

Report No.: SEWA2210000060RG05

Rev.: 01

Page: 1 of 334

TEST REPORT

Application No.: SEWA2210000060RG

Applicant: Quectel Wireless Solutions Co., Ltd.

Address of Applicant:

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road,
Minhang District, Shanghai 200223, China

Minhang District, Shanghai 200233, China

Manufacturer: Quectel Wireless Solutions Co., Ltd.

Address of Manufacturer: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road,

Minhang District, Shanghai 200233, China

EUT Description: Smart Module

Model No.: SC262R-NA

Trade Mark: QUECTEL

FCC ID: XMR2022SC262RNA

Standards: FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart E

Date of Receipt: 2022/10/16

Date of Test: 2022/10/23 to 2022/11/21

Date of Issue: 2022/11/21

Test Result : PASS *

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Panta Sun Wireless Laboratory Manager



Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.aspx.and. for electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions-and-Conditions-And-Conditions-And-Conditions-And-Conditions-and-Conditions-And-Conditions

or email: CN.Doccheck@sgs.com
I South of No. 6 Plant. No. 1. Runsheno Road. Suzhou Industrial Park. Suzhou Area. China (Jiangsu) Pilot Free Trade Zone 215000

中国・苏州・中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路(号的6号厂房南部 邮编: 215000



Report No.: SEWA2210000060RG05

Rev.: 01

2 of 334 Page:

Version 1

Revision Record					
Version Chapter Date Modifier Remark					
01		2022/11/21		Original	

Prepared By	(Ives Cheng) / Test Engineer
Checked By	(Well Wei) / Reviewer



Unless otherwise agreed in writing, 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/en/Terms-and-Conditions for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CND Doccheck@ass.com.

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

t (86-512) 62992980

t (86-512) 62992980 www.sgsgroup.com.cn sgs.china@sgs.com



Report No.: SEWA2210000060RG05

Rev.: 01 Page: 3 of 334

2 Test Summary

Z rest Summary						
Test Item	Band ^[1]	FCC rules No.	Test Requirements	Test Result	Result	
Antenna Requirement		15.203/15.407(a)	1	Clause 4.1	PASS	
	Band I	15.407(a)(1)		Clause 4.5		
26dB Emission	Band II- A	15.407(a)(2)	No limit.		Reporting only	
Bandwidth	Band II- C	15.407(a)(2)		4.5	Offig	
6dB Emission Bandwidth	Band III	15.407(e)	≥ 500 kHz.	Clause 4.6	PASS	
99% Occupied Bandwidth	Band II-A Band III-C Band III	KDB 789033 D02§ D	No limit.	Clause 4.7	Reporting only	
Duty Cycle	Band I Band II- A Band II- C Band III		No limit.	Clause 4.3	Reporting only	
	Band I	15.407(a)	< 250mW			
Maximum Conducted Output Power	Band II- A Band II- C	15.407(a)(2)	<min{250mw,11dbm+10*lg(ebw)}< td=""><td>Clause 4.4</td><td>PASS</td></min{250mw,11dbm+10*lg(ebw)}<>	Clause 4.4	PASS	
	Band III	15.407(a)(3)	< 1W			
	Band I	15.407(a)	<11dBm/MHz			
Maximum Power Spectral Density	Band II- A Band II- C	15/11/121/21 \rightarrow 11/18\text{RM/MH7}		Clause 4.8	PASS	
	Band III	15.407(a)(3)	<30dBm/500KHz			
Unwanted Emissions that fall Out of the	Band I	15.209 15.407(b)	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.15-5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).	Clause	PASS	
Restricted Bands (Radiated)	Band II- A	15.407(b) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.25-5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).	4.9	PASS	



Unless otherwise agreed in writing, 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/en/Terms-and-Conditions and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CND Doccheck@ass.com.

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Plot Free Trade Zone 中国 - 苏州 - 中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000



Report No.: SEWA2210000060RG05

Rev.: 01 Page: 4 of 334

		E 4011		
Band II- C	15.407(b) 15.209	F<1GHZ: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.47- 5.725 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		PASS
Band III	15.407(b) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP) F≥1GHz &out-restricted:(QP) a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges; b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges; c) 10 dBm/MHz at 25 MHz above or below the band edges; c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges. F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		PASS
Band II- A Band II- C Band III	15.209		Clause 4.10	PASS
Band I Band II- A Band II- C Band III	15.207		Clause 4.2	PASS
Band II- A Band II- C	15.407	Channel Move Time:10 Seconds	Clause 4.11	PASS
Band II- A Band II- C Band III	15.407(g)	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual	N/A	N/A
	Band III Band III Band III Band III Band III Band III C Band III C Band III A Band III C Band III A Band III C Band III C Band III C Band III C Band III C	Band III	Band II- C 15.407(b) 15.209 F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (ext. 5.47-5.725 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK). F≥1GHz & out-restricted: §15.209/§7.2.5 limit (QP) F≥1GHz & out-restricted: QP) a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges; b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges; c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; c) 10 dBm/MHz at 75 MHz above or below the band edges; and d) -27 dBm/MHz at 75 MHz above or below the band edges. F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK). Band II- A	Band II- C Band III

Note 1:

Band I: 5150-5250MHz Band II-A: 5250-5350MHz Band II-C: 5470-5725MHz Band III: 5725-5850MHz



Unless otherwise agreed in writing, 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/en/Terms-and-Conditions for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sold responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or emails COL Doccheck@ses.com

South of No. O Plant, No. 1, Runsheng Road, Suchou Industrial Park, Suzhou Area, China (Jiangsu) Plot Free Trade Zone 215000 中国 - 苏州 - 中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜廊1号的6号厂房南部 邮编: 215000



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 5 of 334

Contents

1	Version						
2	Test S	Summary	3				
3	Gener	ral Information	6				
	3.1	Details of Client	6				
	3.2	Test Location	6				
	3.3	Test Facility	6				
	3.4	General Description of EUT	7				
	3.5	Test Environment	10				
	3.6	Description of Support Units	10				
	3.7	Worst-case configuration and mode	10				
4	Test re	esults and Measurement Data	11				
	4.1	Antenna Requirement	11				
	4.2	AC Power Line Conducted Emissions	12				
	4.3	Duty Cycle	16				
	4.4	Conducted Output Power	17				
	4.5	26dB Emission Bandwidth	18				
	4.6	6dB Emission Bandwidth	19				
	4.7	99% Occupied Bandwidth	20				
	4.8	Power Spectral Density	21				
	4.9	Radiated Spurious Emissions	22				
	4.10	Restricted bands around fundamental frequency	24				
	4.11	Dynamic Frequency Selection	26				
	4	I.11.1 DFS Overview	26				
	4	I.11.2 DFS Detection Thresholds	27				
	4	I.11.3 RADAR TEST WAVEFORMS	27				
	4	1.11.4 Response Requirements	29				
5	Meası	urement Uncertainty (95% confidence levels, k=2)	30				
6	Equip	ment List	31				
7	Photo	graphs - Setup Photos	Photographs - Setup Photos33				



Unless otherwise agreed in writing, 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/en/Terms-and-Conditions and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CND Doccheck@ass.com.

South of No. 6 Plant, No. 1, Runsheng Road, Suchou Industrial Park, Suchou Area, China (Jiangsu) Pilot Free Trade Zone 215000 中国 - 苏州 - 中国(江苏)自由贸易试验区苏州片区苏州工业园区河胜路(号的6号厂房南部 邮编: 215000



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 6 of 334

3 General Information

3.1 Details of Client

Applicant:	Quectel Wireless Solutions Co., Ltd.	
Address of Applicant:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China	
Manufacturer:	Quectel Wireless Solutions Co., Ltd.	
Address of Manufacturer:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China	

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Ives Cheng, King-p Li

3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC -Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an

accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327



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



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 7 of 334

3.4 General Description of EUT

EUT Description:	Smart Modu	ıle		
Model No.:	SC262R-NA			
Trade Mark:	QUECTEL			
Hardware Version:	R1.0			
Software Version:	SC262RNA	NAR60A03		
INACL.	RF Conduc	ted	86477906 86477906	
IMEI:	RSE & AC power line		86477906 86477906	
	802.11a:	20 MHz ch	annel band	width
WLAN Mode Supported:	802.11n:	20 MHz / 4	I0 MHz cha	nnel bandwidth
	802.11ac:	20 MHz / 4	10 MHz / 80	MHz channel bandwidth
Operation Frequency:	5150MHz to 5250MHz 5250MHz to 5350MHz 5470MHz to 5725MHz 5725MHz to 5850MHz			
	802.11a:	OFDM (BPSK, QPSK, 16QAM, 64QAM)		
Modulation Type:	802.11n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)		
	802.11ac:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)		
	20MHz:	802.11a/n((HT20)/ac(\	/HT20)
Channel Spacing:	40MHz:	802.11n(HT40)/ac(VHT40)		
	80MHz:	Hz: 802.11ac(VHT80)		
Antenna Type:	External An	tenna		
Antenna Gain:	5150MHz to 5250MHz: -0.67dBi(Ant0) 5250MHz to 5350MHz: -0.19dBi(Ant0) 5470MHz to 5725MHz: 1.28dBi(Ant0) 5725MHz to 5850MHz: 1.10dBi(Ant0) Note:			ntO)
			derived fron	n the gain information report provided by the
	⊠ SISO	802.11a/n/ac		
		CDD: 802.11a/n/ac: Tx & Rx		
Smart System:	☐ MIMO		302.11n/ac:	
		TXBF: 802.11n/ac: Tx & Rx		
	Diversity	/ 802.11a	: Tx & Rx	
DFS Function:	□Master			
	☐Slave wit	h radar dete	ection	Slave without radar detection



Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.apx and, for electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.apx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawfull and offenders may be prosecuted to the fullest extend of the law Lunes otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention:*To check the authersticity of testing funsection report & certificate, please contact us at telephone: (86-755) 8307 1443,

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Plot Free Trade Zone 215000 中国 - 苏州 - 中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000



Report No.: SEWA2210000060RG05

Rev.: 01 Page: 8 of 334

RF Cable: 2.0dB

Remark:

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

Remark:

In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as below:

Frequency Range of Operation Operating Frequency Range (in each Band)	Number of Measurement Frequencies Required	Location of Measurement Frequency in Band of Operation			
1 MHz or less	1	centre			
1 MHz to 10 MHz	2	1 near high end, 1 near low end			
Greater than 10 MHz	3	1 near high end, 1 near centre			

For UNII Band I:					
Mode	Channel	Frequency(MHz)			
	The Lowest channel	5180			
IEEE 802.11a/n/ac 20MHz	The Middle channel	5200			
	The Highest channel	5240			
IEEE 802.11n/ac 40MHz	The Lowest channel	5190			
IEEE OUZ. I III/aC 40IVIAZ	The Highest channel	5230			
IEEE 802.11ac 80MHz	The Middle channel	5210			

For UNII Band II-A:					
Mode	Channel	Frequency(MHz)			
	The Lowest channel	5260			
IEEE 802.11a/n/ac 20MHz	The Middle channel	5280			
	The Highest channel	5320			
IEEE 000 44m/oo 40MHz	The Lowest channel	5270			
IEEE 802.11n/ac 40MHz	The Highest channel	5310			
IEEE 802.11ac 80MHz	The Middle channel	5290			



Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.apx and, for electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.apx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention:To check the authenticity of testing (inspection report & certificate please contact us at telephone; (86-755) \$30.71443.

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, Chima (Jiangsu) Plot Free Trade Zone 215000中国 - 苏州 - 中国(江苏)自由贸易试验区苏州片区苏州工业园区沟胜路1号的6号厂房南部 邮编: 215000



Report No.: SEWA2210000060RG05

Rev.: 01 Page: 9 of 334

For UNII Band II-C:					
Mode	Channel	Frequency(MHz)			
	The Lowest channel	5500			
IEEE 802.11a/n/ac 20MHz	The Middle channel	5580			
	The Highest channel	5700			
	The Lowest channel	5510			
IEEE 802.11n/ac 40MHz	The Middle channel	5550			
	The Highest channel	5670			
IEEE 802.11ac 80MHz	The Lowest channel	5530			

For UNII Band III:				
Mode	Channel	Frequency(MHz)		
	The Lowest channel	5745		
IEEE 802.11a/n/ac 20MHz	The Middle channel	5785		
	The Highest channel	5825		
IEEE 802.11n/ac 40MHz	The Lowest channel	5755		
TEEE 802.1 Th/ac 40MH2	The Highest channel	5795		
IEEE 802.11ac 80MHz	The Middle channel	5775		

Frequency Band	Channel	Freq.(MHz)	Channel	Freq.(MHz)
Straddle Channel	144 ^[1]	5720	142 ^[2]	5710
Straddle Channel	138 ^[3]	5690		
	120 ^[1]	5600	124 ^[1]	5620
TDWR Channel	128 ^[1]	5640	118 ^[2]	5590
	126 ^[2]	5630	122 ^[3]	5610

Note:

- 1. The above Frequency and Channel were 802.11a, 802.11n HT20 and 802.11ac VHT20.
- 2. The above Frequency and Channel were 802.11n HT40 and 802.11ac VHT40.
- 3. The above Frequency and Channel were 802.11ac VHT80.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.ags.com/en/Terms-and-Conditions.ago; and, for electronic Documents at http://www.ags.com/en/Terms-and-Conditions/Terms-en-Documents, subject to Terms and Conditions [Terms-en-Document as place]. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing inspection reports & certificate please contact us at telephone (86-755183071443.

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 中国 - 苏州 - 中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 10 of 334

3.5 Test Environment

Environment Parameter	101.0 kPa Selected Values During Tests				
Relative Humidity	44-46 % RH Ambient				
Value	Temperature(°C)	Voltage(V)			
NTNV	22~23	3.80			

Remark:

NV: Normal VoltageNT: Normal Temperature

3.6 Description of Support Units

Description	Manufacturer	Model No.	
Mother board	QUECTEL	N/A	
Remark: all above the information of table are provided by client.			

3.7 Worst-case configuration and mode

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. Following are the worst-case data rates set for test:

Modulation Type	SISO - Data Rate	MIMO - Data Rate
802.11a	6 Mbps	/
802.11n (HT 20)	MCS0 (6.5 Mbps)	/
802.11n (HT 40)	MCS0 (13.5 Mbps)	/
802.11ac (VHT 20)	MCS0 (6.5 Mbps)	/
802.11ac (VHT 40)	MCS0 (13.5 Mbps)	/
802.11ac (VHT 80)	MCS0 (29.3 Mbps)	/



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



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 11 of 334

4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement: 47 CFR Part 15 Section 15.203

The antenna is External Antenna on the main PCB and no consideration of replacement.

The best case gain of the antenna is 5150MHz to 5250MHz: -0.67dBi(Ant0)* 5250MHz to 5350MHz: -0.19dBi(Ant0)* 5470MHz to 5725MHz: 1.28dBi(Ant0)* 5725MHz to 5850MHz: 1.10dBi(Ant0)*

*Note

The antenna gain are derived from the gain information report provided by the manufacturer. Remark:

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



Unless otherwise agreed in writing, 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/en/Terms-and-Conditions/Terms-en/Comditions/Terms-en/C

South of No. 6 Plant, No. 1, Runsheng Road, Suchou Industrial Park, Suchou Area, China (Jiangsu) Pilot Free Trade Zone 中国 - 苏州 - 中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

5000 t (86–512) 62992980 5000 t (86–512) 62992980

) www.sgsgroup.com.cn sgs.china@sgs.com



Report No.: SEWA2210000060RG05

Rev.: 01

12 of 334 Page:

4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)			
Test Method:	ANSI C63.10: 2013 Section 6.2			
Test Frequency Range:	150kHz to 30MHz			
Receiver Setup:	RBW = 9kHz, VBW = 30)kHz		
Limit:	Frequency range (MHz)	Limit (d	BuV)	
	Frequency range (MHZ)	Quasi-peak	Average	
	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	
	5-30	60	50	
	* Decreases with the log	arithm of the frequency.		
Test Procedure:	room. 2) The EUT was connected Impedance Stabilizate impedance. The power connected to a second plane in the same was multiple socket outlet single LISN provided. 3) The tabletop EUT was ground reference plane placed on the horizor. 4) The test was perform of the EUT shall be overtical ground reference plane. The unit under test and be mounted on top of the between the closest the EUT and associated. 5) In order to find the mequipment and all of	cted to AC power source throusion Network) which provides are cables of all other units of and LISN 2, which was bonded by as the LISN 1 for the unit by a strip was used to connect must the rating of the LISN was not as placed upon a non-metallic ne. And for floor-standing arrantal ground reference plane, and with a vertical ground reference plane was bonded to the LISN 1 was placed 0.8 m frow onded to a ground reference e ground reference plane. The points of the LISN 1 and the fitted equipment was at least 0 aximum emission, the relative the interface cables must be on conducted measurement.	ugh a LISN 1 (Line a 50Ω/50μH + 5Ω linear the EUT were I to the ground reference being measured. A ultiple power cables to a cot exceeded. I table 0.8m above the angement, the EUT was been serious plane. The reference plane. The endition has been an above the angement of the plane for LISNs is distance was EUT. All other units of a 50Ω to 10Ω	



Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.aspx And, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@gs.com

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 中国 - 苏州 - 中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

t (86–512) 62992980 www.sgsgroup.com.cn t (86-512) 62992980

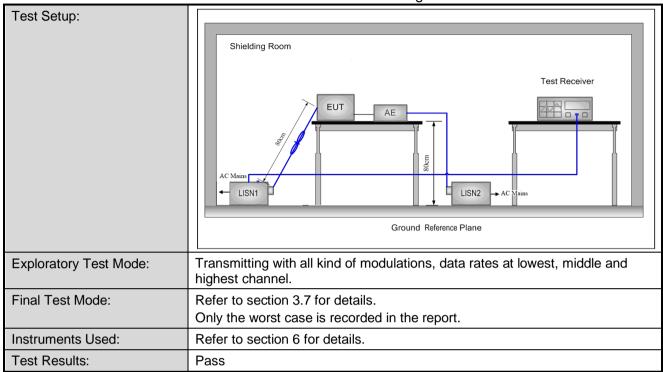
sgs.china@sgs.com



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 13 of 334





Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.aspx.and. for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-en/Conditions/Terms-

South of No. 6 Plant, No. 1, Runsheng Road, Suchou Industrial Park, Suchou Area, China (Jiangsu) Pilot Free Trade Zone 中国 - 苏州 - 中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000



Report No.: SEWA2210000060RG05

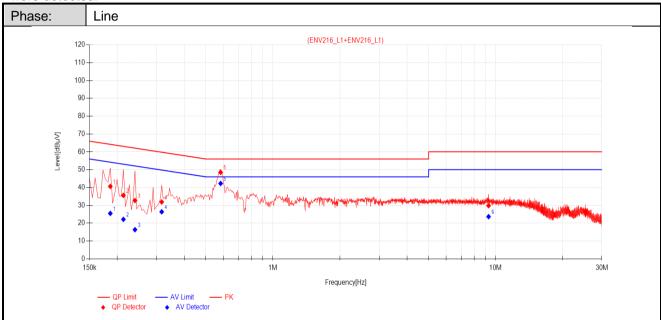
Rev.: 01

Page: 14 of 334

Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



Final	Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1860	10.77	29.87	40.64	64.21	23.57	14.71	25.48	54.21	28.73	PASS
2	0.2130	10.81	24.80	35.61	63.09	27.48	11.35	22.16	53.09	30.93	PASS
3	0.2400	10.80	21.89	32.69	62.10	29.41	5.56	16.36	52.10	35.74	PASS
4	0.3165	10.58	21.31	31.89	59.80	27.91	15.81	26.39	49.80	23.41	PASS
5	0.5820	10.52	38.00	48.52	56.00	7.48	31.77	42.29	46.00	3.71	PASS
6	9.2985	10.66	19.16	29.82	60.00	30.18	13.00	23.66	50.00	26.34	PASS

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[$dB\mu V$] Value[$dB\mu V$]



Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.appx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-a-Document.appx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention:To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) \$3071443.

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 中国 • 苏州 • 中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn t (86-512) 62992980

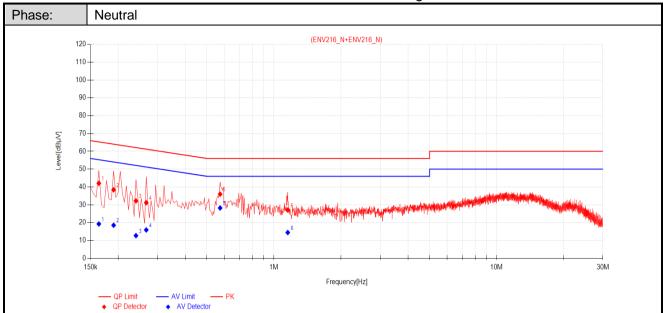
sgs.china@sgs.com



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 15 of 334



Final	Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1635	10.72	31.36	42.08	65.28	23.20	8.56	19.28	55.28	36.00	PASS
2	0.1905	10.67	27.73	38.40	64.01	25.61	7.88	18.55	54.01	35.46	PASS
3	0.2400	10.72	21.48	32.20	62.10	29.90	2.01	12.73	52.10	39.37	PASS
4	0.2670	10.74	20.45	31.19	61.21	30.02	5.17	15.91	51.21	35.30	PASS
5	0.5730	10.71	25.24	35.95	56.00	20.05	17.52	28.23	46.00	17.77	PASS
6	1.1535	10.74	16.36	27.10	56.00	28.90	3.73	14.47	46.00	31.53	PASS

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value = Reading[dB μ V] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[$dB\mu V$] Value[$dB\mu V$]



Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.apx and, for electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.apx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention:To check the authenticity of testing (inspection report & certificate please contact us at telephone; (86-755) \$30.71443.



Report No.: SEWA2210000060RG05

Rev.: 01

16 of 334 Page:

4.3 Duty Cycle

The detailed test data see: Appendix



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.ags.com/en/Terms-and-Conditions.ags, and, for electronic Documents at http://www.ags.com/en/Terms-and-Conditions/Terms-en/Document.ags.
Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction forcement cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention: To check the authenticity of testing finspection report & certificate, please contact us at telephone: (86-755) \$3071443,

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 中国・苏州・中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000 t (86-512) 62992980 www.sgsgroup.com.cn t (86-512) 62992980

sgs.china@sgs.com



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 17 of 334

4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15 Section 15.407(a)				
Test Method:	ANSI C63.10 :2013 Section11.9.2.3				
Test Setup:	* Test with power r				
Test Instruments:	Refer to section 6 f				
Exploratory Test Mode:	Transmitting with a	Il kind of modulations, data rates			
Final Test Mode:	Refer to section 3.7	7 for details.			
Limit:	Frequency Band	Limit			
	5150-5250MHz	Not exceed 250mW(24dBm)			
	5250-5350MHz	The lesser of 250mW(24dBm) or 11+ 10logB			
	5470-5725MHz	The lesser of 250mW(24dBm) or 11+ 10logB			
	5725-5850MHz	Not exceed 1W(30dBm)			
	*Where B is the 26	dB emission bandwidth in MHz			
Test Results:	Pass				
The detailed test data see: A	ppendix				



Unless otherwise agreed in writing, 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/en/Terms-and-Conditions for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CND Doccheck@ass.com.

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 中国 • 苏州 • 中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

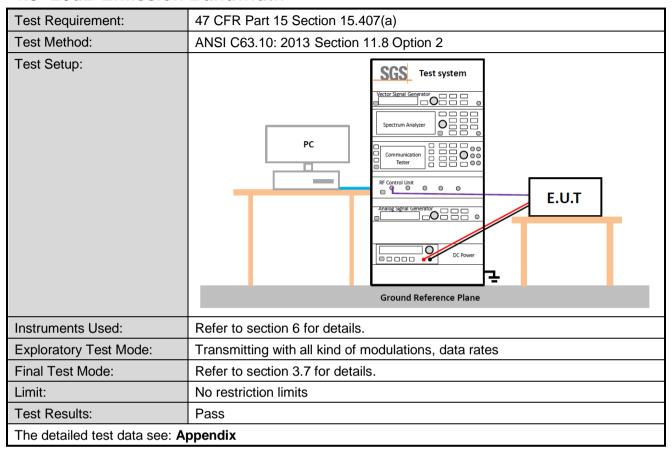


Report No.: SEWA2210000060RG05

Rev.: 01

Page: 18 of 334

4.5 26dB Emission Bandwidth





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

or email: CM_Doccheck@egs.com South of No. 6 Plant, No. 1, Runsheng Road, Sudhou Industrial Park, Suzhou Alea, China (Mangsu) Plot Free Trade Zone 中国・苏州・中国(江苏)自由贸易设置及万米州に京米川工・原区原建設1号的小号「房南部 邮第: 215000

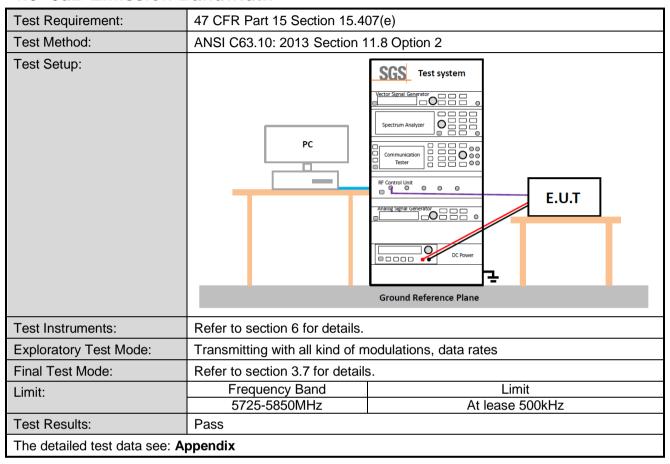


Report No.: SEWA2210000060RG05

Rev.: 01

Page: 19 of 334

4.6 6dB Emission Bandwidth





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

or email: CN.Doccheck@sgs.com | Soundriko Fibruk N. [knshreng Yook] Authou Indatairi Park, Suchou Area, China (Jiangsu) Pkt Free Trade Zone 215000 | 中国・苏州・中国(江苏)自由贸易试验区苏州上区苏州工业园区海胜数1号的6号厂房南部 - 鄭塢: 215000

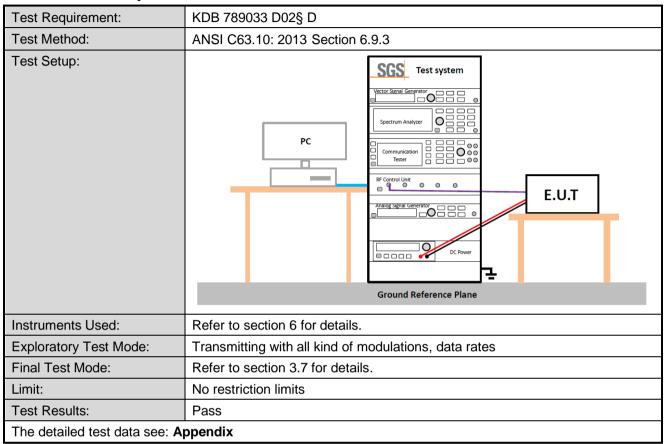


Report No.: SEWA2210000060RG05

Rev.: 01

Page: 20 of 334

4.7 99% Occupied Bandwidth





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

or email: CN. <u>Doccheck@sgs.com</u> Soundrika Fibru, h. [Anshare] pool, Johno Indatafel Park, Suchou Area, China (Jängsi) Pkt Free Trade Zone 215000 中国・苏州・中国(江苏)自由関系试验区苏州上区苏州工业国区河胜路1号的6号厂房南部 鄭樂: 215000



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 21 of 334

4.8 Power Spectral Density

Test Requirement:	47 CFR Part 15 Sec	tion 15.407(a)			
Test Method:	ANSI C63.10: 2013 Section 11.10.2				
	KDB 789033 D02 v02r01, Section F.				
Test Setup:	PC	SGS Test system Vector Signal Generator			
Instruments Used:	Refer to section 6 for details.				
Exploratory Test Mode:	Transmitting with all	kind of modulations, data rates			
Final Test Mode:	Refer to section 3.7	for details.			
Limit:	Frequency Band	Limit			
	5150-5250MHz	The power spectral density less than 11dBm/1MHz			
	5250-5350MHz	The power spectral density less than 11dBm/1MHz			
	5470-5725MHz	The power spectral density less than 11dBm/1MHz			
	5725-5850MHz	The power spectral density less than <30dBm/500KHz			
Test Results:	Pass				
The detailed test data see: A	ppendix				



Unless otherwise agreed in writing, 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/en/Terms-and-Conditions for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CND Doccheck@ass.com.



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 22 of 334

4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15 Section 15.205 and 15.209
Test Method:	ANSI C63.10: 2013 Section 6.4 / 6.5 / 6.6
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)
Test frequency:	9kHz ~ 40GHz(or 10 Harmonic)

Test Setup:

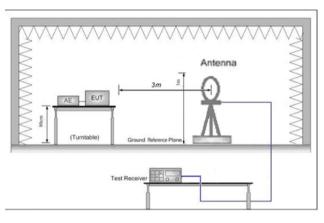
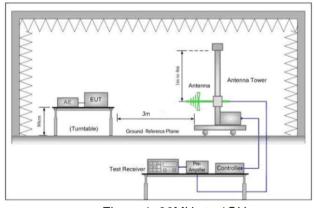


Figure 1. 9kHz to 30MHz



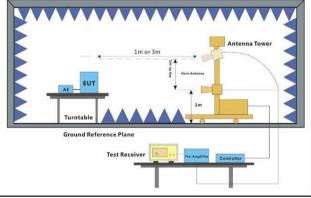


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

Test Procedure:

- a. For below 1GHz test, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz test, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
 (Distance from antenna to EUT is 1m for measurements >18GHz).
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and



Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.aspx.and, for electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawfull and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

| South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 |
中国 - 苏州 - 中国 (丁苏) 自由贸易试验区苏州片区苏州丁伊园区海畔路1号的6号厂房亩额 邮编: 215000



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 23 of 334

	1 ago. 20 01 00 1
	then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Test the EUT in the outermost channels. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed. l. At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB.
Test Configuration:	Measurements Below 1000MHz RBW = 120 kHz VBW = 300 kHz Detector = Peak Trace mode = max hold Peak Measurements Above 1000 MHz RBW = 1 MHz VBW ≥ 3 MHz Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW ≥ [3 *RBW] Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. Sweep time = auto Perform a trace average of at least 100 traces.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see	e: Appendix



Unless otherwise agreed in writing, 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/en/Terms-and-Conditions for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sold responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) later eland such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN Doccheck@ass.com

South of No. 6 Plant, No. 1, Runshang Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000



Report No.: SEWA2210000060RG05

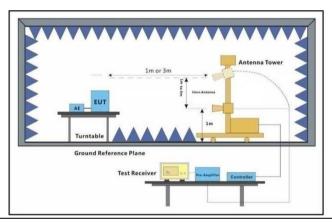
Rev.: 01

Page: 24 of 334

4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.407(b)						
Test Method:	ANSI C63.10: 2013 Section	ANSI C63.10: 2013 Section 11.12					
Test Site:	Measurement Distance: 3m	(Semi-Anechoic Chaml	oer)				
Limit:	Frequency	Frequency Limit (dBuV/m) Remark					
	30MHz-88MHz 40.0 Quasi-peak 88MHz-216MHz 43.5 Quasi-peak						
	216MHz-960MHz	216MHz-960MHz 46.0 Quasi-peak					
	960MHz-1GHz 54.0 Quasi-peak						
	Above 1GHz	54.0	Average Value				
	Above IGHZ	74.0	Peak Value				

Test Setup:



Test Procedure:

- a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel
- g. Test the EUT in the outermost channels.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sga.com/ien/Terms-and-Conditions.aspx.and. for electronic format documents, subject to Terms and Conditions [Festeronic Decuments at <a href="http://www.sga.com/ien/Terms-and-Conditions.general-C

t (86–512) 62992980 w t (86–512) 62992980 s

www.sgsgroup.com.cn sgs.china@sgs.com



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 25 of 334

	i. Repeat above procedures until all frequencies measured was complete.			
Test Configuration:	Measurements Below 1000MHz			
J	• RBW = 120 kHz			
	• VBW = 300 kHz			
	Detector = Peak			
	Trace mode = max hold			
	Peak Measurements Above 1000 MHz			
	• RBW = 1 MHz			
	• VBW ≥ 3 MHz			
	Detector = Peak			
	Sweep time = auto			
	Trace mode = max hold			
	Average Measurements Above 1000MHz			
	• RBW = 1 MHz			
	• VBW ≥ [3 *RBW]			
	• Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.			
	Sweep time = auto			
	Perform a trace average of at least 100 traces.			
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.			
Final Test Mode:	Refer to section 3.7 for details.			
Instruments Used:	Refer to section 6 for details.			
Test Results:	Pass			
The detailed test data see: Appendix				



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.ags.com/en/Terms-and-Conditions.ags, and, for electronic Documents at http://www.ags.com/en/Terms-and-Conditions/Terms-en/Document.ags.
Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction forcement cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention: To check the authenticity of testing finspection report & certificate, please contact us at telephone: (86-755) \$3071443,

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000 t (86-512) 62992980 www.sgsgroup.com.cn t (86-512) 62992980

sgs.china@sgs.com



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 26 of 334

4.11 Dynamic Frequency Selection

4.11.1 DFS Overview

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode					
	Master	Client Without Radar Detection	Client With Radar Detection			
Non-Occupancy Period	Yes	Not required	Yes			
DFS Detection Threshold	Yes	Not required	Yes			
Channel Availability Check Time	Yes	Not required	Not required			
U-NII Detection Bandwidth	Yes	Not required	Yes			

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode			
	Master Device or Client with Radar Detection	Client Without Radar Detection		
DFS Detection Threshold	Yes	Not required		
Channel Closing Transmission Time	Yes	Yes		
Channel Move Time	Yes	Yes		
U-NII Detection Bandwidth	Yes	Not required		

Additional requirements for devices with	Master Device or Client with	Client Without Radar	
multiple bandwidth modes	Radar Detection	Detection	
U-NII Detection Bandwidth and Statistical	All BW modes must be tested	Not required	
Performance Check			
Channel Move Time and Channel Closing	Test using widest BW mode	Test using the widest	
Transmission Time	available	BW mode available for	
		the link	
All other tests	Any single BW mode	Not required	

Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.



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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Plot Free Trade Zone 215000 中国 - 苏州 - 中国 (汀茶) 自由贸易试验 (艾茶州 日本 医丁基酚 医二十二甲基乙醇 医二甲基乙醇 医二甲基乙醇 医二甲基乙醇 医二甲基乙醇 医二甲基乙醇 医二甲基乙醇 医二甲基乙醇



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 27 of 334

4.11.2 DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value
	(See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and	-62 dBm
power spectral density < 10 dBm/MHz	
EIRP < 200 milliwatt that do not meet the power spectral density	-64 dBm
requirement	

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.

Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

4.11.3 RADAR TEST WAVEFORMS

Table 5 - Short Pulse Radar Test Waveforms

Radar	Pulse Width	PRI	Number of Pulses	Minimum	Minimum
Type	(µsec)	(µsec)		Percentage of	Number of
				Successful	Trials
				Detection	
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A	Roundup $ \left\{ $	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (I	Radar Types 1-	4)		80%	120

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.



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

South of No. 6 Plant, No. 1, Runshang Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 中国 - 苏州 - 中国(汀苏)自由贸易试验区苏州 I F以 市 中国区 短胜路 1号的人员厂 座商额 邮编: 215000



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 28 of 334

Table 5a - Pulse Repetition Intervals Values for Test A

Pulse Repetition	Pulse Repetition Frequency	Pulse Repetition
Frequency	(Pulses Per Second)	Interval
Number		(Microseconds)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678
10	1432.7	698
11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

The aggregate is the average of the percentage of successful detections of Short Pulse Radar Types 1-4. For example, the following table indicates how to compute the aggregate of percentage of successful detections.

Radar Type	Number of Trials	Number of Successful	Minimum Percentage		
		Detections	of Successful		
			Detection		
1	35	29	82.9%		
2	30	18	60%		
3	30	27	90%		
4	50	44	88%		
Aggregate $(82.9\% + 60\% + 90\% + 88\%)/4 = 80.2\%$					



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.ags.com/en/Terms-and-Conditions.ags, and, for electronic Documents at http://www.ags.com/en/Terms-and-Conditions/Terms-en/Document.ags.
Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction forcement cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention: To check the authenticity of testing finspection report & certificate, please contact us at telephone: (86-755) \$3071443,



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 29 of 334

Table 6 - Long Pulse Radar Test Waveform

Radar	Pulse	Chirp	PRI	Number	Number	Minimum	Minimum
Type	Width	Width	(µsec)	of Pulses	of Bursts	Percentage of	Number of
	(µsec)	(MHz)		per Burst		Successful	Trials
						Detection	
5	50-100	5-20	1000-	1-3	8-20	80%	30
			2000				

Table 7 - Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width	PRI (µsec)	Pulses per	Hopping Rate	Hopping Sequence	Minimum Percentage of	Minimum Number of
	(µsec)		Hop	(kHz)	Length	Successful	Trials
					(msec)	Detection	
6	1	333	9	0.333	300	70%	30

4.11.4 Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds
	See Note 1.
Channel Closing Transmission Time	200 milliseconds + an
	aggregate of 60
	milliseconds over remaining
	10 second period.
	See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-
	NII 99% transmission
	power bandwidth. See Note
	3.

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. **Note 2:** The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. **Note 3:** During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

The detailed test data see: Appendix



Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.appx and, for electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-a-Document.appx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawfull and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

or email: <u>CN.DocCheck@sgs.com</u> South of No. 6 Plant, No. 1, Runsheng Read, Suthou Industrial Park, Suzhou Area, China (Jangsu) Plot Free Trade Zone 中国 - 苏州 - 中国 (丁苏) 自由商品运动区苏州比区苏州丁中国区园胜路(号纳·马丁尼岛等 鐵筆: 215000



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 30 of 334

5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty		
1	Total RF power, conducted	±0.54dB		
2	RF power density, conducted	±1.03dB		
3	Spurious emissions, conducted	±0.54dB		
4	Radio Frequency	±1.0 %		
5	Duty Cycle	±0.37%		
6	Occupied Bandwidth	±1.0 %		
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)		
		± 3.13dB (9k -30MHz)		
	Dedicted Enterior	± 4.80dB (30M -1GHz)		
8	Radiated Emission	± 4.80dB (1GHz to 18GHz)		
		± 4.80dB (Above 18GHz)		

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr/ETSI} (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.appx and, for electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-and-Condit

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 中国 • 苏州 • 中国(江苏)自由贸易试验区苏州片区苏州工业园区河胜路1号的6号厂房南部 邮编: 215000



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 31 of 334

6 Equipment List

		RF Test Ed	quipment		
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/02/16	2023/02/15
Signal Analyzer	ROHDE& SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR
Signal Analyzer	ROHDE& SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Wideband Radio Communication Tester	ROHDE& SCHWARZ	CMW500	SUWI-01-16-05	2022/02/14	2023/02/13
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/04	2022/12/03
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/04	2022/12/03
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2022/02/14	2023/02/13
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14
Router	ASUS	GT-AXE11000 (FCC ID MSQ- RTAXJF00)	SUWI-03-14-02	NCR	NCR

		CE Test Sy	/stem		
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/19	2023/02/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/19	2023/02/18
Measurement Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	NCR	NCR
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14



Unless otherwise agreed in writing, 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/en/Terms-and-Conditions for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CND Doccheck@ass.com.

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, Chima (Jiangsu) Plot Free Trade Zone 215000中国 - 苏州 - 中国(江苏)自由贸易试验区苏州片区苏州工业园区沟胜路1号的6号厂房南部 邮编: 215000



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 32 of 334

			i agc.	32 01 33 1	
		RSE Test Sy	/stem		
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/04	2022/12/03
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09
Measurement Software	Tonscend	JS32-RE 4.0.0.0	SUWI-02-09-04	NCR	NCR



Unless otherwise agreed in writing, 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/en/Terms-and-Conditions for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CND Doccheck@ass.com.

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 中国 - 苏州 - 中国(江苏)自由贸易试验区苏州片区苏州工业园区海胜路1号的6号厂房南部 邮编: 215000



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 33 of 334

7 **Photographs - Setup Photos**

Refer to Appendix A.2 WLAN Setup Photos.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.ags.com/en/Terms-and-Conditions.ags, and, for electronic Documents at http://www.ags.com/en/Terms-and-Conditions/Terms-en/Document.ags.
Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction forcement cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention: To check the authenticity of testing finspection report & certificate, please contact us at telephone: (86-755) \$3071443,

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 中国・苏州・中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000 t (86-512) 62992980 www.sgsgroup.com.cn t (86-512) 62992980



Report No.: SEWA2210000060RG05

Rev.:

34 of 334 Page:

Appendix



Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.appx and, for electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extend of the law Lunes stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443,

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 中国・苏州・中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn sgs.china@sgs.com t (86-512) 62992980



Report No.: SEWA2210000060RG05

Rev.: 01

35 of 334 Page:

Emission Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
		5180	22.28	5168.88	5191.16	
		5220	22.28	5208.72	5231.00	
		5240	22.44	5228.80	5251.24	
		5260	22.44	5248.88	5271.32	
		5300	22.60	5288.60	5311.20	
		5320	22.12	5308.96	5331.08	
		5500	22.56	5488.72	5511.28	
11a	Ant0	5580	22.68	5568.40	5591.08	
		5700	22.88	5688.40	5711.28	
		5720	23.68	5707.92	5731.60	
		5720_UNII-2C	17.08	5707.92	5725	
		5720_UNII-3	6.6	5725	5731.60	
		5745	24.68	5733.68	5758.36	
		5785	25.00	5772.76	5797.76	
		5825	24.04	5812.32	5836.36	
		5180	23.96	5168.52	5192.48	
		5220	22.52	5208.80	5231.32	
		5240	22.72	5228.48	5251.20	
		5260	23.52	5248.76	5272.28	
		5300	23.68	5287.84	5311.52	
		5320	22.68	5308.68	5331.36	
44 000100	4 10	5500	22.80	5488.60	5511.40	
11n20SISO	Ant0	5580	22.60	5568.76	5591.36	
		5700	25.80	5687.68	5713.48	
		5720	23.68	5708.28	5731.96	D
		5720_UNII-2C 5720_UNII-3	16.72 6.96	5708.28 5725	5725 5731.96	Reporting
		5720_UNII-3 5745	24.48	5733.28	5757.76	only
		5785	24.46	5772.60	5796.64	
		5825	23.60	5813.28	5836.88	
		5190	44.48	5168.00	5212.48	
	Ant0	5230	43.44	5208.56	5252.00	
		5270	43.28	5248.24	5291.52	
		5310	43.28	5288.56	5331.84	
		5510	43.36	5488.16	5531.52	
		5550	44.00	5527.60	5571.60	
11n40SISO		5670	43.36	5648.32	5691.68	
		5710	46.48	5688.00	5734.48	
		5710 UNII-2C	37	5688.00	5725	
		5710 UNII-3	9.48	5725	5734.48	
		5755	44.00	5733.08	5777.08	
		5795	43.76	5773.08	5816.84	
		5180	22.36	5168.84	5191.20	
		5220	22.32	5208.84	5231.16	
	Ant0	5240	22.32	5228.84	5251.16	
		5260	22.68	5248.80	5271.48	
44000100		5300	22.40	5288.80	5311.20	
11ac20SISO		5320	22.28	5308.88	5331.16	
		5500	22.36	5488.80	5511.16	
		5580	22.28	5568.84	5591.12	
		5700	22.28	5688.84	5711.12]
		5720	22.40	5708.76	5731.16	



Unless otherwise agreed in writing, 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/en/Terms-and-Conditions for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CND Doccheck@ass.com.

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 中国・苏州・中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn t (86-512) 62992980

sgs.china@sgs.com



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 36 of 334

		5720_UNII-2C	16.24	5708.76	5725	
		5720_UNII-3	6.16	5725	5731.16	
		5745	22.40	5733.80	5756.20	
		5785	22.44	5773.76	5796.20	
		5825	22.32	5813.84	5836.16	
		5190	43.12	5168.08	5211.20	
		5230	43.28	5207.84	5251.12	
		5270	43.36	5247.92	5291.28	
		5310	43.28	5288.00	5331.28	
		5510	43.36	5487.84	5531.20	
11ac40SISO	Ant0	5550	42.96	5528.24	5571.20	
11a0405150		5670	43.28	5647.84	5691.12	
		5710	43.12	5687.84	5730.96	
		5710_UNII-2C	37.16	5687.84	5725	
		5710_UNII-3	5.96	5725	5730.96	
		5755	43.12	5732.76	5775.88	
		5795	43.36	5772.68	5816.04	
11ac80SISO	Ant0	5210	85.44	5167.76	5253.20	
		5290	84.80	5248.08	5332.88	
		5530	85.28	5487.92	5573.20	
		5610	84.16	5568.24	5652.40	
		5690	85.44	5647.76	5733.20	
		5690_UNII-2C	77.24	5647.76	5725	
		5690_UNII-3	8.2	5725	5733.20	
		5775	84.96	5732.92	5817.88	



Unless otherwise agreed in writing, 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/en/Terms-and-Conditions for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CND Doccheck@ass.com.

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 中国 - 苏州 - 中国(江苏)自由贸易试验区苏州片区苏州工业园区海胜路1号的6号厂房南部 邮编: 215000

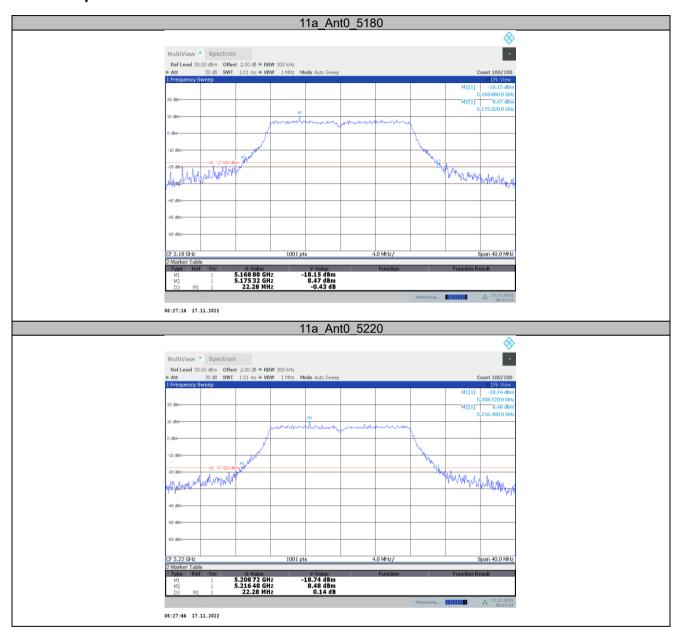


Report No.: SEWA2210000060RG05

Rev.: 01

Page: 37 of 334

Test Graphs





Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.aspx.and. for electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions-And-Conditions-and-Conditions-And-Cond

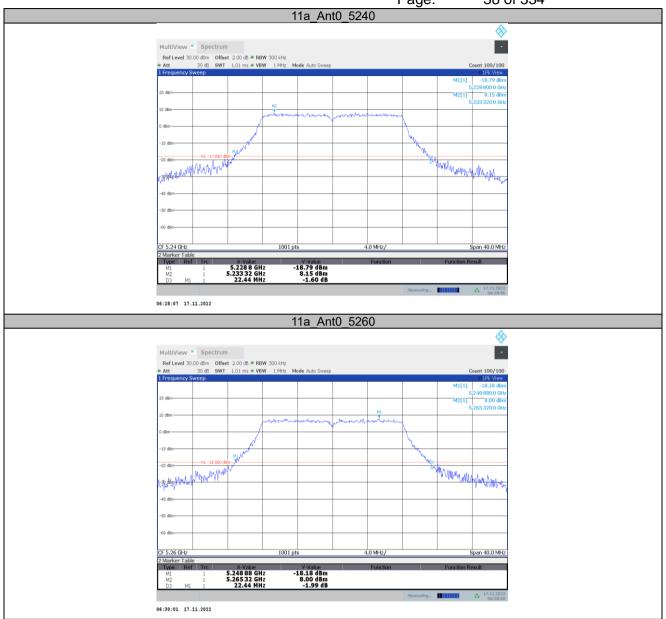
or email: CN. <u>Doccheck@sgs.com</u> Soundrika Fibru, h. [Anshare] pool, Johno Indatafel Park, Suchou Area, China (Jängsi) Pkt Free Trade Zone 215000 中国・苏州・中国(江苏)自由関系试验区苏州上区苏州工业国区河胜路1号的6号厂房南部 鄭樂: 215000



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 38 of 334





Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.aspx.and. for electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions-And-Conditions-and-Conditions-And-Cond

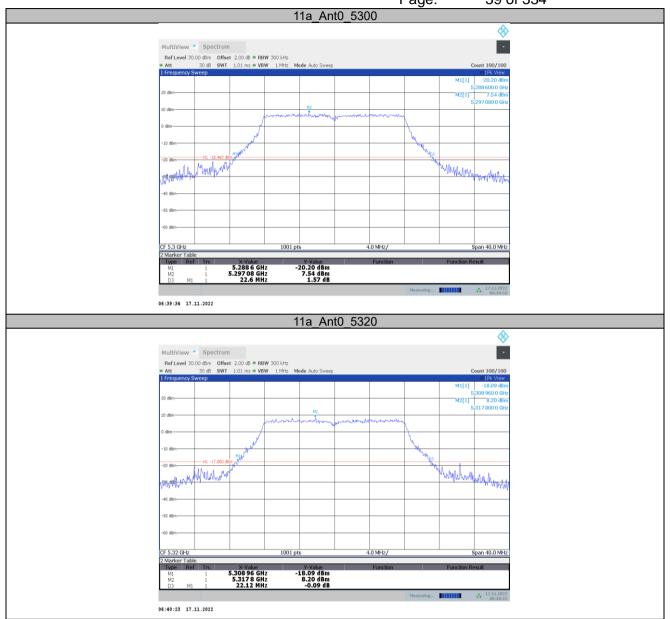
or email: CN_Doccheck@sgs_com John d/Na. Five, hu. Flunsheng Road, Suchou Indastel Park, Suchou Area, China (Jängsa) Plk/Free Trade Zone 中国・苏州・中国(江苏)自由贸易试验区苏州上区苏州工业园区湾胜路1号的6号厂房南部 鄭樂: 215000



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 39 of 334





Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.aspx.and. for electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions-And-Conditions-and-Conditions-And-Cond

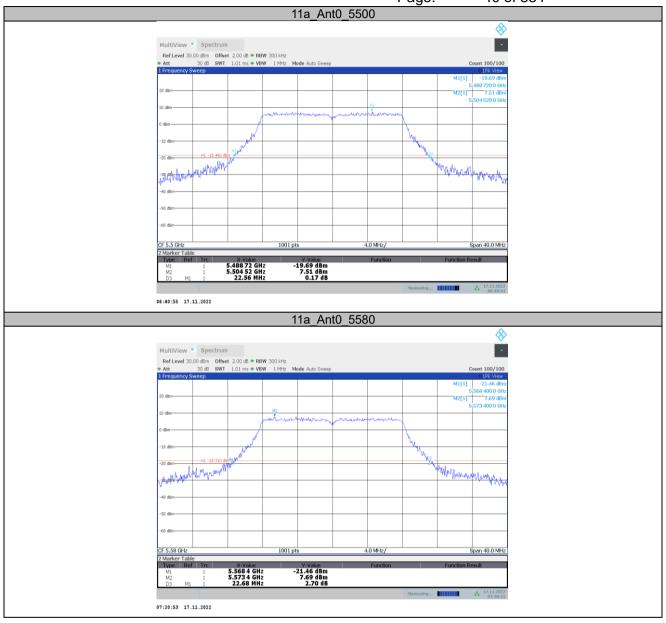
or email: CN_Doccheck@sgs_com John d/Na. Five, hu. Flunsheng Road, Suchou Indastel Park, Suchou Area, China (Jängsa) Plk/Free Trade Zone 中国・苏州・中国(江苏)自由贸易试验区苏州上区苏州工业园区湾胜路1号的6号厂房南部 鄭樂: 215000



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 40 of 334





Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.aspx.and. for electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions-And-Conditions-and-Conditions-And-Cond

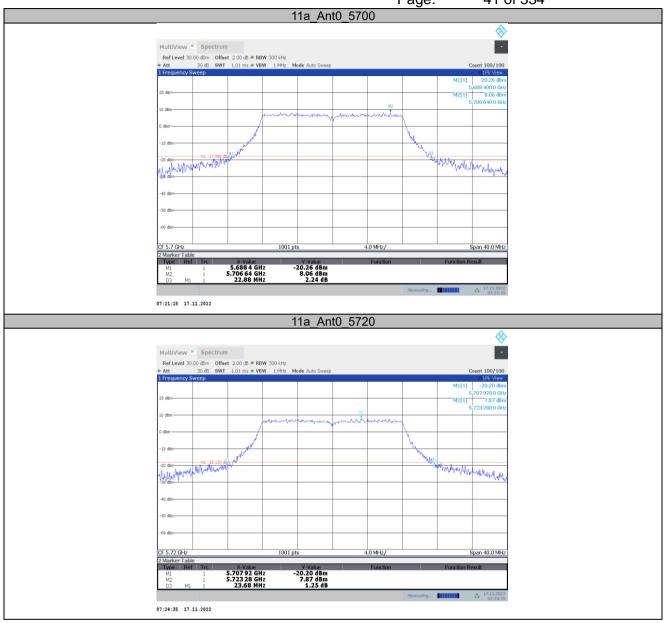
or email: CM.Doccheck@egs.com South of No. Plent, No. 1, Runsherp Road, Subrou Intestiel Park, Subrou Area, China (Alangsu) Plot Free Trade Zone 中国・苏州・中国(江苏)自由贸易试验区苏州广区苏州工业园区周胜数1号的9斤 房南部 鄭樂: 215000



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 41 of 334





Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.aspx.and. for electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions-And-Conditions-and-Conditions-And-Cond

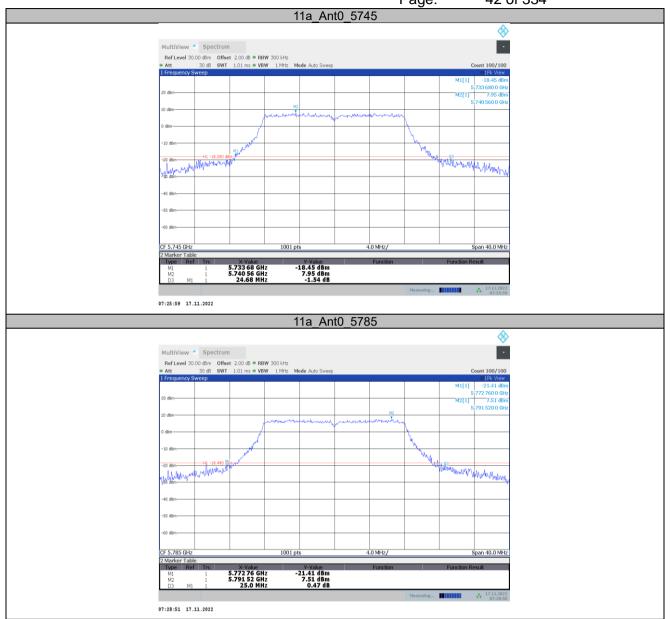
or email: CM_Doccheck@egs.com Sudnith& Feyn, tho. (Runsherg Read, Sudou Indasteil Park, Sudrou Area, China (Jangsu) Plot Free Trade Zone 215000 中国・苏州・中国(江苏)自由贸易は強区苏州片区苏州工业园区园胜路1号からF)房南部 単編: 215000



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 42 of 334





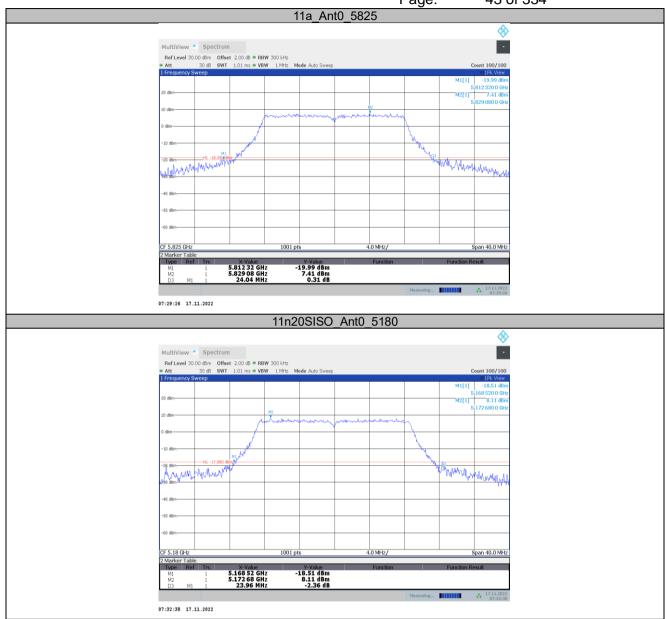
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx.and. for electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions-And-Conditions-and-Conditions-And-Cond



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 43 of 334





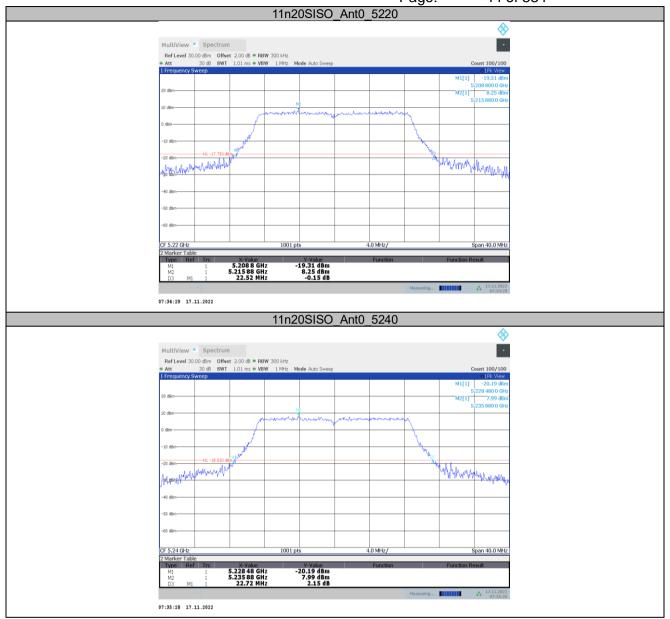
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx.and. for electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions-And-Conditions-and-Conditions-And-Cond



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 44 of 334





Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.aspx and, for electronic Documents as the subject to Terms and Conditions [Telectronic Document as full the subject or the subject of the subject

or email: CN. <u>Doccheck@sgs.com</u> Soundrika Fibru, h. [Anshare] pool, Johno Indatafel Park, Suchou Area, China (Jängsi) Pkt Free Trade Zone 215000 中国・苏州・中国(江苏)自由関系试验区苏州上区苏州工业国区河胜路1号的6号厂房南部 鄭樂: 215000



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 45 of 334





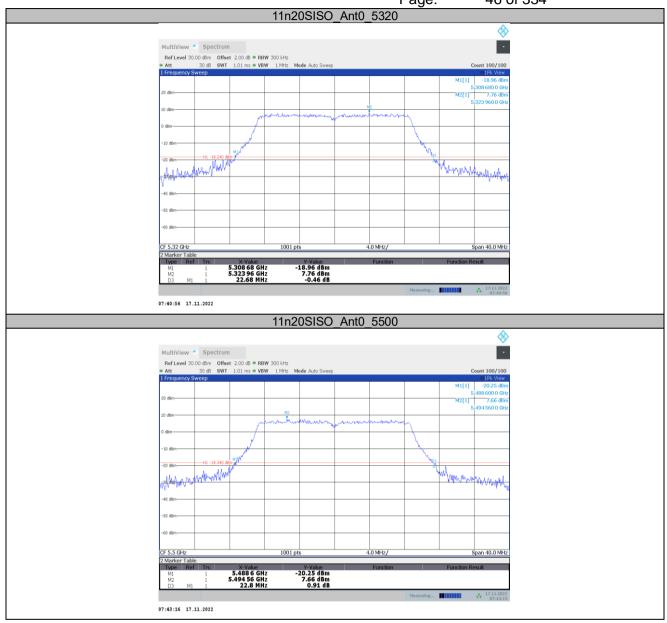
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx.and. for electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions-And-Conditions-and-Conditions-And-Cond



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 46 of 334





Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.aspx.and. for electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions-And-Conditions-and-Conditions-And-Cond

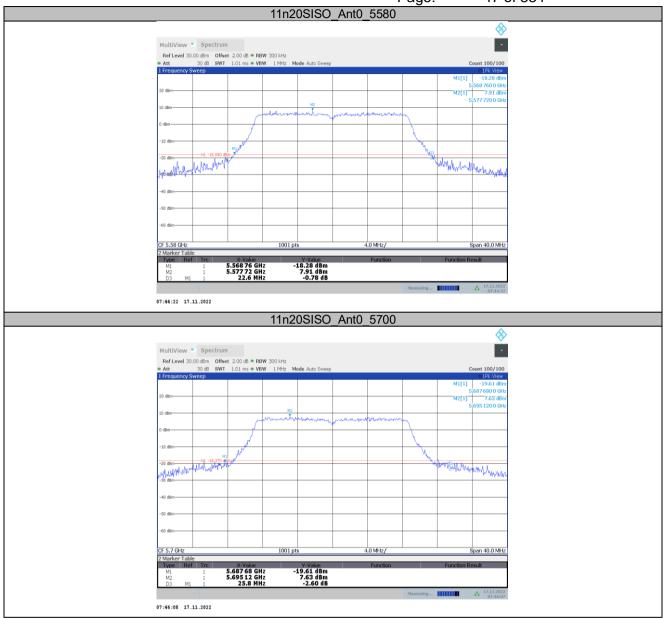
or email: CN_Doccheck@sgs_com John d/Na. Five, hu. Flunsheng Road, Suchou Indastel Park, Suchou Area, China (Jängsa) Plk/Free Trade Zone 中国・苏州・中国(江苏)自由贸易试验区苏州上区苏州工业园区湾胜路1号的6号厂房南部 鄭樂: 215000



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 47 of 334





Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.aspx.and. for electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions-And-Conditions-and-Conditions-And-Cond

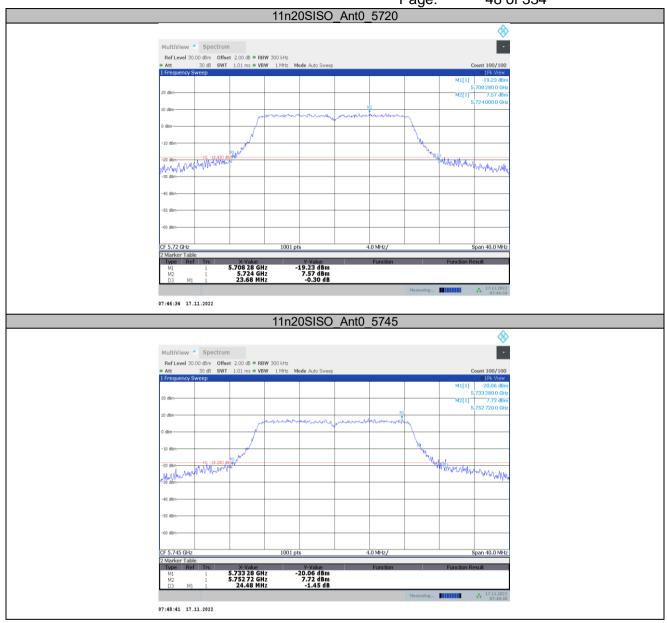
or email: CN_Doccheck@sgs.com South of No.6 Pleat, No.1, Runsheng Rose, Southon Marke Pleat, Suchou Area, Chine (Aiangsu) Plat Free Trade Zone 中国・苏州・中国(江苏)自由贸易试验区苏州十区苏州工业园区沟胜路(号的6号) 房南部 単築: 215000



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 48 of 334





Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.aspx.and. for electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions-And-Conditions-and-Conditions-And-Cond

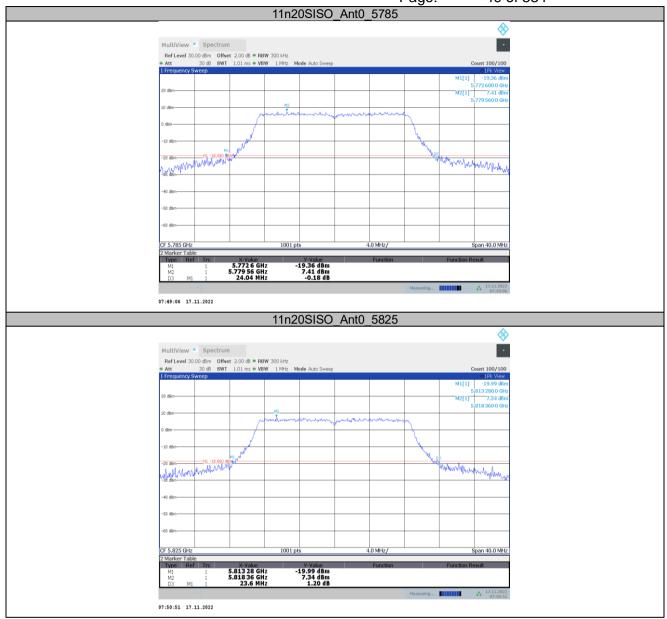
or email: CN. <u>Doccheck@sgs.com</u> Soundrika Fibru, h. [Anshare] pool, Johno Indatafel Park, Suchou Area, China (Jängsi) Pkt Free Trade Zone 215000 中国・苏州・中国(江苏)自由関系试验区苏州上区苏州工业国区河胜路1号的6号厂房南部 鄭樂: 215000



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 49 of 334





Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.aspx.and. for electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions-And-Conditions-and-Conditions-And-Cond

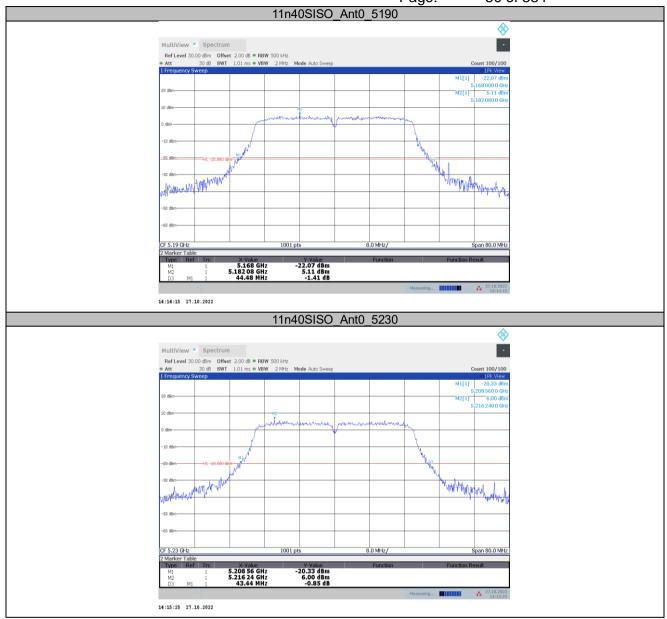
or email: CN_Doccheck@sgs_com John d/Na. Fiyek, th. Flunsheng Road, Suchou Indastell Park, Suchou Area, China (Jángsa) Plk Free Trade Zone 中国・苏州・中国(江苏)自由贸易试验区苏州上区苏州工业园区湾胜路1号的6号厂房南部 鄭樂: 215000



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 50 of 334





Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.aspx.and. for electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions-And-Conditions-and-Conditions-And-Cond

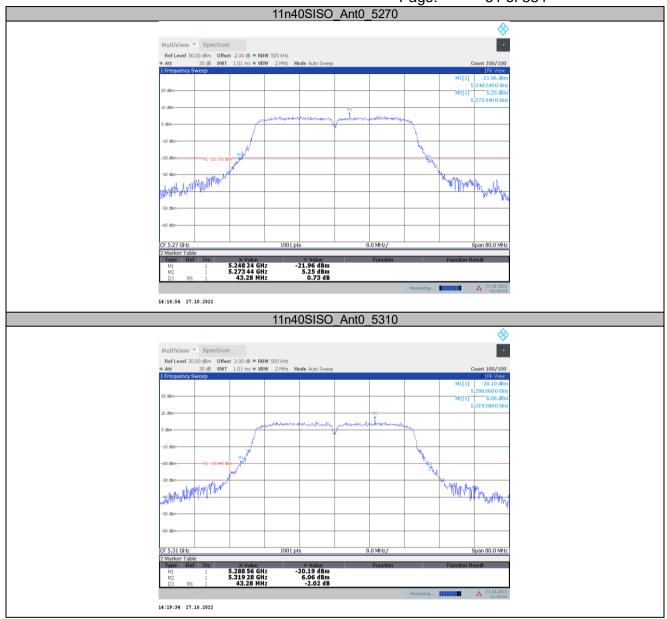
or email: CN_Doccheck@sgs.com South of No.Fleat, No.1, Runsheng Rose, Southon Mostel Park, Suchou Area, Chine (Jángsu) Plot Free Trade Zone 中国・苏州・中国(江苏)自由贸易试验区苏州ト区苏州工业园区海胜路(号約6号厂房南部 邮集: 215000



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 51 of 334





Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.aspx.and. for electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions-And-Conditions-and-Conditions-And-Cond

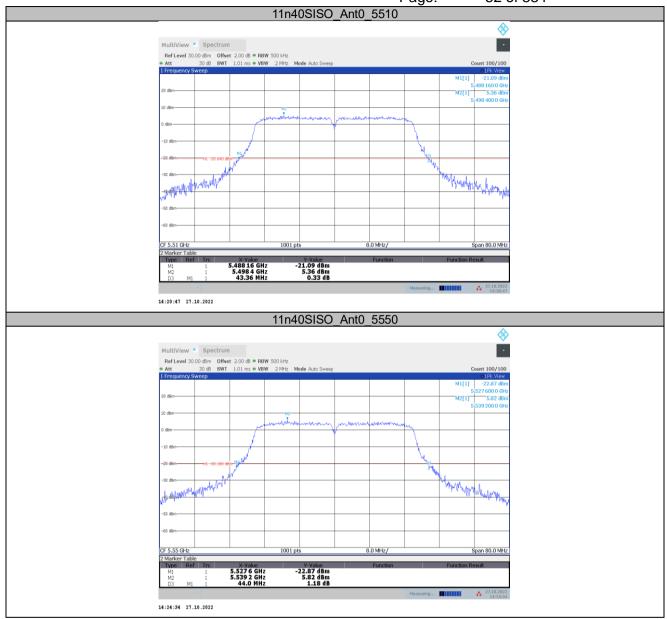
or email: CN_Doccheck@sgs_com John d/Na. Five, hu. Flunsheng Road, Suchou Indastel Park, Suchou Area, China (Jängsa) Plk/Free Trade Zone 中国・苏州・中国(江苏)自由贸易试验区苏州上区苏州工业园区湾胜路1号的6号厂房南部 鄭樂: 215000



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 52 of 334





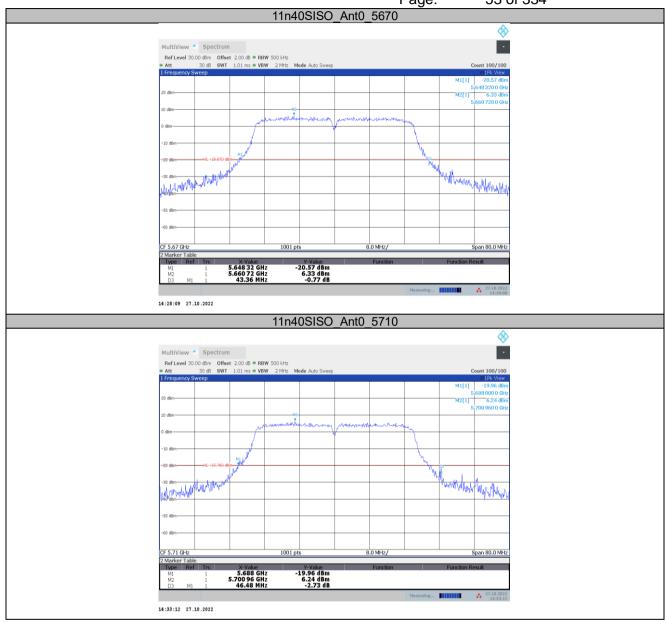
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx.and. for electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions-And-Conditions-and-Conditions-And-Cond



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 53 of 334





Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.aspx.and. for electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions-And-Conditions-and-Conditions-And-Cond

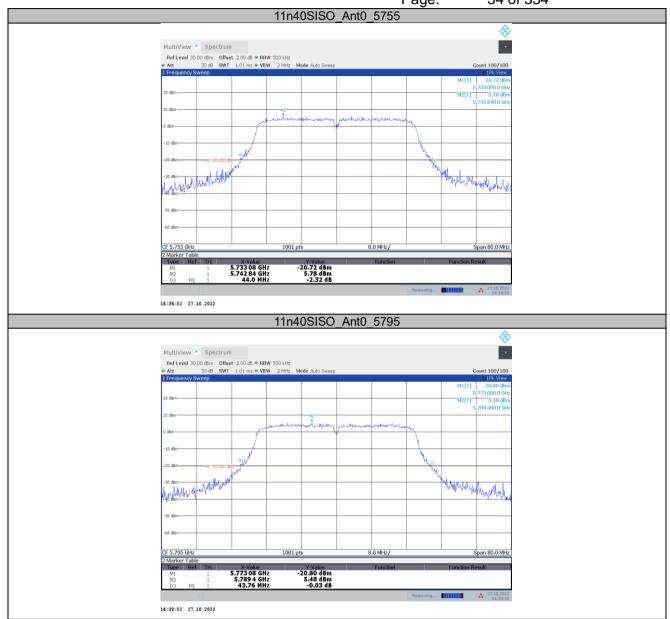
or email: CM_Doccheck@egs.com Sudnith& Feyn, tho. (Runsherg Read, Sudou Indasteil Park, Sudrou Area, China (Jangsu) Plot Free Trade Zone 中国・苏州・中国(江苏)自由贸易は強区苏州片区苏州工业园区园胜路1号的6号「房南部 邮集: 215000



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 54 of 334





Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.aspx.and. for electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions-And-Conditions-and-Conditions-And-Cond

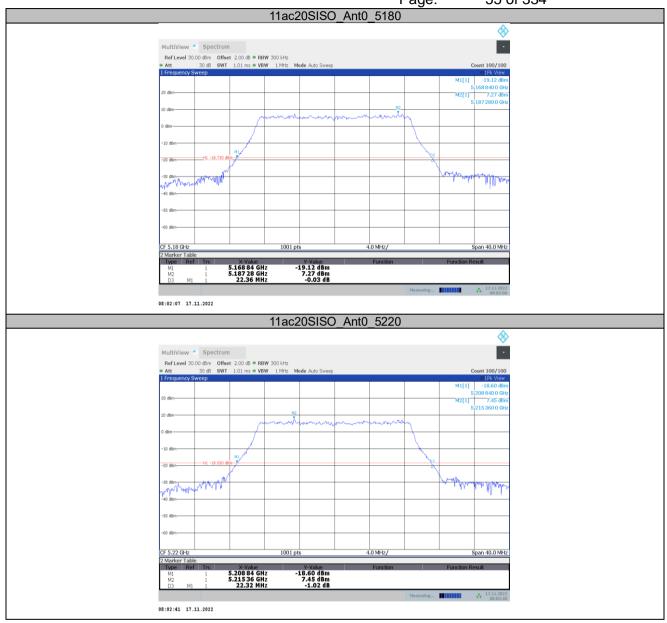
or email: CN_Doccheck@sgs_com John d/Na. Five, hu. Flunsheng Road, Suchou Indastel Park, Suchou Area, China (Jängsa) Plk/Free Trade Zone 中国・苏州・中国(江苏)自由贸易试验区苏州上区苏州工业园区湾胜路1号的6号厂房南部 鄭樂: 215000



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 55 of 334





Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.aspx.and. for electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions-And-Conditions-and-Conditions-And-Cond

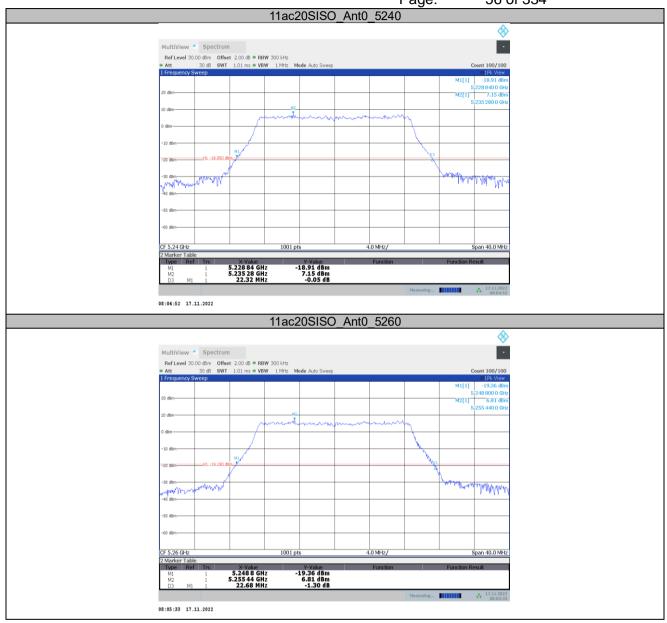
or email: CM_Doccheck@egs.com South of No. Plant, No. 1, Runsheng Road, Subtou Industrial Park, Subtou Area, China (Mangsu) Plot Free Trade Zone 中国 苏州・中国(江苏)自由贸易试验区苏州广区苏州工业园区周胜数1号的号厂房南部 単編: 215000



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 56 of 334





Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.aspx and, for electronic Documents as the subject to Terms and Conditions [Telectronic Document as full the subject or the subject of the subject

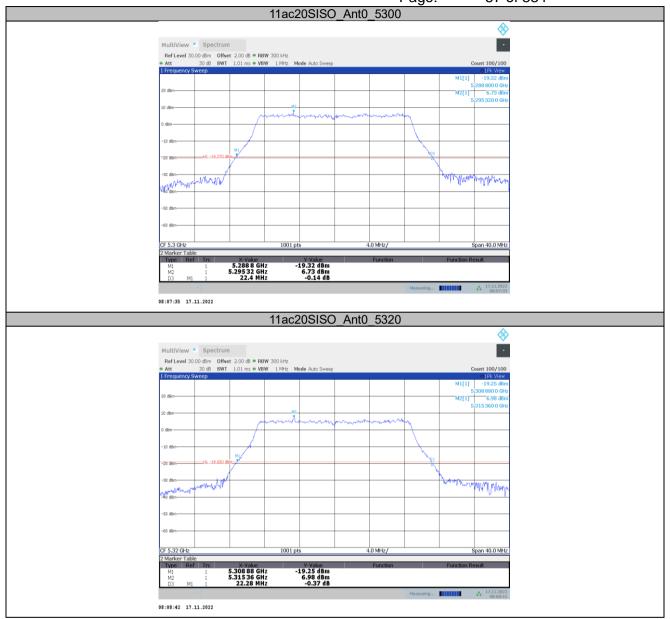
or email: CN.Doccheck@sgs.com | Soundriko Fibruk N. [knshreng Yook] Authou Indatairi Park, Suchou Area, China (Jiangsu) Pkt Free Trade Zone 215000 | 中国・苏州・中国(江苏)自由関系试验区苏州上で苏州工业国区海胜数1号的6号厂房南部 - 鄭塢: 215000



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 57 of 334





Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.aspx and, for electronic Documents as the subject to Terms and Conditions [Telectronic Document as full the subject or the subject of the subject

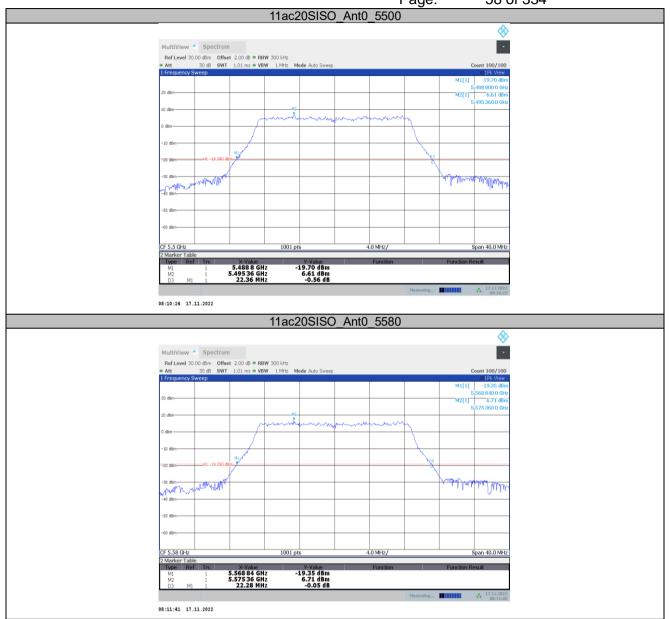
or email: CN_Doceheck@sgs.com South of No Fleat, No.1, Runsheeng Rose, Subou Indixal Park, Subou Area, China (Jángsu) Plot Free Trade Zune 中国 - 苏州 - 中国 (江苏) 自由贸易试验区苏州 | 上型园区湾胜路(号龄6号厂房南部 邮编: 215000



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 58 of 334





Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.aspx.and. for electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions-And-Conditions-and-Conditions-And-Cond

or email: CM_Doccheck@sgs.com South of No. Forth, No. Funshery Read, Subrou Indasteil Park, Suzhou Area, China (Mangsu) Plot Free Trade Zone 中国・苏州・中国(江苏)自由贸易试验区苏州片区苏州工业园区园胜路1号からF广房南部 郵線: 215000



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 59 of 334





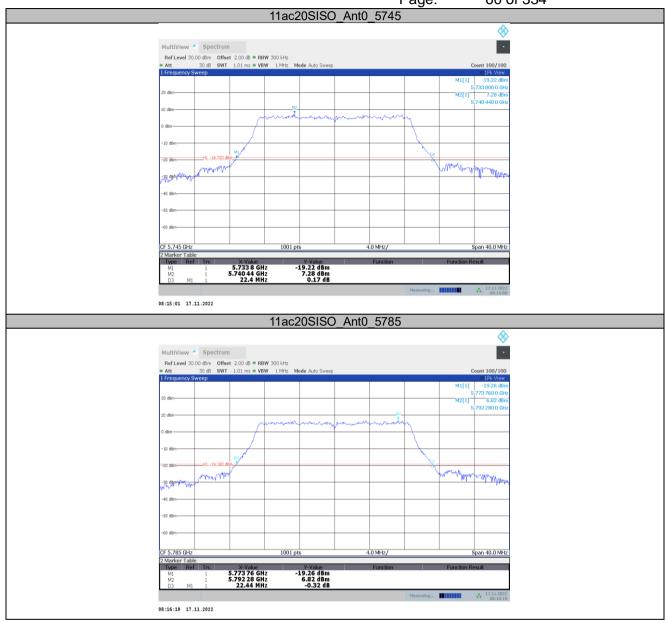
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx.and. for electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions-And-Conditions-and-Conditions-And-Cond



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 60 of 334





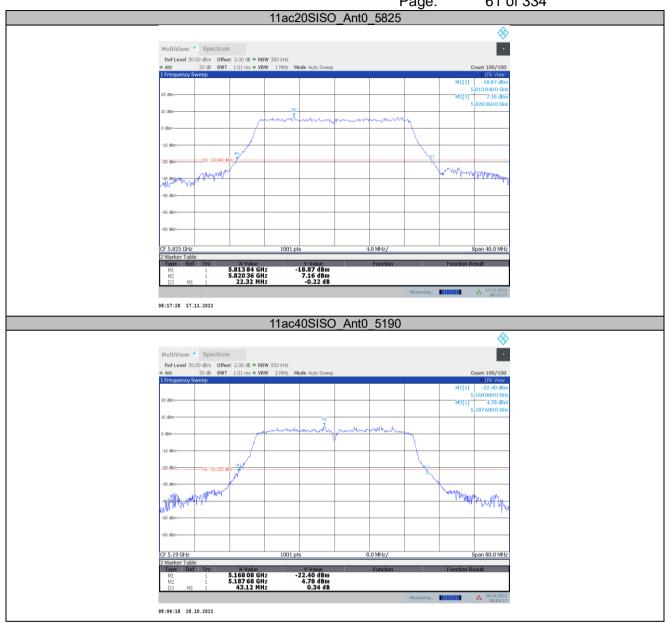
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx.and. for electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions-And-Conditions-and-Conditions-And-Cond



Report No.: SEWA2210000060RG05

Rev.: 01

61 of 334 Page:





Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.aspx and, for electronic Documents as the subject to Terms and Conditions [Telectronic Document as full the subject or the subject of the subject

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 中国・苏州・中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

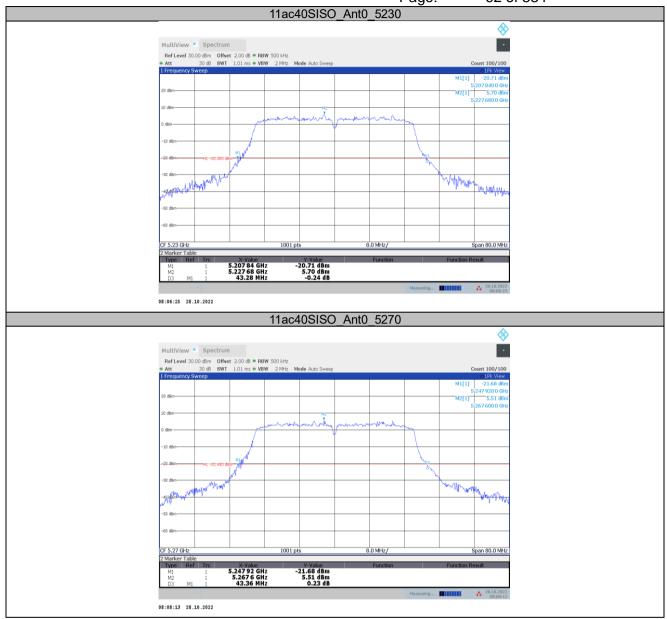
t (86-512) 62992980 www.sgsgroup.com.cn sgs.china@sgs.com t (86-512) 62992980



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 62 of 334





Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.aspx.and. for electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions-And-Conditions-and-Conditions-And-Cond

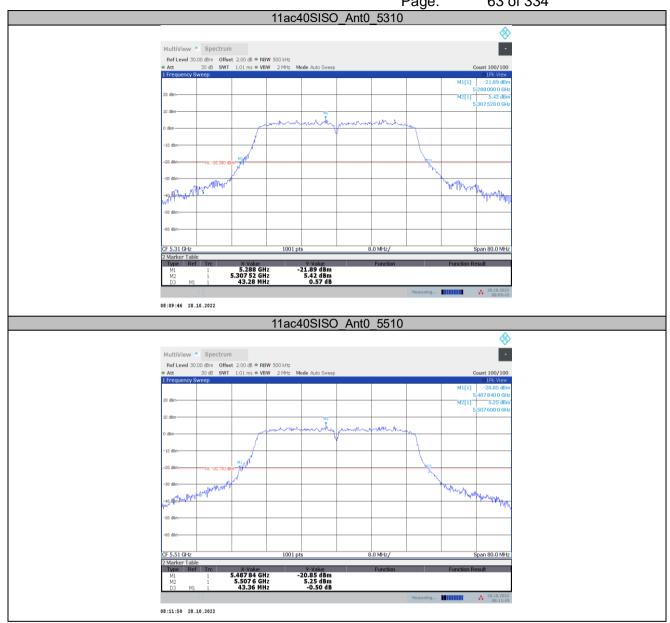
or email: CN_Doccheck@sgs_com John d/Na. Five, hu. Flunsheng Road, Suchou Indastel Park, Suchou Area, China (Jängsa) Plk/Free Trade Zone 中国・苏州・中国(江苏)自由贸易试验区苏州上区苏州工业园区湾胜路1号的6号厂房南部 鄭樂: 215000



Report No.: SEWA2210000060RG05

Rev.: 01

63 of 334 Page:





Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.aspx and, for electronic Documents as the subject to Terms and Conditions [Telectronic Document as full the subject or the subject of the subject

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 中国・苏州・中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

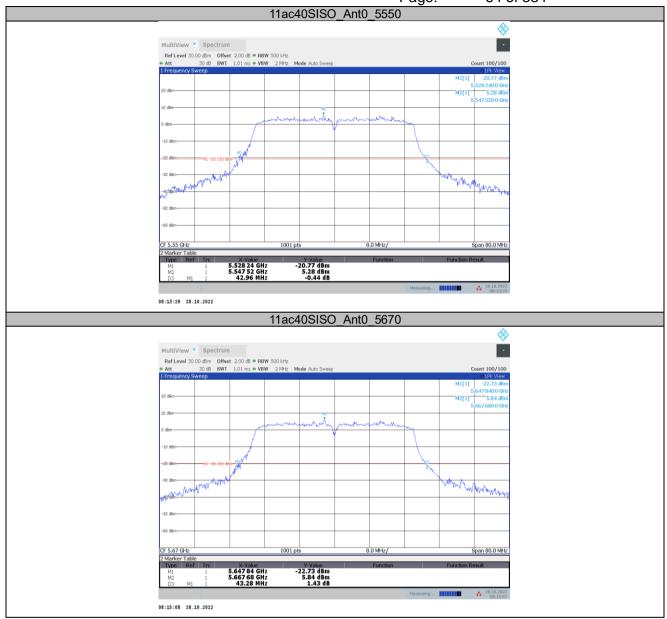
t (86-512) 62992980 www.sgsgroup.com.cn sgs.china@sgs.com t (86-512) 62992980



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 64 of 334





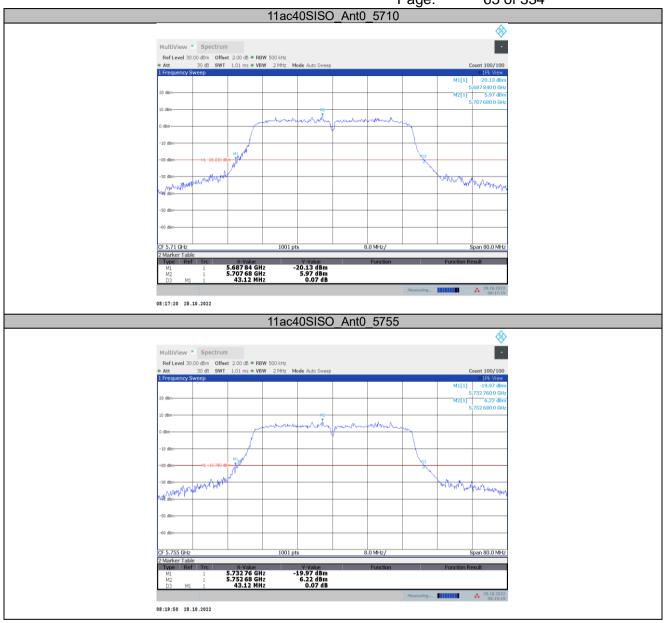
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx.and. for electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions-And-Conditions-and-Conditions-And-Cond



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 65 of 334





Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.aspx.and. for electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions-And-Conditions-and-Conditions-And-Cond



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 66 of 334





Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.aspx.and. for electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions-And-Conditions-and-Conditions-And-Cond

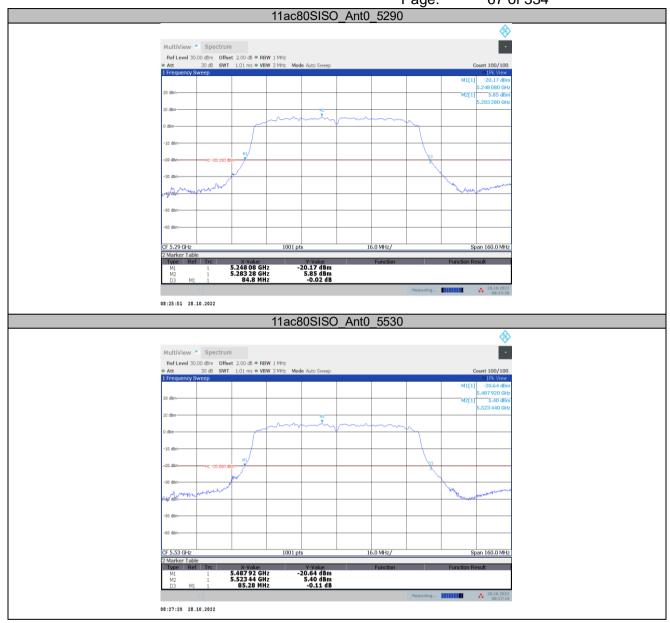
or email: CN.Doccheck@sgs.com Sound No. Flext, No. 1, Runsheng Rost, Soubu Indxish Park, Suchou Area, Clinie (Aingsu) Plot Free Trade Zone 中国 - 苏州 - 中国 (丁苏) 自由贸易试验区苏州十区苏州工业园区润胜路1号的6千 房南部 邮集 215000



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 67 of 334





Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.aspx.and. for electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions-And-Conditions-and-Conditions-And-Cond

or email: CN_Doccheck@sgs_com John d/Na. Fiyek, th. Flunsheng Road, Suchou Indastell Park, Suchou Area, China (Jángsa) Plk Free Trade Zone 中国・苏州・中国(江苏)自由贸易试验区苏州上区苏州工业园区湾胜路1号的6号厂房南部 鄭樂: 215000



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 68 of 334





Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.aspx.and. for electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions-And-Conditions-and-Conditions-And-Cond

or email: CN_Doccheck@sgs_com John d/Na. Fiyek, Na, Runshang Road, Suchou Indasteli Park, Suchou Area, China (Jángsa) PM Free Trade Zone 中国・苏州・中国(江苏)自由贸易试验区苏州上区苏州工业园区湾胜路1号的6号厂房南部 鄭樂: 215000



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 69 of 334





Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.aspx and, for electronic Documents as the subject to Terms and Conditions [Telectronic Document as full the subject or the subject of the subject

Core mail: CLV_DOCCNeCK@segs.com | South of No. Filent, No. (Runshare) Road, Subou Indistale Park, Suzhou Area, China (Jangsu) Plot Free Trade Zone 215000 中国・苏州・中国(江苏)自由贸易试验区苏州上区苏州工业园区园胜路(号約6号厂房南部 邮集: 215000



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 70 of 334

Occupied channel bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
	Ant0	5180	17.83	5171.070	5188.900	
11a		5220	17.829	5211.067	5228.896	
		5240	17.811	5231.078	5248.889	
		5260	17.813	5251.059	5268.872	
		5300	17.86	5291.076	5308.936	
		5320	17.853	5311.018	5328.871	
		5500	17.823	5491.054	5508.877	
		5580	17.878	5571.066	5588.944	
		5700	17.912	5690.981	5708.893	
		5720	17.85	5711.052	5728.902	
		5720_UNII-2C	13.948	5711.052	5725	
		5720_UNII-3	3.902	5725	5728.902	
		5745	17.785	5736.050	5753.835	
		5785	17.734	5776.069	5793.803	
		5825	17.898	5815.997	5833.895	
		5180	18.667	5170.635	5189.302	
		5220	18.656	5210.654	5229.310	
		5240	18.692	5230.661	5249.353	
		5260	18.698	5250.648	5269.346	
		5300	18.683	5290.668	5309.351	
	Ant0	5320	18.652	5310.689	5329.341	1
		5500	18.68	5490.663	5509.343	
11n20SISO		5580	18.736	5570.622	5589.359	Reporting only
		5700	18.677	5690.652	5709.329	
		5720	18.611	5710.668	5729.278	
		5720_UNII-2C	14.332	5710.668	5725	
		5720_UNII-3	4.278	5725	5729.278	
		5745	18.65	5735.663	5754.313	
		5785	18.713	5775.601	5794.314	
		5825	18.655	5815.658	5834.313	
		5190	37.052	5171.491	5208.543	
11n40SISO		5230	37.045	5211.490	5248.535	
		5270	37.066	5251.541	5288.607	
		5310	36.977	5291.489	5328.465	
		5510	37.053	5491.481	5528.534	
	Ant0	5550	36.991	5531.511	5568.502	
		5670	36.955	5651.515	5688.470	
		5710	37.098	5691.473	5728.571	
		5710_UNII-2C	33.527	5691.473	5725	
		5710_UNII-3	3.571	5725	5728.571	
		5755	37.052	5736.486	5773.538	
		5795	37.134	5776.374	5813.508	
11ac20SISO	Ant0	5180	18.587	5170.665	5189.252	
		5220	18.609	5210.649	5229.257	
		5240	18.607	5230.671	5249.278	
		5260	18.635	5250.643	5269.278	
		5300	18.59	5290.664	5309.254	
		5320	18.572	5310.669	5329.241	
		5500	18.998	5490.520	5509.517	
		5580	18.593	5570.658	5589.252]
		5700	18.617	5690.639	5709.256	
		5720	18.634	5710.645	5729.279	1



Unless otherwise agreed in writing, 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/en/Terms-and-Conditions for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CND Doccheck@ass.com

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 中国 - 苏州 • 中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6月厂房南部 邮编: 215000



Report No.: SEWA2210000060RG05

Rev.: 01

Page: 71 of 334

		5720_UNII-2C	14.355	5710.645	5725	
		5720_UNII-3	4.279	5725	5729.279	
		5745	18.628	5735.648	5754.276	
		5785	18.639	5775.622	5794.261	
		5825	18.595	5815.648	5834.242	
	Ant0	5190	36.901	5171.446	5208.347	
		5230	36.898	5211.462	5248.360	
		5270	36.911	5251.460	5288.371	
		5310	36.893	5291.447	5328.340	
		5510	36.928	5491.425	5528.353	
11ac40SISO		5550	36.934	5531.429	5568.363	
1180405150		5670	36.943	5651.401	5688.344	
		5710	36.93	5691.418	5728.348	
		5710_UNII-2C	33.582	5691.418	5725	
		5710_UNII-3	3.348	5725	5728.348	
		5755	36.933	5736.413	5773.345	
		5795	36.943	5776.397	5813.340	
11ac80SISO	Ant0	5210	75.272	5172.579	5247.851	
		5290	75.356	5252.466	5327.822	
		5530	75.242	5492.576	5567.818	
		5610	75.147	5572.614	5647.761	
		5690	75.431	5652.373	5727.804	
		5690_UNII-2C	72.627	5652.373	5725	
		5690_UNII-3	2.804	5725	5727.804	
		5775	75.258	5737.500	5812.759	



Unless otherwise agreed in writing, 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/en/Terms-and-Conditions for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CND Doccheck@ass.com

South of No. O Plant, No. 1, Runshera Road, Suchou Industrial Park, Suzhou Area, China (Jangsu) Pikt Free Trade Zone 215000 中国 - 苏州 - 中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路(号的6号厂房南部 邮编: 215000 t (86–512) 62992980 www.sgsgroup.com.cn t (86–512) 62992980 sgs.china@sgs.com

Member of the SGS Group (SGS SA)