

Page: 1 of 297

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT





Applicant: Axon Enterprise, Inc.

17800 N 85th St, Scottsdale, AZ 85255, United States

Manufacturer: Axon Enterprise, Inc.

17800 N 85th St, Scottsdale, AZ 85255, United States

Product Name: Fleet Hub

Brand Name: Axon

Model No.: AX1033

Model Difference: N/A

Report Number: ER/2021/20091 **FCC ID** X4GS01405

IC: 8803A-S01405

FCC Rule Part: §15.247, Cat: DTS

IC RSS: RSS-247 issue 2 Feb 2017

May 3, 2021 **Issue Date:**

Date of Test: February 8, 2021 - April 6, 2021

Date of EUT Received: February 8, 2021

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 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:

Blue Yang / Asst. Manager

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

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



Page: 2 of 297

Revision History							
Report Number	Revision	Description	Issue Date	Revised By			
ER/2021/20091	Rev.00	Original.	May 3, 2021	Ariel Chang			

Note:

1 Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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

所分分元の子 九根官部未贈到馬之保市員 「何时是保市匿味留り人・本官古来でよる事間間でリイヤリ市の技術を This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page: 3 of 297

Table of Contents

1	GENERAL INFORMATION	4
2	SYSTEM TEST CONFIGURATION	8
3	SUMMARY OF TEST RESULTS	11
4	DESCRIPTION OF TEST MODES	12
5	MEASUREMENT UNCERTAINTY	15
6	CONDUCTED EMISSION TEST	16
7	DUTY CYCLE OF TEST SIGNAL	18
8	PEAK OUTPUT POWER MEASUREMENT	22
9	EMISSION BANDWIDTH MEASUREMENT	47
10	CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT	80
11	RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT	99
12	POWER SPECTRAL DENSITY	276
13	ANTENNA REQUIREMENT	297

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

Np.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 www.sgs.com.tw

台灣檢驗科技股份有限公司 t (886-2) 2299-3279 f (886-2) 2298-0488



Page: 4 of 297

GENERAL INFORMATION

1.1 Product description

Product Name	Fleet Hub
Brand Name	Axon
Model No.	AX1033
Model Difference	N/A
Hardware Version	X3
Firmware Version	IG2.DVT.1.2
EUT Series No.	X70322224
Power Supply	12Vdc

Wi-Fi	Frequency	Channels	Rated Power (dBm)	Modulation			
802.11	Range	Orianneis	rtated i ower (dbiii)	Technology			
b			29.30	DSSS			
g		11	29.21	OFDM			
n_HT20	2412-2462	11	29.46	OFDM			
ax_HE20			29.60	OFDMA			
n_HT40		7	26.61	OFDM			
ax_HE40	2422-2452	52 / 29.41					
·		CCK, DQ	PSK, DBPSK for DSSS	•			
Modulo	Madulatian tura		64QAM, 16QAM, QPSK, BPSK for OFDM				
Modulation type		256QAM for OFDM in 802.11ac only					
		1024QAM for OFDMA in 802.11ax only					
		802.11 b:	: 1/2/5.5/11 Mbps				
			802.11 g: 6/9/12/18/24/36/48/54 Mbps				
Transistion Rate		802.11 n_20MHz: 6.5 - 144.4Mbps					
		802.11 n_40MHz: 13.5 – 300.0Mbps					
			802.11 ax_HE20MHz: 7.3 –286.8 Mbps				
		802.11 ax	802.11 ax_HE40MHz: 14.6 -573.6 Mbps				

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



Page: 5 of 297

1.2 Antenna Designation

Beamforr (dBi)	Туре
PIFA Airgain AP-AXONF3-MMF-Q-MS-BL-15 Main 2.3 5.30	PIFA
Dipole Airgain AP-AXONF3-GL-WWG-BL-3M Main 2412-2462 N/A N/A	Dinolo
Dipole Aligain AF-AXONF3-GL-VVVVG-BL-Sivi Iviain N/A	Dibole

Note: The N/A represents that the Antenna does not available in the specified frequency.

Np.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號



Page: 6 of 297

1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas Guidance v05r02 (Both FCC & ISED)

RSS-247 issue 2 Feb. 2017

RSS-Gen. issue 5, Amendment 1, March 2019

ANSI C63.10:2013

1.4 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier
		SAC 1		
		SAC 3		
		Conduction 1		
	No.134, Wu Kung Road, New Taipei	Conducted 1		
	Industrial Park, Wuku District, New	Conducted 2	TW0027	TW3702
	Taipei City, Taiwan.	Conducted 3		
		Conducted 4		
SGS Taiwan Ltd.		Conducted 5		
		Conducted 6		
Central RF Lab.		Conduction A	_	
(TAF code 3702)		SAC C	_	
		SAC D		
		SAC G	_	
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conducted A		
		Conducted B	TW0028	
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

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

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



Page: 7 of 297

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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

所分分元の子 九根官部未贈到馬之保市員 「何时是保市匿味留り人・本官古来でよる事間間でリイヤリ市の技術を This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page: 8 of 297

2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.3 Radiated Emissions

The EUT is a placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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

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

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



Page: 9 of 297

2.4 Measurement Results Explanation Example

2.4.1 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.

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



Page: 10 of 297

2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission configuration



Fig. 2-2 Conducted (Antenna Port) Configuration Emission

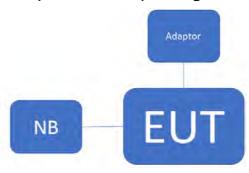


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	Notebook	Lenovo	L430	R9-XFG0X	N/A	N/A
3.	Adapter	N/A	N/A	N/A	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 http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnielectronic format occurrients, subject to Terris and Conditions for Electronic Documents at <a href="https://www.sgs.com.tw/" lerms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page: 11 of 297

3 SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§15.207(a)	RSS-Gen §8.8	AC Power Line Conducted Emission	Non applicable
§15.247(b) (3)	RSS-247 §5.4 d	Peak Output Power	Compliant
§15.247(a)(2)	RSS-247 §5.2 a RSS-Gen §6.7	Emission Bandwidth	Compliant
§15.205 §15.209 §15.247(d)	RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10 RSS-Gen §6.13	Radiated & Conducted Band Edge and Spurious Emission	Compliant
§15.247(e)	RSS-247 §5.2 b	Power Spectral Density	Compliant
§15.203 §15.247(b)	N/A	Antenna Requirement	Compliant

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



Page: 12 of 297

4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

11 channels are provided for 802.11b/g/n/ax 20M.

eu 101 602.11b/g/11/ax			
FREQUENCY			
(MHz)			
2412			
2417			
2422			
2427			
2432			
2437			
2442			
2447			
2452			
2457			
2462			

9 channels are provided for 802.11n/ax 40M

CHANNEL	FREQUENCY (MHz)	
	` ′	
3	2422	
4	2427	
5	2432	
6	2437	
7	2442	
8	2447	
9	2452	

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

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



Page: 13 of 297

4.2 The Worst Test Modes and Channel Details

- 1. The EUT has been tested under operating condition.
- 2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
- 3. Investigation has been done on all the possible configurations for searching the worst case.

The gevin UE is pre-scanned among below modes.

Modulation	Transmission Chain		Single Transmission Spatial	Multiple Transmission Spatial		
⊠ 802.11 b	⊠ Ch0	⊠ Ch1	□ Ch2	☐ Ch3	□ 1TX	⊠ 2TX
⊠ 802.11 g	⊠ Ch0	⊠ Ch1	□ Ch2	□ Ch3	□ 1TX	⊠ 2TX
⊠ 802.11 n	⊠ Ch0	⊠ Ch1	□ Ch2	□ Ch3	□ SISO	⊠ MIMO
⊠ 802.11 ax	⊠ Ch0	⊠ Ch1	☐ Ch2	□ Ch3	□ SISO	⊠ MIMO

4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

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

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



Page: 14 of 297

4.3 Radiated Emission Test:

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT			
RADIATED EMISSION TEST (BELOW 1 GHz)								
802.11g	6	6	OFDM	6	Ch0/2TX			
802.11ax40M	6	6	OFDMA	6	Ch0/2TX			
RADIATED EMISSION TEST (ABOVE 1 GHz)								
802.11b	1 to 11	1, 6, 11	DSSS	1	Ch0/2TX			
802.11g	1 to 11	1, 6, 11	OFDM	6	Ch0/2TX			
802.11n20M	1 to 11	1, 6, 11	OFDM	MCS 8	MIMO			
802.11n40M	3 to 9	3, 6, 9	OFDM	MCS 8	MIMO			
802.11ax 20M	1 to 11	1, 6, 11	OFDMA	MCS 0	MIMO			
802.11ax 40M	3 to 9	3, 6, 9	OFDMA	MCS 0	MIMO			

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

4.4 Antenna Port Conducted Mesurement:

CONDUCTED TEST									
MODE AVAILABLE TESTED MODULATION RATE (Mbps) PORT									
802.11b	1 to 11	1, 6, 11	DSSS	1	Ch0/2TX				
802.11g	1 to 11	1, 6, 11	OFDM	6	Ch0/2TX				
802.11n 20M	1 to 11	1, 6, 11	OFDM	MCS 8	MIMO				
802.11n 40M	3 to 9	3, 6, 9	OFDM	MCS 8	MIMO				

CONDUCTED TEST								
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODU- LATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT		
802.11ax 20M	1 to 11	1, 6, 11	OFDMA	full 26/8 52/40 106/54	MCS 0	MIMO		
802.11ax 40M	3 to 9	3, 6, 9	A	full 242/61	MCS 0	MIMO		

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

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



Page: 15 of 297

MEASUREMENT UNCERTAINTY

Test Items	Uncertainty		
AC Power Line Conducted Emission	+/- 2.34 dB		
Peak Output Power	+/- 1 dB		
6dB Bandwidth	+/- 1.54 Hz		
100 KHz Bandwidth Of Frequency Band Edges	+/- 1.69 dB		
Peak Power Density	+/- 1.54 dB		
Temperature	+/- 0.4 °C		
Humidity	+/- 3.5 %		
DC / AC Power Source	DC= +/- 1%, AC= +/- 1%		

Radiated Spurious Emission Measurement Uncertainty						
	+/-	2.64	dB	9kHz~30MHz: +-2.3dB		
Polarization: Vertical	+/-	4.93	dB	30MHz - 1000MHz: +/- 3.37dB		
Polarization, vertical	+/-	4.81	dB	1GHz - 18GHz: +/- 4.04dB		
	+/-	4.52	dB	18GHz - 40GHz: +/- 4.04dB		
	+/-	2.64	dB	9kHz~30MHz: +-2.3dB		
Polarization: Horizontal	+/-	4.45	dB	30MHz - 1000MHz: +/- 4.22dB		
Polarization. Horizontal	+/-	4.81	dB	1GHz - 18GHz: +/- 4.08dB		
	+/-	4.52	dB	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 http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnielectronic format documents, subject to Territs and Conditions for Electronic Documents at https://www.sgs.com.tw/ lerris-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Np.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司 t (886-2) 2299-3279 f (886-2) 2298-0488 www.sgs.com.tw



Page: 16 of 297

CONDUCTED EMISSION TEST

6.1 Standard Applicable

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

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

Note

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

6.2 Measurement Equipment Used

Conducted Emission Test Site: Conducted 2									
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.				
Power Meter	Anritsu	ML2496A	1804001	03/02/2021	03/01/2022				
Power Sensor	Anritsu	MA2411B	1726104	03/02/2021	03/01/2022				
Power Sensor	Anritsu	MA2411B	1726107	03/02/2021	03/01/2022				
Attenuator	Mini-Circuit	BW- S10W2+	2	12/16/2020	12/15/2021				
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60240503	12/11/2020	12/10/2021				
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021				

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

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

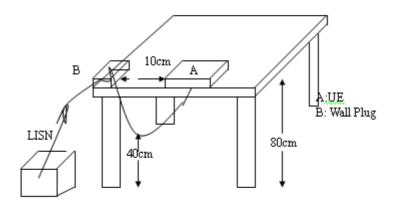


Page: 17 of 297

6.3 EUT Setup

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- 3. The LISN was connected with 120Vac/60Hz power source.

6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all phases of power being supplied by given UE are completed

6.6 Measurement Result

N/A; Powered from AA battery.

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

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions. Atte Attention is drawn to the limitation of liability, indemnireceived to the limit a documents, subject to Pernis and Conduction is Decument is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Np.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司 t (886-2) 2299-3279 f (886-2) 2298-0488 www.sgs.com.tw



Page: 18 of 297

7 DUTY CYCLE OF TEST SIGNAL

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

7.1 Measurement Procedure:

- 1. Set span = Zero
- 2. RBW = 8MHz
- 3. VBW = 8MHz,
- 4. Detector = Peak



Page: 19 of 297

7.2 Duty Cycle:

CDD

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11b	75.00	1.25	1.54	2.00
802.11g	92.86	0.32	0.65	1.00
802.11n_20	95.79	0.19	0.19	1.00
802.11n_40	93.32	0.30	0.19	1.00
802.11ax_20	95.94	0.18	0.19	1.00
802.11ax_40	94.10	0.26	0.19	1.00

b = 75%, g = 92.86%, $n_ht_20 = 95.79\%$ $n_ht_40 = 93.32\%$

Duty Cycle Factor: $10 * \log(1/0.75) = 1.25$ Duty Cycle Factor: 10 * log(1/0.9286) = 0.32Duty Cycle Factor: $10 * \log(1/0.9579) = 0.19$ Duty Cycle Factor: $10 * \log(1/0.9332) = 0.3$

Beamforming

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11n_20	96.11	0.17	0.19	1.00
802.11n_40	95.47	0.20	0.19	1.00
802.11ax_20	93.02	0.31	0.19	1.00
802.11ax_40	95.82	0.19	0.19	1.00

b = %, g = %, $n_ht_20 = 96.11\%n_ht_40 = 95.47\%$

Duty Cycle Factor: $10 * \log(1/0.9611) = 0.17$ Duty Cycle Factor: $10 * \log(1/0.9547) = 0.2$

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

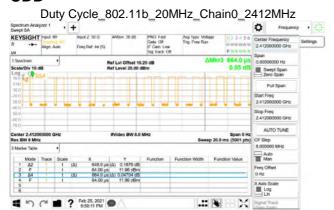
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions.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

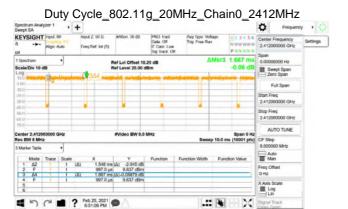


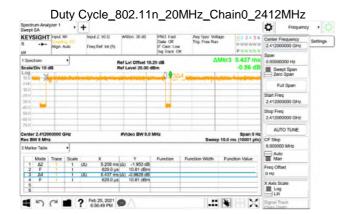
Page: 20 of 297

7.3 Duty Cycle test plots

CDD





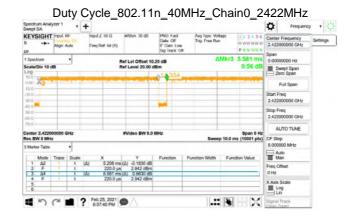


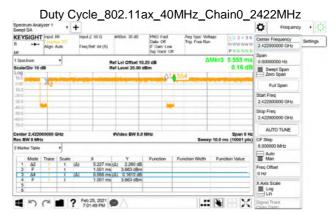


X - X

e Trace Scale X Y
t (Δ) 5.227 ms (Δ) 1.969 d8
t 41.0 μs 10.23 dBm
t (Δ) 5.486 ms (Δ) .0.1861 dB
t 413.0 μs 10.23 dBm

■ 9 Peb 25, 2021 ●





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

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



Page: 21 of 297

Beamforming

Duty Cycle_802.11n_20MHz_Chain0_2412MHz







Duty Cycle_802.11n_40MHz_Chain0_2422MHz



Duty Cycle_802.11ax_40MHz_Chain0_2422MHz



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

所分分元の子 九根官部未贈到馬之保市員 「何时是保市匿味留り人・本官古来でよる事間間でリイヤリ市の技術を This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Np.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 f (886-2) 2298-0488



Page: 22 of 297

PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

Note:

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

• Directional Gain =
$$10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^{2}}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

 $g_{i,k} = /20$ 10Gk if the kth antenna is being fed by spatial stream j, or zero if it is not;

 G_k is the gain in dBi of the kth antenna.

The antenna gain is not grater than 6 dBi. Therefore, reduction of power is not required.

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

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Np.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司 t (886-2) 2299-3279 f (886-2) 2298-0488 www.sgs.com.tw



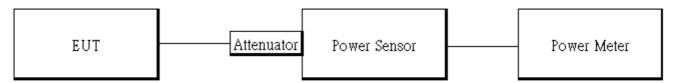
Page: 23 of 297

8.2 Measurement Equipment Used

Conducted Emission Test Site: Conducted 2									
EQUIPMENT TYPE MFR MODEL SERIAL NUMBER BER LAST CAL. CAL DU									
Power Meter	Anritsu	ML2496A	1804001	03/02/2021	03/01/2022				
Power Sensor	Anritsu	MA2411B	1726104	03/02/2021	03/01/2022				
Power Sensor	Anritsu	MA2411B	1726107	03/02/2021	03/01/2022				
Attenuator	Mini-Circuit	BW- S10W2+	2	12/16/2020	12/15/2021				

8.3 Test Set-up

Power Meter:



8.4 Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.

Power Meter:

It is used as the auxiliary test equipment to conduct the output power measurement.

4. Record the max. Reading as observed from Spectrum or Power Meter.

* Note: The duty cycle factor is compensated to obtain the maximum value of measurement in average.

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

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



Page: 24 of 297

8.5 Measurement Result

CDD

802.1	1b Ch0					
СН	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm) Limit (dBm)		RESULT
1	2412	1	24	26.67	30.00	PASS
6	2437	1	24	26.61	30.00	PASS
11	2462	1	24	26.77	30.00	PASS
802.1	1b Ch0		,			•
СН	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	1	24	23.27	30.00	PASS
6	2437	1	24	23.11	30.00	PASS
11	2462	1	24	23.40	30.00	PASS

802.1	1b Ch1					
СН	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	24	25.88	30.00	PASS
6	2437	1	24	26.14	30.00	PASS
11	2462	1	24	26.07	30.00	PASS
802.1	1b Ch1		-		•	•
СН	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	1	24	23.27	30.00	PASS
6	2437	1	24	23.11	30.00	PASS
11	2462	1	24	23.40	30.00	PASS

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

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery 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. Np.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號



802.11b_2TX

1

6

11

2412

2437

2462

6

6

6

Report No.: ER/2021/20091

PASS

PASS

PASS

30.00

30.00

30.00

Page: 25 of 297

			ı					
	Freq.	Data	Power	Peak	Output	Total Peak	C Limi	t
СН	(MHz)	Rate	set	Po	Power Output Powe		er (dBm	RESULT
	(141112)	Nate	361	CH 0	CH 1	(dBm)	(ubiii	''
1	2412	1	24	26.60	25.85	29.25	30.00) PASS
6	2437	1	24	26.60	25.85	29.25	30.00) PASS
11	2462	1	24	26.52	26.05	29.30	30.00) PASS
802.1	1b_2TX		•		•		•	•
				Avg.	Output	Max. Avg. Out	tput	
СН	Freq.	Data	Power	Po	wer	include tune	up Limi	t RESULT
СП	(MHz)	Rate	set	(d	Bm)	tolerance Po	wer (dBm	i) RESULT
				CH 0	CH 1	(dBm)		
1	2412	1	24	22.02	21.30	25.93	30.00) PASS
6	2437	1	24	22.04	21.45	26.01	30.00) PASS
11	2462	1	24	22.05	21.58	26.08	30.00) PASS
000.4	4 01-0		-	•		•	•	•
802.1	1g Ch0	1				_		
	Freq.	Data	Po	wer	Peak	Output	Limit	
СН	(MHz)	Rate		et	P	ower	(dBm)	RESULT
	(141112)	Nate	"		(c	lBm)	(dBiii)	
1	2412	6	1	9	2	6.22	30.00	PASS
6	2437	6	1	9	2	6.19	30.00	PASS
11	2462	6	1	9	2	6.68	30.00	PASS
802.1	1g Ch0	•		•				1
					Max. Av	/g. Output		
	Freq.	Data	Po	wer	includ	e tune up	Limit	
СН	(MHz)	Rate	s	et		nce Power	(dBm)	RESULT
	\	1	l ,	- 1			(*)	

(dBm)

19.01

18.96

19.22

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

19

19

19

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery 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. Np.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號



Report No.: ER/2021/20091

Page: 26 of 297

802.1	1g Ch1							
СН	Freq. (MHz)	Data Rate	1	ower set		k Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6		19		25.65	30.00	PASS
6	2437	6		19		25.56	30.00	PASS
11	2462	6		19		25.85	30.00	PASS
802.1	1g Ch1	•	·			<u>.</u>		
					Max. A	Avg. Output		
СН	Freq. (MHz)	Data Rate	_	ower set	tolera	de tune up ance Power (dBm)	Limit (dBm)	RESULT
1	2412	6		19	19.01		30.00	PASS
6	2437	6		19		18.96	30.00	PASS
11	2462	6		19		19.22	30.00	PASS
802.1	lg_2TX		•			-		
СН	Freq. (MHz)	Data Rate	Power set		Output wer	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	19	26.34	25.33	28.87	30.00	PASS
6	2437	6	19	26.48	25.66	29.10	30.00	PASS
11	2462	6	19	26.53	25.84	29.21	30.00	PASS
802.1	lg_2TX							T
СН	Freq. (MHz)	. Data Po		Po	Output wer Bm) CH 1	Max. Avg. Outpu include tune up tolerance Powe (dBm)	Limit	RESULT
1	2412	6	19	18.58	17.79	21.53	30.00	PASS
6	2437	6	19	18.76	17.96	21.71	30.00	PASS
11	2462	6	19	18.86	18.34	21.94	30.00	PASS

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

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



Page: 27 of 297

802.1	l1n_HT2	0M Ch0				
СН	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	19.5	27.15	30.00	PASS
6	2437	MCS0	19	26.37	30.00	PASS
11	2462	MCS0	19	26.67	30.00	PASS
802.1	l1n_HT2	0M Ch0				
СН	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	19.5	19.26	30.00	PASS
6	2437	MCS0	19	18.79	30.00	PASS
11	2462	MCS0	19	19.04	30.00	PASS

802.1	1n_HT20I	/I Ch1				
СН	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	19.5	25.95	30.00	PASS
6	2437	MCS0	19	25.71	30.00	PASS
11	2462	MCS0	19	26.01	30.00	PASS
802.1	1n_HT20I	/I Ch1				
СН	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	19.5	19.26	30.00	PASS
6	2437	MCS0	19	18.79	30.00	PASS
11	2462	MCS0	19	19.04	30.00	PASS

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

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



802.11n HT20M MIMO

Report No.: ER/2021/20091

Page: 28 of 297

CH 0 CH 1 (dBm) (dBm) 1 2412 MCS8 19.5 26.87 25.98 29.46 30.00 PASS 6 2437 MCS8 19 26.11 25.78 28.96 30.00 PASS 11 2462 MCS8 19 26.62 25.98 29.32 30.00 PASS 802.11n_HT20M MIMO Avg. Output Max. Avg. Output Freq Data Power Power include tune up Limit	802.1	In_H	MIMO							
CH		Freg.	Data	Power	Peak	Output			Limit	
The color of the	CH	•					Output Pow	er/		RESULT
Characteristics		, ,					, ,		` '	
The color of the	1	2412					29.46			
RESULT R	6	2437		19	26.11	25.78	28.96		30.00	
CH (MHz) Freq. (MHz) Data Rate Power set Avg. Output (dBm) Max. Avg. Output include tune up tolerance Power (dBm) Limit (dBm) RESULT 1 2412 MCS8 19.5 19.05 18.30 21.89 30.00 PASS 6 2437 MCS8 19 18.55 18.02 21.49 30.00 PASS 11 2462 MCS8 19 19.07 18.39 21.94 30.00 PASS 802.11n_HT40M Ch0 Freq. (MHz) Data (MHz) Power (dBm) Limit (dBm) RESULT (dBm) PASS 30.00 PASS PASS Aug (dBm) RESULT (dBm)<				19	26.62	25.98	29.32		30.00	PASS
CH (MHz) Freq. (MHz) Data (MHz) Power set Power (dBm) include tune up tolerance Power (dBm) Limit (dBm) RESULT 1 2412 MCS8 19.5 19.05 18.30 21.89 30.00 PASS 6 2437 MCS8 19 18.55 18.02 21.49 30.00 PASS 11 2462 MCS8 19 19.07 18.39 21.94 30.00 PASS BO2.11n_HT40M Ch0 CH Freq. (MHz) Data Rate Power Set Power (dBm) Limit (dBm) RESULT (dBm) 3 2422 MCS0 19 26.43 30.00 PASS 4 2427 MCS0 19.5 27.06 30.00 PASS 5 2432 MCS0 19.5 27.06 30.00 PASS 7 2442 MCS0 19.5 27.05 30.00 PASS 8 2447 MCS0 16.5 22.97 30.00 PASS <td>802.11</td> <td>In_HT20M</td> <td>MIMO</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>r</td> <td></td>	802.11	In_HT20M	MIMO						r	
CH (MHz) Rate Set (dBm) tolerance Power (dBm) (dBm) 1 2412 MCS8 19.5 19.05 18.30 21.89 30.00 PASS 6 2437 MCS8 19 18.55 18.02 21.49 30.00 PASS 11 2462 MCS8 19 19.07 18.39 21.94 30.00 PASS 12 2462 MCS8 19 19.07 18.39 21.94 30.00 PASS 18 2462 MCS8 19 19.07 18.39 21.94 30.00 PASS 19 24.94		_	5 .			-		-	,	
CH CH CH (dBm)	СН	-						•		RESULT
1		(MHz)	Rate	set	•	•	ļ	wer	(dBm)	
6 2437 MCS8 19 18.55 18.02 21.49 30.00 PASS 802.11n_HT40M Ch0 CH Freq. (MHz) Data Rate Power set Power (dBm) Limit (dBm) RESULT (dBm) 3 2422 MCS0 19 26.43 30.00 PASS 4 2427 MCS0 19.5 26.92 30.00 PASS 5 2432 MCS0 19.5 26.93 30.00 PASS 6 2437 MCS0 19.5 27.06 30.00 PASS 7 2442 MCS0 19.5 27.05 30.00 PASS 8 2447 MCS0 16.5 23.94 30.00 PASS 8 2447 MCS0 16.5 22.97 30.00 PASS 802.11n_HT40M Ch0 Max. Avg. Output include tune up tolerance Power (dBm) Chm Chm Chm Chm PASS 4 2427 MCS0 19.5		2112	11000				• •			D400
The color of the										
Result R										
CH Freq. (MHz) Data Rate Power set Peak Output (dBm) Limit (dBm) RESULT 3 2422 MCS0 19 26.43 30.00 PASS 4 2427 MCS0 19.5 26.92 30.00 PASS 5 2432 MCS0 19.5 27.06 30.00 PASS 6 2437 MCS0 19.5 26.93 30.00 PASS 7 2442 MCS0 19.5 27.05 30.00 PASS 8 2447 MCS0 16.5 23.94 30.00 PASS 802.11n_HT40M Ch0 Max. Avg. Output include tune up tolerance Power (dBm) Limit (dBm) RESULT (dBm) 3 2422 MCS0 19 19.05 30.00 PASS 4 2427 MCS0 19.5 19.49 30.00 PASS 5 2432 MCS0 19.5 19.65 30.00 PASS 6 2437 MCS0 <td>11</td> <td>2462</td> <td>IVIC 58</td> <td>19</td> <td>19.07</td> <td>18.39</td> <td>21.94</td> <td></td> <td>30.00</td> <td>PASS</td>	11	2462	IVIC 58	19	19.07	18.39	21.94		30.00	PASS
CH Freq. (MHz) Data Rate Power set Power (dBm) Limit (dBm) RESULT 3 2422 MCSO 19 26.43 30.00 PASS 4 2427 MCSO 19.5 26.92 30.00 PASS 5 2432 MCSO 19.5 27.06 30.00 PASS 6 2437 MCSO 19.5 26.93 30.00 PASS 7 2442 MCSO 19.5 27.05 30.00 PASS 8 2447 MCSO 16.5 23.94 30.00 PASS 802.11n_HT40M Ch0 Max. Avg. Output include tune up tolerance Power (dBm) Limit (dBm) RESULT 6 2432 MCSO 19.5 19.05 30.00 PASS 5 2432 MCSO 19.5 19.49 30.00 PASS 5 2432 MCSO 19.5 19.65 30.00 PASS 5 2432 MCSO	802.1	1n_HT40I	M Ch0							
CH (MHz) Rate set Power (dBm) (dBm) RESULT 3 2422 MCS0 19 26.43 30.00 PASS 4 2427 MCS0 19.5 26.92 30.00 PASS 5 2432 MCS0 19.5 27.06 30.00 PASS 6 2437 MCS0 19.5 26.93 30.00 PASS 7 2442 MCS0 19.5 27.05 30.00 PASS 8 2447 MCS0 16.5 23.94 30.00 PASS 8 2452 MCS0 16 22.97 30.00 PASS 802.11n_HT40M Ch0 Max. Avg. Output include tune up tolerance Power (dBm) Limit (dBm) RESULT 3 2422 MCS0 19.5 19.49 30.00 PASS 4 2427 MCS0 19.5 19.65 30.00 PASS 5 2432 MCS0 19.5 19.65		F	Dete	De		Peak	Output		1 ::4	
Character Char	СН					P	ower			RESULT
3 2422 MCS0 19 26.43 30.00 PASS 4 2427 MCS0 19.5 26.92 30.00 PASS 5 2432 MCS0 19.5 27.06 30.00 PASS 6 2437 MCS0 19.5 26.93 30.00 PASS 7 2442 MCS0 19.5 27.05 30.00 PASS 8 2447 MCS0 16.5 23.94 30.00 PASS 8 2452 MCS0 16 22.97 30.00 PASS 802.11n_HT40M Ch0 Max. Avg. Output include tune up tolerance Power (dBm) Limit (dBm) RESULT 3 2422 MCS0 19.5 19.49 30.00 PASS 4 2427 MCS0 19.5 19.49 30.00 PASS 5 2432 MCS0 19.5 19.65 30.00 PASS 6 2437 MCS0 19.5 19.39 </td <td></td> <td>(MHz)</td> <td>Rate</td> <td colspan="2">te set (dBm)</td> <td>IBm)</td> <td></td> <td>(dBm)</td> <td></td>		(MHz)	Rate	te set (dBm)		IBm)		(dBm)		
4 2427 MCS0 19.5 26.92 30.00 PASS 5 2432 MCS0 19.5 27.06 30.00 PASS 6 2437 MCS0 19.5 26.93 30.00 PASS 7 2442 MCS0 19.5 27.05 30.00 PASS 8 2447 MCS0 16.5 23.94 30.00 PASS 9 2452 MCS0 16 22.97 30.00 PASS 802.11n_HT40M Ch0 Max. Avg. Output include tune up tolerance Power (dBm) Limit (dBm) RESULT 3 2422 MCS0 19 19.05 30.00 PASS 4 2427 MCS0 19.5 19.49 30.00 PASS 5 2432 MCS0 19.5 19.65 30.00 PASS 6 2437 MCS0 19.5 19.39 30.00 PASS 7 2442 MCS0 19.5	3	2422	MCS0	1	9	•	•		30.00	PASS
5 2432 MCS0 19.5 27.06 30.00 PASS 6 2437 MCS0 19.5 26.93 30.00 PASS 7 2442 MCS0 19.5 27.05 30.00 PASS 8 2447 MCS0 16.5 23.94 30.00 PASS 9 2452 MCS0 16 22.97 30.00 PASS 802.11n_HT40M Ch0 Max Avg. Output include tune up tolerance Power (dBm) Limit (dBm) RESULT 3 2422 MCS0 19 19.05 30.00 PASS 4 2427 MCS0 19.5 19.49 30.00 PASS 5 2432 MCS0 19.5 19.65 30.00 PASS 6 2437 MCS0 19.5 19.39 30.00 PASS 7 2442 MCS0 19.5 19.66 30.00 PASS 8 2447 MCS0 16.5 1										
6 2437 MCS0 19.5 26.93 30.00 PASS 7 2442 MCS0 19.5 27.05 30.00 PASS 8 2447 MCS0 16.5 23.94 30.00 PASS 9 2452 MCS0 16 22.97 30.00 PASS 802.11n_HT40M Ch0 Max. Avg. Output include tune up tolerance Power (dBm) Limit (dBm) RESULT 3 2422 MCS0 19 19.05 30.00 PASS 4 2427 MCS0 19.5 19.49 30.00 PASS 5 2432 MCS0 19.5 19.65 30.00 PASS 6 2437 MCS0 19.5 19.39 30.00 PASS 7 2442 MCS0 19.5 19.66 30.00 PASS 8 2447 MCS0 16.5 16.44 30.00 PASS										
8 2447 MCS0 16.5 23.94 30.00 PASS 9 2452 MCS0 16 22.97 30.00 PASS 802.11n_HT40M Ch0 Max. Avg. Output include tune up tolerance Power (dBm) Limit (dBm) RESULT 3 2422 MCS0 19 19.05 30.00 PASS 4 2427 MCS0 19.5 19.49 30.00 PASS 5 2432 MCS0 19.5 19.65 30.00 PASS 6 2437 MCS0 19.5 19.39 30.00 PASS 7 2442 MCS0 19.5 19.66 30.00 PASS 8 2447 MCS0 16.5 16.44 30.00 PASS	6		MCS0							PASS
9 2452 MCS0 16 22.97 30.00 PASS 802.11n_HT40M Ch0 CH Freq. (MHz) Data (MHz) Power set Max. Avg. Output include tune up (dBm) Limit (dBm) RESULT 3 2422 MCS0 19 19.05 30.00 PASS 4 2427 MCS0 19.5 19.49 30.00 PASS 5 2432 MCS0 19.5 19.65 30.00 PASS 6 2437 MCS0 19.5 19.39 30.00 PASS 7 2442 MCS0 19.5 19.66 30.00 PASS 8 2447 MCS0 16.5 16.44 30.00 PASS	7	2442	MCS0	19	9.5	27.05			30.00	PASS
802.11n_HT40M Ch0 CH Freq. (MHz) Data Rate Power set Max. Avg. Output include tune up tolerance Power (dBm) Limit (dBm) RESULT 3 2422 MCS0 19 19.05 30.00 PASS 4 2427 MCS0 19.5 19.49 30.00 PASS 5 2432 MCS0 19.5 19.65 30.00 PASS 6 2437 MCS0 19.5 19.39 30.00 PASS 7 2442 MCS0 19.5 19.66 30.00 PASS 8 2447 MCS0 16.5 16.44 30.00 PASS	8	2447	MCS0	16	5.5	2	3.94		30.00	PASS
CH Freq. (MHz) Data Rate Power set Max. Avg. Output include tune up tolerance Power (dBm) Limit (dBm) RESULT 3 2422 MCS0 19 19.05 30.00 PASS 4 2427 MCS0 19.5 19.49 30.00 PASS 5 2432 MCS0 19.5 19.65 30.00 PASS 6 2437 MCS0 19.5 19.39 30.00 PASS 7 2442 MCS0 19.5 19.66 30.00 PASS 8 2447 MCS0 16.5 16.44 30.00 PASS	9	2452	MCS0	1	6	2	2.97		30.00	PASS
CH Freq. (MHz) Data Rate Power set include tune up tolerance Power (dBm) Limit (dBm) RESULT 3 2422 MCS0 19 19.05 30.00 PASS 4 2427 MCS0 19.5 19.49 30.00 PASS 5 2432 MCS0 19.5 19.65 30.00 PASS 6 2437 MCS0 19.5 19.39 30.00 PASS 7 2442 MCS0 19.5 19.66 30.00 PASS 8 2447 MCS0 16.5 16.44 30.00 PASS	802.1	1n_HT40I	M Ch0							
CH (MHz) Rate set tolerance Power (dBm) (dBm) RESULT 3 2422 MCS0 19 19.05 30.00 PASS 4 2427 MCS0 19.5 19.49 30.00 PASS 5 2432 MCS0 19.5 19.65 30.00 PASS 6 2437 MCS0 19.5 19.39 30.00 PASS 7 2442 MCS0 19.5 19.66 30.00 PASS 8 2447 MCS0 16.5 16.44 30.00 PASS						Max. Av	/g. Output			
(MHz) Rate set tolerance Power (dBm) (dBm) 3 2422 MCS0 19 19.05 30.00 PASS 4 2427 MCS0 19.5 19.49 30.00 PASS 5 2432 MCS0 19.5 19.65 30.00 PASS 6 2437 MCS0 19.5 19.39 30.00 PASS 7 2442 MCS0 19.5 19.66 30.00 PASS 8 2447 MCS0 16.5 16.44 30.00 PASS	011	Freq.	Data	Po	wer	includ	e tune up		Limit	DECLU T
3 2422 MCS0 19 19.05 30.00 PASS 4 2427 MCS0 19.5 19.49 30.00 PASS 5 2432 MCS0 19.5 19.65 30.00 PASS 6 2437 MCS0 19.5 19.39 30.00 PASS 7 2442 MCS0 19.5 19.66 30.00 PASS 8 2447 MCS0 16.5 16.44 30.00 PASS	СН	(MHz)	Rate	s	et	tolerar	ce Power		(dBm)	RESULI
3 2422 MCS0 19 19.05 30.00 PASS 4 2427 MCS0 19.5 19.49 30.00 PASS 5 2432 MCS0 19.5 19.65 30.00 PASS 6 2437 MCS0 19.5 19.39 30.00 PASS 7 2442 MCS0 19.5 19.66 30.00 PASS 8 2447 MCS0 16.5 16.44 30.00 PASS		, ,				(d	IBm)		. ,	
5 2432 MCS0 19.5 19.65 30.00 PASS 6 2437 MCS0 19.5 19.39 30.00 PASS 7 2442 MCS0 19.5 19.66 30.00 PASS 8 2447 MCS0 16.5 16.44 30.00 PASS	3	2422	MCS0	1	9	•	•		30.00	PASS
5 2432 MCS0 19.5 19.65 30.00 PASS 6 2437 MCS0 19.5 19.39 30.00 PASS 7 2442 MCS0 19.5 19.66 30.00 PASS 8 2447 MCS0 16.5 16.44 30.00 PASS	4	2427	MCS0	19	9.5	1	9.49		30.00	PASS
6 2437 MCS0 19.5 19.39 30.00 PASS 7 2442 MCS0 19.5 19.66 30.00 PASS 8 2447 MCS0 16.5 16.44 30.00 PASS										PASS
8 2447 MCS0 16.5 16.44 30.00 PASS	6		MCS0							PASS
		2442	MCS0							PASS
9 2452 MCS0 16 15.71 30.00 PASS	8	2447	MCS0	16	5.5	1	6.44		30.00	PASS
	9	2452	MCS0	1	6	1	5.71		30.00	PASS

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

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery 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. Np.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號



Page: 29 of 297

802.1	1n_HT40I	M Ch1				
СН	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	19	25.71	30.00	PASS
4	2427	MCS0	19.5	26.49	30.00	PASS
5	2432	MCS0	19.5	26.14	30.00	PASS
6	2437	MCS0	19.5	26.20	30.00	PASS
7	2442	MCS0	19.5	26.39	30.00	PASS
8	2447	MCS0	16.5	23.08	30.00	PASS
9	2452	MCS0	16	22.65	30.00	PASS
802.1	1n_HT40I	M Ch1				
				Max. Avg. Output		
СН	Freq.	Data	Power	include tune up	Limit	RESULT
"	(MHz)	Rate	set	tolerance Power	(dBm)	I KEGGET
				(dBm)		
3	2422	MCS0	19	19.05	30.00	PASS
4	2427	MCS0	19.5	19.49	30.00	PASS
5	2432	MCS0	19.5	19.65	30.00	PASS
6	2437	MCS0	19.5	19.39	30.00	PASS
7	2442	MCS0	19.5	19.66	30.00	PASS
8	2447	MCS0	16.5	16.44	30.00	PASS
9	2452	MCS0	16	15.71	30.00	PASS

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

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery 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. Np.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司 t (886-2) 2299-3279 f (886-2) 2298-0488 www.sgs.com.tw



Page: 30 of 297

СН	Freq.	Data Rate	Power set		Output wer	Total Peak Output Power	Limit (dBm)	RESULT
	(WITIZ)	Nate	361	CH 0	CH 1	(dBm)	(ubili)	
3	2422	MCS8	19	26.22	25.72	28.99	30.00	PASS
4	2427	MCS8	19.5	26.46	26.43	29.46	30.00	PASS
5	2432	MCS8	19.5	26.73	26.47	29.61	30.00	PASS
6	2437	MCS8	19.5	26.62	26.01	29.34	30.00	PASS
7	2442	MCS8	18.5	25.65	25.23	28.46	30.00	PASS
8	2447	MCS8	15.5	22.60	22.21	25.42	30.00	PASS
9	2452	MCS8	15.5	22.39	22.22	25.32	30.00	PASS
802.1	1n_HT40I	M MIMO	•	•	•			-!
				Avg. C	Output	Max. Avg. Output		
СН	Freq.	Data	Power	Po	wer	include tune up	Limit	RESULT
CII	(MHz)	Rate	set	(dE	3m)	tolerance Power	(dBm)	KLOULI
				CH 0	CH 1	(dBm)		
3	2422	MCS8	19	18.76	18.05	21.73	30.00	PASS
4	2427	MCS8	19.5	19.04	18.86	22.26	30.00	PASS
5	2432	MCS8	19.5	19.09	18.78	22.25	30.00	PASS
6	2437	MCS8	19.5	19.49	18.65	22.40	30.00	PASS
O				40.00	17.70	21.25	20.00	PASS
7	2442	MCS8	18.5	18.08	17.79	21.23	30.00	PASS
	2442 2447	MCS8 MCS8	18.5 15.5	18.08	14.97	18.35	30.00	PASS

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

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery 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. Np.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號



Page: 31 of 297

802.1	1ax_HE20	M Ch0					
СН	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
			full	18.5	26.47	30.00	PASS
1	2412	MCS0	26/0	15	26.03	30.00	PASS
	2412	IVICOU	52/37	15	26.39	30.00	PASS
			106/53	14.5	26.26	30.00	PASS
6	2437	MCS0	full	18.5	26.45	30.00	PASS
			full	18.5	26.81	30.00	PASS
11	2462	MCS0	26/8	15	26.20	30.00	PASS
	2402 IV	IVICOU	52/40	14.5	26.26	30.00	PASS
			106/54	14	25.64	30.00	PASS
802.1	1ax_HE20	M Ch0					•
					Max. Avg. Output		
СН	Freq.	Data	RU	Power	include tune up	Limit	RESULT
CII	(MHz)	Rate	Config	set	tolerance Power	(dBm)	KLOULI
					(dBm)		
			full	18.5	18.53	30.00	PASS
1	2412	MCS0	26/0	15	14.73	30.00	PASS
	2712	INICOU					
			52/37	15	14.98	30.00	PASS
			52/37 106/53	15 14.5	14.98 14.09	30.00 30.00	PASS PASS
6	2437	MCS0					
6	2437	MCS0	106/53	14.5	14.09	30.00	PASS
			106/53 full	14.5 18.5	14.09 18.44	30.00 30.00	PASS PASS
6	2437	MCS0	106/53 full full	14.5 18.5 18.5	14.09 18.44 18.81	30.00 30.00 30.00	PASS PASS PASS

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

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



Page: 32 of 297

802.1	1ax_HE20	OM Ch1					
СН	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
			full	18.5	25.85	30.00	PASS
1	2412	MCS0	26/0	15	25.75	30.00	PASS
'	2412	IVICSU	52/37	15	25.77	30.00	PASS
			106/53	14.5	24.99	30.00	PASS
6	2437	MCS0	full	18.5	25.63	30.00	PASS
			full	18.5	26.04	30.00	PASS
11	2462	MCS0	26/8	15	25.31	30.00	PASS
' '	2402	IVICSO	52/40	14.5	25.46	30.00	PASS
			106/54	14	25.32	30.00	PASS
802.1	1ax_HE20	M Ch1		•			•
					Max. Avg. Output		
СН	Freq.	Data	RU	Power	include tune up	Limit	RESULT
011	(MHz)	— 4	C	4	1.1 D	/.ID\	INCOL
		Rate	Config	set	tolerance Power	(dBm)	
		Rate	Config	set	tolerance Power (dBm)	(aBM)	
		Kate	full	18.5		30.00	PASS
1	2/12				(dBm)	` ,	PASS PASS
1	2412	MCS0	full	18.5	(dBm) 18.53	30.00	
1	2412		full 26/0	18.5 15	(dBm) 18.53 14.73	30.00 30.00	PASS
1	2412		full 26/0 52/37	18.5 15 15	(dBm) 18.53 14.73 14.98	30.00 30.00 30.00	PASS PASS
		MCS0	full 26/0 52/37 106/53	18.5 15 15 14.5	(dBm) 18.53 14.73 14.98 14.09	30.00 30.00 30.00 30.00	PASS PASS PASS
6	2437	MCS0	full 26/0 52/37 106/53 full	18.5 15 15 14.5 18.5	(dBm) 18.53 14.73 14.98 14.09 18.44	30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS
		MCS0	full 26/0 52/37 106/53 full full	18.5 15 15 14.5 18.5 18.5	(dBm) 18.53 14.73 14.98 14.09 18.44 18.81	30.00 30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS PASS
6	2437	MCS0	full 26/0 52/37 106/53 full full 26/8	18.5 15 15 14.5 18.5 18.5	(dBm) 18.53 14.73 14.98 14.09 18.44 18.81 15.13	30.00 30.00 30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS PASS PASS

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

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



Page: 33 of 297

802.1	1ax_HE20	M MIMO)						
СН	Freq.	Data	RU	Power		Output wer	Total Peak Output Power	Limit	RESULT
	(MHz)	Rate	Config	set	CH 0	CH 1	(dBm)	(dBm)	
			full	18.5	26.36	25.67	29.04	30.00	PASS
1	2412	MCS0	26/0	15	26.23	25.72	28.99	30.00	PASS
ı	2412	IVICSU	52/37	15	26.25	25.74	29.01	30.00	PASS
			106/53	14.5	26.61	25.44	29.07	30.00	PASS
6	2437	MCS0	full	18.5	26.84	26.32	29.60	30.00	PASS
			full	18.5	26.98	26.01	29.53	30.00	PASS
11	2462	MCS0	26/8	15	26.15	25.38	28.79	30.00	PASS
11	2402	IVICSU	52/40	14.5	26.20	25.32	28.79	30.00	PASS
			106/54	14	26.46	25.02	28.81	30.00	PASS
802.1	1ax_HE20	м мімо		•		•			•
					Avg. C	Output	Max. Avg. Output		
СН	Freq.	Data	RU	Power	Po	wer	include tune up	Limit	RESULT
СП	(MHz)	Rate	Config	set	(dE	Bm)	tolerance Power	(dBm)	KESULI
					CH 0	CH 1	(dBm)		
			full	18.5	18.24	17.85	21.24	30.00	PASS
1	2412	MCS0	26/0	15	14.52	13.69	17.32	30.00	PASS
'	2412	IVICSU	52/37	15	14.83	13.93	17.59	30.00	PASS
			106/53	14.5	13.92	13.07	16.71	30.00	PASS
6	2437	MCS0	full	18.5	18.42	17.68	21.26	30.00	PASS
			full	18.5	18.73	18.18	21.65	30.00	PASS
11	2462	MCS0	26/8	15	14.96	14.13	17.76	30.00	PASS
1.1	2402	IVICSU	52/40	14.5	14.82	13.98	17.61	30.00	PASS
							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 http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery 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. Np.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號



Page: 34 of 297

802.1	1ax_HE40	M Ch0					
СН	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	18.5	26.45	30.00	PASS
3	2422	IVICOU	242/61	15.5	26.26	30.00	PASS
6	2437	MCS0	full	18.5	26.62	30.00	PASS
7	2442	MCS0	full	18.5	26.64	30.00	PASS
8	2447	MCS0	full	16	24.98	30.00	PASS
9	2452	MCS0	full	16	23.84	30.00	PASS
′	2432	IVICOU	242/62	16	26.64	30.00	PASS
802.1	1ax_HE40	M Ch0					•
					Max. Avg. Output		
СН	Freq.	Data	RU	Power	include tune up	Limit	RESULT
CII	(MHz)	Rate	Config	set	tolerance Power	(dBm)	KLSOLI
					(dBm)		
3	2422	MCS0	full	18.5	18.55	30.00	PASS
3	2422	IVICOU	242/61	15.5	15.06	30.00	PASS
6	2437	MCS0	full	18.5	18.75	30.00	PASS
7	2442	MCS0	full	18.5	18.78	30.00	PASS
8	2447	MCS0	full	16	16.19	30.00	PASS
9	2452	MCS0	full	16	15.75	30.00	PASS
,	2432	IVICOU	242/62	16	15.51	30.00	PASS

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

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



Page: 35 of 297

802.1	1ax_HE40	M Ch1					
СН	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	18.5	26.18	30.00	PASS
3	2422	INICSU	242/61	15.5	25.79	30.00	PASS
6	2437	MCS0	full	18.5	25.96	30.00	PASS
7	2442	MCS0	full	18.5	25.76	30.00	PASS
8	2447	MCS0	full	16	23.22	30.00	PASS
9	2452	MCS0	full	16	23.42	30.00	PASS
7	2432	INICOU	242/62	16	26.12	30.00	PASS
802.1	1ax_HE40	M Ch1					
					Max. Avg. Output		
СН	Freq.	Data	RU	Power	include tune up	Limit	RESULT
CII	(MHz)	Rate	Config	set	tolerance Power	(dBm)	KLOOLI
					(dBm)		
3	2422	MCS0	full	18.5	18.55	30.00	PASS
J	2422	INICOU	242/61	15.5	15.06	30.00	PASS
6	2437	MCS0	full	18.5	18.75	30.00	PASS
7	2442	MCS0	full	18.5	18.78	30.00	PASS
8	2447	MCS0	full	16	16.19	30.00	PASS
9	2452	MCS0	full	16	15.75	30.00	PASS
	1 4734	INICOU			15.51	30.00	PASS

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

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery 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. Np.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號



Page: 36 of 297

802.1°	1ax_HE40	M MIMO)						
СН	Freq.	Data Rate	RU Config	Power set	Po	Output wer	Total Peak Output Power	Limit (dBm)	RESULT
	. ,				CH 0	CH 1	(dBm)	, ,	
3	2422	MCS0	full	18.5	26.11	25.95	29.04	30.00	PASS
	2 122	111000	242/6	15.5	26.15	25.79	28.98	30.00	PASS
6	2437	MCS0	full	18.5	26.89	25.84	29.41	30.00	PASS
7	2442	MCS0	full	17	25.27	24.32	27.83	30.00	PASS
8	2447	MCS0	full	14.5	22.61	21.50	25.10	30.00	PASS
9	2452	MCS0	full	15	22.75	22.53	25.65	30.00	PASS
9	2432	IVICSU	242/6	16	26.33	26.25	29.30	30.00	PASS
802.1	1ax_HE40	м мімо				<u> </u>			
					Avg. C	Output	Max. Avg. Output		
СН	Freq.	Data	RU	Power	Po	wer	include tune up	Limit	RESULT
СП	(MHz)	Rate	Config	set	(dE	Bm)	tolerance Power	(dBm)	RESULI
					CH 0	CH 1	(dBm)		
3	2422	MCS0	full	18.5	18.23	18.17	21.47	30.00	PASS
٦	2422	MCSU	242/6	15.5	14.57	13.94	17.54	30.00	PASS
6	2437	MCS0	full	18.5	18.52	17.79	21.44	30.00	PASS
7	2442	MCS0	full	17	17.08	16.44	20.05	30.00	PASS
8	2447	MCS0	full	14.5	14.53	13.86	17.48	30.00	PASS
9	2452	MCS0	full	15	14.72	14.29	17.78	30.00	PASS
9	2432	IVICSU	242/6	16	15.24	15.13	18.46	30.00	PASS

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

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery 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. Np.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號



Page: 37 of 297

Beamforming

802.1°	1n_HT20I	M Ch0				
СН	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	16.5	24.14	30.00	PASS
6	2437	MCS0	16	24.63	30.00	PASS
11	2462	MCS0	16	23.98	30.00	PASS
802.1°	1n_HT20I	M Ch0				
СН	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	16.5	16.23	30.00	PASS
6	2437	MCS0	16	15.95	30.00	PASS
11	2462	MCS0	16	16.09	30.00	PASS

802.1°	1n_HT20I	W Ch1				
СН	Freq. Data (MHz) Rate		Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	16.5	23.56	30.00	PASS
6	2437	MCS0	16	23.06	30.00	PASS
11	2462	MCS0	16	23.36	30.00	PASS
802.1°	1n_HT20I	VI Ch1				
СН	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	16.5	15.78	30.00	PASS
6	2437	MCS0	16	15.28	30.00	PASS
11	2462	MCS0	16	15.62	30.00	PASS

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

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

Np.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 台灣檢驗科技股份有限公司 t (886-2) 2299-3279



Page: 38 of 297

	Eroa		Dower	Power Power		Total Peak	Limit	
CHI	Freq.					Output Power		RESUL1
	(MHz)	Rate	set	CH 0	CH 1	(dBm)	(dBm)	
1	2412	MCS8	16.5	24.23	23.21	26.76	30.00	PASS
6	2437	MCS8	16	24.34	23.27	26.85	30.00	PASS
11	2462	MCS8	16	23.69	23.53	26.62	30.00	PASS
02.1	1n_HT20M	MIMO	•					•
				Avg. 0	Output	Max. Avg. Output		
СН	Freq.	Data	Power	Po	wer	include tune up	Limit	DECILIT
СН	(MHz)	Rate	set	(dE	3m)	tolerance Power	(dBm)	RESULT
				CH 0	CH 1	(dBm)		
1	2412	MCS8	16.5	15.96	15.55	18.94	30.00	PASS
6	2437	MCS8	16	15.98	15.01	18.70	30.00	PASS
11	2462	MCS8	16	15.84	15.35	18.78	30.00	PASS

802.1	1n_HT40I	M Ch0				
СН	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	16	23.69	30.00	PASS
4	2427	MCS0	16.5	24.01	30.00	PASS
5	2432	MCS0	16.5	24.29	30.00	PASS
6	2437	MCS0	16.5	24.36	30.00	PASS
7	2442	MCS0	16.5	23.94	30.00	PASS
8	2447	MCS0	13.5	21.06	30.00	PASS
9	2452	MCS0	13	20.12	30.00	PASS
802.1	1n_HT40I	VI Ch0				
				Max. Avg. Output		
СН	Freq.	Data	Power	include tune up	Limit	RESULT
СП	(MHz)	Rate	set	tolerance Power	(dBm)	KESULI
				(dBm)		
3	2422	MCS0	16	15.94	30.00	PASS
4	2427	MCS0	16.5	16.39	30.00	PASS
5	2432	MCS0	16.5	16.52	30.00	PASS
6	2437	MCS0	16.5	16.56	30.00	PASS
7	2442	MCS0	16.5	16.47	30.00	PASS
8	2447	MCS0	13.5	13.39	30.00	PASS
9	2452	MCS0	13	12.72	30.00	PASS

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

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery 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. Np.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 台灣檢驗科技股份有限公司 t (886-2) 2299-3279

f (886-2) 2298-0488 www.sgs.com.tw



Page: 39 of 297

802.1	1n_HT40I	M Ch1				
СН	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	16 22.75		30.00	PASS
4	2427	MCS0	16.5	23.49	30.00	PASS
5	2432	MCS0	16.5	23.48	30.00	PASS
6	2437	MCS0	16.5	23.46	30.00	PASS
7	2442	MCS0	16.5	23.22	30.00	PASS
8	2447	MCS0	13.5	20.15	30.00	PASS
9	2452	MCS0	13	19.66	30.00	PASS
802.1	1n_HT40I	VI Ch1				•
				Max. Avg. Output		
СН	Freq.	Data	Power	include tune up	Limit	RESULT
	(MHz)	Rate	set	tolerance Power	(dBm)	INLOOLI
				(dBm)		
3	2422	MCS0	16	15.43	30.00	PASS
4	2427	MCS0	16.5	15.88	30.00	PASS
5	2432	MCS0	16.5	15.97	30.00	PASS
6	2437	MCS0	16.5	15.98	30.00	PASS
7	2442	MCS0	16.5	15.83	30.00	PASS
8	2447	MCS0	13.5	12.98	30.00	PASS
9	2452	MCS0	13	12.40	30.00	PASS

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

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



Page: 40 of 297

802.1	1n_HT40I	M MIMO						
СН	Freq.	Data Rate	Power set		Output wer	Total Peak Output Power	Limit (dBm)	RESULT
	(141112)	Nate	361	CH 0	CH 1	(dBm)	(dDill)	
3	2422	MCS8	16	23.81	23.12	26.49	30.00	PASS
4	2427	MCS8	16.5	23.94	23.34	26.66	30.00	PASS
5	2432	MCS8	16.5	24.22	23.36	26.82	30.00	PASS
6	2437	MCS8	16.5	24.26	23.44	26.88	30.00	PASS
7	2442	MCS8	15.5	22.81	22.21	25.53	30.00	PASS
8	2447	MCS8	12.5	19.82	19.11	22.49	30.00	PASS
9	2452	MCS8	12.5	19.64	19.18	22.43	30.00	PASS
802.1	1n_HT40I	M MIMO	•					•
				Avg. C	Output	Max. Avg. Output		
СН	Freq.	Data	Power	Po	wer	include tune up	Limit	RESULT
CII	(MHz)	Rate	set	(dE	Rm)	tolerance Power	(dBm)	KLOULI
				٠,	···· <i>)</i>	tolerance Fower	(abiii)	
				CH 0	CH 1	(dBm)	(dBiii)	
3	2422	MCS8	16	•			30.00	PASS
3	2422 2427	MCS8 MCS8	16 16.5	CH 0	CH 1	(dBm)		PASS PASS
				CH 0 15.69	CH 1 15.44	(dBm) 18.78	30.00	
4	2427	MCS8	16.5	CH 0 15.69 16.08	CH 1 15.44 15.58	(dBm) 18.78 19.05	30.00	PASS
5	2427 2432	MCS8 MCS8	16.5 16.5	CH 0 15.69 16.08 16.37	CH 1 15.44 15.58 15.96	(dBm) 18.78 19.05 19.38	30.00 30.00 30.00	PASS PASS
4 5 6	2427 2432 2437	MCS8 MCS8 MCS8	16.5 16.5 16.5	CH 0 15.69 16.08 16.37 16.42	CH 1 15.44 15.58 15.96 15.88	(dBm) 18.78 19.05 19.38 19.37	30.00 30.00 30.00 30.00	PASS PASS PASS

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

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

No 134 Witk Using Read New Taipe Industrial Park Witks District New Taip



Page: 41 of 297

802.1°	1ax_HE20	OM Ch0						
СН	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT	
			full	15.5	24.14	30.00	PASS	
1	2412	MCS0	26/0	12	23.73	30.00	PASS	
1	2412	2412	INICSU	52/37	12	23.96	30.00	PASS
			106/53	11.5	23.95	30.00	PASS	
6	2437	MCS0	full	15.5	23.73	30.00	PASS	
			full	15.5	24.28	30.00	PASS	
11	2462	MCS0	26/8	12	23.61	30.00	PASS	
11	2402	IVICSO	52/40	11.5	23.54	30.00	PASS	
			106/54	11	23.33	30.00	PASS	
802.1°	1ax_HE20	M Ch0						
					Max. Avg. Output			
СН	Freq.	Data	RU	Power	include tune up	Limit	RESULT	
CII	(MHz)	Rate	Config	set	tolerance Power	(dBm)	INLOULT	
					(dBm)			
			full	15.5	15.60	30.00	PASS	
1	2412	MCS0	26/0	12	12.17	30.00	PASS	
ı	2412	IVICSU	52/37	12	12.41	30.00	PASS	
			106/53	11.5	11.57	30.00	PASS	
6	2437	MCS0	full	15.5	15.98	30.00	PASS	
			full	15.5	16.19	30.00	PASS	
11	2462	2462 MCS0	26/8	12	12.37	30.00	PASS	
11	2402	INICOU	52/40	11.5	12.43	30.00	PASS	
			106/54	11	11.60	30.00	PASS	

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

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



Page: 42 of 297

802.1	1ax_HE20	M Ch1					
СН	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
			full	15.5	22.87	30.00	PASS
1	2412	MCS0	26/0	12	23.14	30.00	PASS
'	2412	IVICSU	52/37	12	23.15	30.00	PASS
			106/53	11.5	22.75	30.00	PASS
6	2437	MCS0	full	15.5	23.28	30.00	PASS
			full	15.5	23.26	30.00	PASS
11	2462	MCSO	26/8	12	23.29	30.00	PASS
11	2402	MCS0	52/40	11.5	22.75	30.00	PASS
			106/54	11	22.61	30.00	PASS
802.1	1ax_HE20	M Ch1					•
					Max. Avg. Output		
СН	Freq.	Data	RU	Power	include tune up	Limit	RESULT
CII	(MHz)	Rate	Config	set	tolerance Power	(dBm)	INLOULI
					(dBm)		
			full	15.5	15.07	30.00	PASS
1	2412	MCS0	26/0	12	11.17	30.00	PASS
'	2412	IVICSU	52/37	12	11.26	30.00	PASS
			106/53	11.5	10.43	30.00	PASS
6	2437	MCS0	full	15.5	15.14	30.00	PASS
			full	15.5	15.37	30.00	PASS
11	2462	MCS0	26/8	12	11.87	30.00	PASS
''	2462	INICOU	52/40	11.5	11.67	30.00	PASS
			106/54	11	11.04	30.00	PASS

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

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



Page: 43 of 297

802.1	1ax_HE20	M MIMC)						
СН	Freq. (MHz)	Data Rate	RU Config	Power set		Output wer	Total Peak Output Power	Limit (dBm)	RESULT
	(IVIT12)	Nate	Coming	361	CH 0	CH 1	(dBm)	(ubiii)	
			full	15.5	23.58	22.92	26.27	30.00	PASS
1	2412	MCS0	26/0	12	23.96	22.55	26.32	30.00	PASS
'	2412	IVICSU	52/37	12	24.05	22.97	26.55	30.00	PASS
			106/53	11.5	24.23	22.76	26.57	30.00	PASS
6	2437	MCS0	full	15.5	23.81	23.19	26.52	30.00	PASS
			full	15.5	24.20	23.70	26.97	30.00	PASS
11	2462	MCS0	26/8	12	23.78	23.15	26.49	30.00	PASS
'''	2402	2402 IVICSU	52/40	11.5	23.81	22.77	26.33	30.00	PASS
			106/54	11	24.15	22.52	26.42	30.00	PASS
802.1°	1ax_HE20	M MIMC)	•			•		•
					A				
					Avg. C	Output	Max. Avg. Output		
СН	Freq.	Data	RU	Power	_	output wer	Max. Avg. Output include tune up	Limit	RESULT
СН	Freq. (MHz)	Data Rate	RU Config	Power set	Po	•		Limit (dBm)	RESULT
СН	•		_		Po	wer	include tune up	-	RESULT
СН	•		_		Po (dE	wer Bm)	include tune up tolerance Power	-	PASS
	(MHz)	Rate	Config	set	Pov (dE	wer Bm) CH 1	include tune up tolerance Power (dBm)	(dBm)	PASS PASS
CH 1	•		Config full	set 15.5	Por (dE CH 0	wer Bm) CH 1	include tune up tolerance Power (dBm) 18.40	(dBm) 30.00	PASS PASS PASS
	(MHz)	Rate	full 26/0	set 15.5 12	Po' (dE CH 0 15.36 11.83	wer 8m) CH 1 14.78	include tune up tolerance Power (dBm) 18.40 14.74	(dBm) 30.00 30.00	PASS PASS PASS PASS
	(MHz)	Rate	full 26/0 52/37	set 15.5 12 12	Por (dE CH 0 15.36 11.83 12.08	wer Bm) CH 1 14.78 10.95 11.06	include tune up tolerance Power (dBm) 18.40 14.74 14.92	(dBm) 30.00 30.00 30.00	PASS PASS PASS PASS PASS
1	(MHz)	Rate MCS0	full 26/0 52/37 106/53	15.5 12 12 11.5	Por (dE CH 0 15.36 11.83 12.08 11.18	wer Bm) CH 1 14.78 10.95 11.06 10.08	include tune up tolerance Power (dBm) 18.40 14.74 14.92 13.99	30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS PASS PASS
1 6	(MHz) 2412 2437	MCS0	full 26/0 52/37 106/53 full	15.5 12 12 11.5 15.5	Por (dE CH 0 15.36 11.83 12.08 11.18 15.45	wer Bm) CH 1 14.78 10.95 11.06 10.08 14.87	include tune up tolerance Power (dBm) 18.40 14.74 14.92 13.99 18.49	30.00 30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS PASS PASS PASS
1	(MHz)	Rate MCS0	full 26/0 52/37 106/53 full full	15.5 12 12 11.5 15.5 15.5	Por (dE CH 0 15.36 11.83 12.08 11.18 15.45 15.82	wer Bm) CH 1 14.78 10.95 11.06 10.08 14.87 15.03	include tune up tolerance Power (dBm) 18.40 14.74 14.92 13.99 18.49 18.77	30.00 30.00 30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS PASS PASS

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

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



Page: 44 of 297

802.1	1ax_HE40	M Ch0					
СН	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	15.5	23.78	30.00	PASS
3	2422	INICOU	242/61	12.5	23.55	30.00	PASS
6	2437	MCS0	full	15.5	23.84	30.00	PASS
7	2442	MCS0	full	15.5	23.75	30.00	PASS
8	2447	MCS0	full	13	21.19	30.00	PASS
9	2452	MCS0	full	13	20.82	30.00	PASS
,	2432	IVICOU	242/62	13	23.77	30.00	PASS
802.1	1ax_HE40	M Ch0					
					Max. Avg. Output		
СН	Freq.	Data	RU	Power	include tune up	Limit	RESULT
OII	(MHz)	Rate	Config	set	tolerance Power	(dBm)	KLOOLI
					(dBm)		
3	2422	MCS0	full	15.5	15.64	30.00	PASS
3	2722	IVICOU	242/61	12.5	11.96	30.00	PASS
6	2437	MCS0	full	15.5	15.77	30.00	PASS
7	2442	MCS0	full	15.5	15.65	30.00	PASS
8	2447	MCS0	full	13	13.14	30.00	PASS
9	2452	MCS0	full	13	12.94	30.00	PASS
,	2732	IVICOU	242/62	13	12.09	30.00	PASS

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

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

No 134 Witk Using Read New Taipe Industrial Park Witks District New Taip



Page: 45 of 297

802.1°	1ax_HE40	M Ch1					
СН	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	15.5	22.93	30.00	PASS
J	2422	IVICOU	242/61	12.5	23.37	30.00	PASS
6	2437	MCS0	full	15.5	23.27	30.00	PASS
7	2442	MCS0	full	15.5	23.13	30.00	PASS
8	2447	MCS0	full	13	20.23	30.00	PASS
9	2452	MCS0	full	13	20.67	30.00	PASS
,	2432	IVICOU	242/62	13	23.23	30.00	PASS
802.1°	1ax_HE40	M Ch1					
					Max. Avg. Output		
СН	Freq.	Data	RU	Power	include tune up	Limit	RESULT
011	(MHz)	Rate	Config	set	tolerance Power	(dBm)	KLOOLI
					(dBm)		
3	2422	MCS0	full	15.5	15.02	30.00	PASS
]	2722	IVICOU	242/61	12.5	11.45	30.00	PASS
6	2437	MCS0	full	15.5	15.15	30.00	PASS
7	2442	MCS0	full	15.5	15.03	30.00	PASS
8	2447	MCS0	full	13	12.56	30.00	PASS
9		MCS0	full	13	12.62	30.00	PASS
	2472	IVICOU	242/62	13	11.97	30.00	PASS

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

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery 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. Np.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司 t (886-2) 2299-3279 f (886-2) 2298-0488 www.sgs.com.tw



Page: 46 of 297

802.1°	1ax_HE40	м мімо)						
СН	Freq.	Data	RU	Power		Output wer	Total Peak Output Power	Limit	RESULT
	(MHz)	Rate	Config	set	CH 0	CH1	(dBm)	(dBm)	
3	2422	MCS0	full	15.5	23.66	23.11	26.40	30.00	PASS
J	2422	IVICSU	242/6	12.5	11.77	11.12	14.47	30.00	PASS
6	2437	MCS0	full	15.5	23.72	23.26	26.51	30.00	PASS
7	2442	MCS0	full	14	22.14	21.71	24.94	30.00	PASS
8	2447	MCS0	full	11.5	19.27	18.55	21.94	30.00	PASS
9	2452	MCS0	full	12	19.86	19.56	22.72	30.00	PASS
7	2432	IVICSU	242/6	13	23.37	23.36	26.38	30.00	PASS
302.1°	1ax_HE40	м мімо							
					Avg. C	Output	Max. Avg. Output		
СН	Freq.	Data	RU	Power	Po	wer	include tune up	Limit	RESULT
СП	(MHz)	Rate	Config	set	(dE	Bm)	tolerance Power	(dBm)	KESULI
					CH 0	CH 1	(dBm)		
3	2422	MCS0	full	15.5	15.43	14.83	18.34	30.00	PASS
3	2422	IVICSU	242/6	12.5	11.73	11.08	14.61	30.00	PASS
6	2437	MCS0	full	15.5	15.66	14.95	18.52	30.00	PASS
7	2442	MCS0	full	14	14.05	13.44	16.95	30.00	PASS
8	2447	MCS0	full	11.5	11.26	10.84	14.25	30.00	PASS
9	2452	MCS0	full	12	11.85	11.37	14.81	30.00	PASS
7	2402	IVICSU	242/6	13	11.98	11.96	15.17	30.00	PASS

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

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



Page: 47 of 297

9 EMISSION BANDWIDTH MEASUREMENT

9.1 Standard Applicable

The minimum 6 dB bandwidth shall be at least 500 kHz.

9.2 Measurement Equipment Used

Conducted Emission Test Site: Conducted 2						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUM- BER	LAST CAL.	CAL DUE.	
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60240503	12/11/2020	12/10/2021	
Attenuator	Mini-Circuit	BW- S10W2+	2	12/16/2020	12/15/2021	
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021	

9.3 Test Set-up



9.4 Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set the spectrum analyzer as

RBW = 100kHz.

VBW = 3 X RBW,

Span= 2 to 5 times of the OBW,

Sweep=auto,

Detector = Peak, and Max hold for -6dB Bandwidth test.

5. Set the spectrum analyzer as

RBW= 1 % to 5% of 99% Bandwidth,

VBW ≥ 3 X RBW,

Span= large enough to capture all products of the modulation process,

Sweep=auto.

Detector = Peak, and Max hold for 99% Bandwidth test.

- 6. Turn on the 99% bandwidth function, max reading.
- 7. Repeat above procedures until all test default channel is completed

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

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



Page: 48 of 297

9.5 6dB Bandwidth

CDD

802.11b Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	8075.00	> 500	PASS
2437	7578.00	> 500	PASS
2462	8070.00	> 500	PASS

802.11b Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	7594.00	> 500	PASS
2437	8078.00	> 500	PASS
2462	8078.00	> 500	PASS

802.11g Ch0

-			
Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16340.00	> 500	PASS
2437	16130.00	> 500	PASS
2462	15840.00	> 500	PASS

802.11q Ch1

9	•		
Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16370.00	> 500	PASS
2437	16350.00	> 500	PASS
2462	16340.00	> 500	PASS

802.11_n_HT20 Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	17340.00	> 500	PASS
2437	17230.00	> 500	PASS
2462	16670.00	> 500	PASS

802.11_n_HT20 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	17610.00	> 500	PASS
2437	17570.00	> 500	PASS
2462	17590.00	> 500	PASS

802.11 ax HE20 Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	18880.00	> 500	PASS
2437	18680.00	> 500	PASS
2462	18420.00	> 500	PASS

802.11_ax_HE20 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	18940.00	> 500	PASS
2437	18790.00	> 500	PASS
2462	18800.00	> 500	PASS

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

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



Page: 49 of 297

802.11 n HT40 Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result	
2422	35380.00	> 500	PASS	
2437	35180.00	> 500	PASS	
2452	35780.00	> 500	PASS	

802.11 n HT40 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35920.00	> 500	PASS
2437	35500.00	> 500	PASS
2452	36390.00	> 500	PASS

802.11_ax_HE40 Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	37330.00	> 500	PASS
2437	36620.00	> 500	PASS
2452	37980.00	> 500	PASS

802.11 ax HE40 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	37910.00	> 500	PASS
2437	37230.00	> 500	PASS
2452	38090.00	> 500	PASS

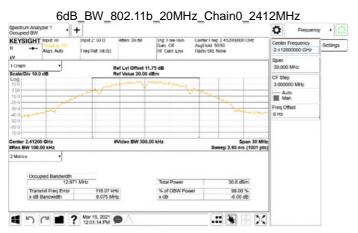
*Refer to next page for plots

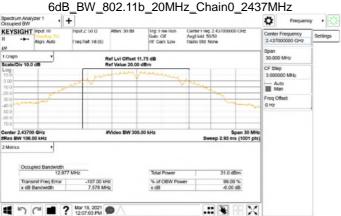
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

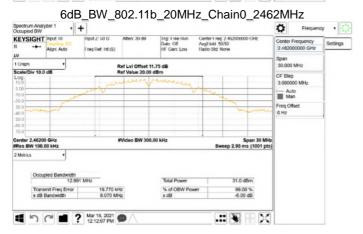
Np.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 www.sgs.com.tw

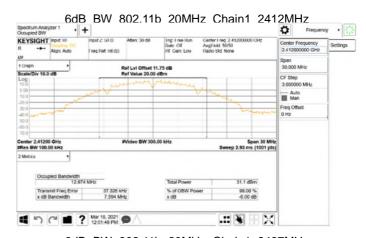


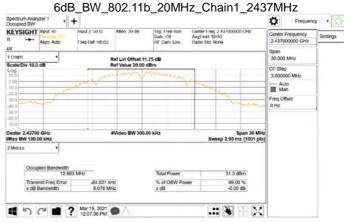
Page: 50 of 297

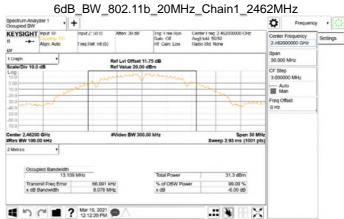












Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

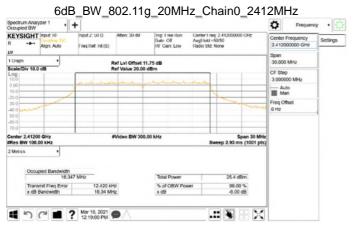
митутнику инкаламителя примежения и примеже issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

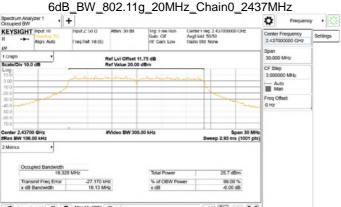
Np.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 www.sgs.com.tw

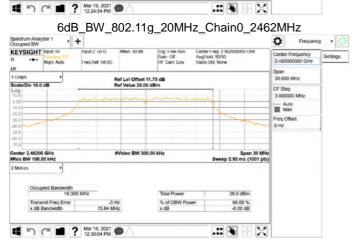
台灣檢驗科技股份有限公司 t (886-2) 2299-3279 f (886-2) 2298-0488

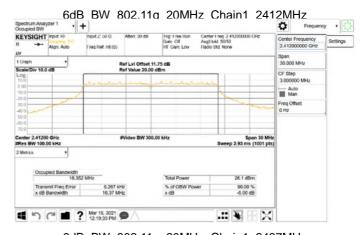


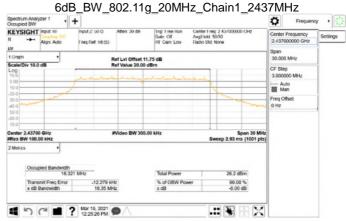
Page: 51 of 297

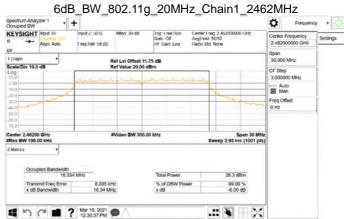












Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

митутнику инкаламителя примежения и примеже issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

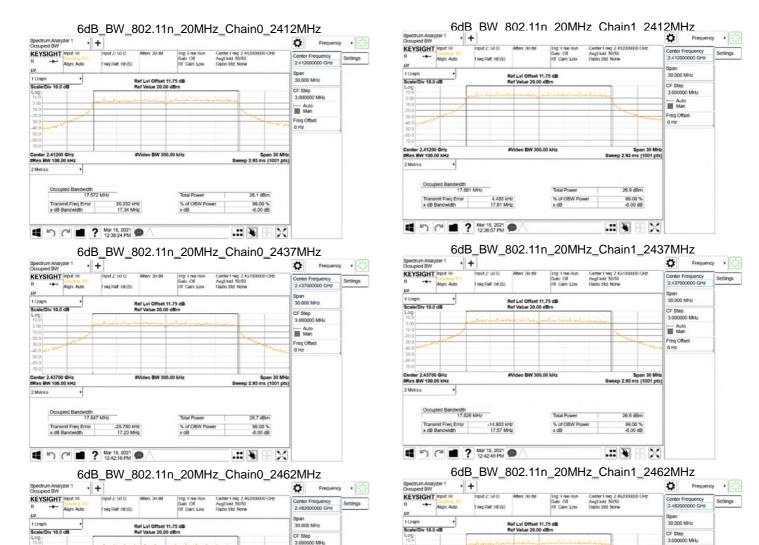
Np.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 f (886-2) 2298-0488 www.sgs.com.tw

台灣檢驗科技股份有限公司 t (886-2) 2299-3279

Member of SGS Group



Page: 52 of 297



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

.:: 🕞 🖫 🔀

Man Auto

Freq Offset 0 Hz

митутнику инкаламителя примежения и примеже issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Np.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司 t (886-2) 2299-3279 f (886-2) 2298-0488 www.sgs.com.tw

#Video BW 300.00 kHz

% of OBW Power x dB

Occupied Bandwidth 17.637 MHz

Transmit Freq Error x dB Bandwidth

4 5 C 2 7 Mar 15, 2021

Man Auto Freq Offset 0 Hz

.:: 🖫 🖫 🔀

Occupied Bandwidth 17,518 MHz

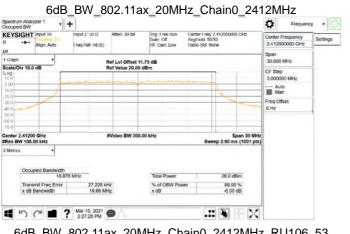
Transmit Freq Error 4.242 kHz x dB Bandwidth 16.67 MHz

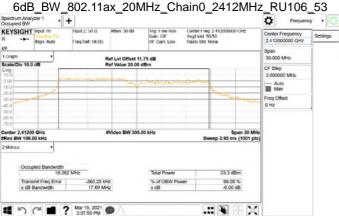
1 5 C 2 ? Mar 15, 2021 D

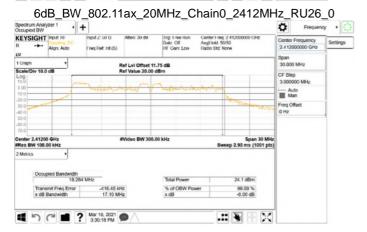
% of OBW Power x dB

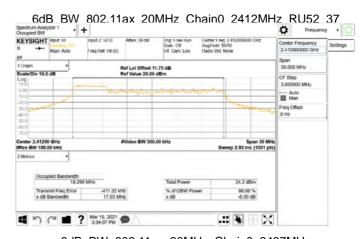


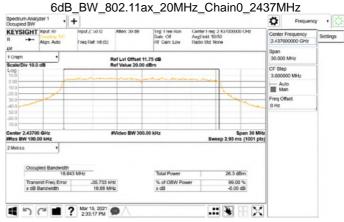
Page: 53 of 297

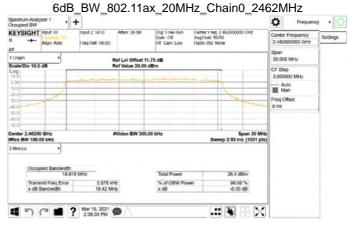












Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

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

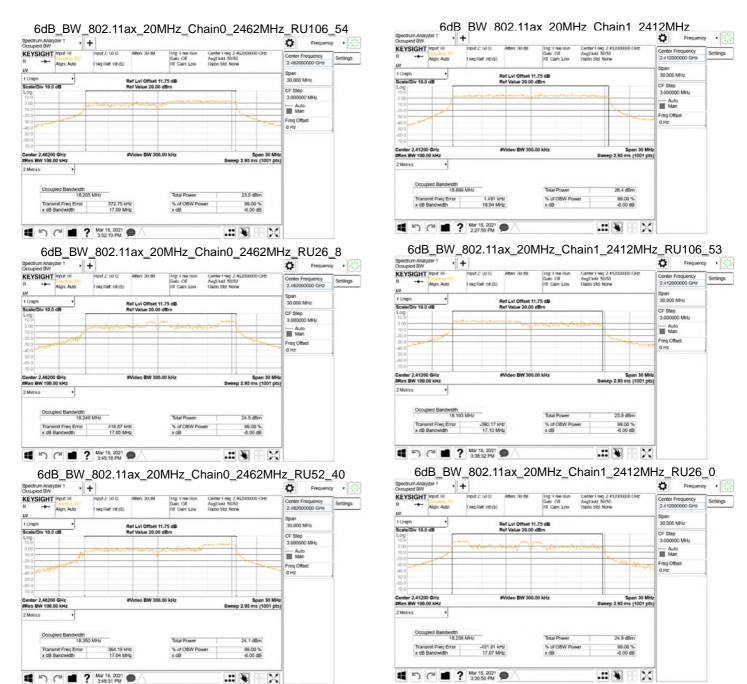
Np.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 f (886-2) 2298-0488 www.sgs.com.tw

台灣檢驗科技股份有限公司 t (886-2) 2299-3279

Member of SGS Group



Page: 54 of 297



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

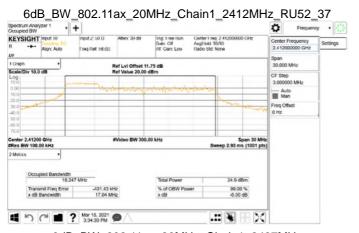
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions.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

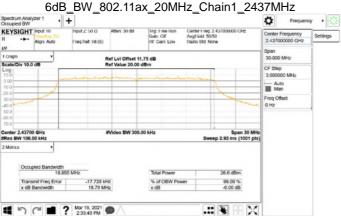
Np.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

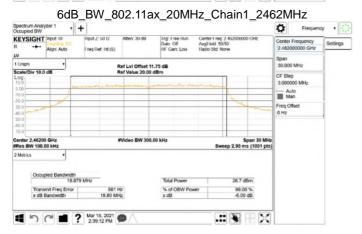
台灣檢驗科技股份有限公司 t (886-2) 2299-3279 f (886-2) 2298-0488 www.sgs.com.tw

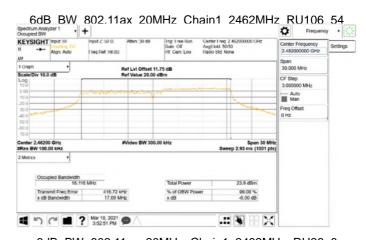


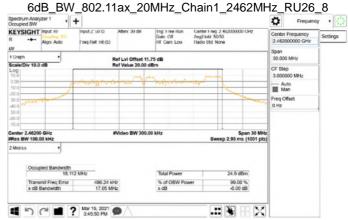
Page: 55 of 297

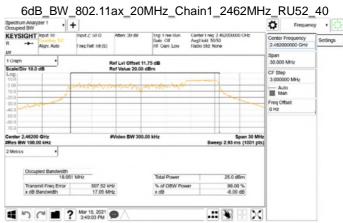












Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

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

Np.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 www.sgs.com.tw

台灣檢驗科技股份有限公司 t (886-2) 2299-3279 f (886-2) 2298-0488



Page: 56 of 297



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

.:: 🕞 🖫 🔀

This document is issued by the Company subject to its General Conditions of Seneral Cond

1 5 C 2 ? Mar 15, 2021 D

Tornia documents, subject to Terris and Conditions of Electronic Documents at http://www.sgs.com.tw/. Attention is drawn to the limitation of liability, indertinination and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery 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 C ■ ? Mar 15, 2021 ●

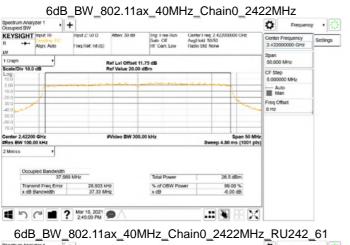
SGS Taiwan Ltd. Np.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

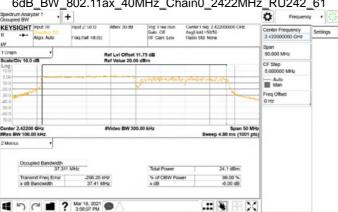
台灣檢驗科技股份有限公司 t (886-2) 2299-3279 f (886-2) 2298-0488 www.sgs.com.tw

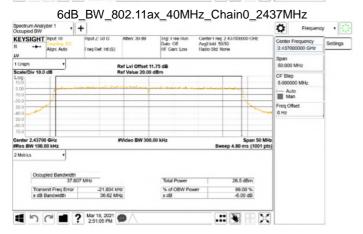
.:: 🖫 🖫 🔀

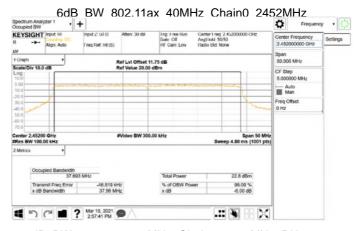


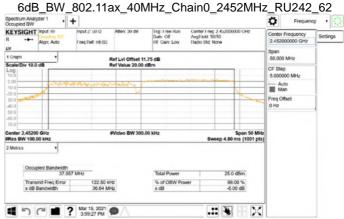
Page: 57 of 297

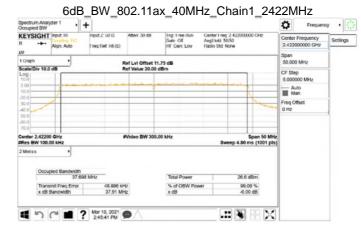












Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

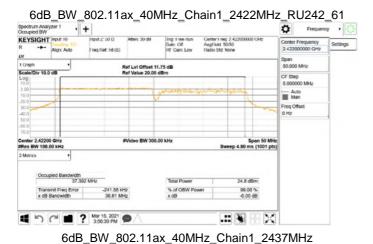
митутнику инкаламителя примежения и примеже issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

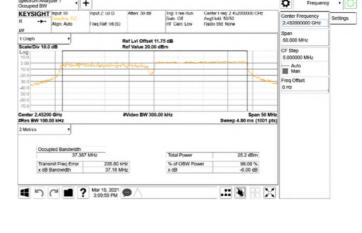
Np.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 www.sgs.com.tw

台灣檢驗科技股份有限公司 t (886-2) 2299-3279 f (886-2) 2298-0488

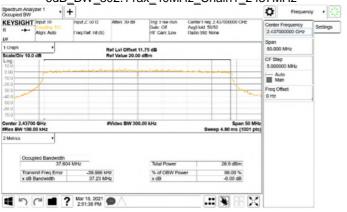


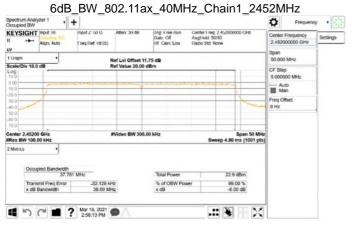
Page: 58 of 297





6dB BW 802.11ax 40MHz Chain1 2452MHz RU242 62





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

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

Np.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 f (886-2) 2298-0488 www.sgs.com.tw



Page: 59 of 297

Beamforming

802.11 n HT20 Ch0

002.11			
Freq.	6dB BW	Limit	Result
(MHz)	(kHz)	(kHz)	Nesuit
2412	17360.00	> 500	PASS
2437	17190.00	> 500	PASS
2462	16930.00	> 500	PASS

802.11_n_HT20 Ch1

Freq.	6dB BW	Limit	Result
(MHz)	(kHz)	(kHz)	Nesuit
2412	17620.00	> 500	PASS
2437	17590.00	> 500	PASS
2462	17560.00	> 500	PASS

802.11 n HT40 Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35350.00	> 500	PASS
2437	35180.00	> 500	PASS
2452	35950.00	> 500	PASS

802.11 n HT40 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35920.00	> 500	PASS
2437	35140.00	> 500	PASS
2452	36380.00	> 500	PASS

802.11 ax HE20 Ch0

002111_dx_11220 0110			
Freq.	6dB BW	Limit	Result
(MHz)	(kHz)	(kHz)	Result
2412	18970.00	> 500	PASS
2437	18780.00	> 500	PASS
2462	18460.00	> 500	PASS

802.11 ax HE20 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	18930.00	> 500	PASS
2437	18900.00	> 500	PASS
2462	18810.00	> 500	PASS

802.11 ax HE40 Ch0

Freq.	6dB BW	Limit	Decult
(MHz)	(kHz)	(kHz)	Result
2422	36540.00	> 500	PASS
2437	37250.00	> 500	PASS
2452	37980.00	> 500	PASS

802.11 ax HE40 Ch1

OUZ. II_ax_IIL+O OIII				
Freq.	6dB BW	Limit	Result	
(MHz)	(kHz)	(kHz)	Resuit	
2422	37800.00	> 500	PASS	
2437	37220.00	> 500	PASS	
2452	38040.00	> 500	PASS	

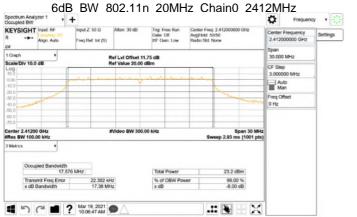
Member of SGS Group

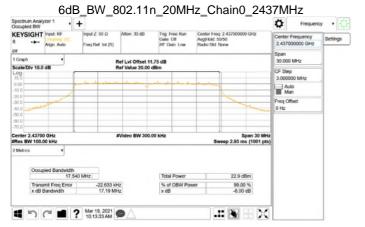
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

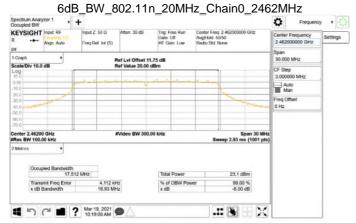
所持方式就明・北東古台名米国列風之体の現実、日内野山保の国際不留の人。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

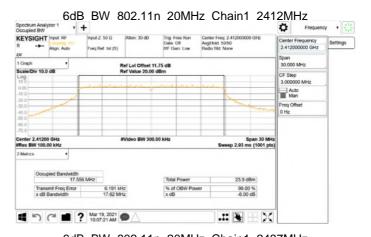


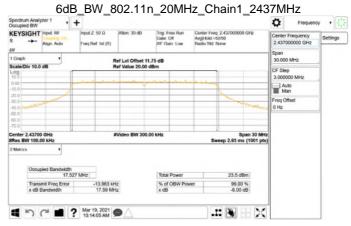
Report No.: ER/2021/20091 Page: 60 of 297

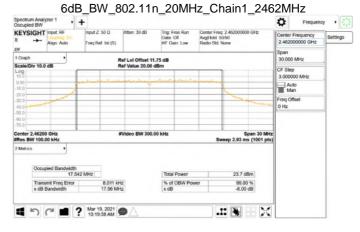










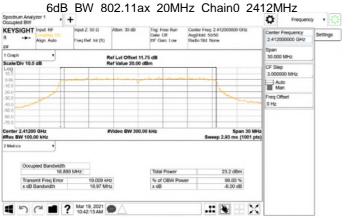


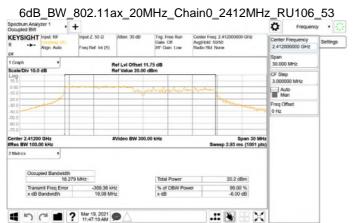
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

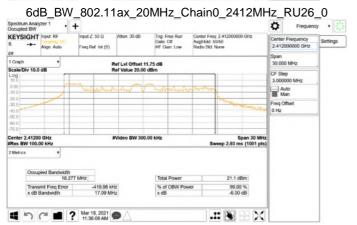
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions.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

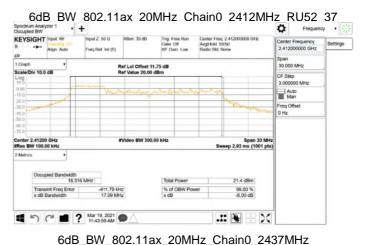


Report No.: ER/2021/20091 Page: 61 of 297

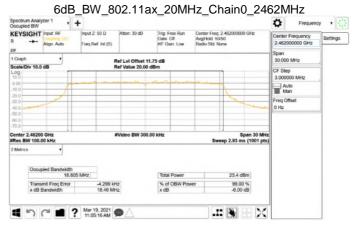












Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

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

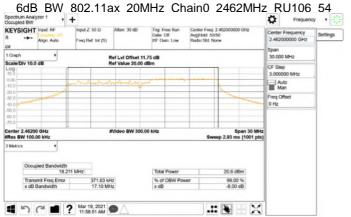
SGS Taiwan Ltd. Np.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 f (886-2) 2298-0488

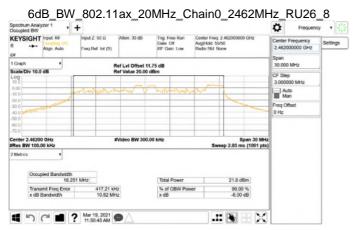
台灣檢驗科技股份有限公司 t (886-2) 2299-3279

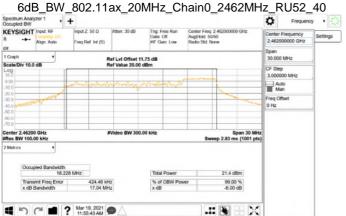
www.sgs.com.tw Member of SGS Group

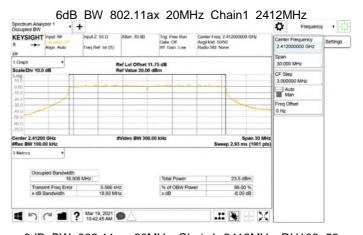


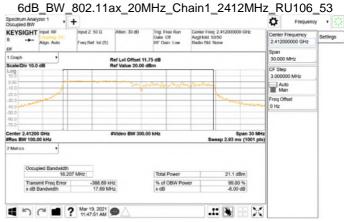
Report No.: ER/2021/20091 Page: 62 of 297

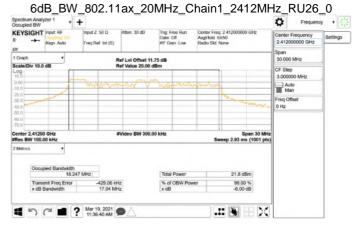










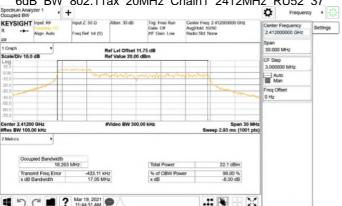


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

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



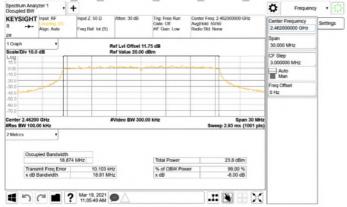
6dB BW 802.11ax 20MHz Chain1 2412MHz RU52 37



6dB_BW_802.11ax_20MHz_Chain1_2437MHz

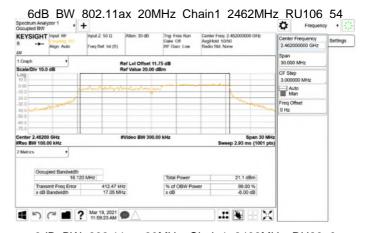


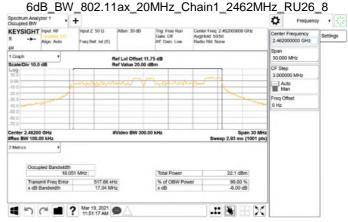
6dB_BW_802.11ax_20MHz_Chain1_2462MHz

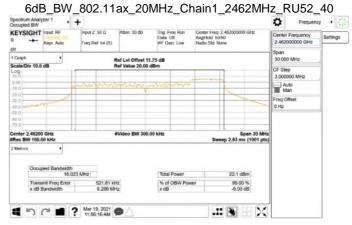


Report No.: ER/2021/20091

Page: 63 of 297





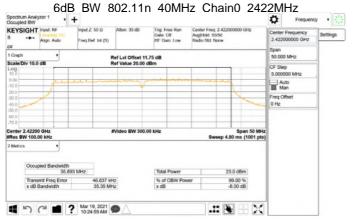


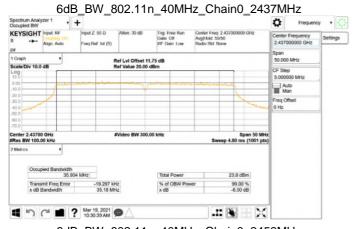
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

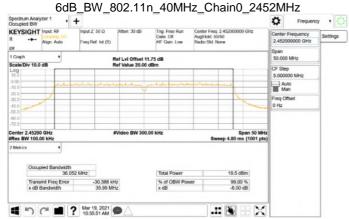
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions.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

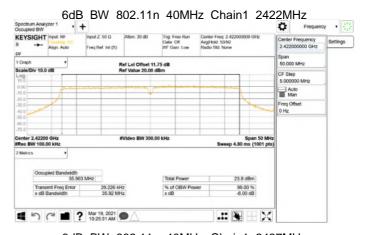


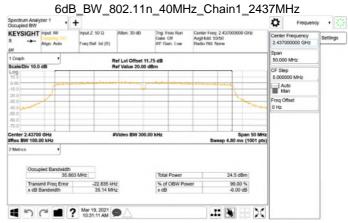
Report No.: ER/2021/20091 Page: 64 of 297

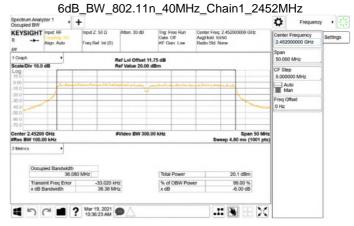










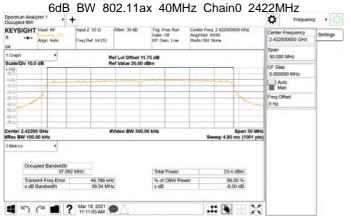


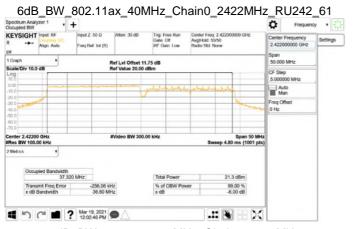
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

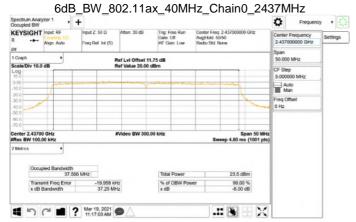
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions.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

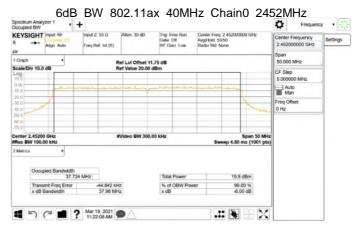


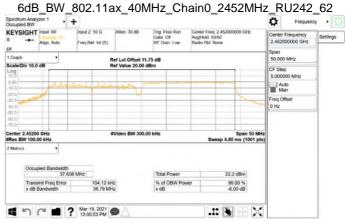
Page: 65 of 297

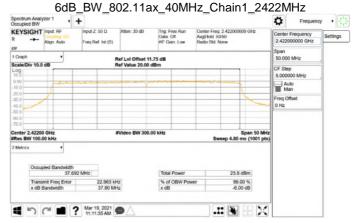










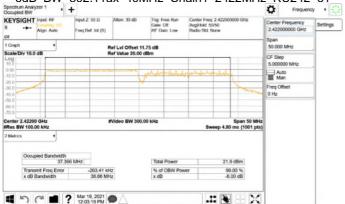


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

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



6dB BW 802.11ax 40MHz Chain1 2422MHz RU242 61

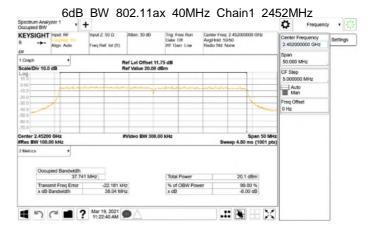


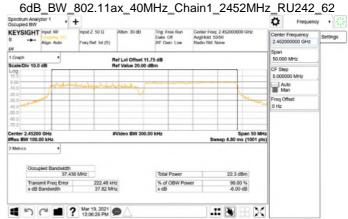




Report No.:ER/2021/20091

Page: 66 of 297





Member of SGS Group

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

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's special special



Page: 67 of 297

9.6 99% Bandwidth

CDD

802.11b Ch0		
Freq.	99% BW	
(MHz)	(MHz)	
2412	13.008	
2437	13.014	
2462	13.001	

802.11b Ch1		
Freq. 99% BW		
(MHz)	(MHz)	
2412	13.026	
2437	12.994	
2462	13.117	

802.11g Ch0	
Freq.	99% BW
(MHz)	(MHz)
2412	16.468
2437	16.461
2462	16.389

802.11g Ch1	
Freq.	99% BW
(MHz)	(MHz)
2412	16.429
2437	16.375
2462	16.41

802.11n_HT20M Ch0	
Freq.	99% BW
(MHz)	(MHz)
2412	17.637
2437	17.582
2462	17.544

802.11n_HT20M Ch1	
Freq.	99% BW
(MHz)	(MHz)
2412	17.598
2437	17.541
2462	17.568

802.11ax_HE20M Ch0	
Freq.	99% BW
(MHz)	(MHz)
2412	18.959
2437	18.891
2462	18.868

802.11ax_HE20M Ch1	
Freq.	99% BW
(MHz)	(MHz)
2412	18.962
2437	18.906
2462	18.904

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

Np.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 台灣檢驗科技股份有限公司 t (886-2) 2299-3279



Page: 68 of 297

802.11n_HT40M Ch0	
Freq. 99% BW	
(MHz)	(MHz)
2422	35.977
2437	36.031
2452	36.162

802.11n_HT40M Ch1	
Freq.	99% BW
(MHz)	(MHz)
2422	35.961
2437	35.859
2452	36.112

802.11ax_HE40M Ch0	
Freq.	99% BW
(MHz)	(MHz)
2422	37.634
2437	37.657
2452	37.739

802.11ax_HE40M Ch1	
Freq.	99% BW
(MHz)	(MHz)
2422	37.732
2437	37.636
2452	37.83

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



Page: 69 of 297

99%_BW_802.11b_20MHz_Chain0_2412MHz 99%_BW_802.11b_20MHz_Chain1_2412MHz ٥ Frequency v ٥ KEYSIGHT Input RE R Alem Au Center Frequency Settings 2.412000000 GHz Center Frequency Settings Span 30,000 MHz Span 30.000 MHz Scale/Div 10.0 dB Scale/Div 10.0 dB OF Step 3.000000 MHz CF Step 3.000000 MHz Auto Man Auto Man Freq Offset 0 Hz Freq Offset 0 Hz Center 2.41200 GHz MR#s BW 300.00 kHz Center 2.41200 GHz SRes BW 300,00 kHz #Video BW 1.0000 MH #Video BW 1.0000 MHz Span 30 MH: Sweep 1.07 ms (1001 pts Span 30 MH Sweep 1.07 ms (1001 pts Occupied Bandwidth 13 008 MHz Occupied Bandwidth 13,026 MHz 27.2 dBm % of OBW Power x dB % of OBW Power x dB Transmit Freq Error x dB Bandwidth 99.00 % -6.00 dB 59.00 % -6.00 dB 1 5 C 2 7 Mar 15, 2021 .: W = X 1 5 C 2 12.05.58 PM .:: 🕦 ::: × 99% BW_802.11b_20MHz_Chain0_2437MHz 99%_BW_802.11b_20MHz_Chain1_2437MHz Ö Ö KEYSIGHT INDUK RE KEYSIGHT Input RE Center Frequency Settings 2.437000000 GHz Freq Ref. Int (5) Freq Ref. Int (S) Span 30.000 MH Span 30,000 MHz Ref Lvl Offset 11.75 dB Ref Value 20.00 dBm Ref Lvi Offset 11.75 dB Ref Value 20.00 dBm Div 15.0 dB Div 15.0 dB CF Step CF Step 3.000000 MHz Man Auto Auto Man Span 30 M ep 1.07 ms (1001 n Span 30 Mi Sweep 1.07 ms (1001 pt Occupied Bandwidth 13,014 MHz Occupied Bandwidth 12,994 MHz % of OBW Power x dB Transmit Freq Error x dB Bandwidth % of OBW Power x dB Transmit Freq Error x dB Bandwidth 99.00 % -6.00 dB 99.00 % -6.00 dB ■ 9 Mar 15, 2021 ● .: 🖫 - X ■ 5 C ■ ? Mar 15, 2021 ● .:: 🕦 --- 💢 99%_BW_802.11b_20MHz_Chain0_2462MHz 99%_BW_802.11b_20MHz_Chain1_2462MHz Frequency v 315 ٥ ٠ KEYSIGHT INDUE RE KEYSIGHT Input RE 30.000 MH span 30.000 MHz Ref Lvl Offset 11.75 dB Ref Value 20.00 dBm Scale/Div 15.0 dB CF Step 3.000000 MHz CF Step 3.000000 MHz Auto Auto Man Freq Offset 0 Hz Freq Offset 0 Hz #Video BW 1,0000 MH: #Video BW 1.0000 MHz Occupied Bandwidth 13,001 MHz Occupied Bandwidth 13.117 MHz 27.3 dBm Transmit Freq Error x dB Bandwidth % of OBW Power x dB % of OBW Power x dB 99.00 % -6.00 dB 59.00 % -6.00 dB

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

.: W = X

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

■ 9 Mar 15, 2021 ●

1 5 C 2 2 12:16:49 PM

.: W H X



Page: 70 of 297



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

.: W = X

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

■ ? Mar 15, 2021 ●

1 9 C 1 ? Mar 15, 2021

.:: 🕦 🕾 🗙



Page: 71 of 297



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

.: W - X

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

Np.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

■ ? Mar 15, 2021 ●

■ 9 C ■ ? Mar 15, 2021 ●

.:: 🕦 -- X



Page: 72 of 297



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

.: W X

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

Np.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

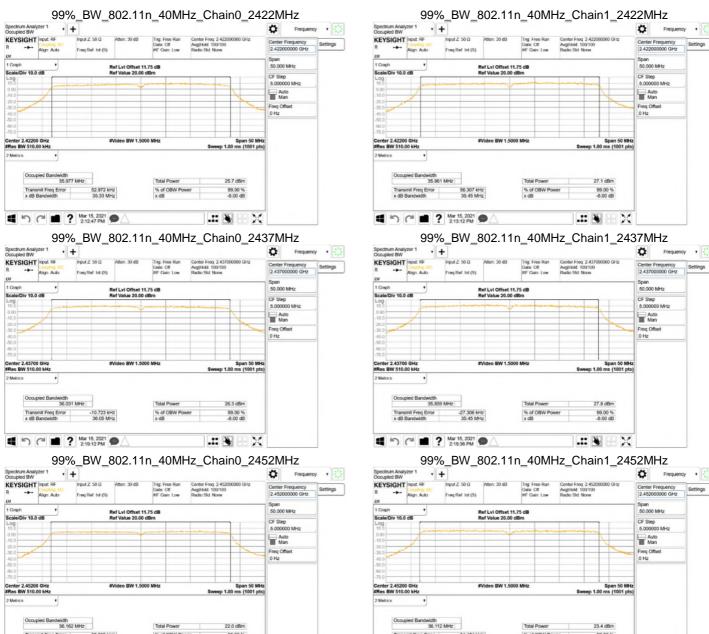
■ ? Mar 15, 2021 ●

■ 9 C ■ ? Mar 15, 2021 ●

.: W - X



Page: 73 of 297



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

22.0 dBm

99.00 % -6.00 dB

.: W = X

% of OBW Power x dB

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

Np.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

Transmit Freq Error x dB Bandwidth

■ ? Mar 15, 2021 ●

■ 9 C ■ ? Mar 15, 2021 ●

% of OBW Power x dB

59.00 % -6.00 dB

.:: 🕦 -- X



Page: 74 of 297



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

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



Page: 75 of 297

Beamforming

802.11n_HT20M Ch0		
Freq. 99% BW		
(MHz)	(MHz)	
2412	17.641	
2437	17.578	
2462	17.538	

802.11n_HT20M Ch1			
Freq. 99% BW			
(MHz)	(MHz)		
2412	17.603		
2437	17.537		
2462	17.571		

802.11n_HT40M Ch0		
Freq. 99% BW		
(MHz)	(MHz)	
2422	35.998	
2437	36.012	
2452	36.142	

802.11n_HT40M Ch1		
Freq. 99% BW		
(MHz)	(MHz)	
2422	35.994	
2437	35.887	
2452	36.125	

802.11ax_HE20M Ch0		
Freq. 99% BW		
(MHz)	(MHz)	
2412	18.94	
2437	18.892	
2462	18.867	

802.11ax_HE20M Ch1		
Freq. 99% BW		
(MHz)	(MHz)	
2412	18.961	
2437	18.884	
2462	18.923	

802.11ax_HE40M Ch0		
Freq. 99% BW		
(MHz)	(MHz)	
2422	37.602	
2437	37.644	
2452	37.753	

802.11ax_HE40M Ch1		
Freq. 99% BW		
(MHz)	(MHz)	
2422	37.741	
2437	37.635	
2452	37.854	

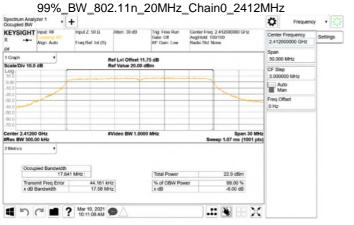
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

除非另有說明,比報告結果僅對測試之樣品負責,同時此報品性條留別大。本報告未經本公司書面評可,不可能份複聚。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's solo responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

No_I134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 台灣檢驗科技股份有限公司 t (886-2) 2299-3279 f (886-2) 2298-0488 www.sgs.com.tw



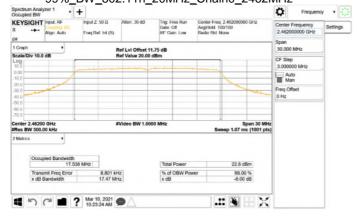
Page: 76 of 297



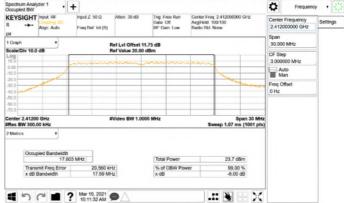




99%_BW_802.11n_20MHz_Chain0_2462MHz



99% BW 802.11n 20MHz Chain1 2412MHz



99%_BW_802.11n_20MHz_Chain1_2437MHz



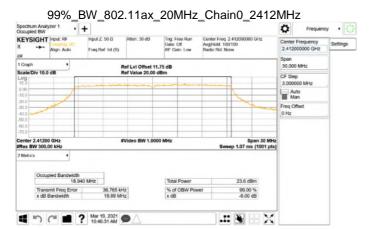
99%_BW_802.11n_20MHz_Chain1_2462MHz



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



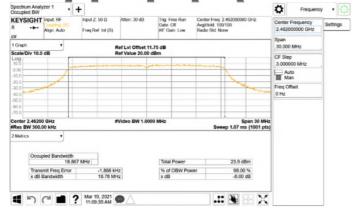
Page: 77 of 297







99%_BW_802.11ax_20MHz_Chain0_2462MHz



99% BW 802.11ax 20MHz Chain1 2412MHz



99%_BW_802.11ax_20MHz_Chain1_2437MHz



99%_BW_802.11ax_20MHz_Chain1_2462MHz

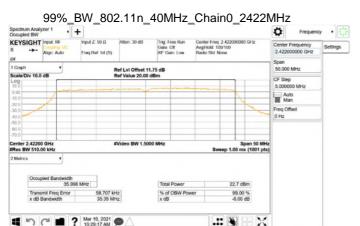


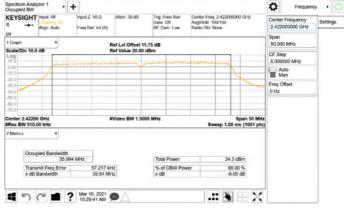
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



99% BW 802.11n 40MHz Chain1 2422MHz

Page: 78 of 297

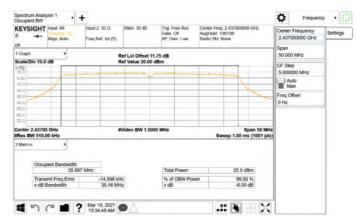




99% BW_802.11n_40MHz_Chain0_2437MHz

99%_BW_802.11n_40MHz_Chain1_2437MHz

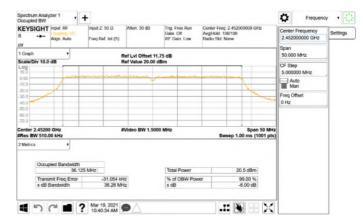




99%_BW_802.11n_40MHz_Chain0_2452MHz

99%_BW_802.11n_40MHz_Chain1_2452MHz





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



Page: 79 of 297



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



Page: 80 of 297

10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a) & RSS-Gen §8.10, must also comply with the radiated emission limits specified in §15.209(a) & RSS-Gen **§8.9.**

10.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT MFR		MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
EXA Spectrum Ana- lyzer	KEYSIGHT	N9010B	MY60240503	12/11/2020	12/10/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021

10.3 Test SET-UP



10.4 Measurement Procedure

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

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

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

No_i134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 www.sgs.com.tw



Page: 81 of 297

Reference Level of Emission Limit:

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Set the span to 1.5 times the DTS channel bandwidth.
- 4. Set the RBW = 100kHz & VBW = 300 kHz.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. MIMO mode: offset is set following "measure and add 10 Log (N)" on spectrum to measure for MIMO mode. Offset = cable loss + $10 \log (N)$, where N is number of transmitting antenna.

Conducted Band Edge:

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
- 5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
- 6. Mark the highest reading of the emission as the reference level measurement.
- 7. Set DL as the limit = reading on marker of reference level measurement 20dBm
- 8. Mark the highest readings of the emissions outside of 2400MHz~2483.5MHz.
- 9. Repeat above procedures until all default test channel (low, middle, and high) was complete.
- 10. MIMO mode: offset is set following "measure and add 10 Log (N)" on spectrum to measure for MIMO mode. Offset = cable loss + $10 \log (N)$, where N is number of transmitting antenna.

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

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

See Taliana the August May December 1 and 1974 and 1974

No_i134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/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.sgs.com.tw



Page: 82 of 297

Conducted Spurious Emission:

- 1. To connect Antenna Port of EUT to Spectrum
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guid-
- 3. Set RBW = 100 kHz & VBW= 300 kHz, Detector = Peak, Sweep = Auto.
- 4. Allow trace to fully stabilize.
- 5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
- 6. Repeat above procedures until all default test channel measured were complete.
- 7. MIMO mode: offset is set following "measure and add 10 Log (N)" on spectrum to measure for MIMO mode. Offset = cable loss + $10 \log (N)$, where N is number of transmitting antenna.

Note:

For test of MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

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

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

No_I134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 台灣檢驗科技股份有限公司 t (886-2) 2299-3279 www.sgs.com.tw



10.5 Measurement Result

CDD

Reference Level of Limit 802.11b mode		
Freq.	PSD	Reference Level of Limit
(MHz)	(dBm)	(dBm)
2412	18.72	-1.28
2437	18.93	-1.07
2462	18.89	-1.11

Reference Level of Limit 802.11g mode		
Freq.	PSD	Reference Level of Limit
(MHz)	(dBm)	(dBm)
2412	10.35	-9.65
2437	10.69	-9.31
2462	11.28	-8.72

Reference Level of Limit 802.11n20 mode		
Freq.	PSD	Reference Level of Limit
(MHz)	(dBm)	(dBm)
2412	10.94	-9.06
2437	10.47	-9.53
2462	11.39	-8.61

Report No.: ER/2021/20091

Page: 83 of 297

Reference Level of Limit 802.11ax20 mode			
Freq.	PSD	Reference Level of Limit	
(MHz)	(dBm)	(dBm)	
2412	9.82	-10.18	
2437	9.93	-10.07	
2462	10.56	-9.44	

Reference Level of Limit 802.11n40 MODE			
Freq.	PSD	Reference Level of Limit	
(MHz)	(dBm)	(dBm)	
2422	8.35	-11.65	
2437	8.79	-11.21	
2452	4.1	-15.90	

Reference Level of Limit 802.11ax40 MODE			
Freq.	PSD	Reference Level of Limit	
(MHz)	(dBm)	(dBm)	
2422	8.24	-11.76	
2437	7.34	-12.66	
2452	3.76	-16.24	

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

除非另有說明,比報告結果僅對測試之樣品負責,同時此帳品性條留則大。本報告未經本公司書面評可,不可能的複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

CST Taiwan Ital*

**Not 134 Witk User Poad New Taiwai (Instrict New Taiwai (Instruct N

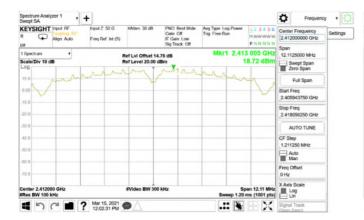
No_I134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 t (886-2) 2299-3279 f (886-2) 2298-0488

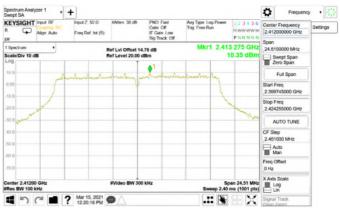


Page: 84 of 297

Reference Level_802.11b_20MHz_Chain0_2412MHz

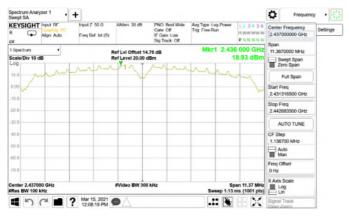
Reference Level_802.11g_20MHz_Chain0_2412MHz





Reference Level_802.11b_20MHz_Chain0_2437MHz

Reference Level_802.11g_20MHz_Chain0_2437MHz

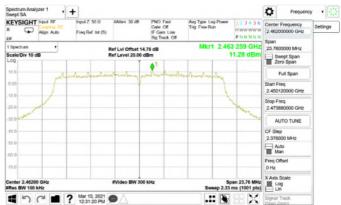




Reference Level_802.11b_20MHz_Chain0_2462MHz

Reference Level 802.11g 20MHz Chain0 2462MHz





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

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



Page: 85 of 297

Reference Level_802.11n_20MHz_Chain0_2412MHz

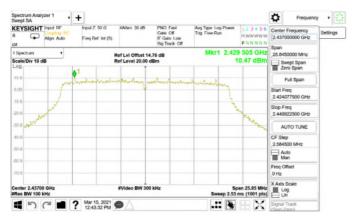
Reference Level_802.11ax_20MHz_Chain0_2412MHz

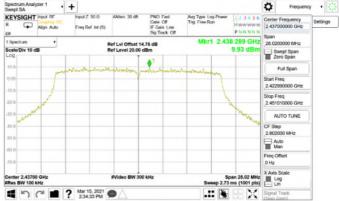




Reference Level_802.11n_20MHz_Chain0_2437MHz

Reference Level_802.11ax_20MHz_Chain0_2437MHz

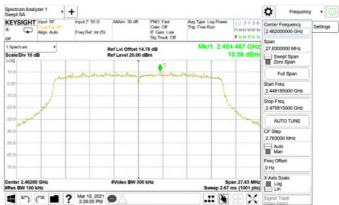




Reference Level_802.11n_20MHz_Chain0_2462MHz

Reference Level_802.11ax_20MHz_Chain0_2462MHz





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

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

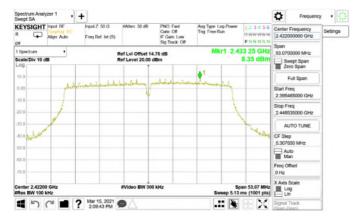
SS Taiwan Ltd. No_l134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

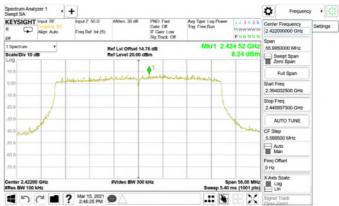


Page: 86 of 297

Reference Level_802.11n_40MHz_Chain0_2422MHz

Reference Level_802.11ax_40MHz_Chain0_2422MHz

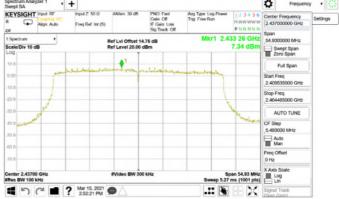




Reference Level_802.11n_40MHz_Chain0_2437MHz

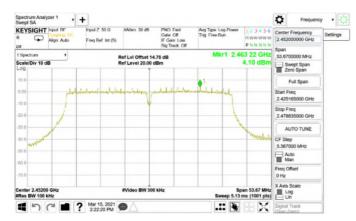
Reference Level_802.11ax_40MHz_Chain0_2437MHz

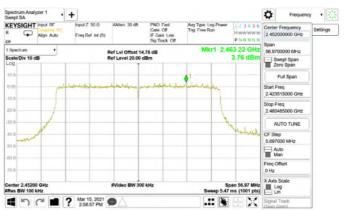




Reference Level_802.11n_40MHz_Chain0_2452MHz

Reference Level_802.11ax_40MHz_Chain0_2452MHz





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

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

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

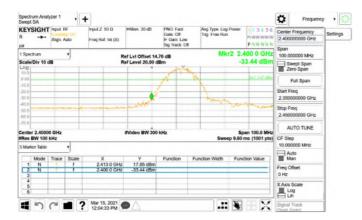
No_I134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號



Page: 87 of 297

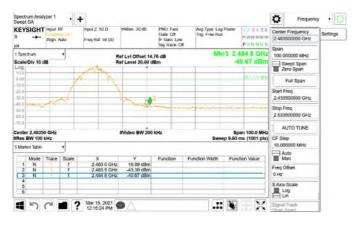
Bandedge_802.11b_20MHz_Chain0_2412MHz

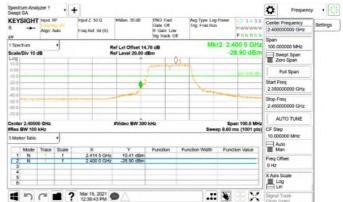
Bandedge_802.11g_20MHz_Chain0_2462MHz



Bandedge_802.11b_20MHz_Chain0_2462MHz

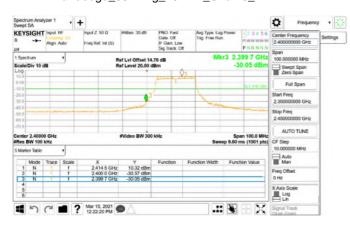
Bandedge_802.11n_20MHz_Chain0_2412MHz





Bandedge_802.11g_20MHz_Chain0_2412MHz

Bandedge_802.11n_20MHz_Chain0_2462MHz





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

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

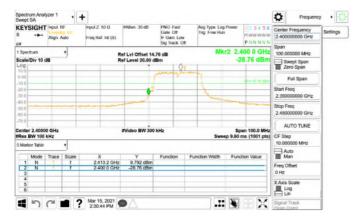
td. No_l134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號



Page: 88 of 297

Bandedge_802.11ax_20MHz_Chain0_2412MHz

Bandedge_802.11n_40MHz_Chain0_2452MHz

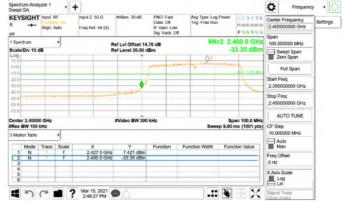


KEYSIGHT Input F 2,483 5 GHz Ref Lvi Offset 14.76 dB Ref Level 20.00 dBm Swept Span Zero Span Stop Freq 2.533500000 GHz AUTO TUNE Freq Offse 0 Hz X Axis Sc 1 5 C 1 ? Mar 15, 2021 9 .:: 🔻

Bandedge_802.11ax_20MHz_Chain0_2462MHz

Bandedge_802.11ax_40MHz_Chain0_2422MHz

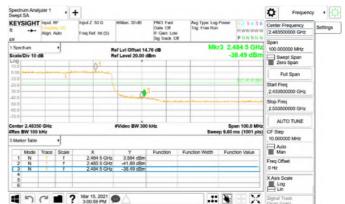




Bandedge 802.11n 40MHz Chain0 2422MHz

Bandedge_802.11ax_40MHz_Chain0_2452MHz





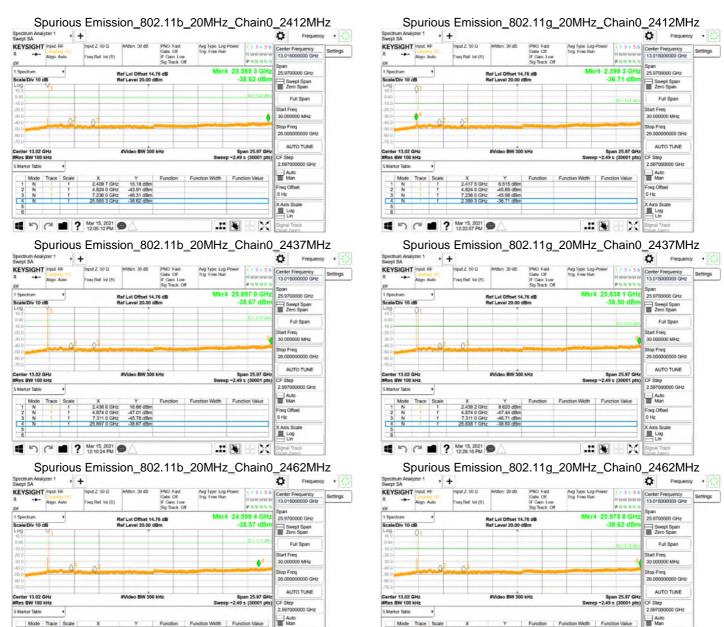
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

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

No₁134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/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.sgs.com.tw



Page: 89 of 297



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

X Axis Sca

×

.:: 🔖

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

No_I134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 www.sgs.com.tw

X Axis Scale

 $\pm \times$

.:: 🦠