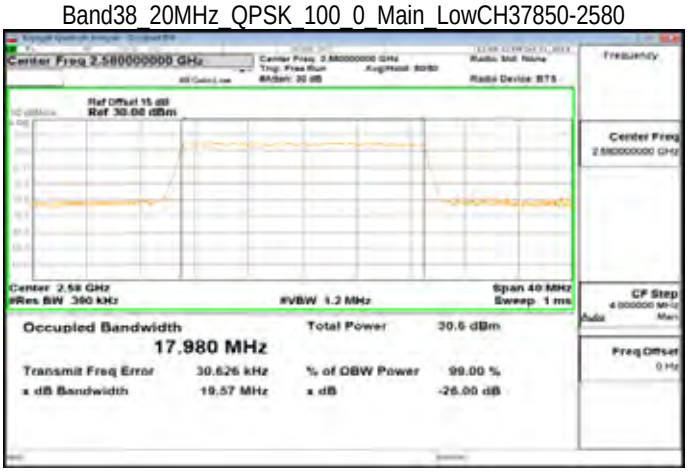


Band38_15MHz_64QAM_75_0_Main_HighCH38175-2612.5

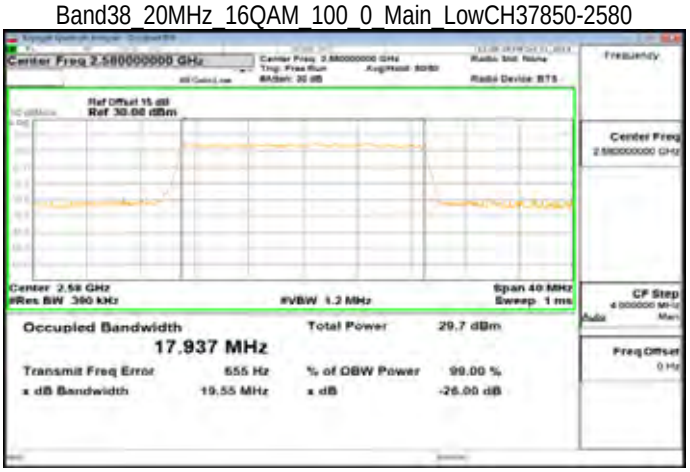


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

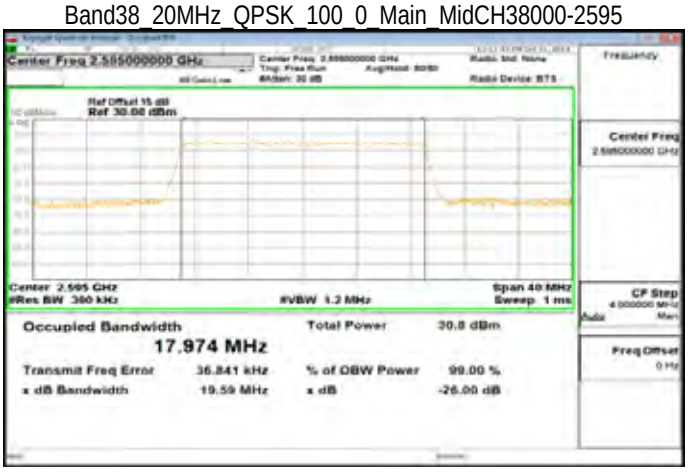
Band38_20MHz_QPSK_100_0_Main_LowCH37850-2580



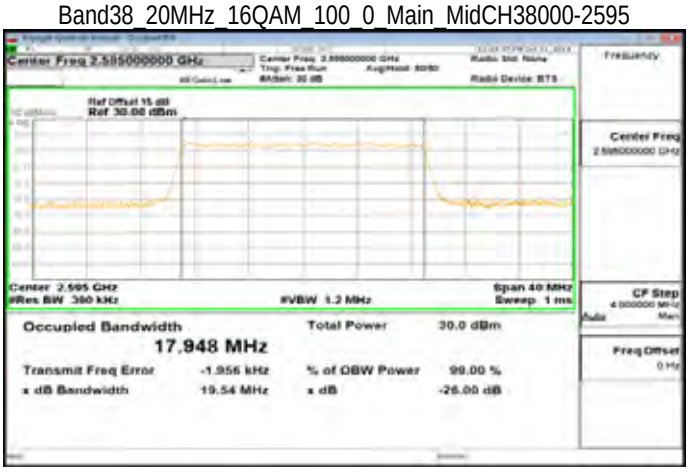
Band38_20MHz_16QAM_100_0_Main_LowCH37850-2580



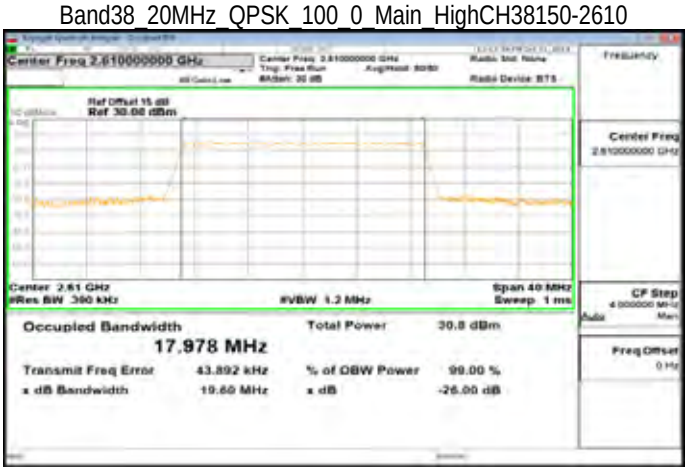
Band38_20MHz_QPSK_100_0_Main_MidCH38000-2595



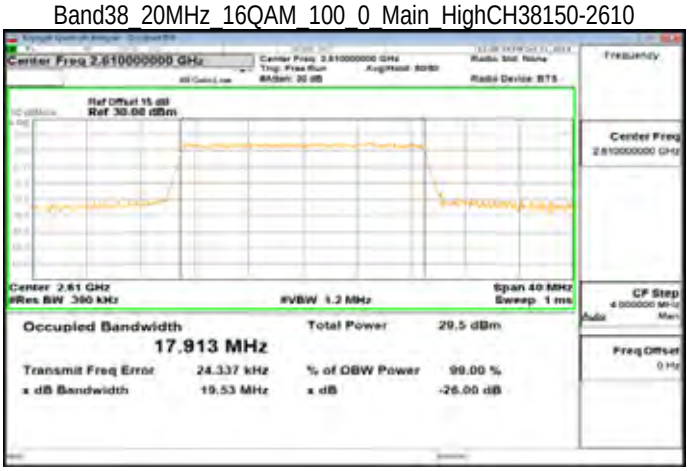
Band38_20MHz_16QAM_100_0_Main_MidCH38000-2595



Band38_20MHz_QPSK_100_0_Main_HighCH38150-2610

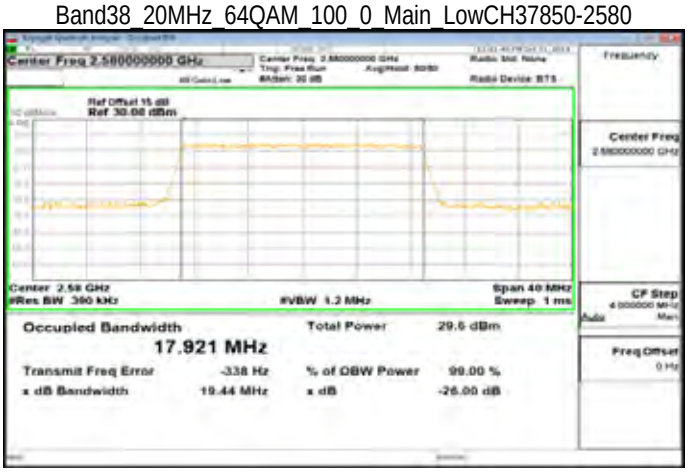


Band38_20MHz_16QAM_100_0_Main_HighCH38150-2610

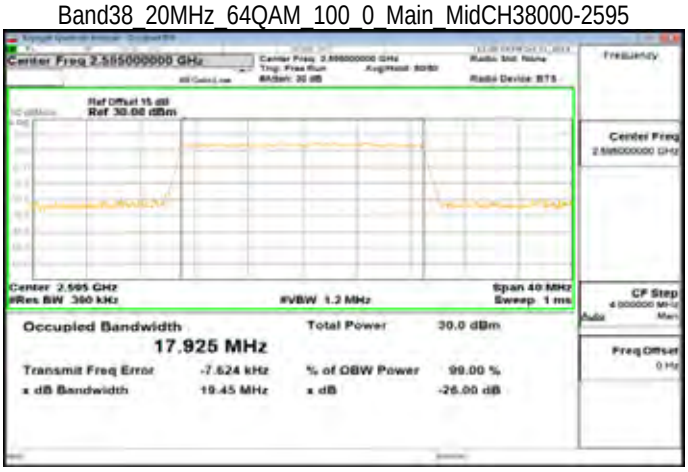


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

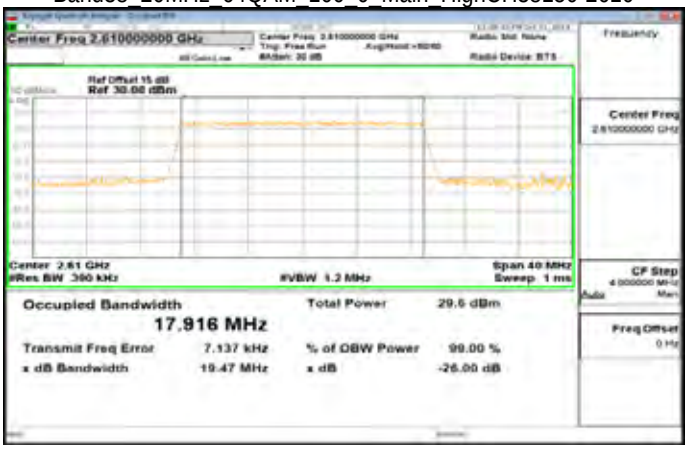
Band38_20MHz_64QAM_100_0_Main_LowCH37850-2580



Band38_20MHz_64QAM_100_0_Main_MidCH38000-2595



Band38_20MHz_64QAM_100_0_Main_HighCH38150-2610



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

8. OUT OF BAND EMISSION AT ANTENNA TERMINALS

8.1. Standard Applicable

FCC §22.917(a), §24.238(a), §27.53(h),Out of band emissions.The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

FCC §27.53(c)

(c) For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(2) On any frequency outside the 776– 788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB (-13dBm)

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

§27.53 (f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to −70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and −80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC §27.53(c) (5) & 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.

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

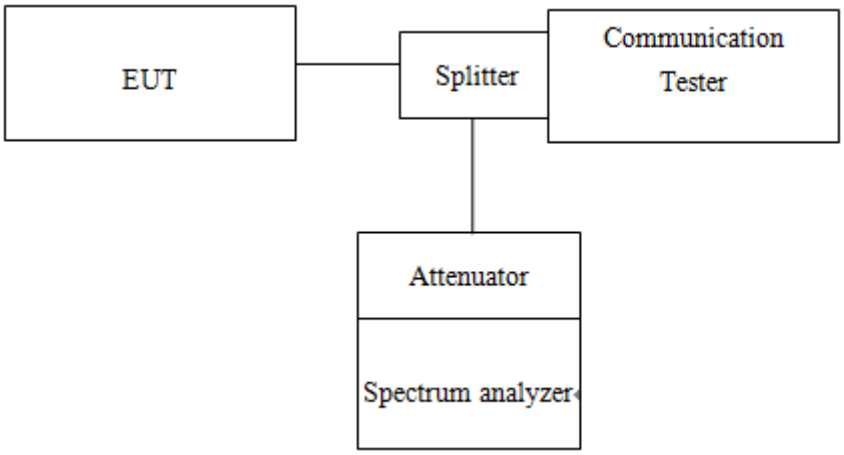
FCC §27.53(m) (4) (6)

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 that 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.

Measurement procedure. Compliance with these rules is based on the use of measurement nstrumentation 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.

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

8.2. Test SET-UP



8.3. Measurement Procedure

Conducted Emission

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

Band Edge

1. To connect Antenna Port of EUT to Spectrum.
2. The band edge of low and high channels for the highest RF powers was measured. Setting RBW ≥ 1% EBW.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

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

8.4. Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/02/2019	05/01/2020
Radio Communication Analyzer	Anritsu	MT8815B	6200711454	04/01/2019	03/31/2020
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	04/01/2019	03/31/2020
DC Power Supply	Agilent	E3640A	MY52410006	12/04/2018	12/03/2019
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2019	01/01/2020
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2019	01/01/2020
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	01/02/2019	01/01/2020

8.5. Measurement Result:

Refer to next pages.

NOTE: The occurrence of the spike on the conducted emission is the signal of the fundamental emission.

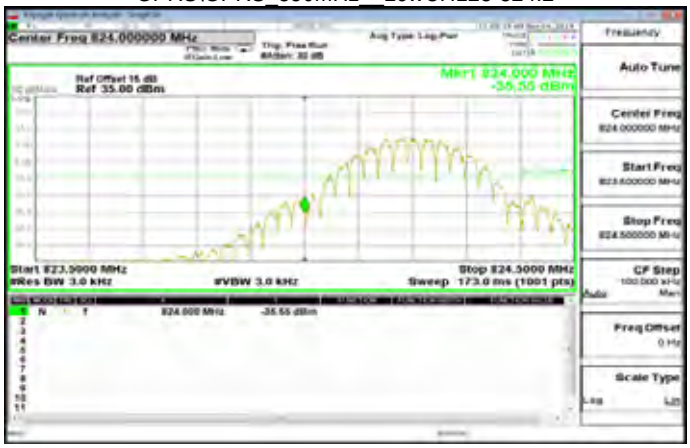
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

Band Edge

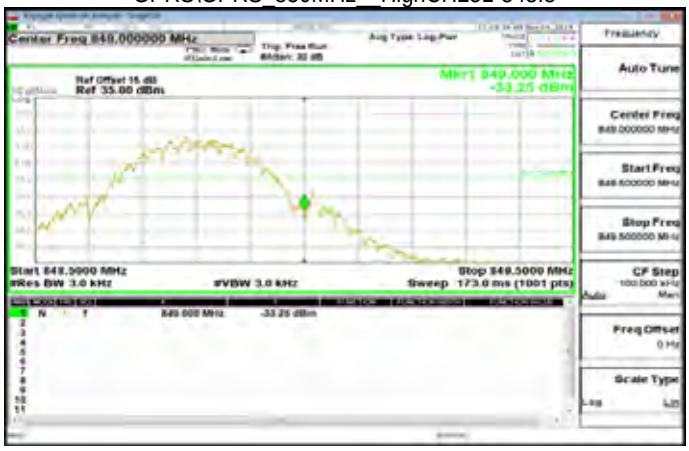
GSM\GSM_850MHz_LowCH128-824.2

GSM\GSM_850MHz_HighCH251-848.8

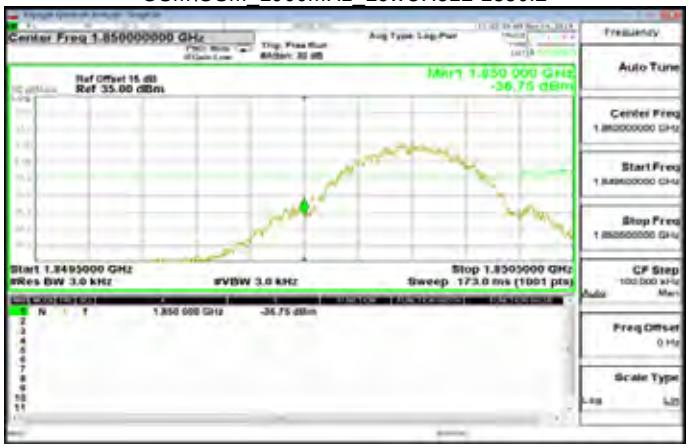
GPRS\GPRS_850MHz__LowCH128-824.2



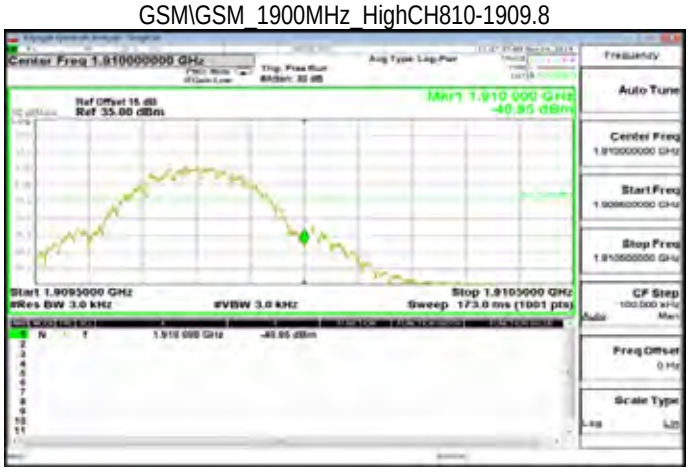
GPRS\GPRS_850MHz__HighCH251-848.8



GSM\GSM_1900MHz_LowCH512-1850.2

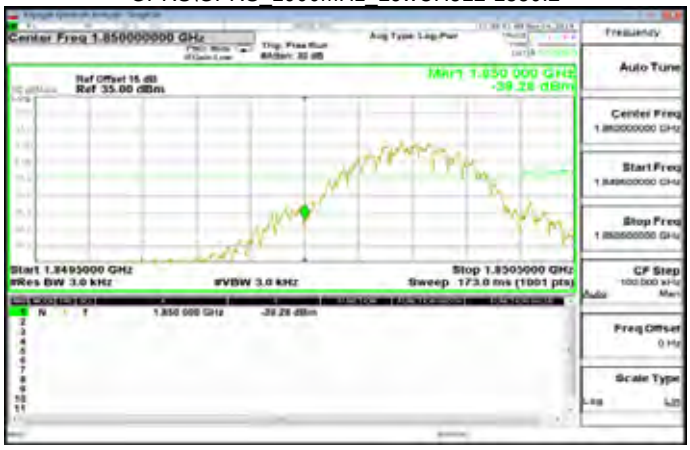


GSM\GSM_1900MHz_HighCH810-1909.8

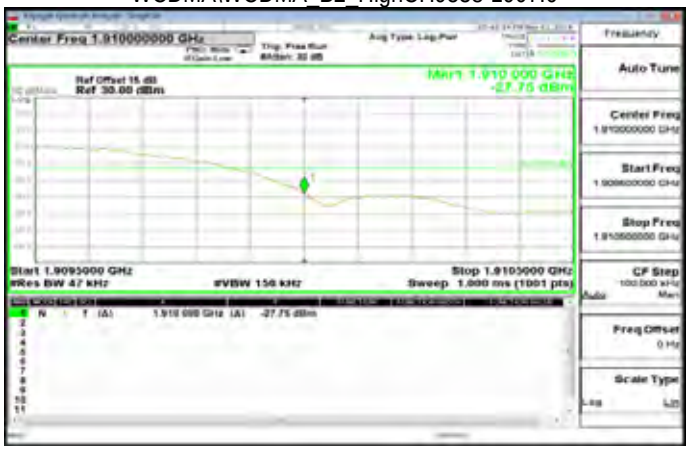


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

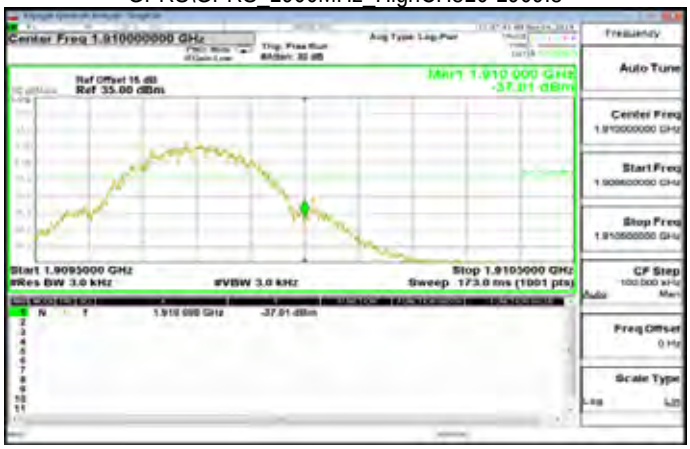
GPRS\GPRS_1900MHz_LowCH512-1850.2



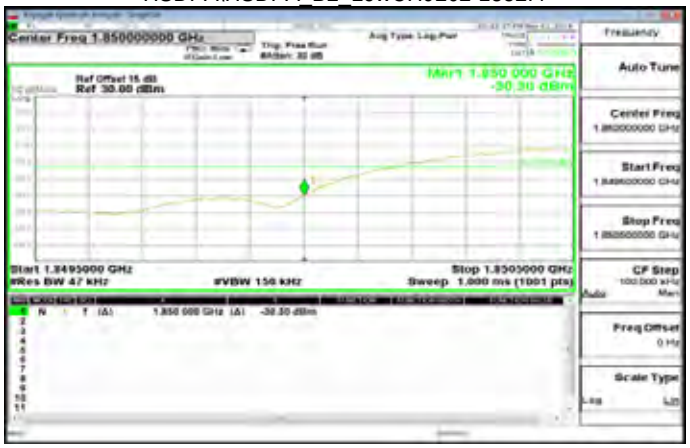
WCDMA\WCDMA_B2_HighCH9538-1907.6



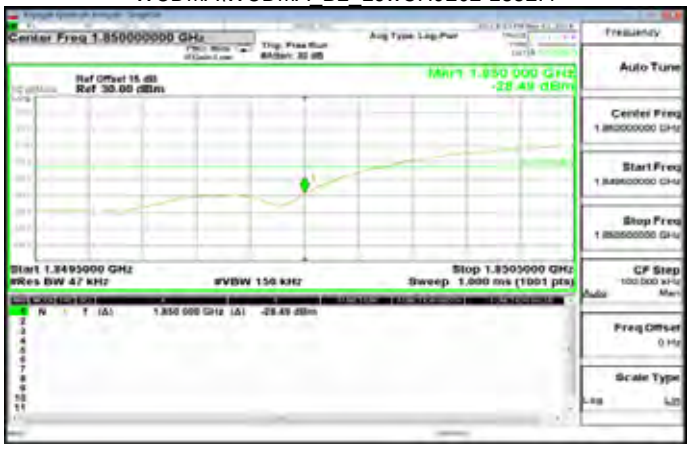
GPRS\GPRS_1900MHz_HighCH810-1909.8



HSDPA\HSDPA_B2_LowCH9262-1852.4



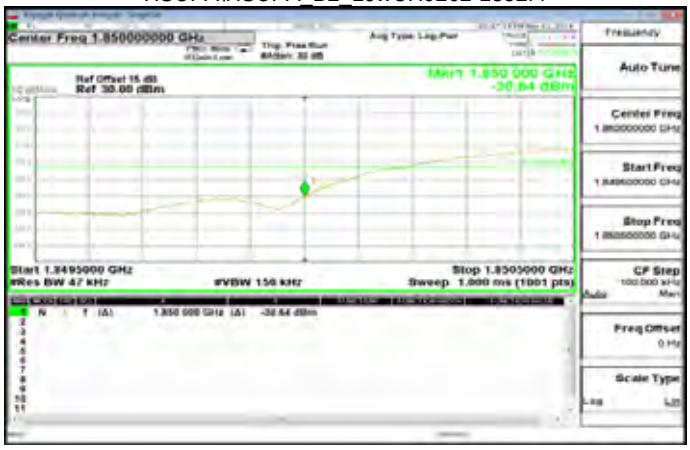
WCDMA\WCDMA_B2_LowCH9262-1852.4



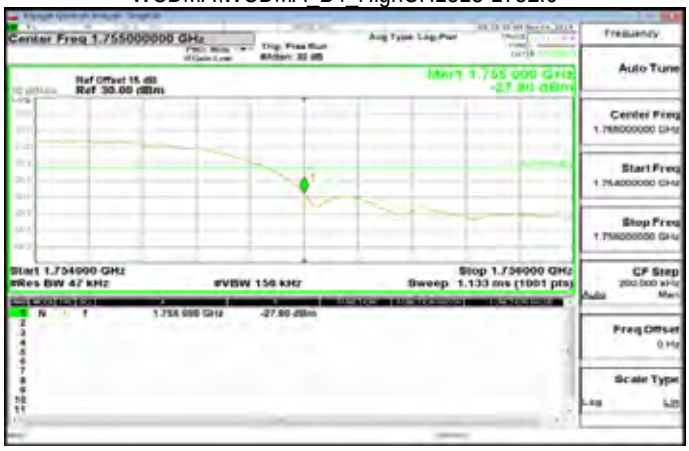
HSDPA\HSDPA_B2_HighCH9538-1907.6

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

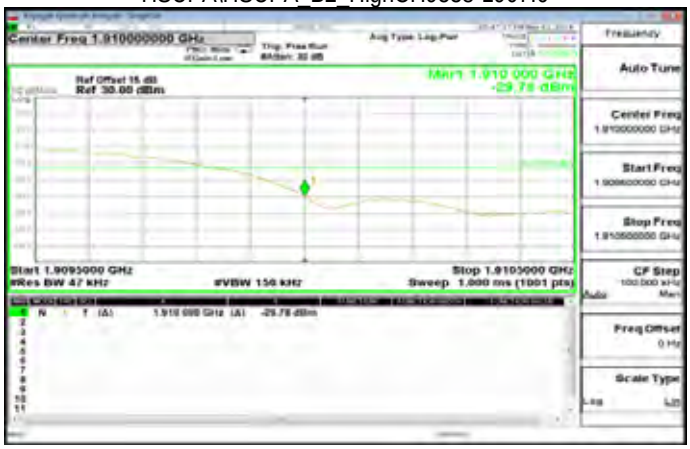
HSUPA\HSUPA_B2_LowCH9262-1852.4



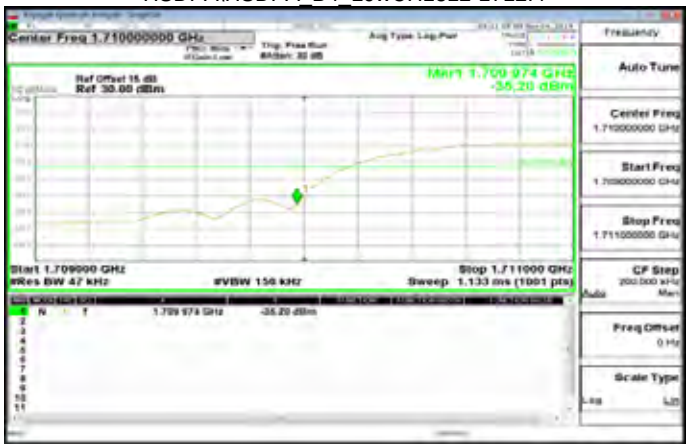
WCDMA\WCDMA_B4_HighCH1513-1752.6



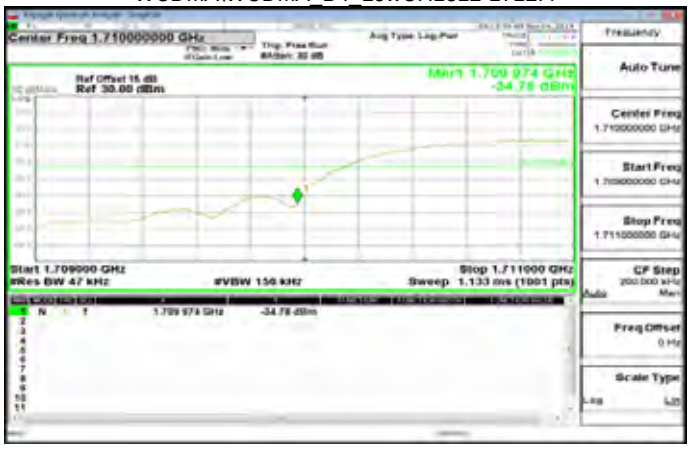
HSUPA\HSUPA_B2_HighCH9538-1907.6



HSDPA\HSDPA_B4_LowCH1312-1712.4



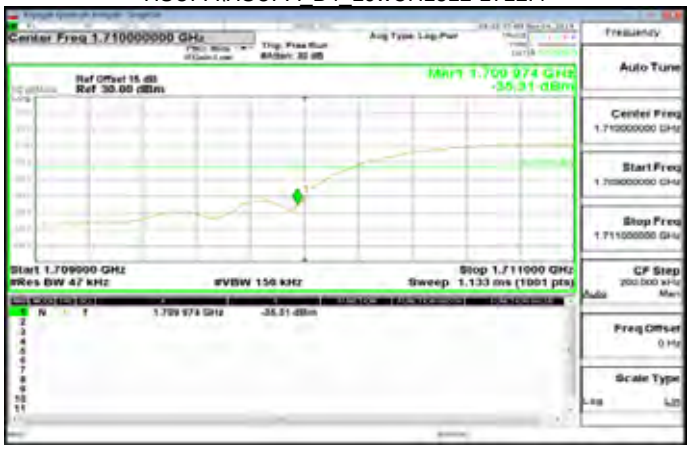
WCDMA\WCDMA_B4_LowCH1312-1712.4



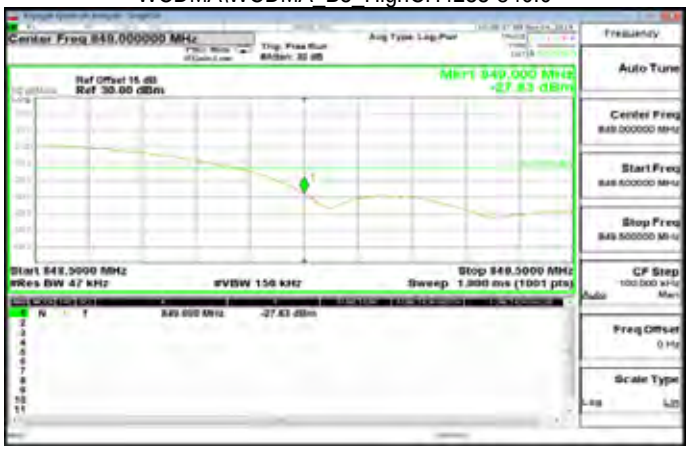
HSDPA\HSDPA_B4_HighCH1513-1752.6

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

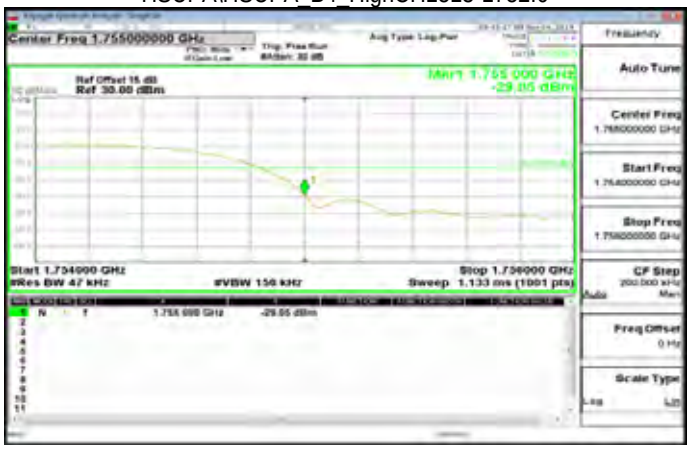
HSUPA\HSUPA_B4_LowCH1312-1712.4



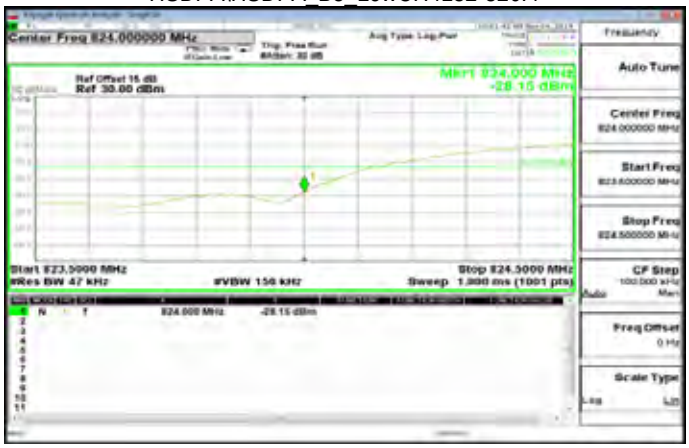
WCDMA\WCDMA_B5_HighCH4233-846.6



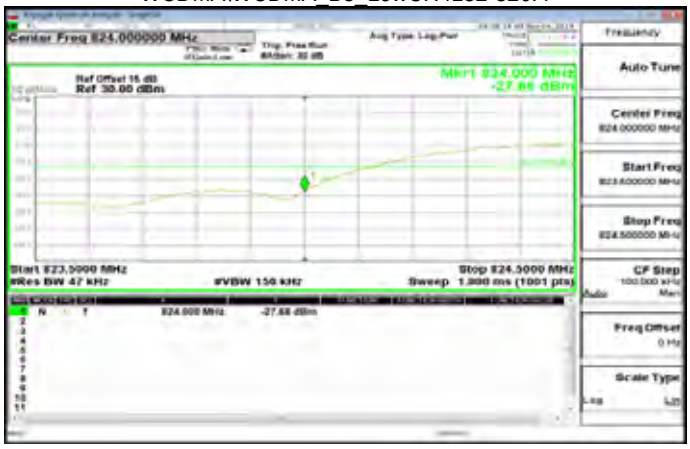
HSUPA\HSUPA_B4_HighCH1513-1752.6



HSDPA\HSDPA_B5_LowCH4132-826.4



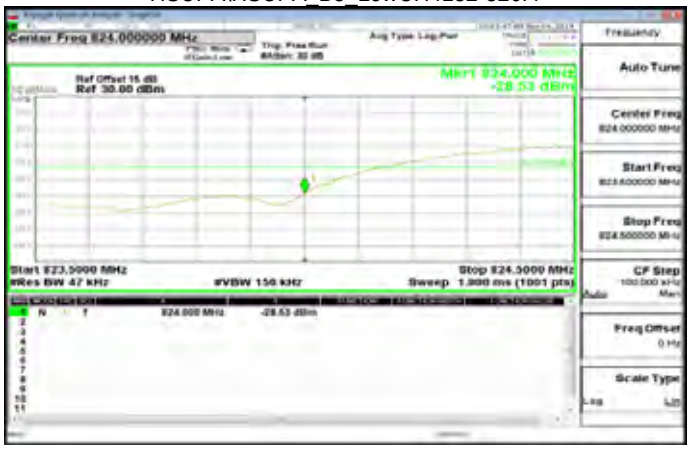
WCDMA\WCDMA_B5_LowCH4132-826.4



HSDPA\HSDPA_B5_HighCH4233-846.6

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

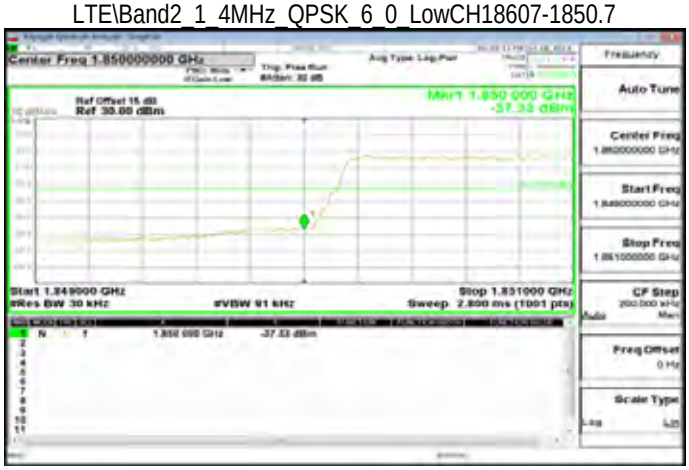
HSUPA\HSUPA_B5_LowCH4132-826.4



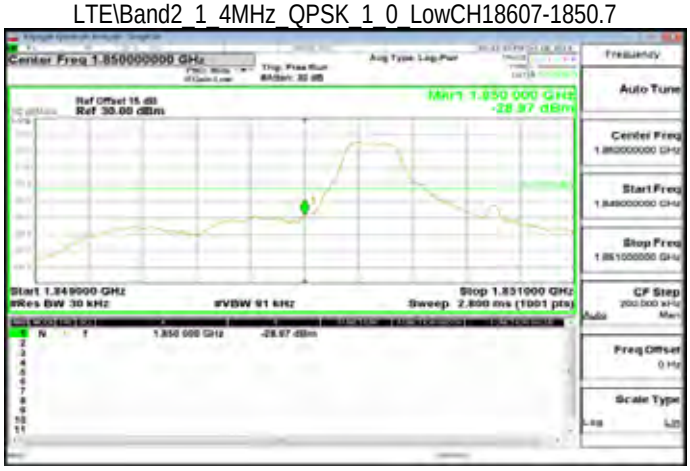
LTE\Band2_1_4MHz_QPSK_1_5_HighCH19193-1909.3

HSUPA\HSUPA_B5_HighCH4233-846.6

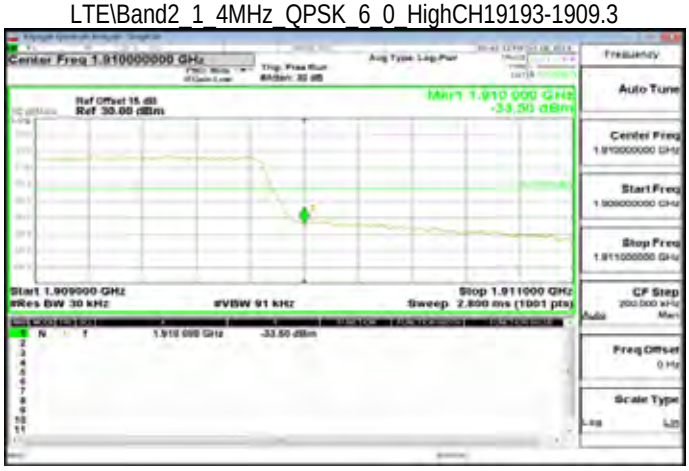
LTE\Band2_1_4MHz_QPSK_6_0_LowCH18607-1850.7



LTE\Band2_1_4MHz_QPSK_1_0_LowCH18607-1850.7

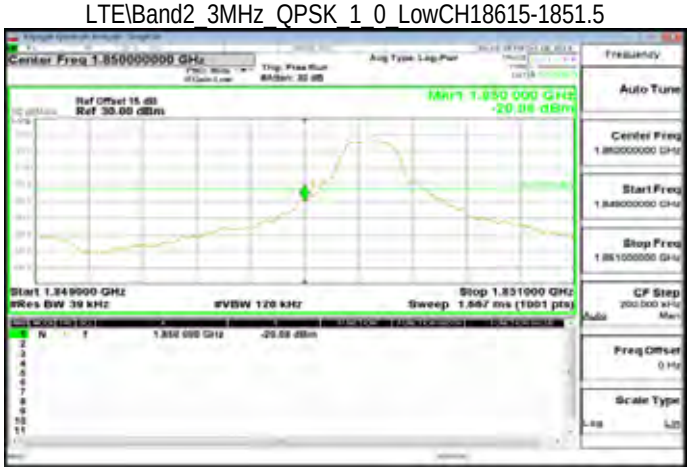


LTE\Band2_1_4MHz_QPSK_6_0_HighCH19193-1909.3

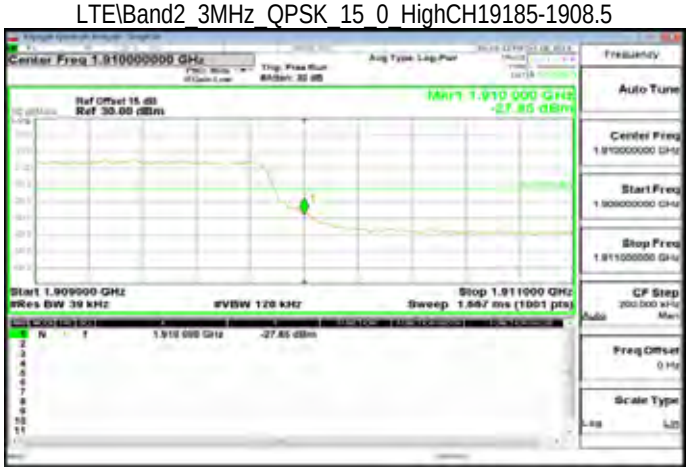


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

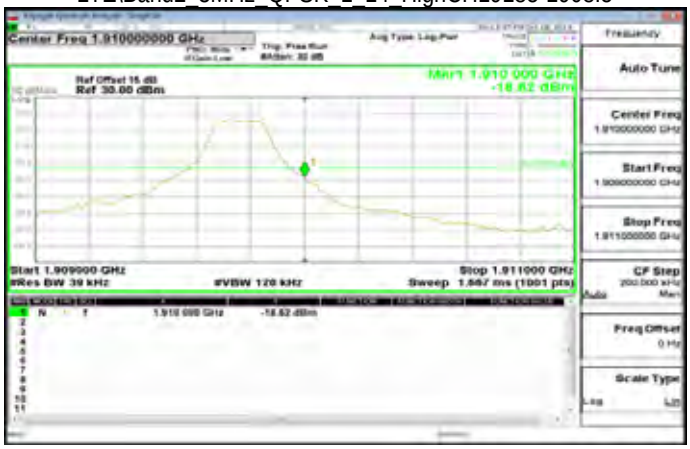
LTE\Band2_3MHz_QPSK_1_0_LowCH18615-1851.5



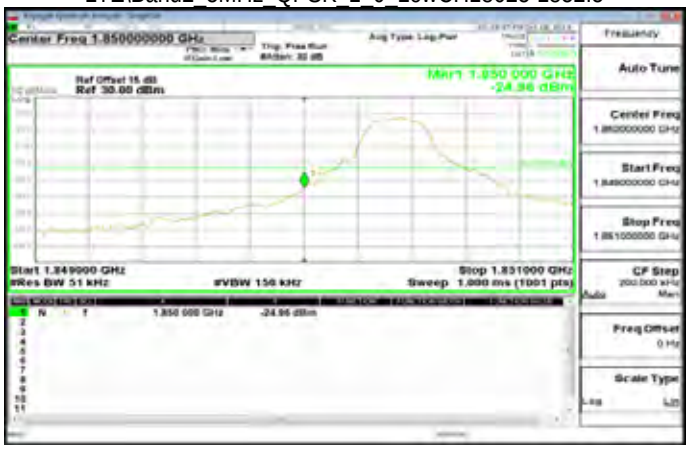
LTE\Band2_3MHz_QPSK_15_0_HighCH19185-1908.5



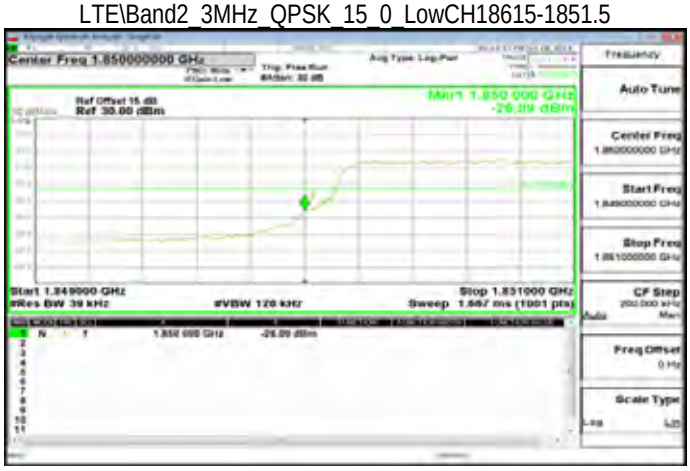
LTE\Band2_3MHz_QPSK_1_14_HighCH19185-1908.5



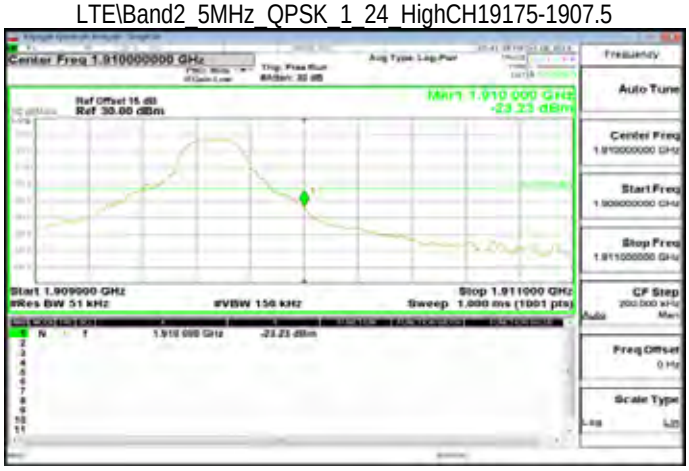
LTE\Band2_5MHz_QPSK_1_0_LowCH18625-1852.5



LTE\Band2_3MHz_QPSK_15_0_LowCH18615-1851.5



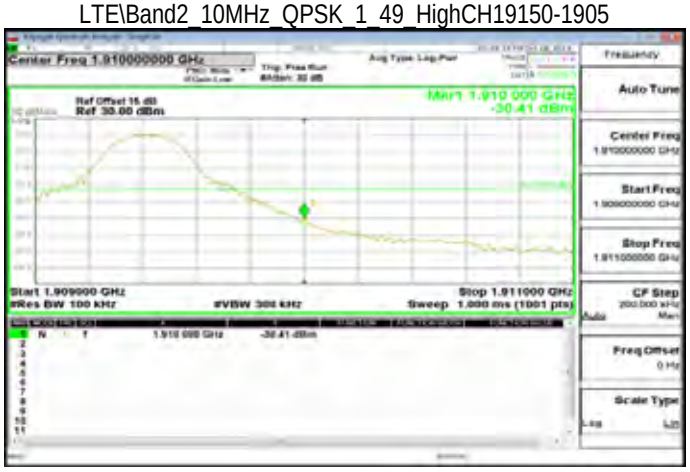
LTE\Band2_5MHz_QPSK_1_24_HighCH19175-1907.5



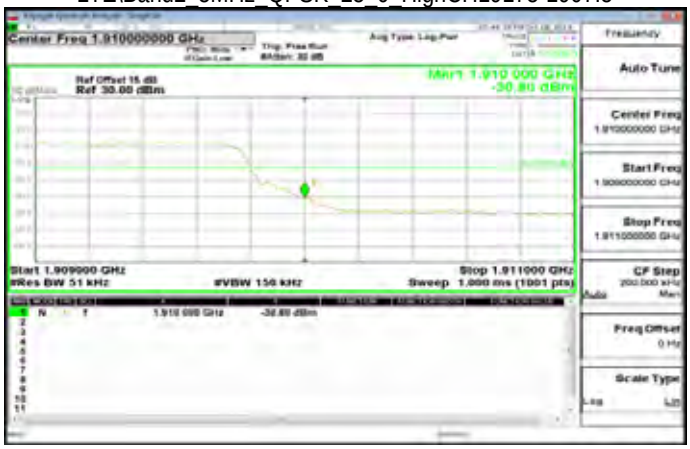
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

LTE\Band2_5MHz_QPSK_25_0_LowCH18625-1852.5

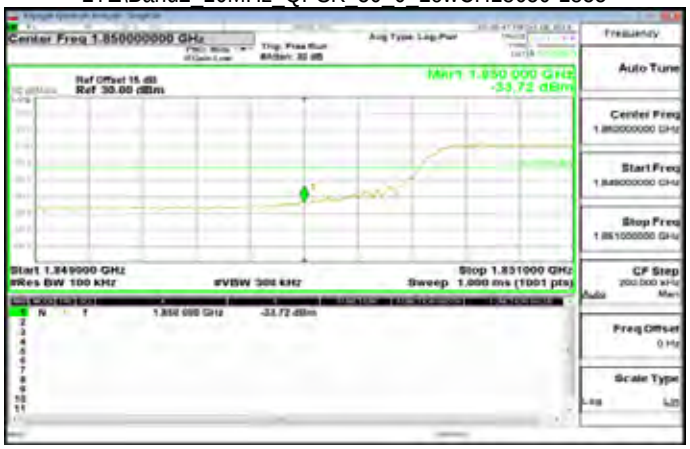
LTE\Band2_10MHz_QPSK_1_49_HighCH19150-1905



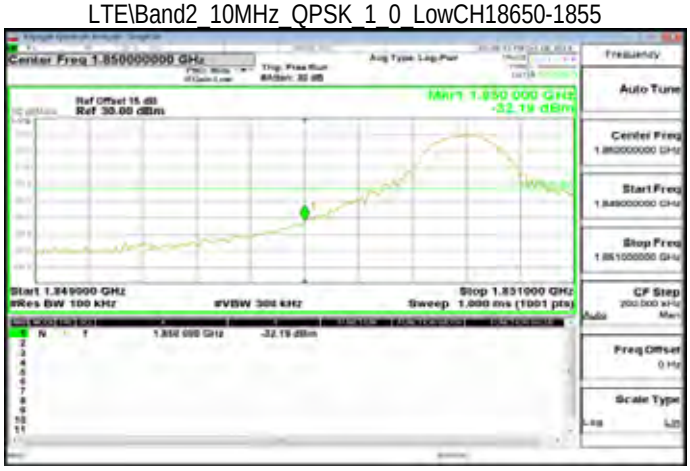
LTE\Band2_5MHz_QPSK_25_0_HighCH19175-1907.5



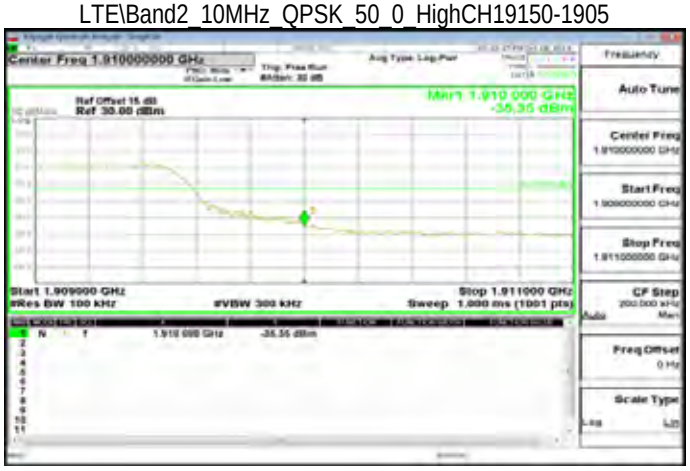
LTE\Band2_10MHz_QPSK_50_0_LowCH18650-1855



LTE\Band2_10MHz_QPSK_1_0_LowCH18650-1855

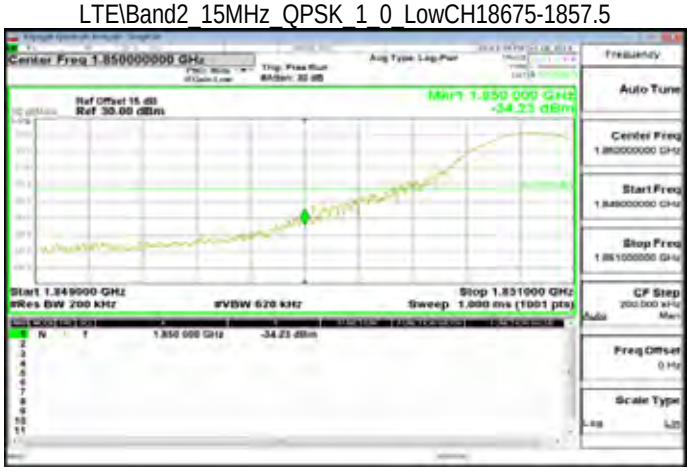


LTE\Band2_10MHz_QPSK_50_0_HighCH19150-1905



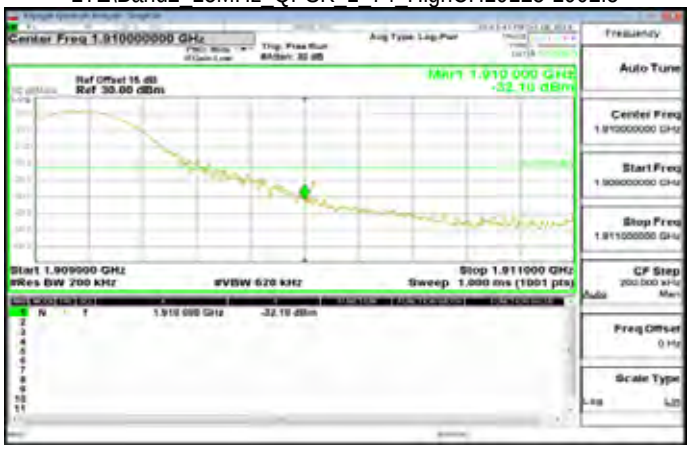
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

LTE\Band2_15MHz_QPSK_1_0_LowCH18675-1857.5

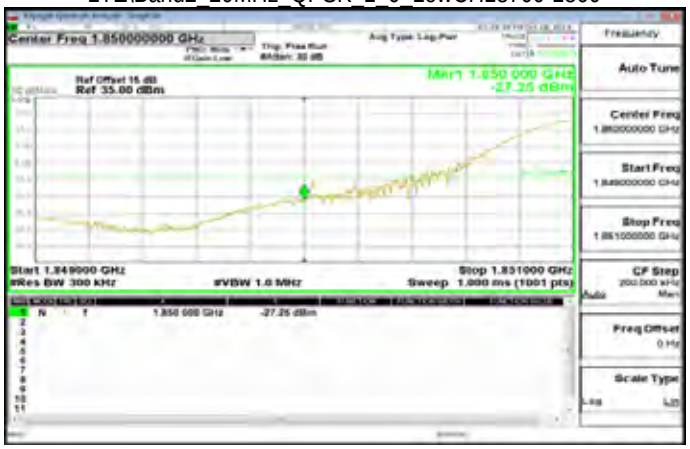


LTE\Band2_15MHz_QPSK_75_0_HighCH19125-1902.5

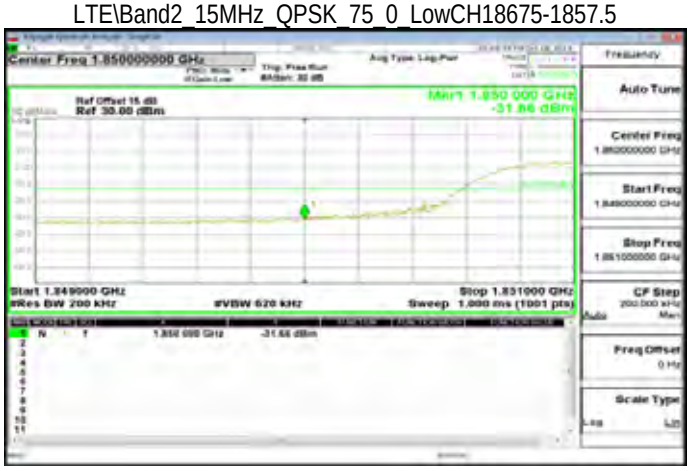
LTE\Band2_15MHz_QPSK_1_74_HighCH19125-1902.5



LTE\Band2_20MHz_QPSK_1_0_LowCH18700-1860



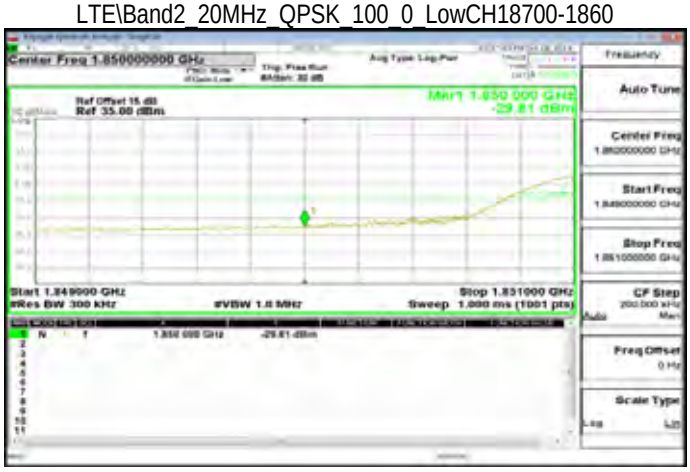
LTE\Band2_15MHz_QPSK_75_0_LowCH18675-1857.5



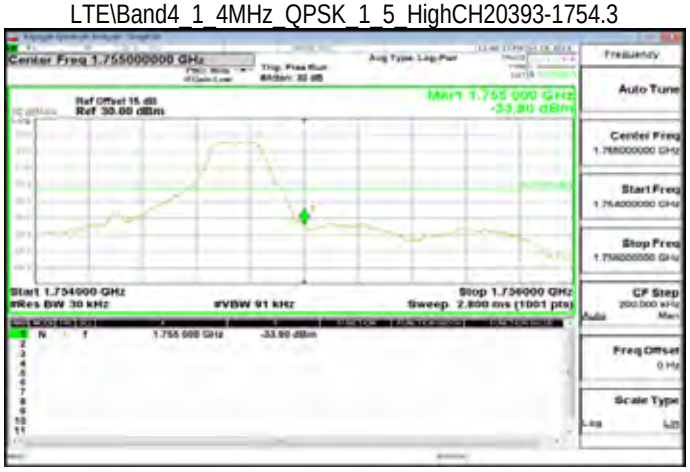
LTE\Band2_20MHz_QPSK_1_99_HighCH19100-1900

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

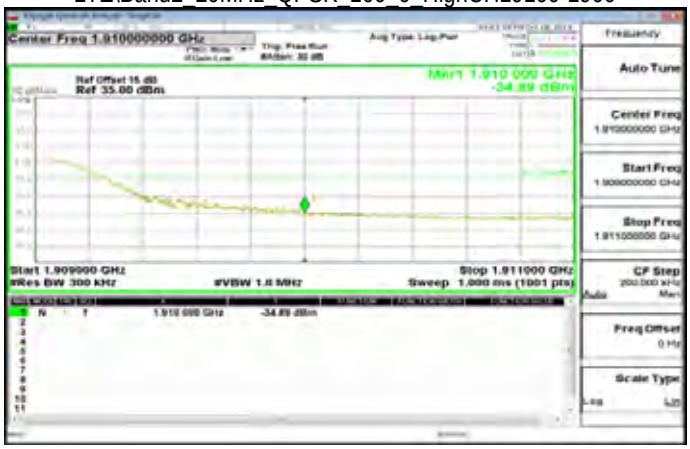
LTE\Band2_20MHz_QPSK_100_0_LowCH18700-1860



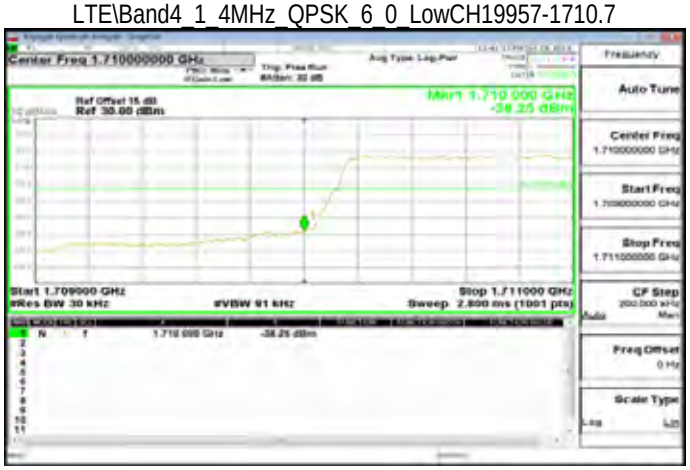
LTE\Band4_1_4MHz_QPSK_1_5_HighCH20393-1754.3



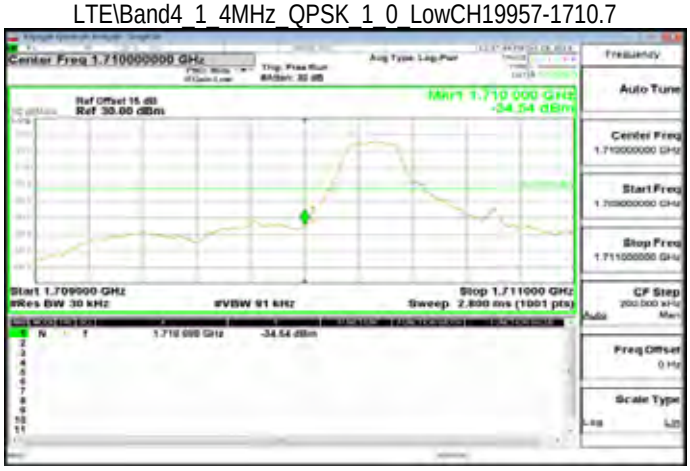
LTE\Band2_20MHz_QPSK_100_0_HighCH19100-1900



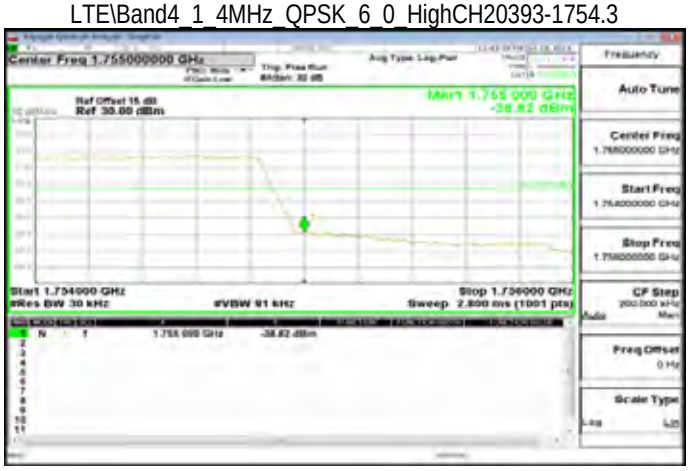
LTE\Band4_1_4MHz_QPSK_6_0_LowCH19957-1710.7



LTE\Band4_1_4MHz_QPSK_1_0_LowCH19957-1710.7

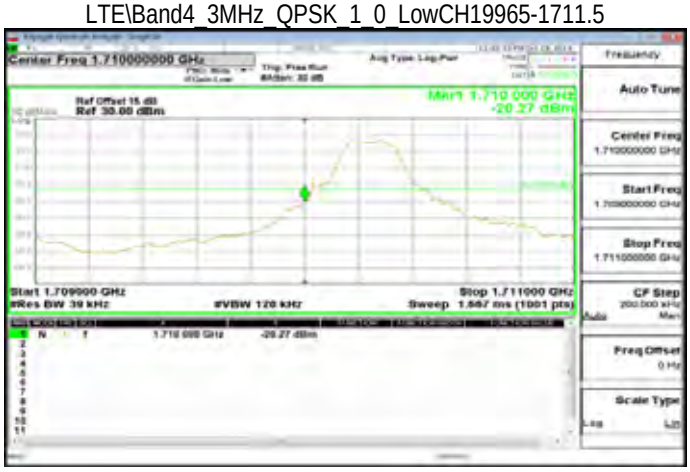


LTE\Band4_1_4MHz_QPSK_6_0_HighCH20393-1754.3

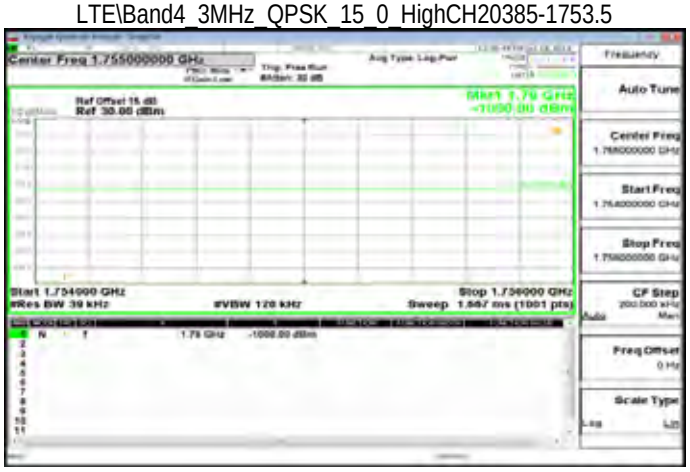


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

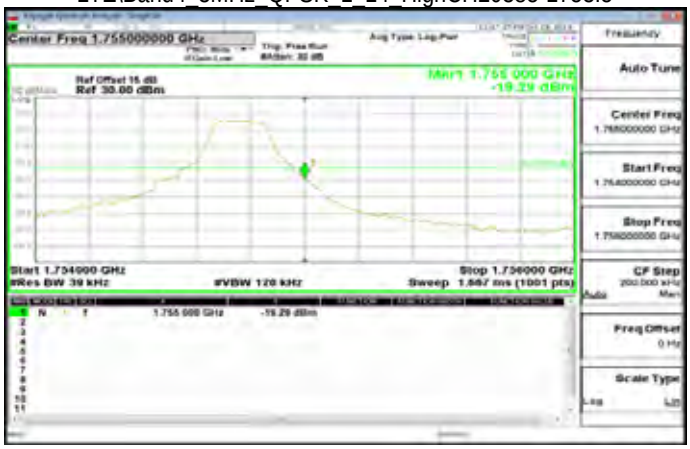
LTE\Band4_3MHz_QPSK_1_0_LowCH19965-1711.5



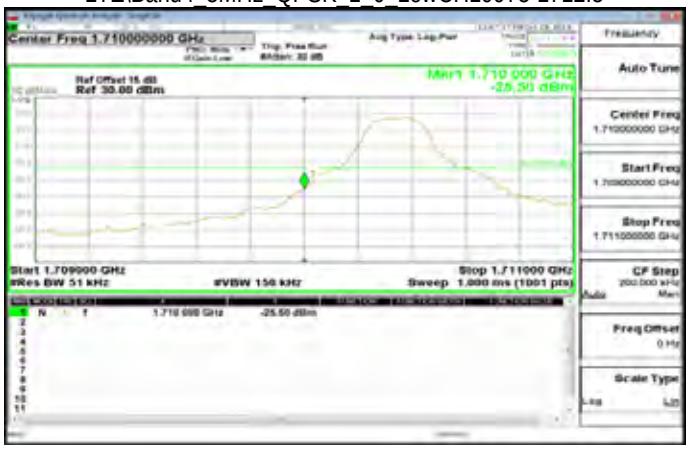
LTE\Band4_3MHz_QPSK_15_0_HighCH20385-1753.5



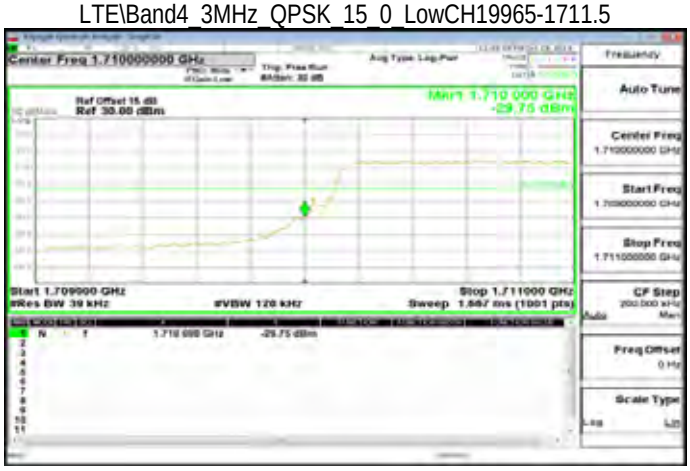
LTE\Band4_3MHz_QPSK_1_14_HighCH20385-1753.5



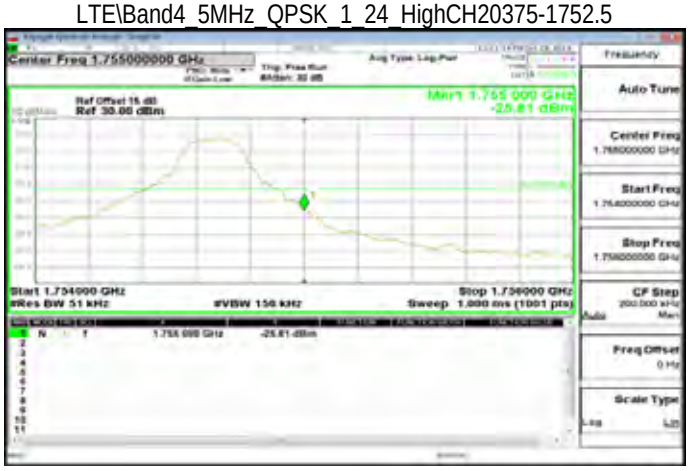
LTE\Band4_5MHz_QPSK_1_0_LowCH19975-1712.5



LTE\Band4_3MHz_QPSK_15_0_LowCH19965-1711.5

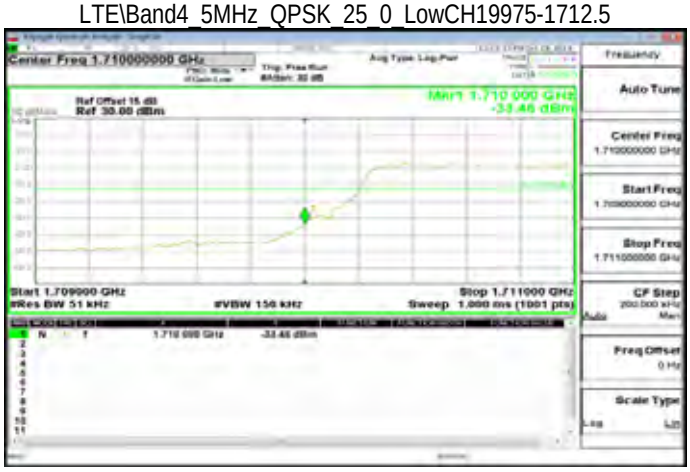


LTE\Band4_5MHz_QPSK_1_24_HighCH20375-1752.5

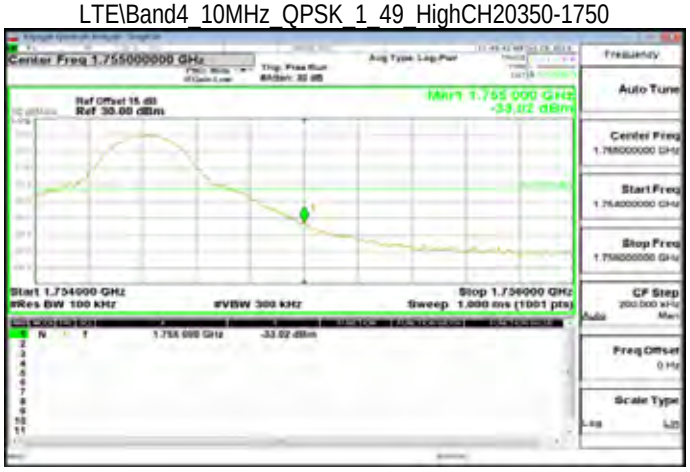


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

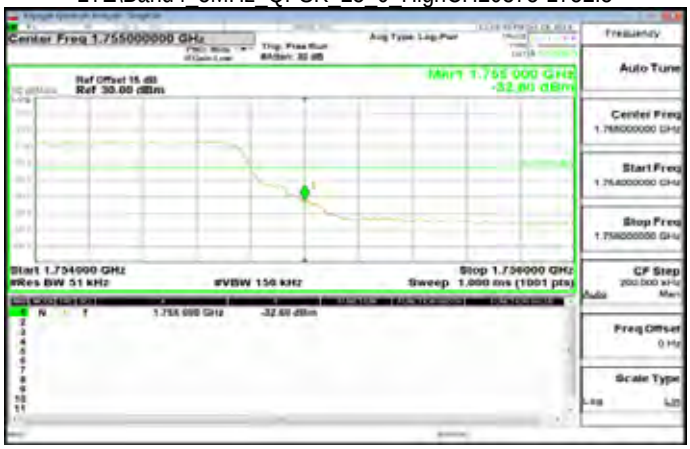
LTE\Band4_5MHz_QPSK_25_0_LowCH19975-1712.5



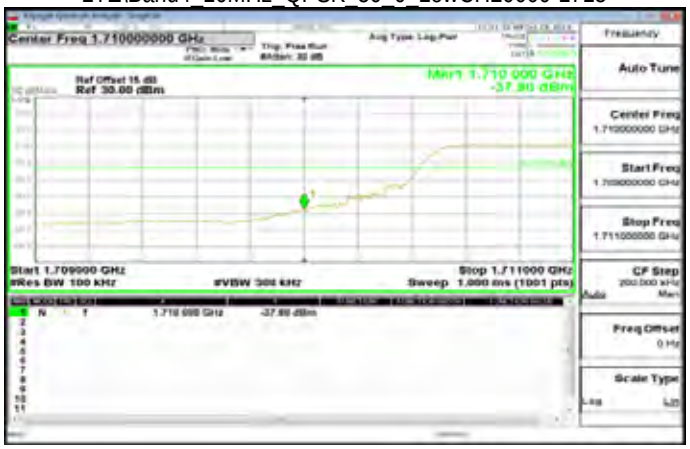
LTE\Band4_10MHz_QPSK_1_49_HighCH20350-1750



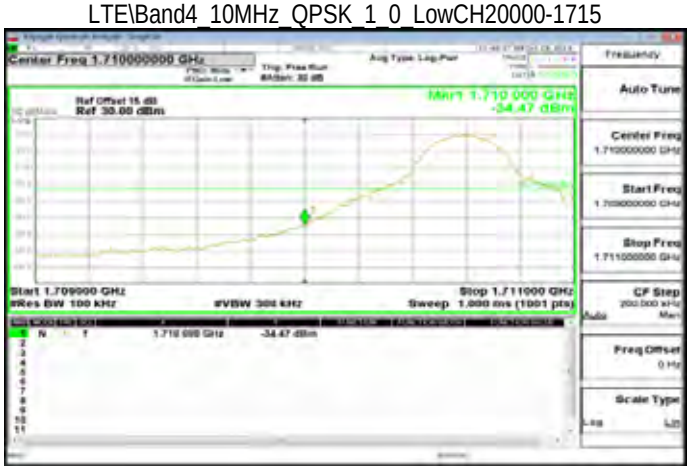
LTE\Band4_5MHz_QPSK_25_0_HighCH20375-1752.5



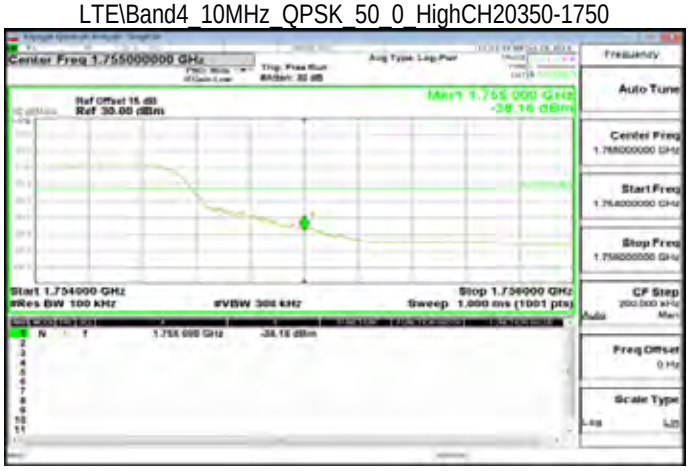
LTE\Band4_10MHz_QPSK_50_0_LowCH20000-1715



LTE\Band4_10MHz_QPSK_1_0_LowCH20000-1715

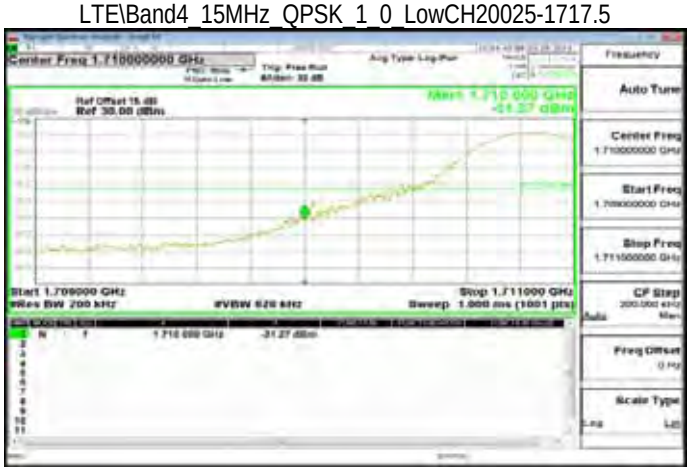


LTE\Band4_10MHz_QPSK_50_0_HighCH20350-1750

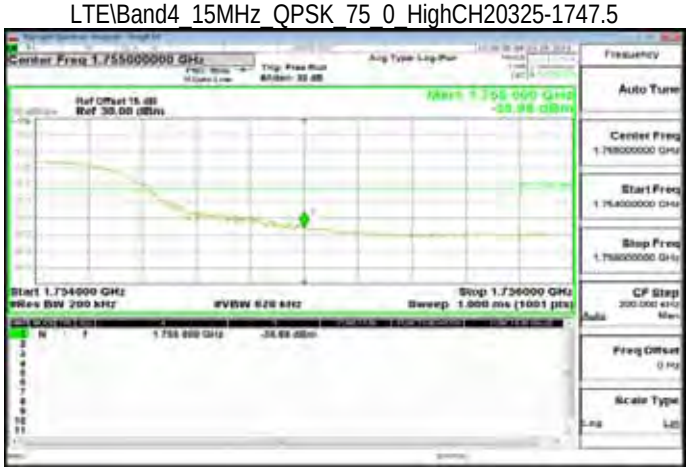


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

LTE\Band4_15MHz_QPSK_1_0_LowCH20025-1717.5

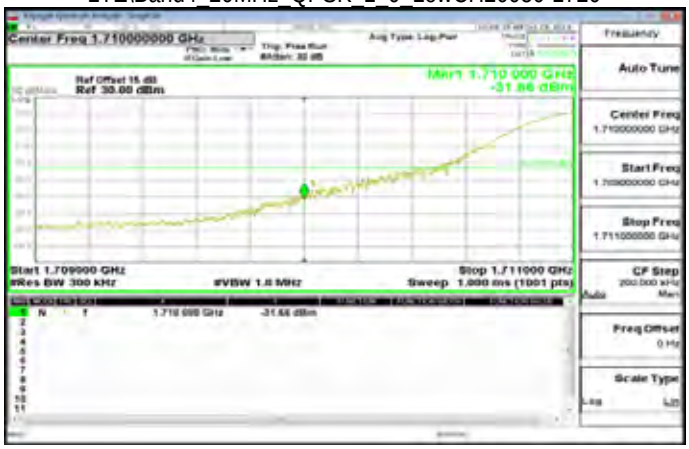


LTE\Band4_15MHz_QPSK_75_0_HighCH20325-1747.5

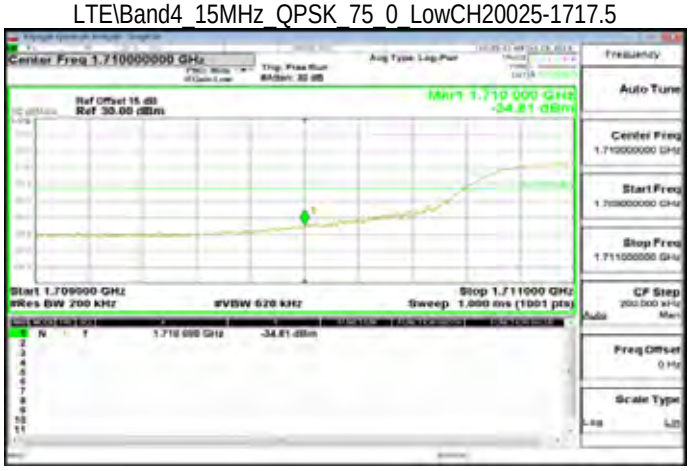


LTE\Band4_15MHz_QPSK_1_74_HighCH20325-1747.5

LTE\Band4_20MHz_QPSK_1_0_LowCH20050-1720



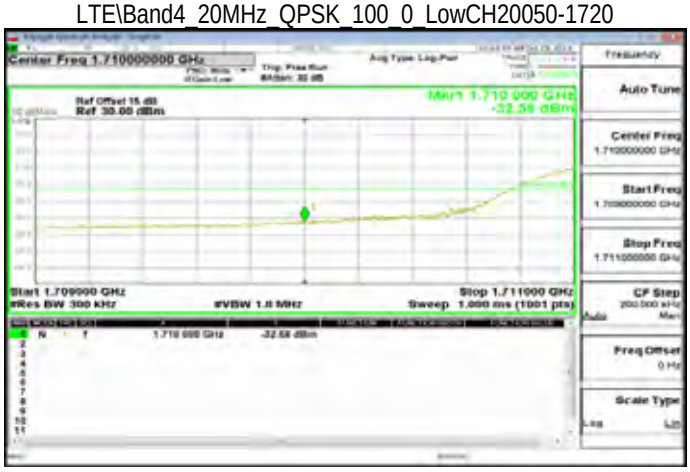
LTE\Band4_15MHz_QPSK_75_0_LowCH20025-1717.5



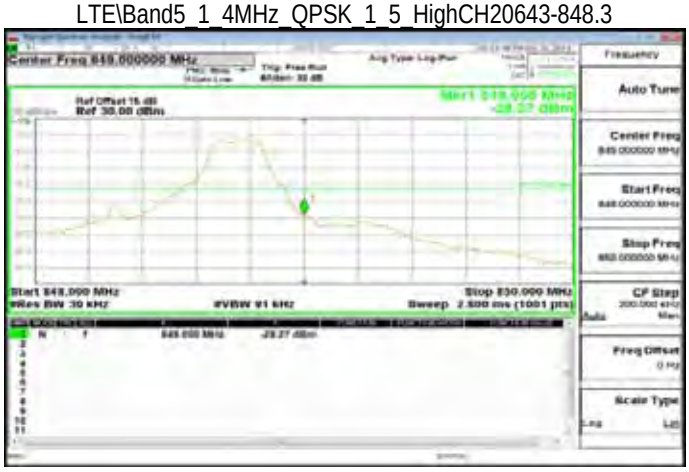
LTE\Band4_20MHz_QPSK_1_99_HighCH20300-1745

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

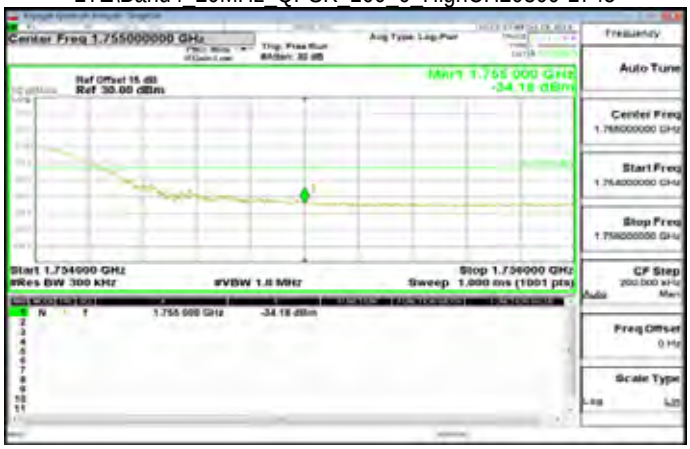
LTE\Band4_20MHz_QPSK_100_0_LowCH20050-1720



LTE\Band5_1_4MHz_QPSK_1_5_HighCH20643-848.3

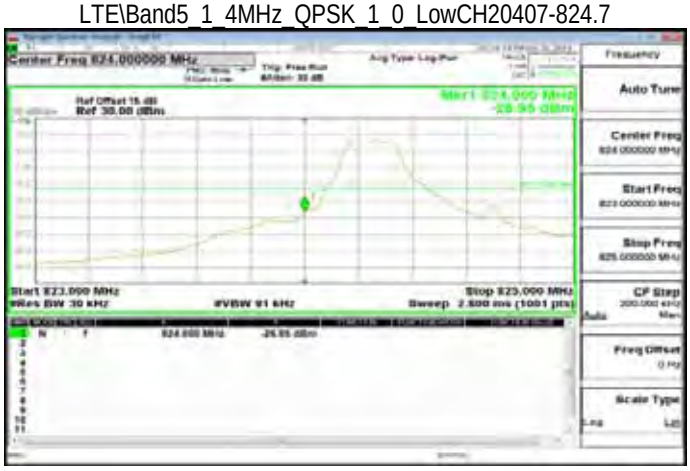


LTE\Band4_20MHz_QPSK_100_0_HighCH20300-1745

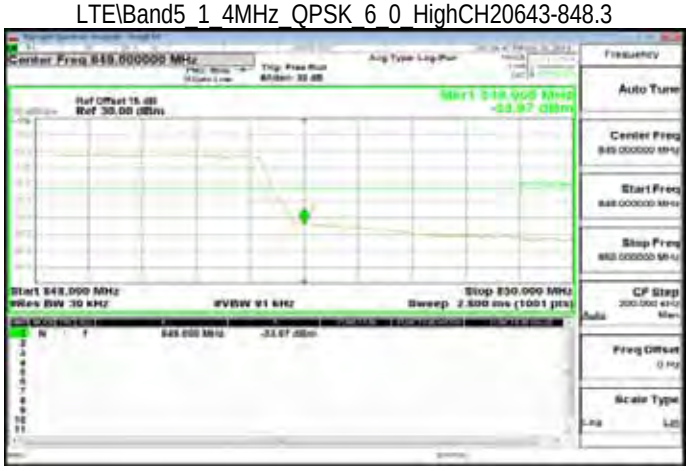


LTE\Band5_1_4MHz_QPSK_6_0_LowCH20407-824.7

LTE\Band5_1_4MHz_QPSK_1_0_LowCH20407-824.7



LTE\Band5_1_4MHz_QPSK_6_0_HighCH20643-848.3

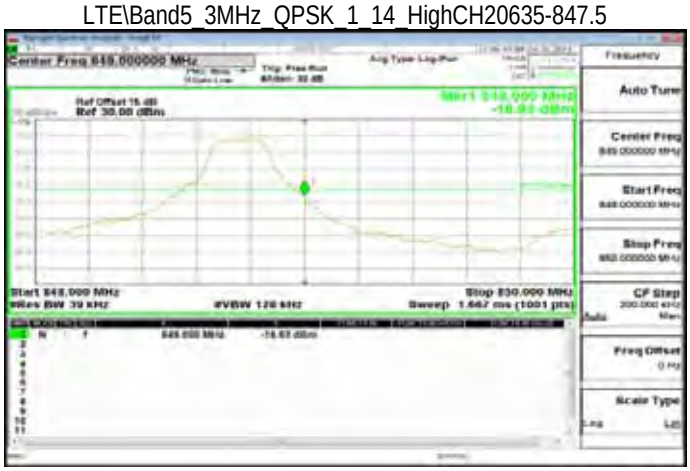


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

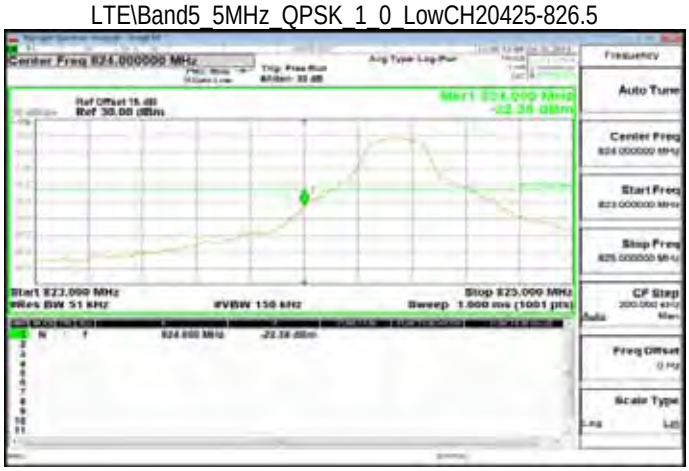
LTE\Band5_3MHz_QPSK_1_0_LowCH20415-825.5

LTE\Band5_3MHz_QPSK_15_0_HighCH20635-847.5

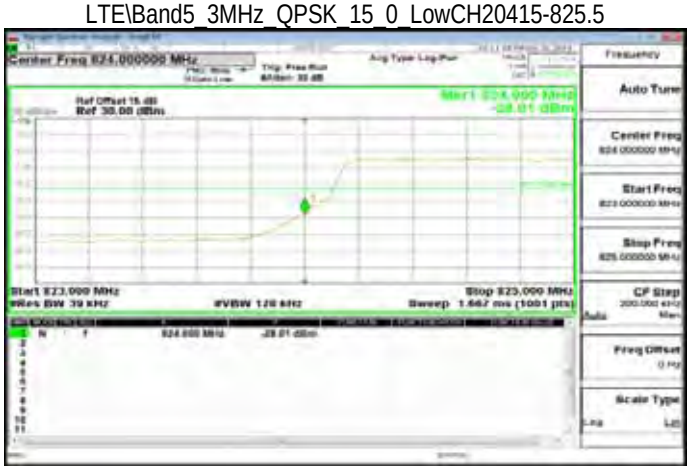
LTE\Band5_3MHz_QPSK_1_14_HighCH20635-847.5



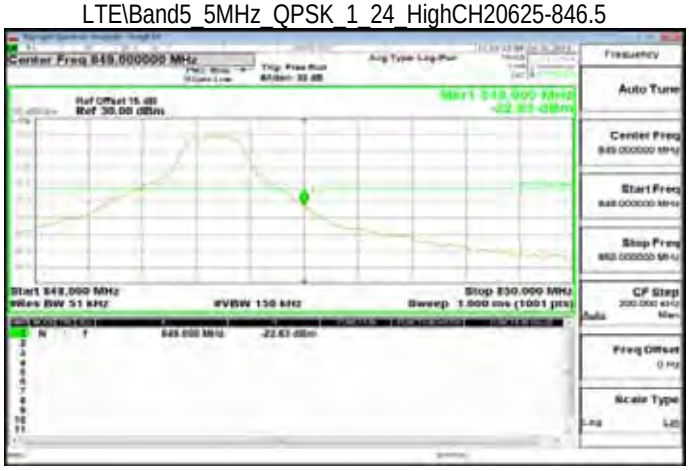
LTE\Band5_5MHz_QPSK_1_0_LowCH20425-826.5



LTE\Band5_3MHz_QPSK_15_0_LowCH20415-825.5

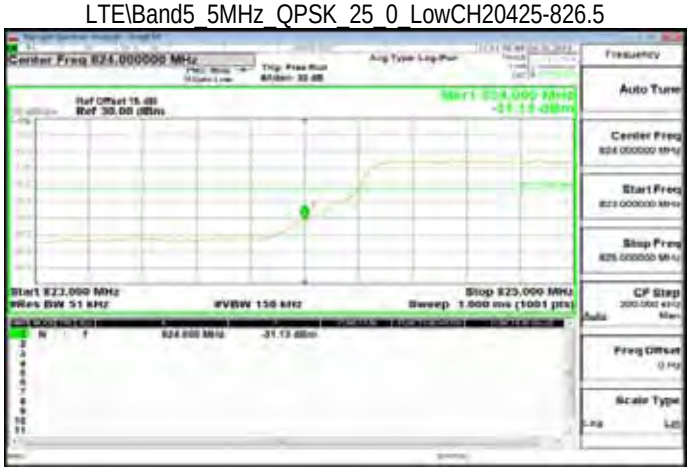


LTE\Band5_5MHz_QPSK_1_24_HighCH20625-846.5

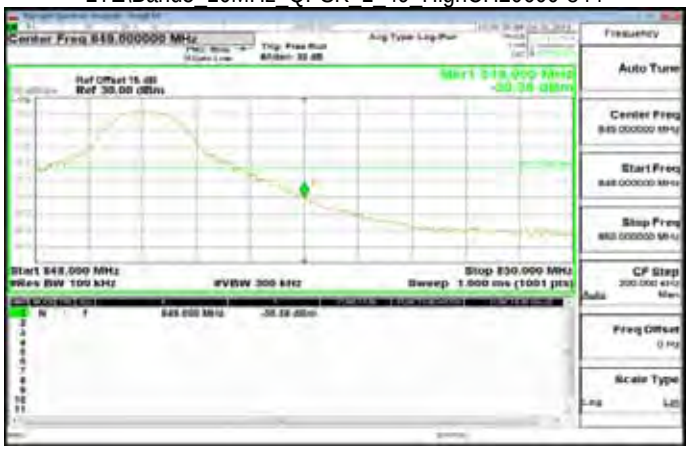


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

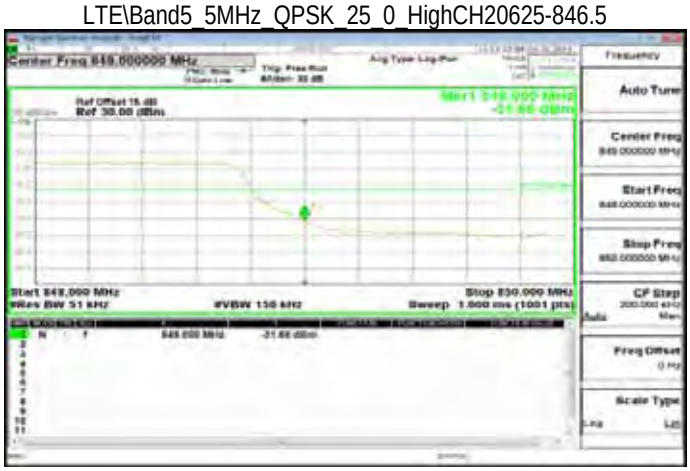
LTE\Band5_5MHz_QPSK_25_0_LowCH20425-826.5



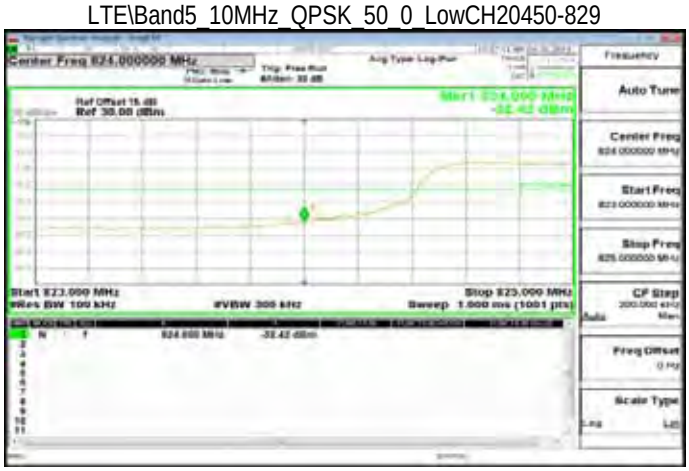
LTE\Band5_10MHz_QPSK_1_49_HighCH20600-844



LTE\Band5_5MHz_QPSK_25_0_HighCH20625-846.5

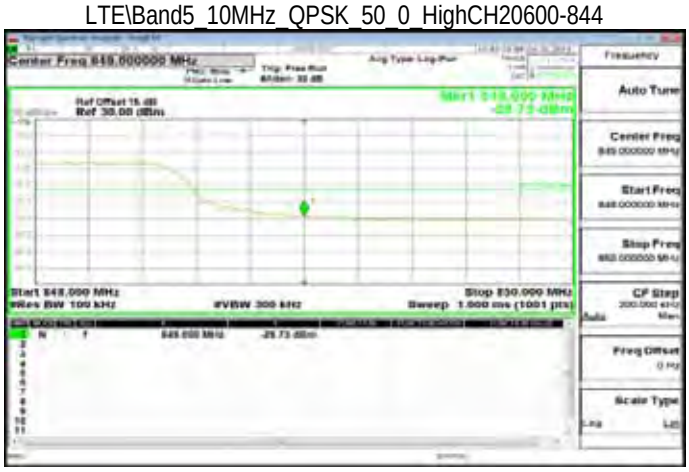


LTE\Band5_10MHz_QPSK_50_0_LowCH20450-829



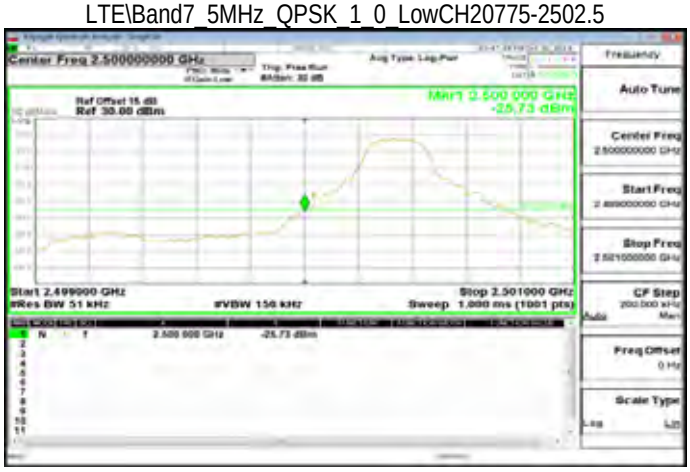
LTE\Band5_10MHz_QPSK_1_0_LowCH20450-829

LTE\Band5_10MHz_QPSK_50_0_HighCH20600-844

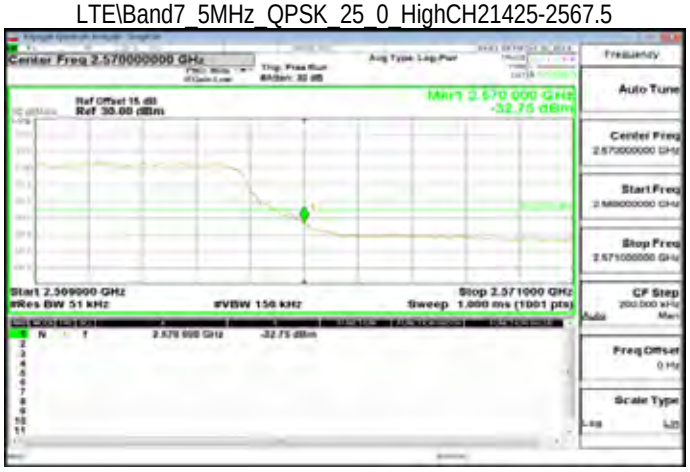


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

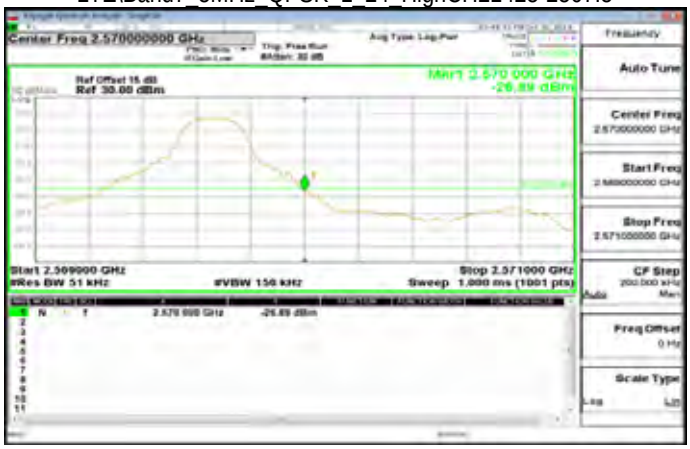
LTE\Band7_5MHz_QPSK_1_0_LowCH20775-2502.5



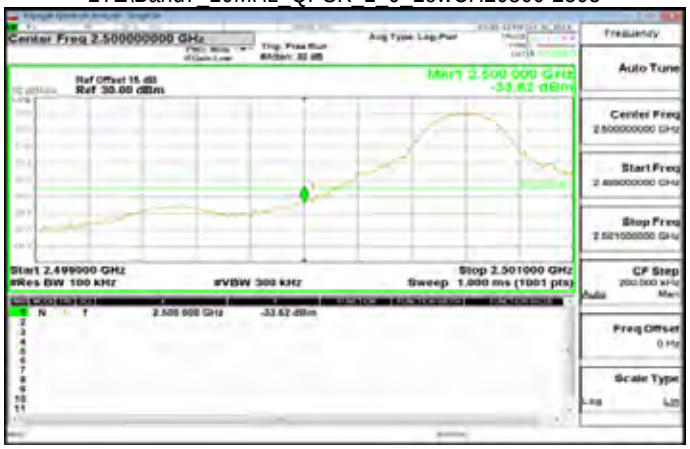
LTE\Band7_5MHz_QPSK_25_0_HighCH21425-2567.5



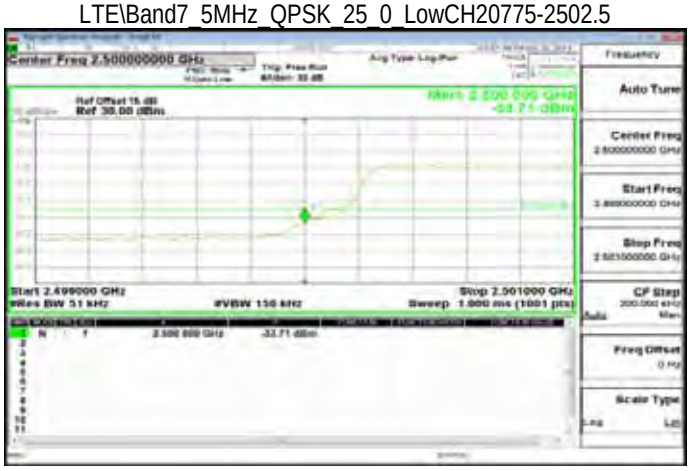
LTE\Band7_5MHz_QPSK_1_24_HighCH21425-2567.5



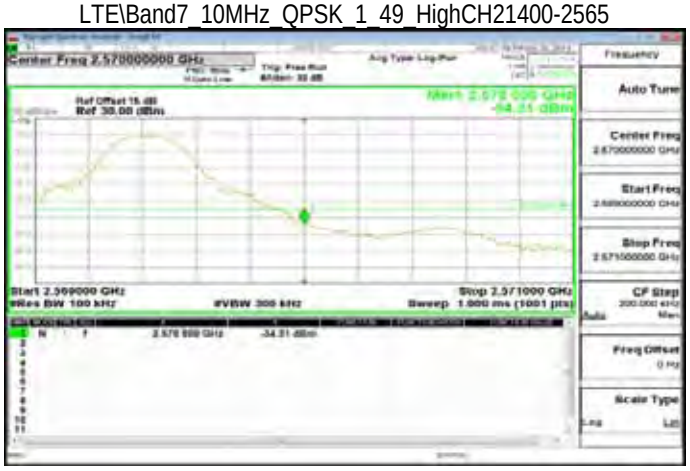
LTE\Band7_10MHz_QPSK_1_0_LowCH20800-2505



LTE\Band7_5MHz_QPSK_25_0_LowCH20775-2502.5

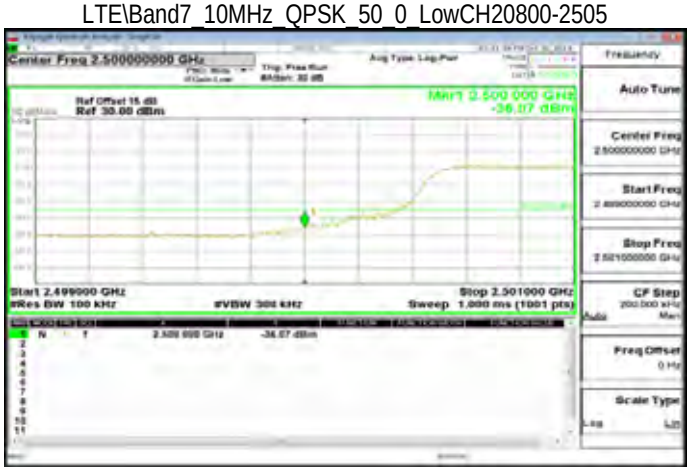


LTE\Band7_10MHz_QPSK_1_49_HighCH21400-2565



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

LTE\Band7_10MHz_QPSK_50_0_LowCH20800-2505

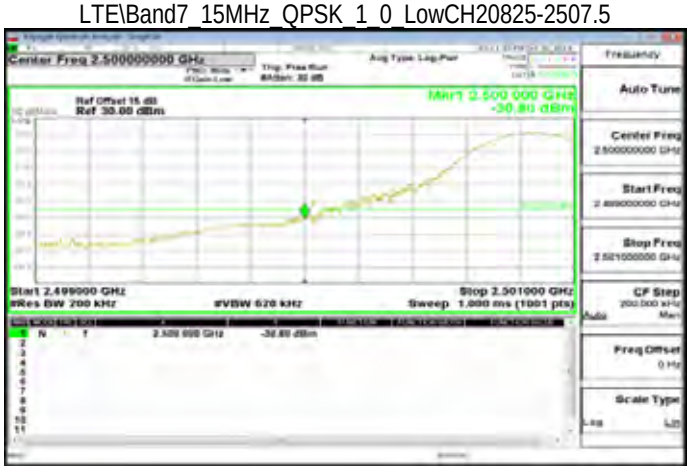


LTE\Band7_15MHz_QPSK_1_74_HighCH21375-2562.5

LTE\Band7_10MHz_QPSK_50_0_HighCH21400-2565

LTE\Band7_15MHz_QPSK_75_0_LowCH20825-2507.5

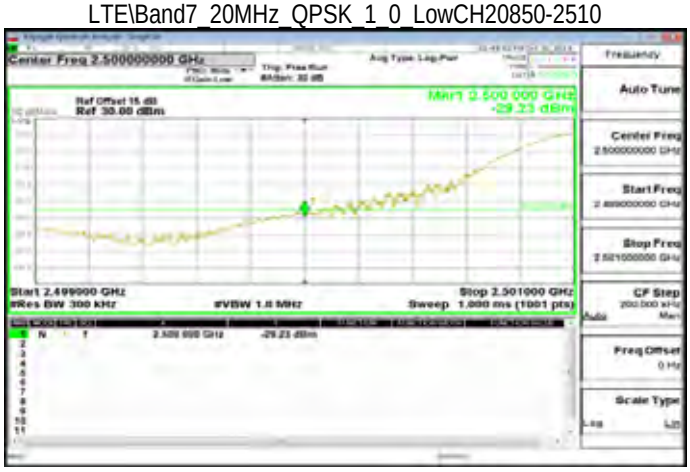
LTE\Band7_15MHz_QPSK_1_0_LowCH20825-2507.5



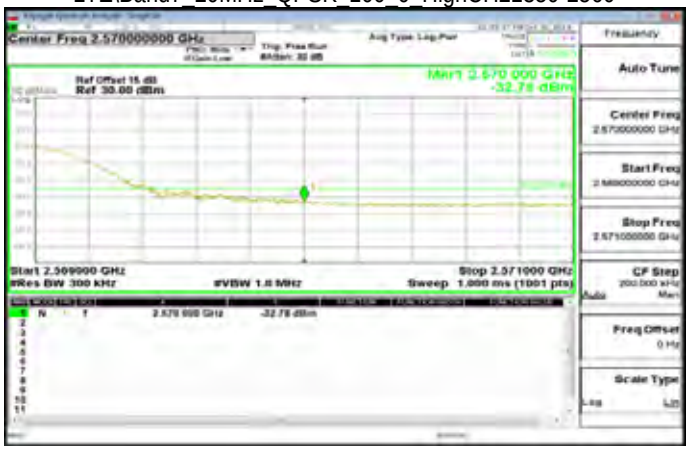
LTE\Band7_15MHz_QPSK_75_0_HighCH21375-2562.5

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

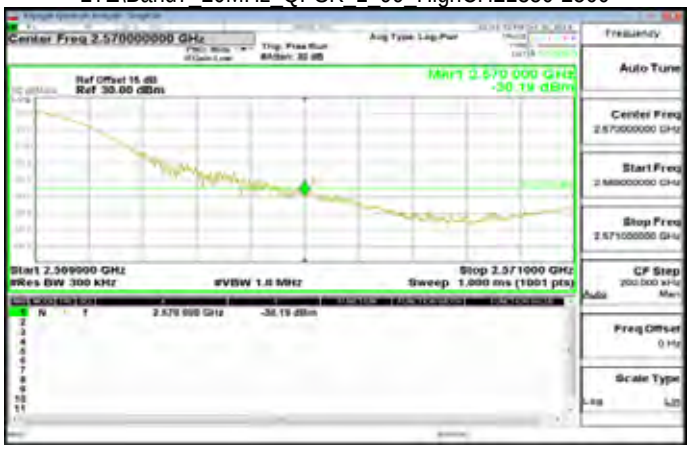
LTE\Band7_20MHz_QPSK_1_0_LowCH20850-2510



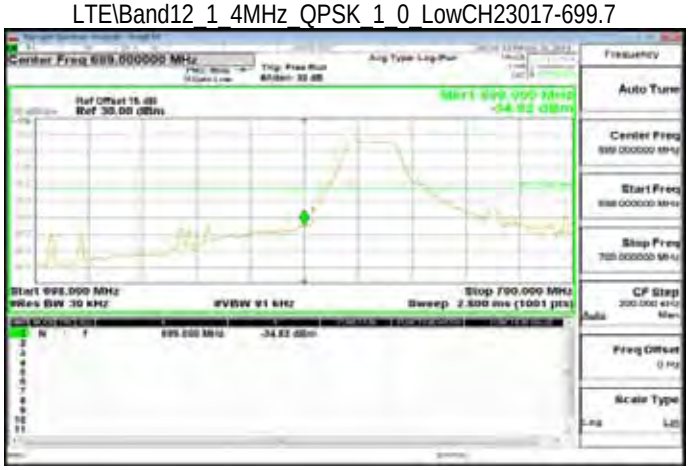
LTE\Band7_20MHz_QPSK_100_0_HighCH21350-2560



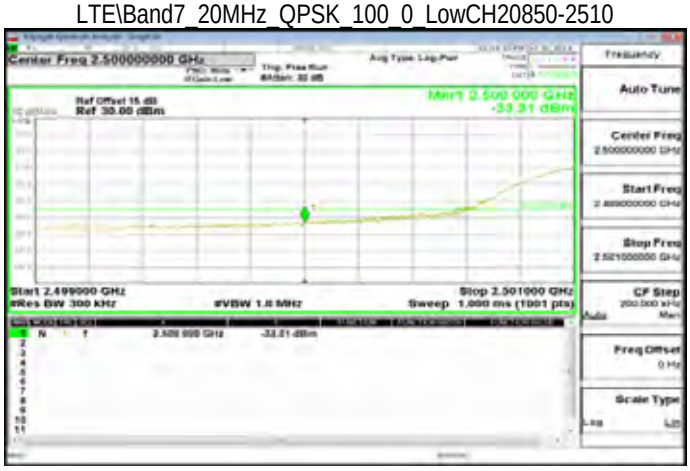
LTE\Band7_20MHz_QPSK_1_99_HighCH21350-2560



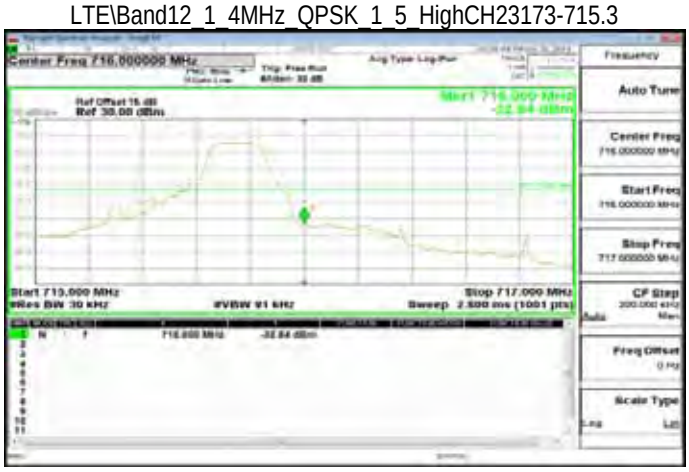
LTE\Band12_1_4MHz_QPSK_1_0_LowCH23017-699.7



LTE\Band7_20MHz_QPSK_100_0_LowCH20850-2510

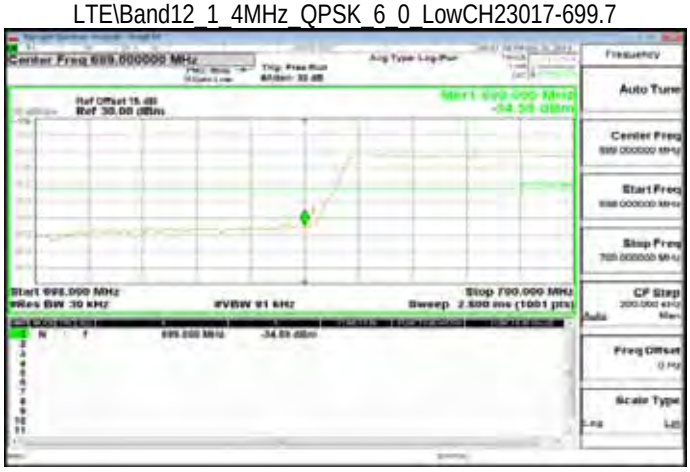


LTE\Band12_1_4MHz_QPSK_1_5_HighCH23173-715.3

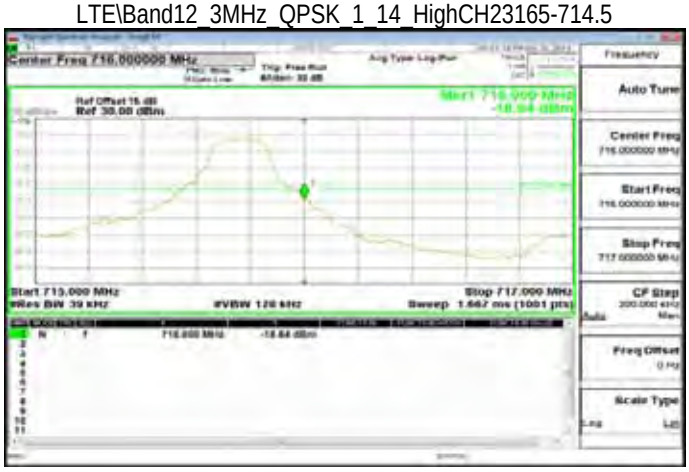


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

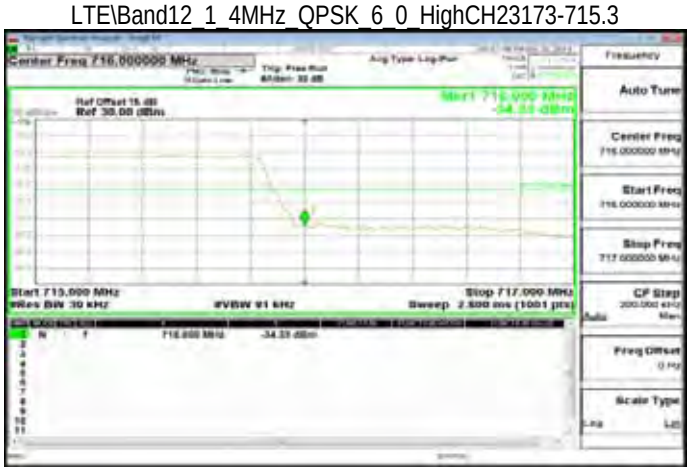
LTE\Band12_1_4MHz_QPSK_6_0_LowCH23017-699.7



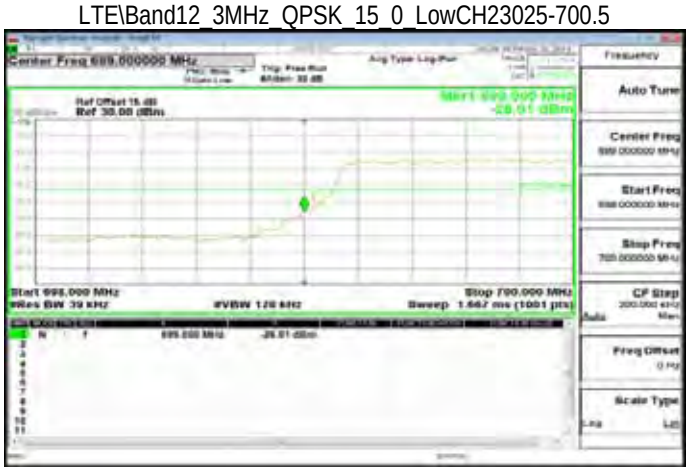
LTE\Band12_3MHz_QPSK_1_14_HighCH23165-714.5



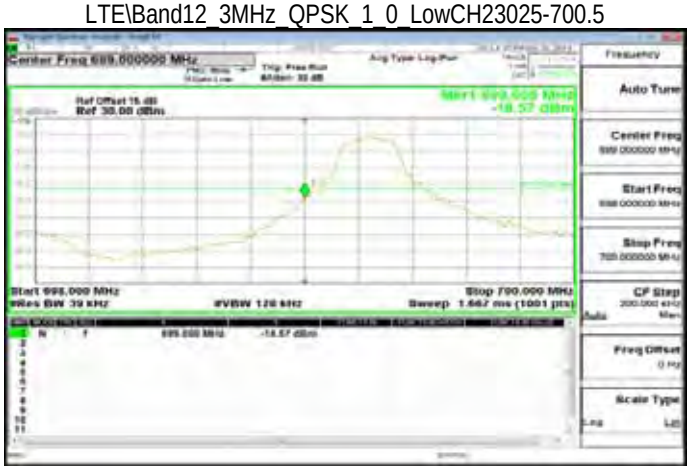
LTE\Band12_1_4MHz_QPSK_6_0_HighCH23173-715.3



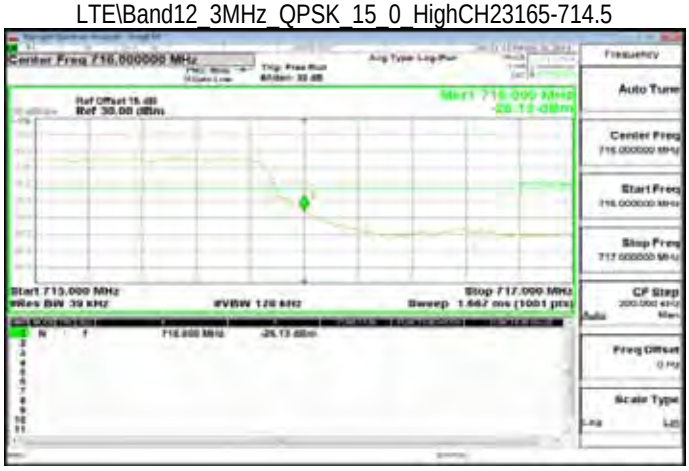
LTE\Band12_3MHz_QPSK_15_0_LowCH23025-700.5



LTE\Band12_3MHz_QPSK_1_0_LowCH23025-700.5

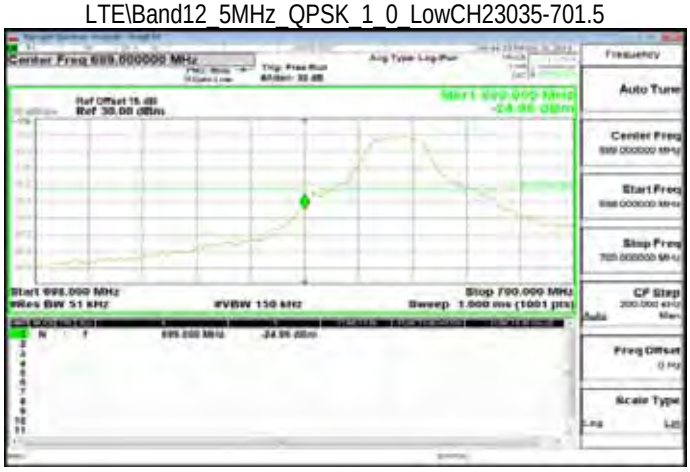


LTE\Band12_3MHz_QPSK_15_0_HighCH23165-714.5

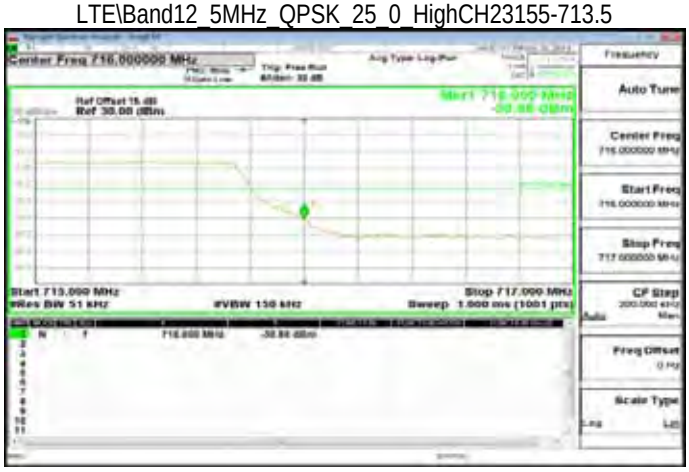


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

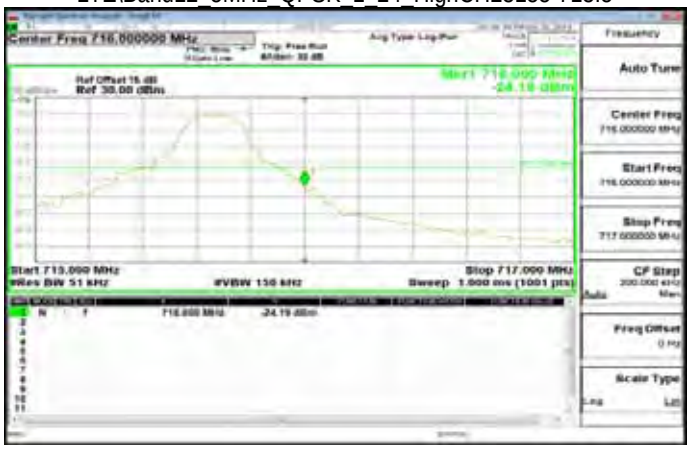
LTE\Band12_5MHz_QPSK_1_0_LowCH23035-701.5



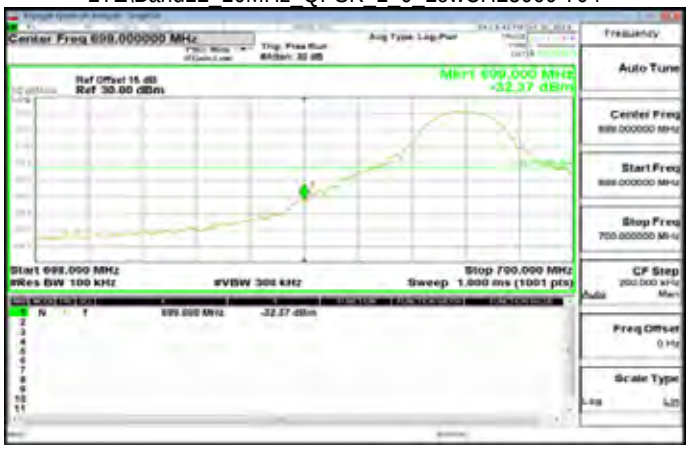
LTE\Band12_5MHz_QPSK_25_0_HighCH23155-713.5



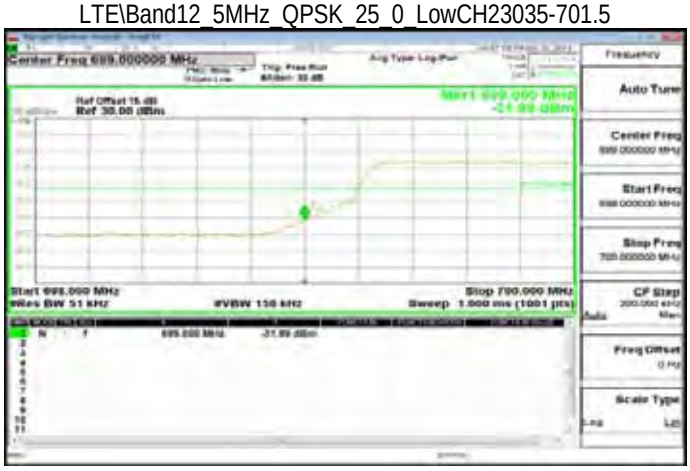
LTE\Band12_5MHz_QPSK_1_24_HighCH23155-713.5



LTE\Band12_10MHz_QPSK_1_0_LowCH23060-704



LTE\Band12_5MHz_QPSK_25_0_LowCH23035-701.5

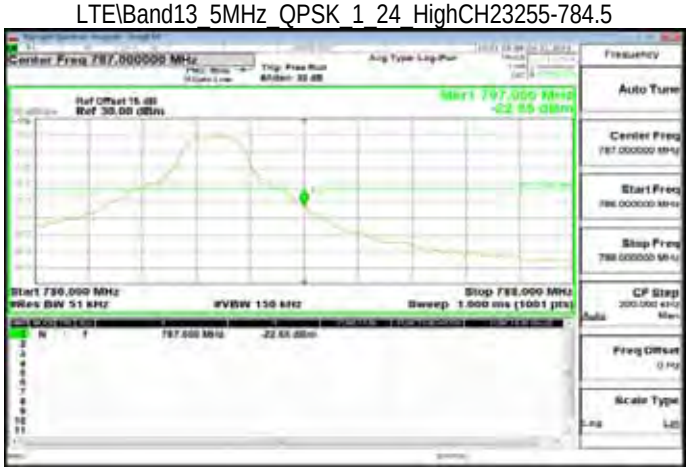


LTE\Band12_10MHz_QPSK_1_49_HighCH23130-711

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

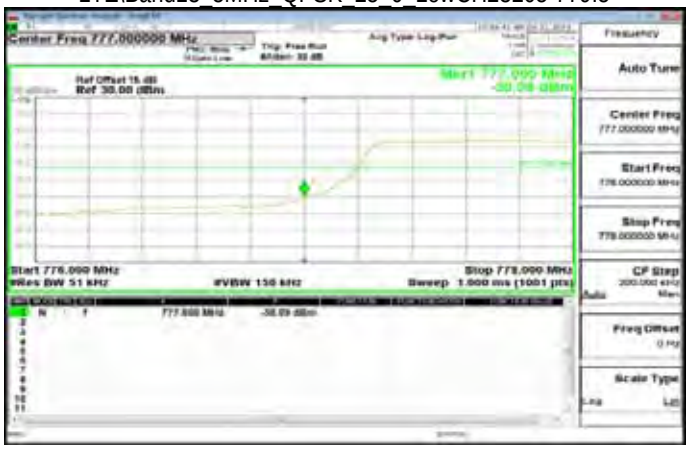
LTE\Band12_10MHz_QPSK_50_0_LowCH23060-704

LTE\Band13_5MHz_QPSK_1_24_HighCH23255-784.5

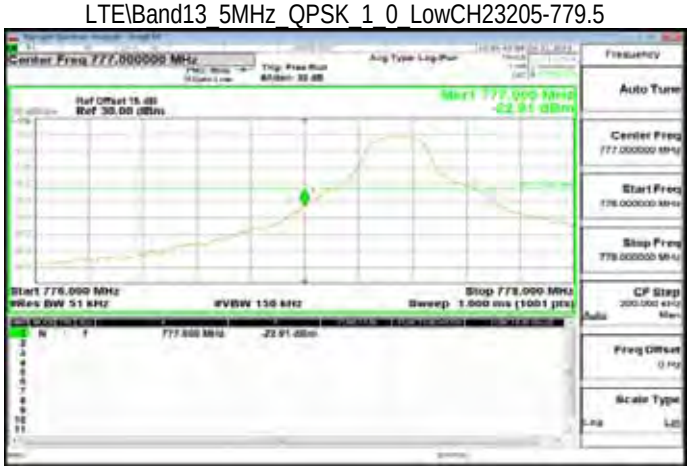


LTE\Band12_10MHz_QPSK_50_0_HighCH23130-711

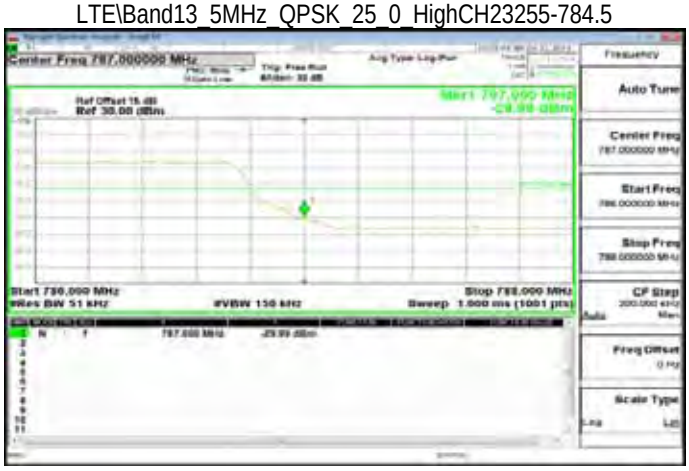
LTE\Band13_5MHz_QPSK_25_0_LowCH23205-779.5



LTE\Band13_5MHz_QPSK_1_0_LowCH23205-779.5

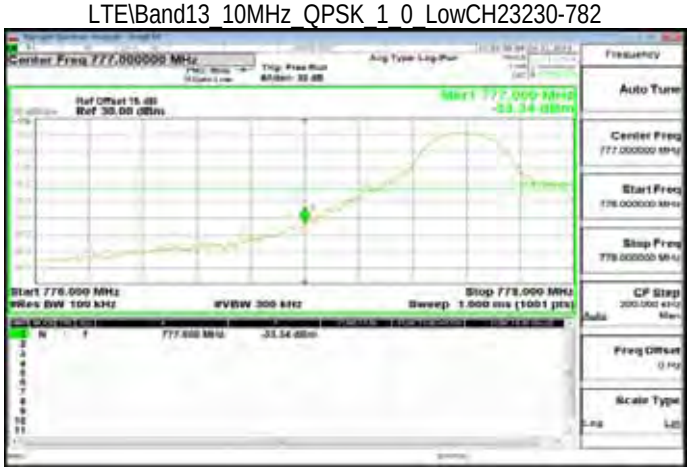


LTE\Band13_5MHz_QPSK_25_0_HighCH23255-784.5



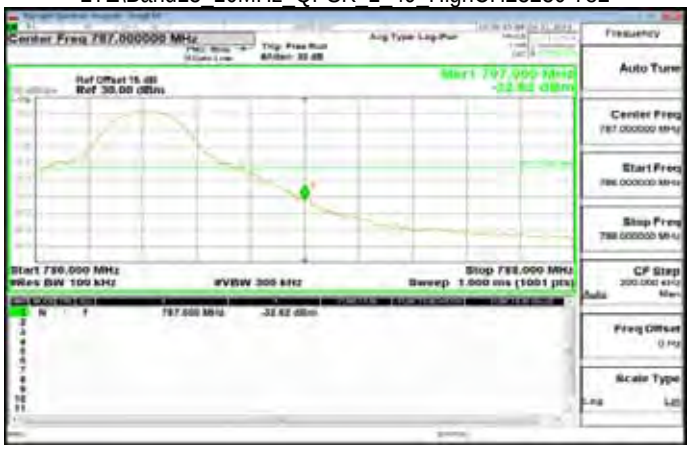
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

LTE\Band13_10MHz_QPSK_1_0_LowCH23230-782



LTE\Band13_10MHz_QPSK_50_0_HighCH23230-782

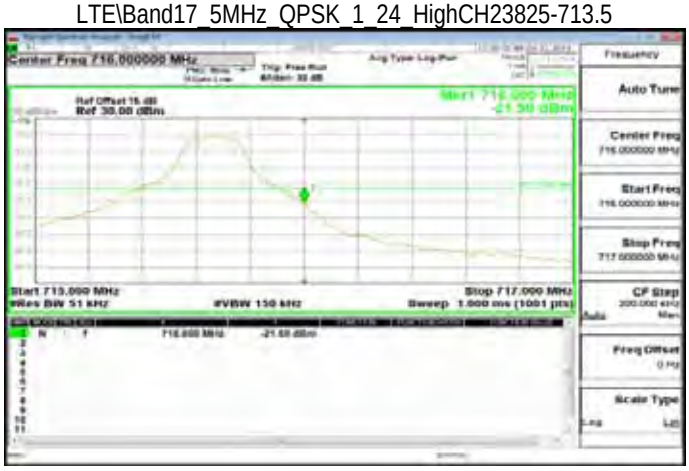
LTE\Band13_10MHz_QPSK_1_49_HighCH23230-782



LTE\Band17_5MHz_QPSK_1_0_LowCH23755-706.5

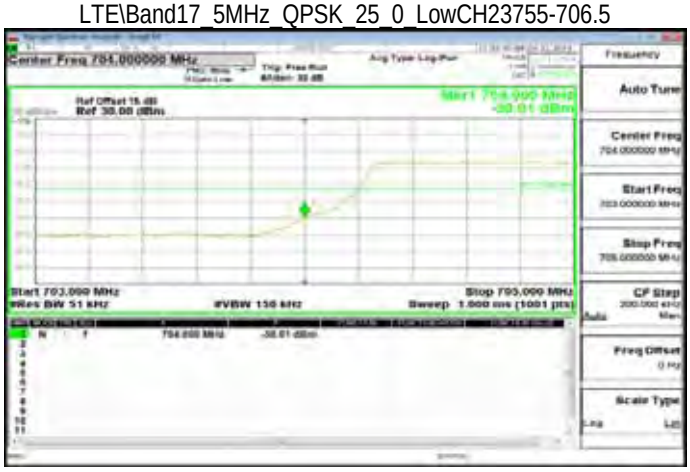
LTE\Band13_10MHz_QPSK_50_0_LowCH23230-782

LTE\Band17_5MHz_QPSK_1_24_HighCH23825-713.5



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

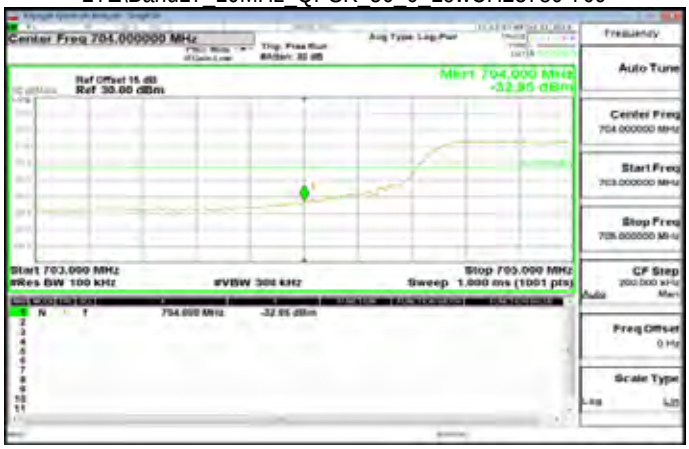
LTE\Band17_5MHz_QPSK_25_0_LowCH23755-706.5



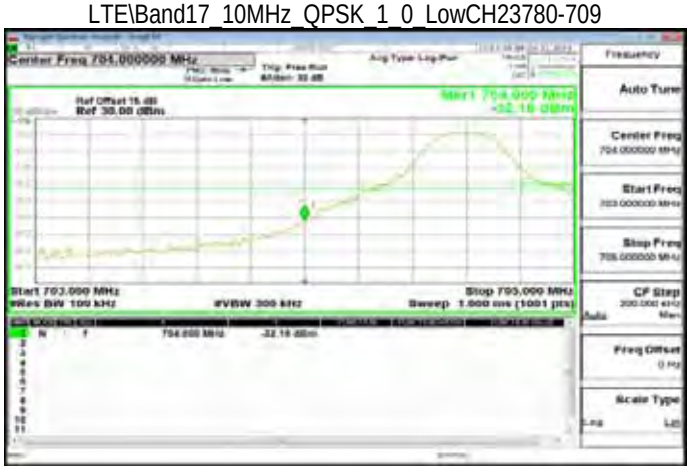
LTE\Band17_10MHz_QPSK_1_49_HighCH23800-711

LTE\Band17_5MHz_QPSK_25_0_HighCH23825-713.5

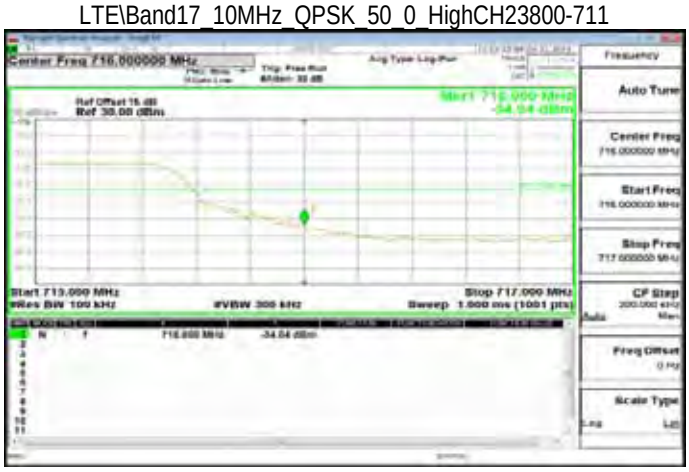
LTE\Band17_10MHz_QPSK_50_0_LowCH23780-709



LTE\Band17_10MHz_QPSK_1_0_LowCH23780-709

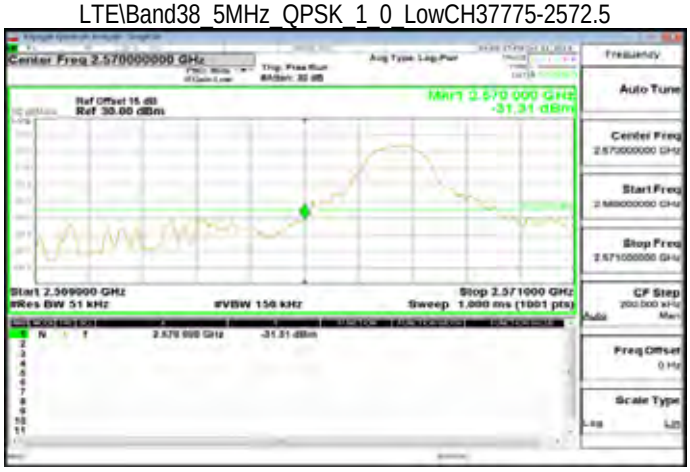


LTE\Band17_10MHz_QPSK_50_0_HighCH23800-711



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

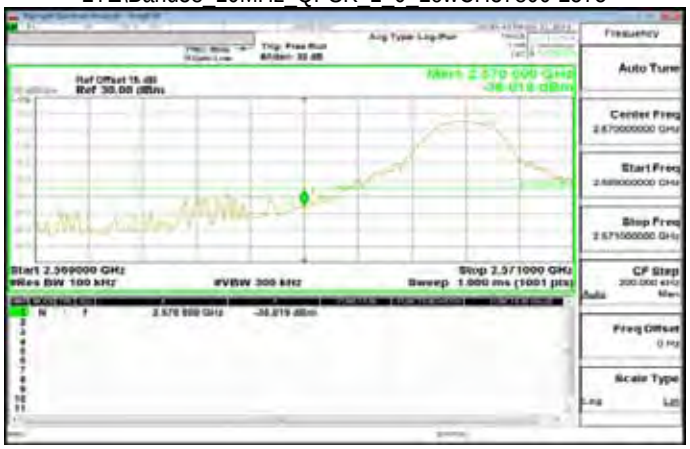
LTE\Band38_5MHz_QPSK_1_0_LowCH37775-2572.5



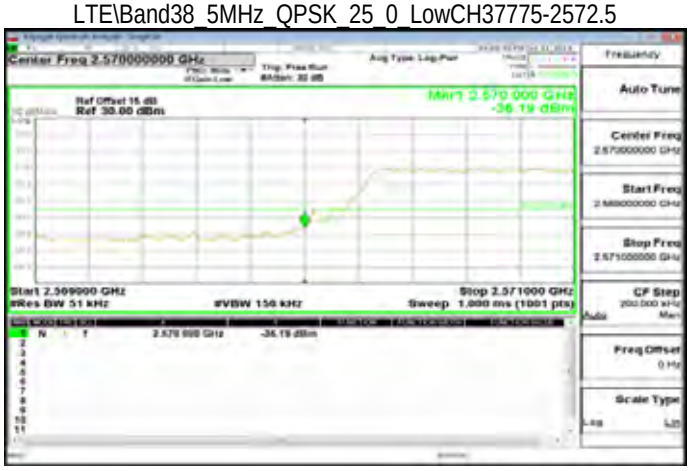
LTE\Band38_5MHz_QPSK_25_0_HighCH38225-2617.5

LTE\Band38_5MHz_QPSK_1_24_HighCH38225-2617.5

LTE\Band38_10MHz_QPSK_1_0_LowCH37800-2575



LTE\Band38_5MHz_QPSK_25_0_LowCH37775-2572.5

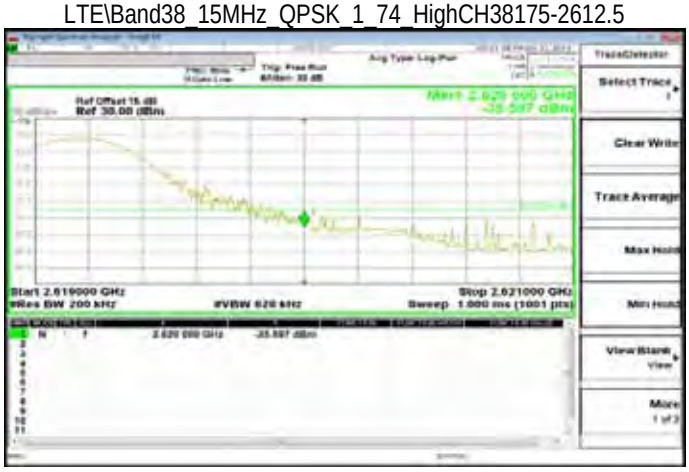


LTE\Band38_10MHz_QPSK_1_49_HighCH38200-2615

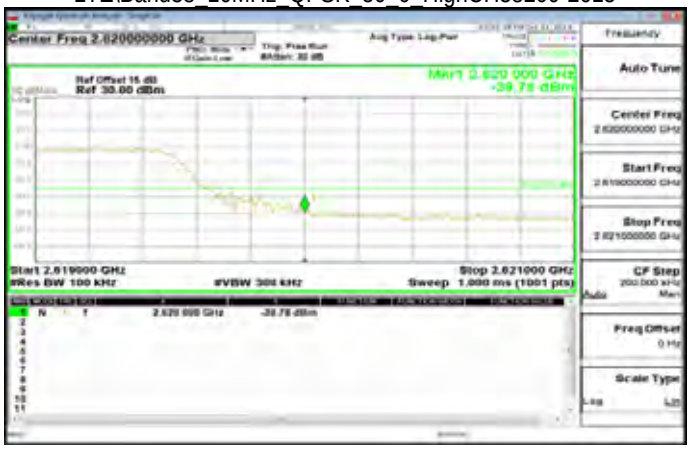
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

LTE\Band38_10MHz_QPSK_50_0_LowCH37800-2575

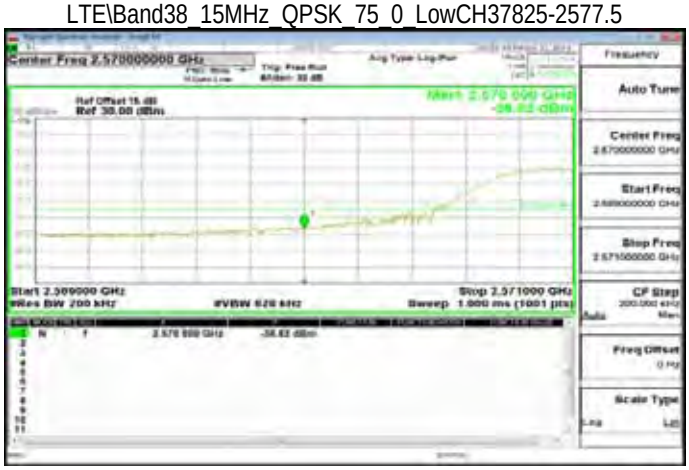
LTE\Band38_15MHz_QPSK_1_74_HighCH38175-2612.5



LTE\Band38_10MHz_QPSK_50_0_HighCH38200-2615

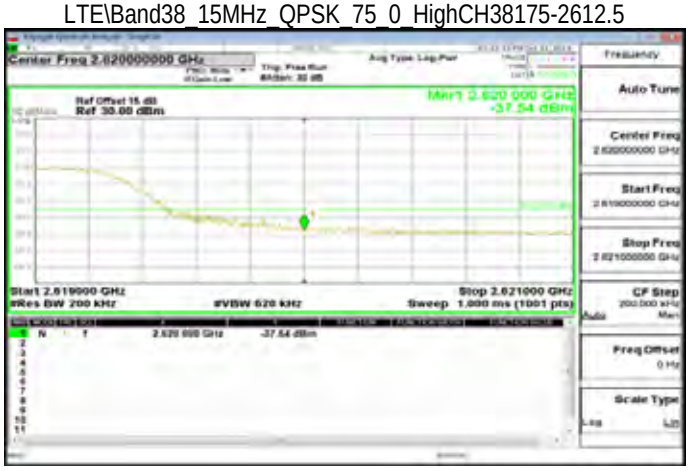


LTE\Band38_15MHz_QPSK_75_0_LowCH37825-2577.5



LTE\Band38_15MHz_QPSK_1_0_LowCH37825-2577.5

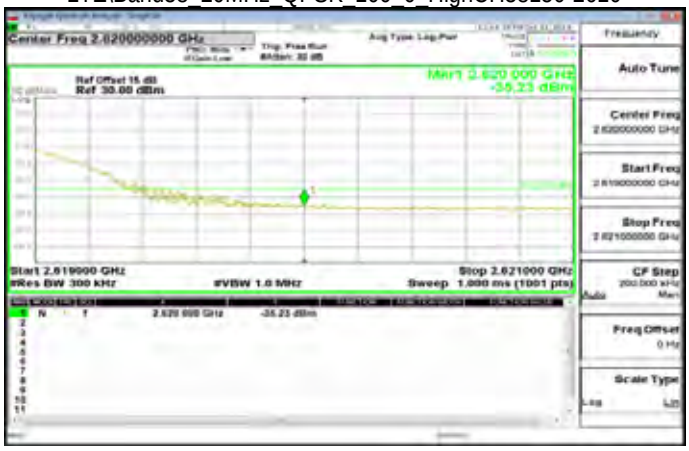
LTE\Band38_15MHz_QPSK_75_0_HighCH38175-2612.5



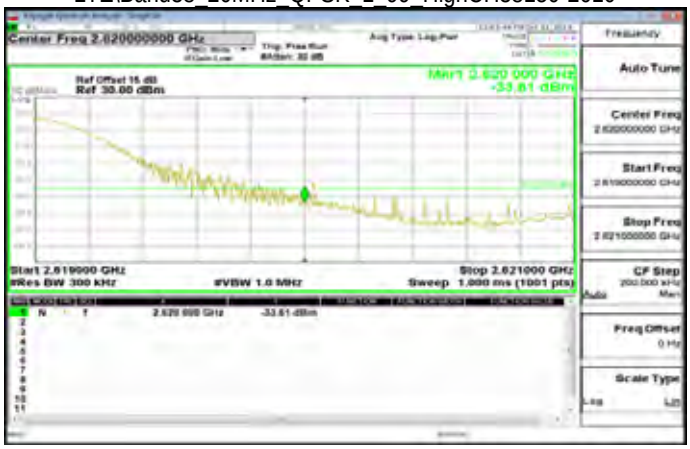
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

LTE\Band38_20MHz_QPSK_1_0_LowCH37850-2580

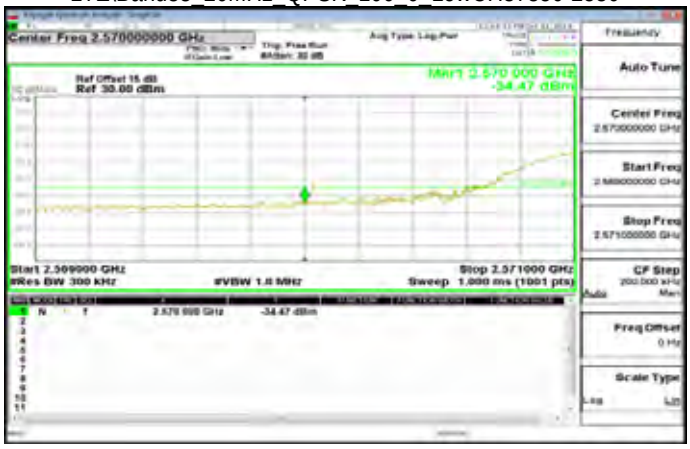
LTE\Band38_20MHz_QPSK_100_0_HighCH38150-2610



LTE\Band38_20MHz_QPSK_1_99_HighCH38150-2610



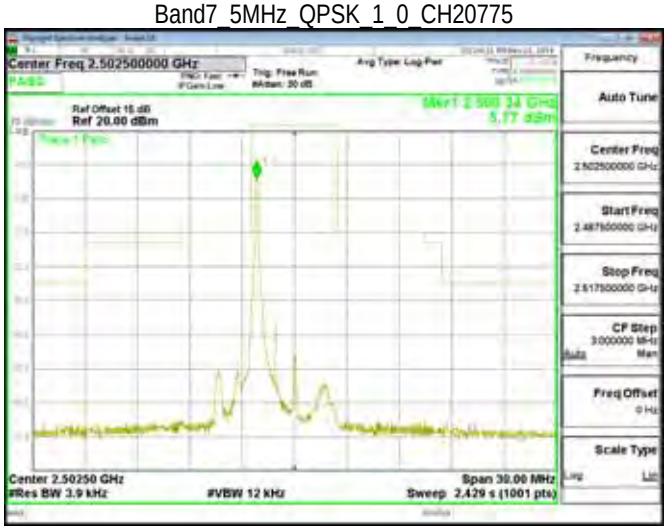
LTE\Band38_20MHz_QPSK_100_0_LowCH37850-2580



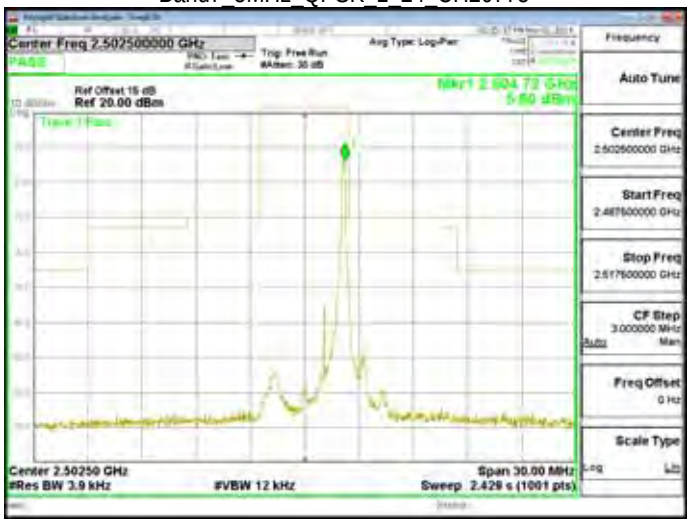
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

Emission Mask

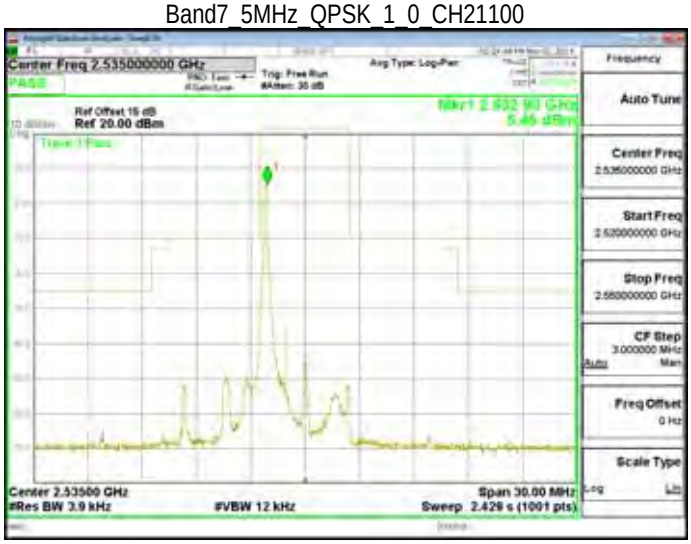
Band7_5MHz_QPSK_1_0_CH20775



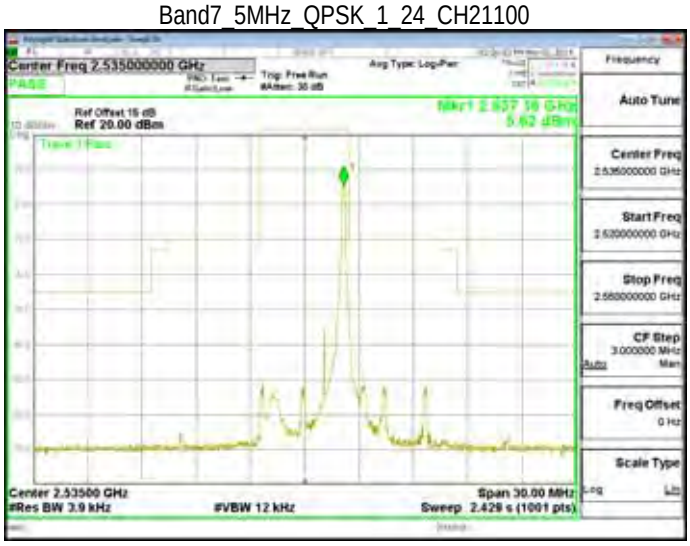
Band7_5MHz_QPSK_1_24_CH20775



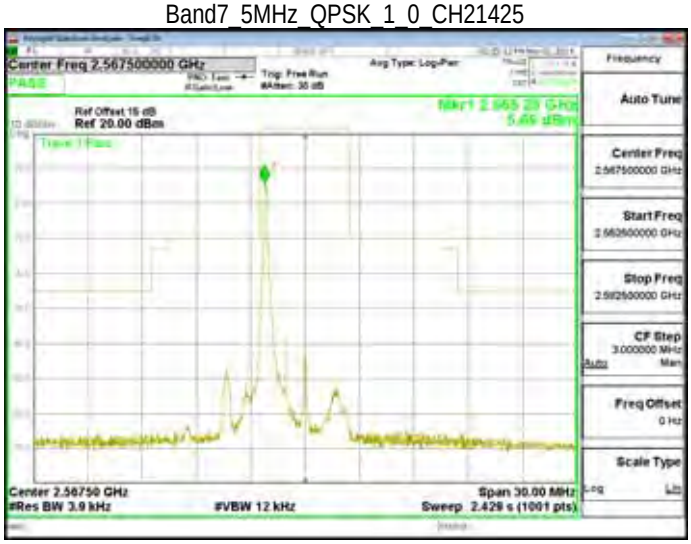
Band7_5MHz_QPSK_1_0_CH21100



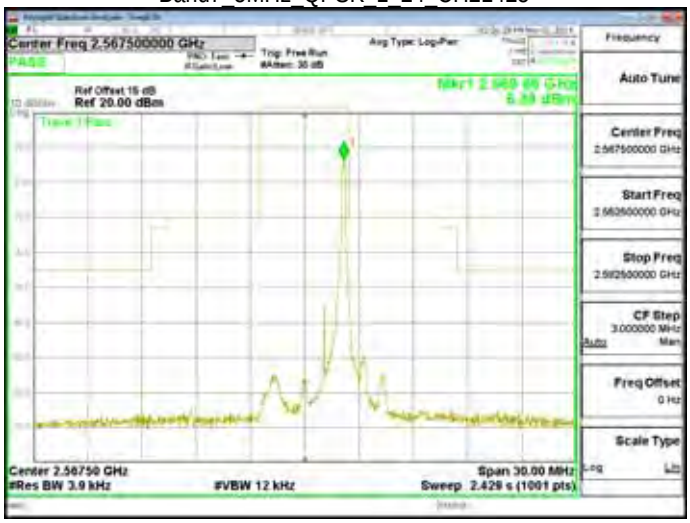
Band7_5MHz_QPSK_1_24_CH21100



Band7_5MHz_QPSK_1_0_CH21425

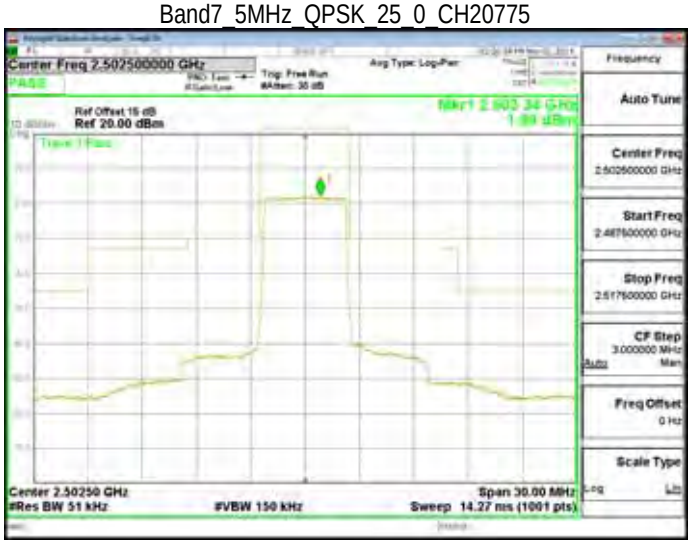


Band7_5MHz_QPSK_1_24_CH21425

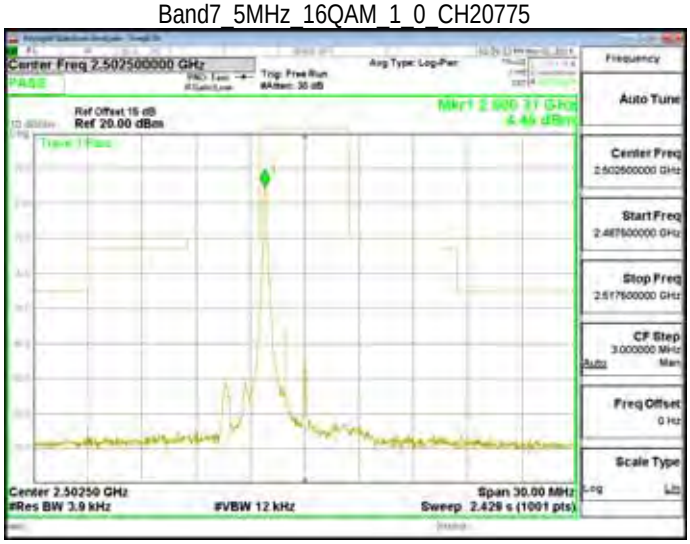


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

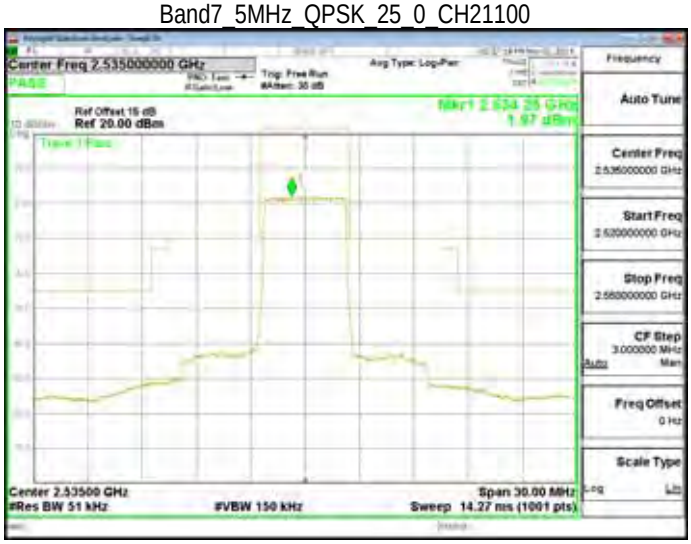
Band7_5MHz_QPSK_25_0_CH20775



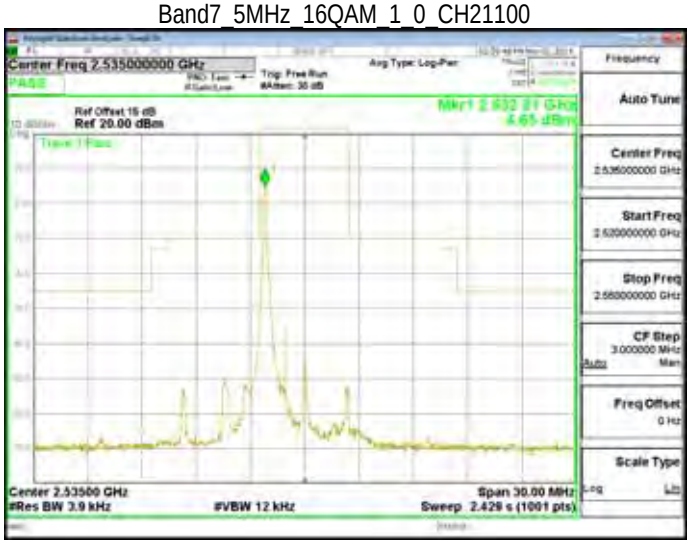
Band7_5MHz_16QAM_1_0_CH20775



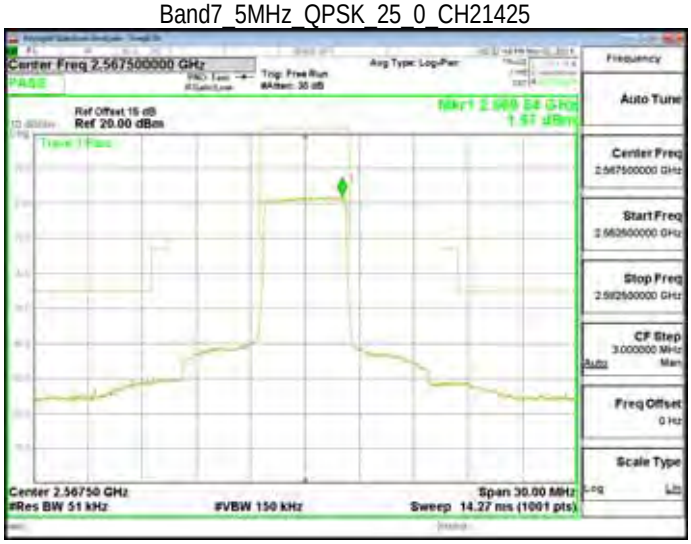
Band7_5MHz_QPSK_25_0_CH21100



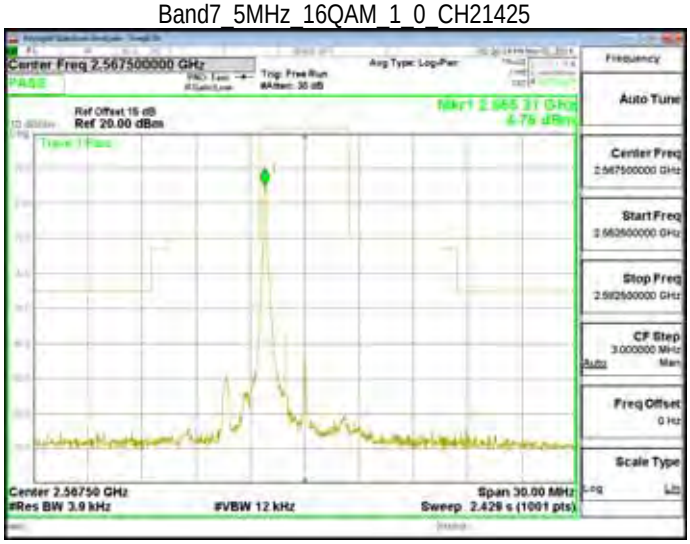
Band7_5MHz_16QAM_1_0_CH21100



Band7_5MHz_QPSK_25_0_CH21425

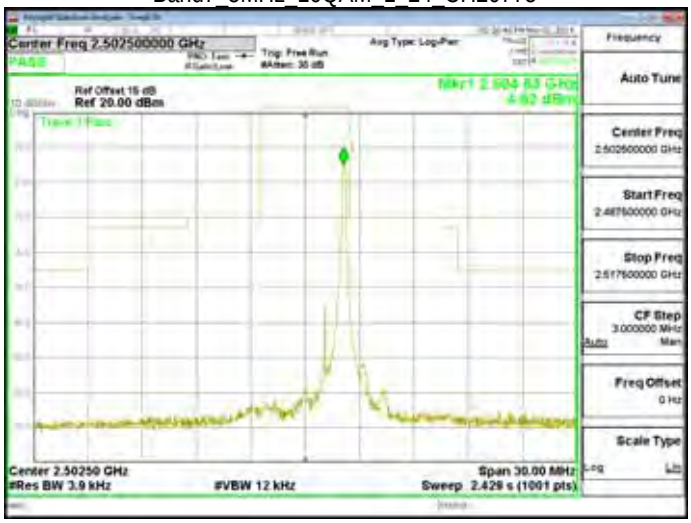


Band7_5MHz_16QAM_1_0_CH21425

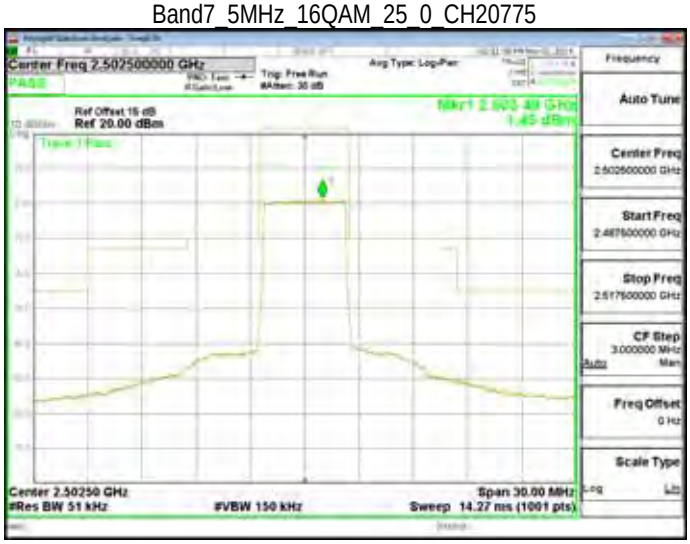


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

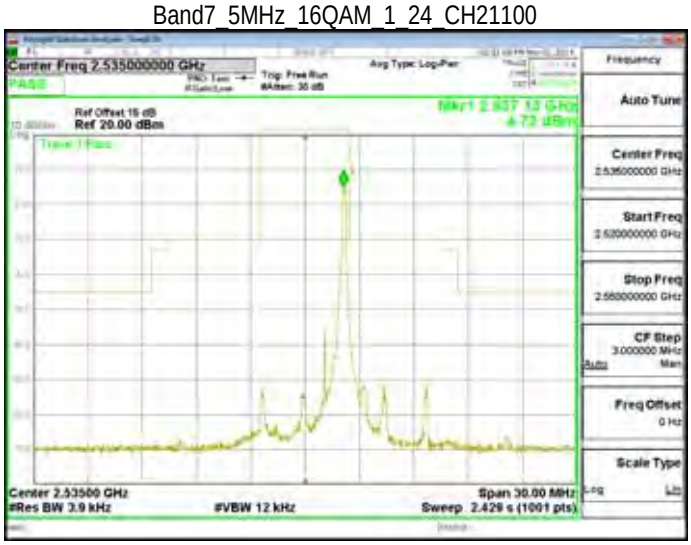
Band7_5MHz_16QAM_1_24_CH20775



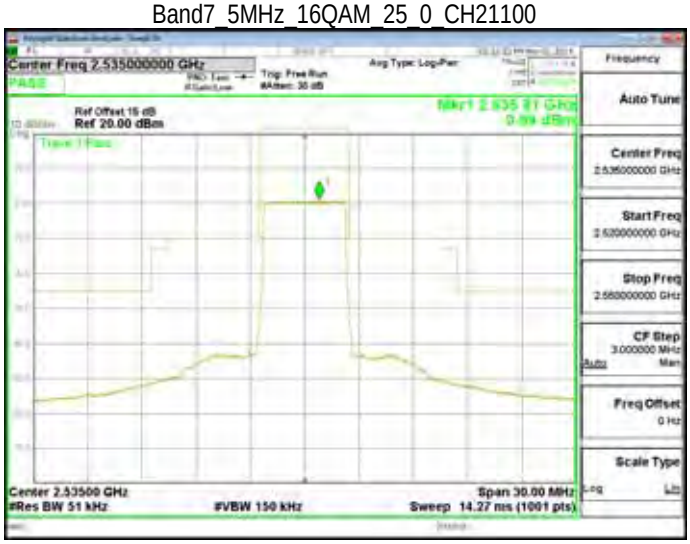
Band7_5MHz_16QAM_25_0_CH20775



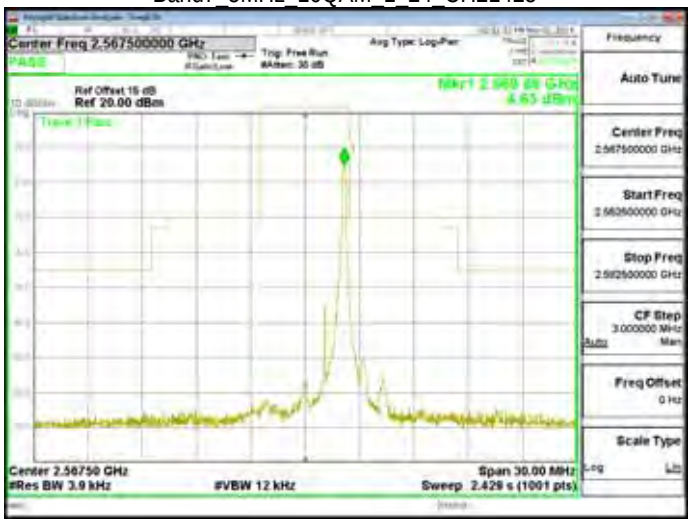
Band7_5MHz_16QAM_1_24_CH21100



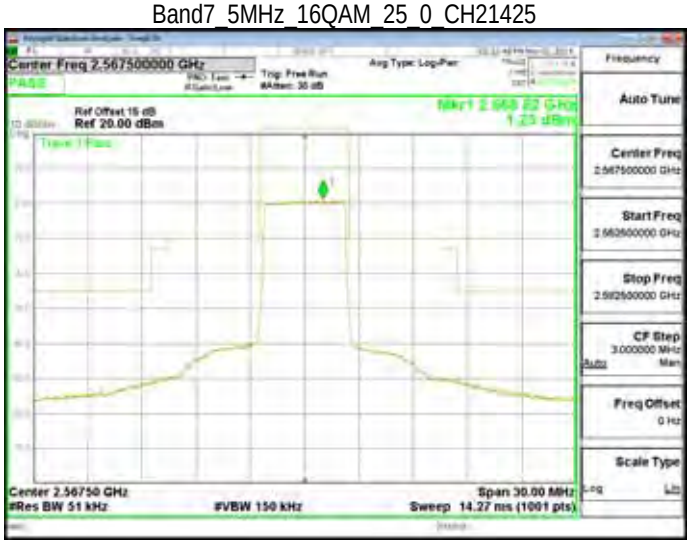
Band7_5MHz_16QAM_25_0_CH21100



Band7_5MHz_16QAM_1_24_CH21425

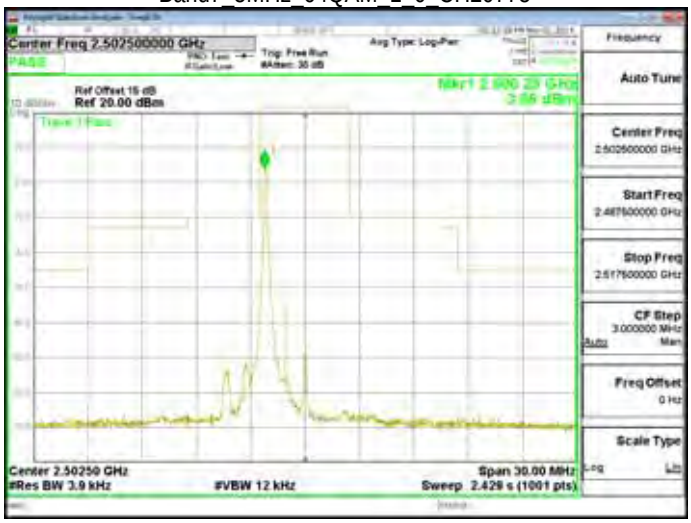


Band7_5MHz_16QAM_25_0_CH21425

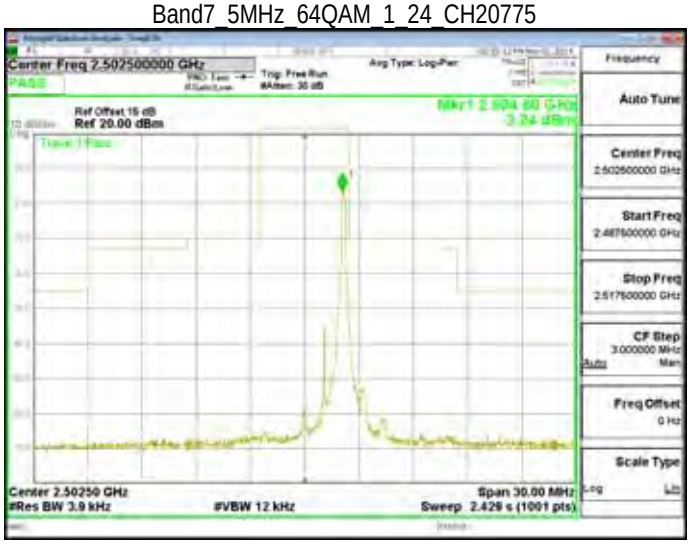


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

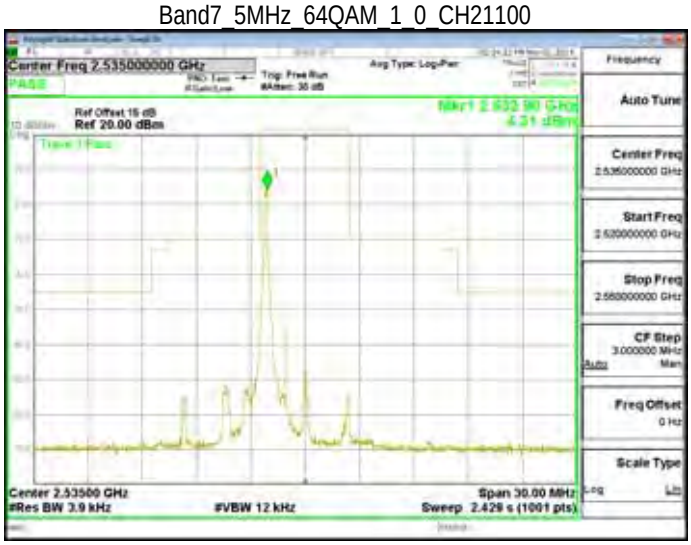
Band7_5MHz_64QAM_1_0_CH20775



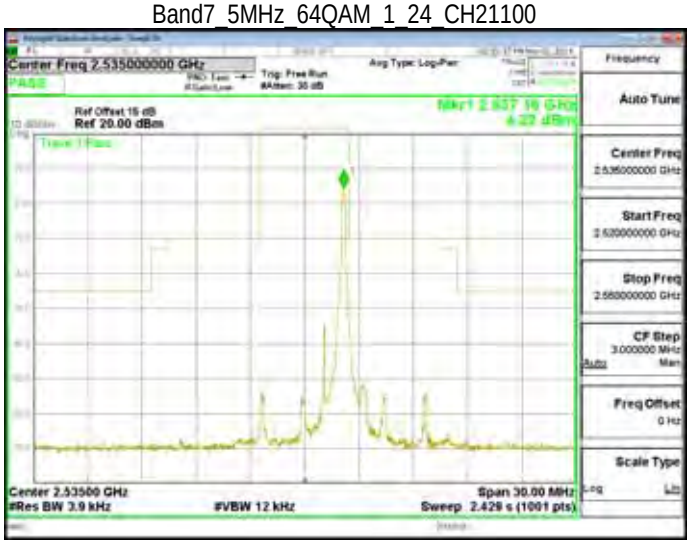
Band7_5MHz_64QAM_1_24_CH20775



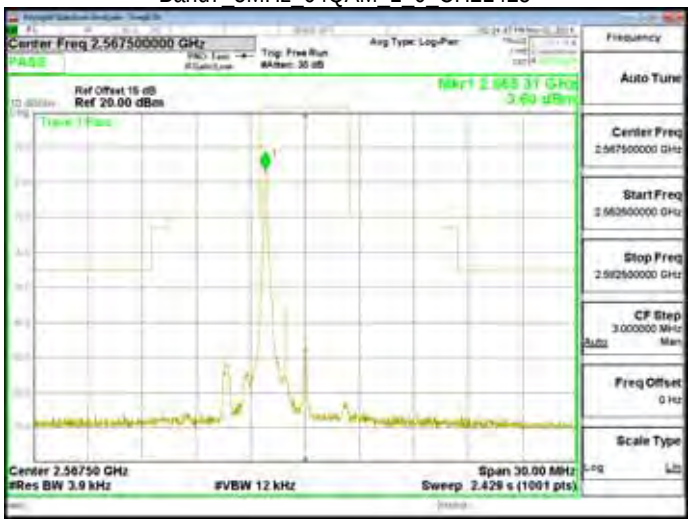
Band7_5MHz_64QAM_1_0_CH21100



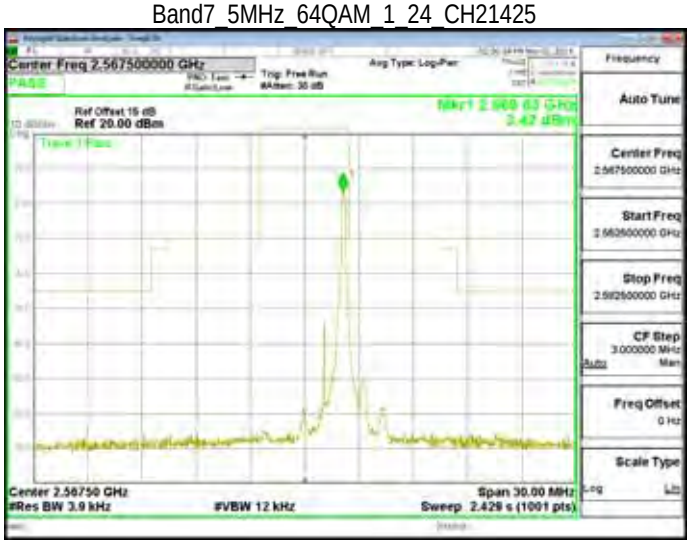
Band7_5MHz_64QAM_1_24_CH21100



Band7_5MHz_64QAM_1_0_CH21425

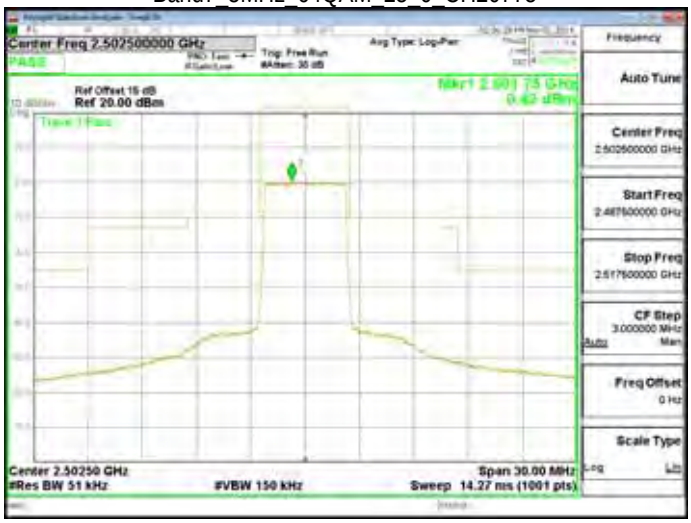


Band7_5MHz_64QAM_1_24_CH21425

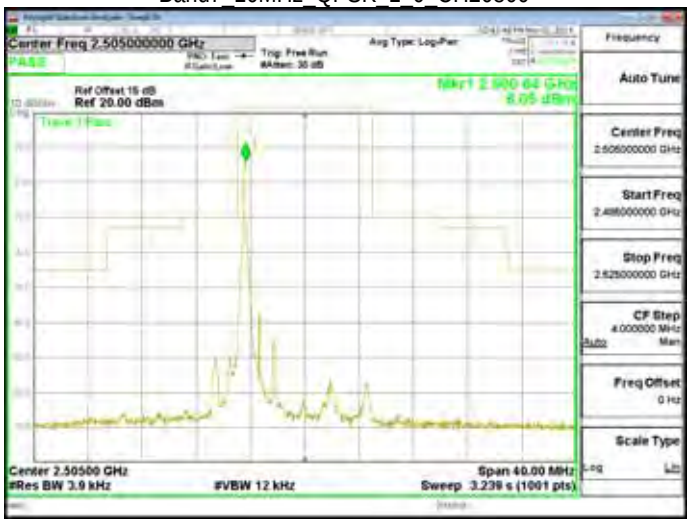


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

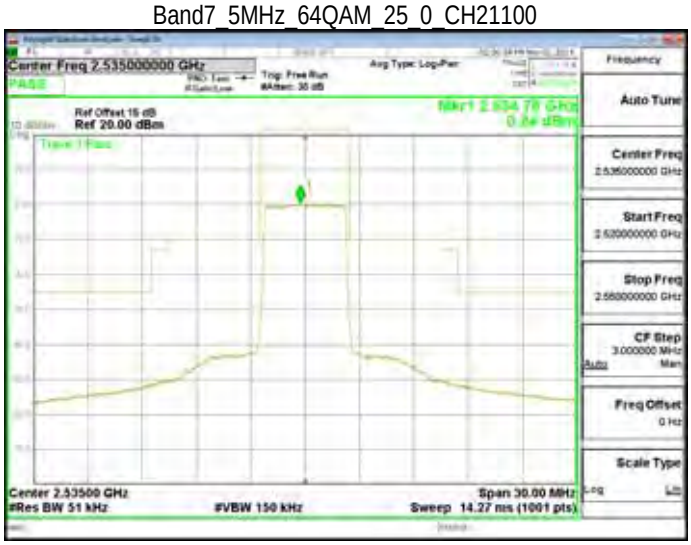
Band7_5MHz_64QAM_25_0_CH20775



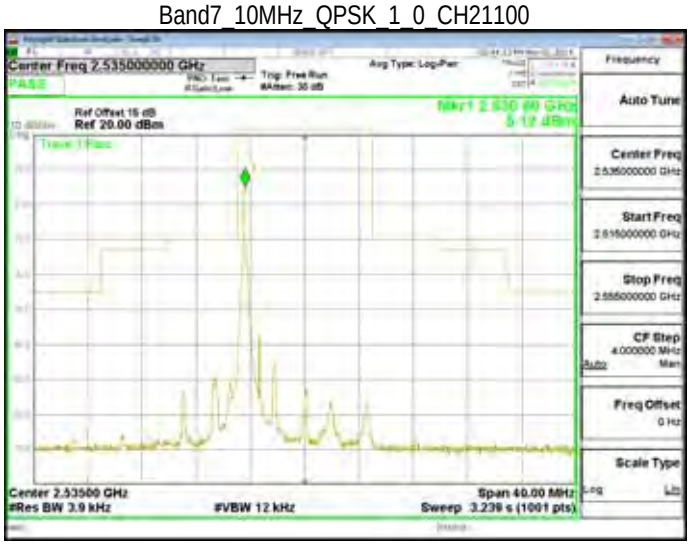
Band7_10MHz_QPSK_1_0_CH20800



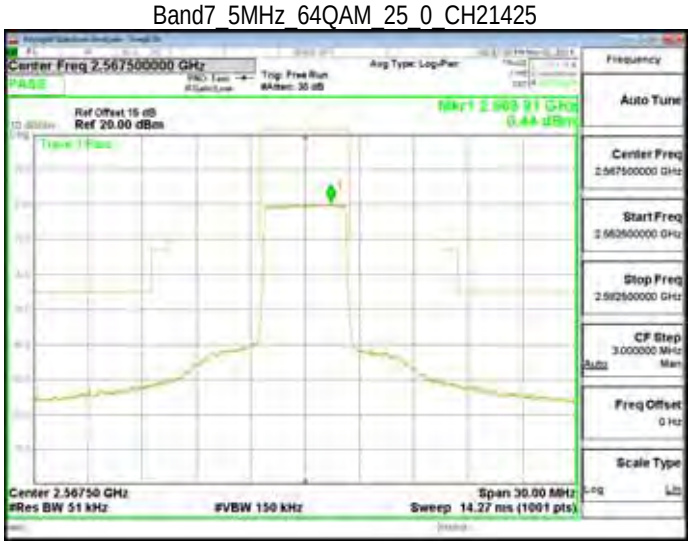
Band7_5MHz_64QAM_25_0_CH21100



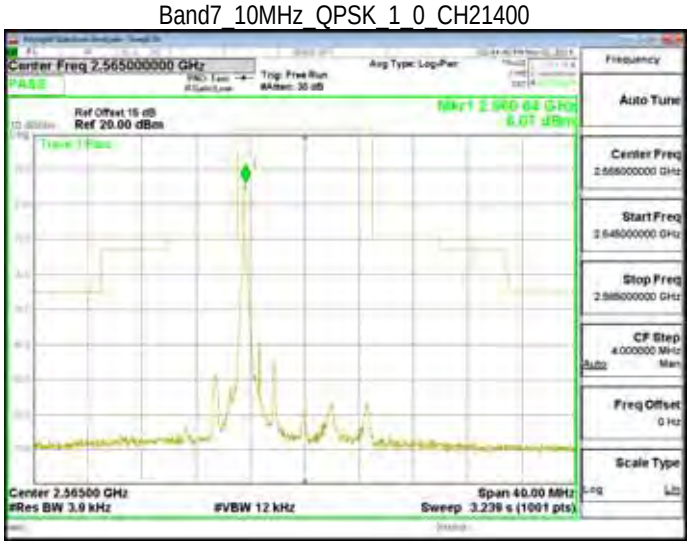
Band7_10MHz_QPSK_1_0_CH21100



Band7_5MHz_64QAM_25_0_CH21425

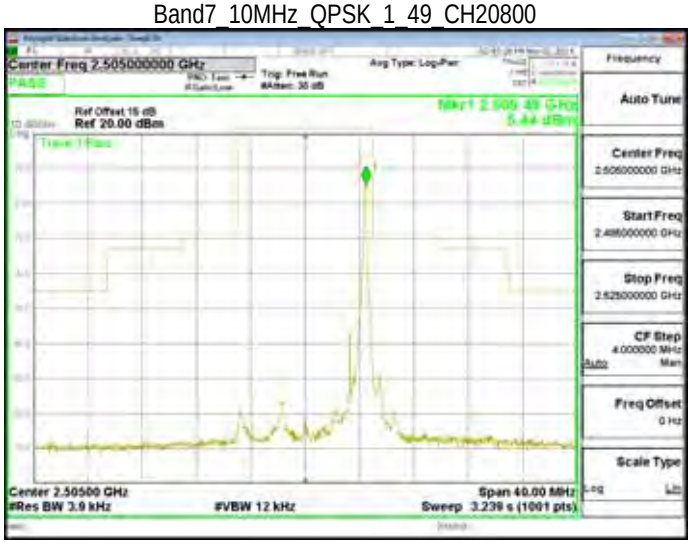


Band7_10MHz_QPSK_1_0_CH21400



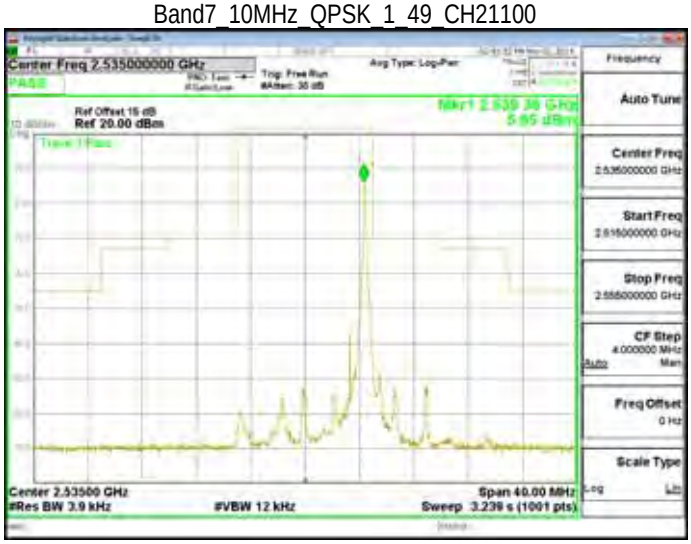
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

Band7_10MHz_QPSK_1_49_CH20800

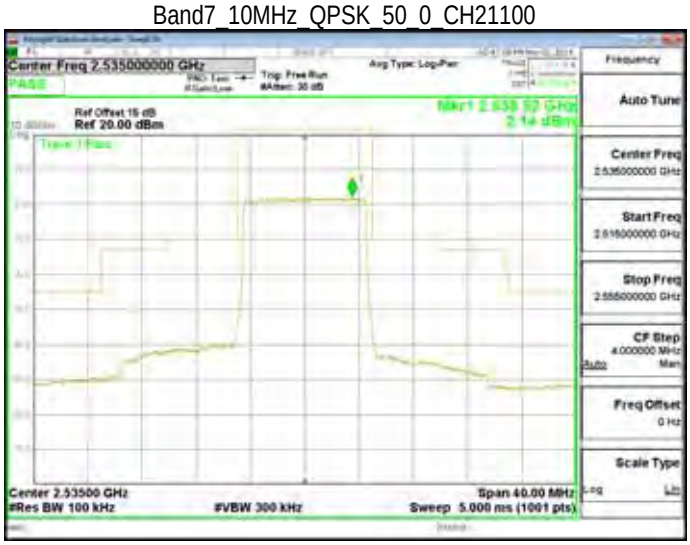


Band7_10MHz_QPSK_50_0_CH20800

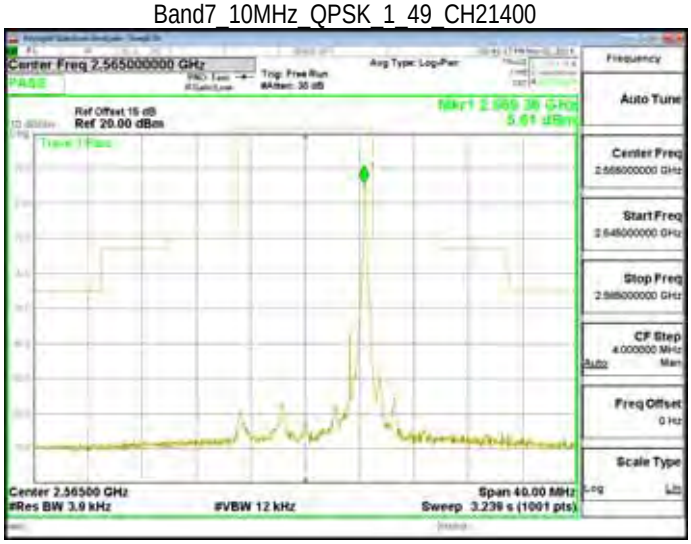
Band7_10MHz_QPSK_1_49_CH21100



Band7_10MHz_QPSK_50_0_CH21100



Band7_10MHz_QPSK_1_49_CH21400



Band7_10MHz_QPSK_50_0_CH21400

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