

FCC SAR TEST REPORT

Application No: ZR/2020/70015
Applicant: Samsung Electronics Co.,Ltd.
Product Name: Portable Tablet
Model No.(EUT): SM-T870
Trade Mark: SAMSUNG
FCC ID: A3LSMT870
Standards: FCC 47CFR §2.1093
Date of Receipt: 2020-07-08
Date of Test: 2020-07-10 to 2020-07-14
Date of Issue: 2020-07-27
Test conclusion: **PASS ***

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

Authorized Signature:

Derek Yang

Wireless Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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-Documents.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@sgs.com

REVISION HISTORY

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020-07-17		Original
02	8	2020-07-22	Simon ling	1. Update the name of power table is the same as tune up description
	8.1.3/8.1.4			2. Update the Bluetooth Reduced Power- Grip Active
	8.2			3. Add SAR test plan description: Because the max power level of the RSDB mode are less than the non-RSDB mode, the non-RSDB mode SAR can cover the RSDB mode, SAR of the RSDB mode are not measured in this report.
	8.3			4. SAR data table add plot#.
	Appendix B			5. Update the plot 5#
03	5.1.1	2020-07-23	Simon ling	1. Separate the WiFi & BT graph
	8.1			2. Add the CH12/13 power
	8.3			3. Update the SAR table for MIMO SAR
04	5.1.1	2020-07-27	Simon ling	1. Update the proximity sensor power reduced table
	8.3			2. Update the MIMO SAR Value
	8.4.2			3. Update Simultaneous Transmission SAR table



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-Documents.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@sgs.com



TEST SUMMARY

Frequency Band	Maximum Reported SAR(W/kg)	
	Body	
WI-FI (2.4GHz)	0.42	
WI-FI (5GHz)	1.10	
BT	0.20	
SAR Limited(W/kg)	1.6	
Maximum Simultaneous Transmission SAR (W/kg)		
Scenario	Body-worn	
Sum SAR	1.59	
SPLSR	NA	
SPLSR Limited	0.04	

Approved & Released by

Simon Ling

SAR Manager

Tested by

Jackson Li

SAR Engineer



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-Documents.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@sgs.com

CONTENTS

1	GENERAL INFORMATION	6
1.1	DETAILS OF CLIENT	6
1.2	TEST LOCATION	6
1.3	TEST FACILITY	7
1.4	GENERAL DESCRIPTION OF EUT	8
1.4.1	DUT Antenna Locations.....	9
1.5	TEST SPECIFICATION.....	10
1.6	RF EXPOSURE LIMITS	11
2	LABORATORY ENVIRONMENT.....	12
3	SAR MEASUREMENTS SYSTEM CONFIGURATION.....	13
3.1	THE SAR MEASUREMENT SYSTEM	13
3.2	ISOTROPIC E-FIELD PROBE EX3DV4.....	14
3.3	DATA ACQUISITION ELECTRONICS (DAE).....	15
3.4	SAM TWIN PHANTOM	15
3.5	ELI PHANTOM	16
3.6	DEVICE HOLDER FOR TRANSMITTERS	17
3.7	MEASUREMENT PROCEDURE	18
3.7.1	Scanning procedure.....	18
3.7.2	Data Storage.....	20
3.7.3	Data Evaluation by SEMCAD.....	20
4	SAR MEASUREMENT VARIABILITY AND UNCERTAINTY.....	22
4.1	SAR MEASUREMENT VARIABILITY	22
4.2	SAR MEASUREMENT UNCERTAINTY	23
5	DESCRIPTION OF TEST POSITION.....	24
5.1	BODY EXPOSURE CONDITION.....	24
5.1.1	Proximity Sensor Triggering Test.....	25
6	SAR SYSTEM VERIFICATION PROCEDURE.....	59
6.1	TISSUE SIMULATE LIQUID.....	59
6.1.1	Recipes for Tissue Simulate Liquid.....	59



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@sgs.com



6.1.2 Measurement for Tissue Simulate Liquid..... 60
6.2 SAR SYSTEM CHECK..... 61
6.2.1 Summary System Check Result(s)..... 62
6.2.2 Detailed System Check Results..... 62
7 TEST CONFIGURATION..... 63
7.1 OPERATION CONFIGURATIONS 63
7.1.1 WiFi Test Configuration 63
8 TEST RESULT 76
8.1 MEASUREMENT OF RF CONDUCTED POWER 76
8.1.1 Conducted Power of WIFI Antenna 1 76
8.1.2 Conducted Power of WIFI Antenna 2 92
8.1.3 Conducted Power of Bluetooth Antenna 1 108
8.1.4 Conducted Power of Bluetooth Antenna 2 111
8.1.5 Conducted Power of WiFi MIMO..... 115
8.1.6 Conducted Power of WiFi 802.11ax 131
8.2 STAND-ALONE SAR TEST EVALUATION 132
8.3 MEASUREMENT OF SAR DATA 135
8.3.1 SAR Result of Wi-Fi 2.4GHz 135
8.3.1 SAR Result of Wi-Fi 5GHz..... 137
8.3.2 SAR Result of Bluetooth..... 143
8.4 MULTIPLE TRANSMITTER EVALUATION 144
8.4.1 Simultaneous SAR test evaluation..... 144
8.4.2 Simultaneous Transmission SAR Summation Scenario 144
9 EQUIPMENT LIST 145
10 CALIBRATION CERTIFICATE 146
11 PHOTOGRAPHS 146
APPENDIX A: DETAILED SYSTEM CHECK RESULTS 147
APPENDIX B: DETAILED TEST RESULTS 147
APPENDIX C: CALIBRATION CERTIFICATE 147
APPENDIX D: PHOTOGRAPHS..... 147



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-Documents.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@sgs.com



1 General Information

1.1 Details of Client

Applicant:	Samsung Electronics Co.,Ltd.
Address:	Address:129,Samsung-ro,Yeongtong-gu,Suwon-si,Gyeonggi-do,16677,Rep.of Korea.

1.2 Test Location

Company: SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
 Address: No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China
 Post code: 518057
 Telephone: +86 (0) 755 2601 2053
 Fax: +86 (0) 755 2671 0594
 E-mail: ee.shenzhen@sgs.com



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-Documents.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@sgs.com

1.3 Test Facility

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

- **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Industry Canada (IC)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006

IC#: 4620C.



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-Documents.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@sgs.com

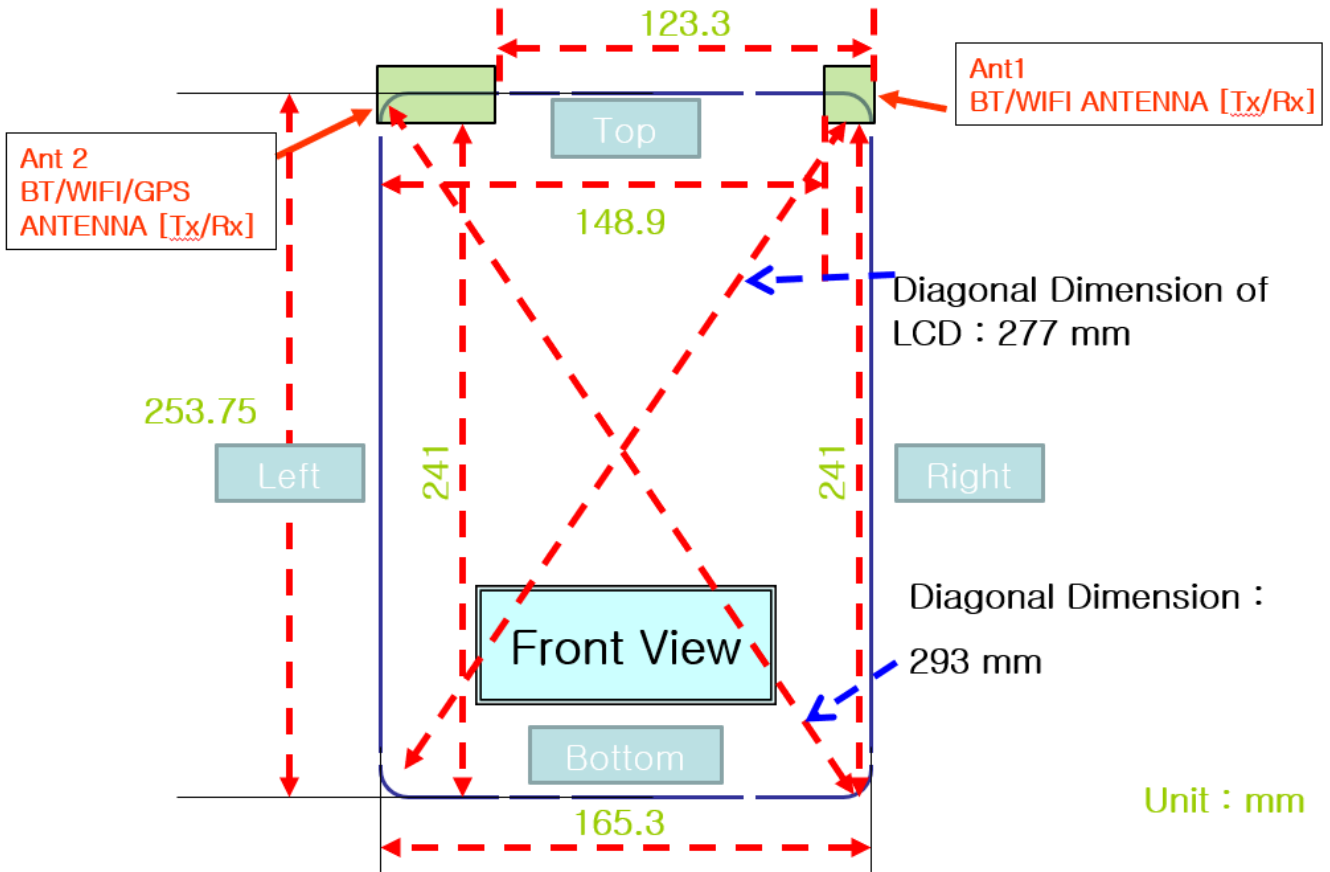
1.4 General Description of EUT

Product Name:	Portable Tablet		
Model No.(EUT):	SM-T870		
Trade Mark:	SAMSUNG		
Product Phase:	production unit		
Device Type:	portable device		
Exposure Category:	uncontrolled environment / general population		
SN:	R32N600122E/ R32N600131L/ R32N600123X		
FCC ID:	A3LSMT870		
Hardware Version:	REV1.0		
Software Version:	T870.001		
Antenna Type:	METAL FRAME ANTENNA		
Device Operating Configurations:			
Modulation Mode:	802.11 a/b/g/n/ac/ax: DSSS, OFDM, OFDMA; BT: GFSK, $\pi/4$ DQPSK, 8DPSK		
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)
	WIFI(2.4GHz)	2412-2472	2412-2472
	WIFI(5GHz)	5150-5250	5150-5250
		5250-5350	5250-5350
		5470-5725	5470-5725
		5725-5850	5725-5850
BT	2402-2480	2402-2480	
POGO Keyboard	Model:	EJ-D870	
	Manufacturer:	SAMSUNG Electronics Vietnam	



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-Documents.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@sgs.com

1.4.1 DUT Antenna Locations



Note:

- 1) Per KDB 616217, the diagonal length is > 200mm, the device is considered a “tablet” device and needed to test 0mm 1-g body SAR.





1.5 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI/IEEE Std C95.1 – 1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 248227 D01 v02r02	802.11 Wi-Fi SAR
KDB 616217 D04 v01r02	SAR for laptop and tablets
KDB447498 D01 v06	General RF Exposure Guidance
KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
KDB 865664 D02 v01r02	RF Exposure Reporting



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-Documents.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@sgs.com

1.6 RF exposure limits

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR* (Brain*Trunk)	1.60 W/kg	8.00 W/kg
Spatial Average SAR** (Whole Body)	0.08 W/kg	0.40 W/kg
Spatial Peak SAR*** (Hands/Feet/Ankle/Wrist)	4.00 W/kg	20.00 W/kg

Notes:

* The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time

** The Spatial Average value of the SAR averaged over the whole body.

*** The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation.)



2 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C
Relative humidity	Min. = 30%, Max. = 70%
Ground system resistance	< 0.5 Ω
Ambient noise is checked and found very low and in compliance with requirement of standards.	
Reflection of surrounding objects is minimized and in compliance with requirement of standards.	

Table 1: The Ambient Conditions




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-Documents.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@sgs.com

- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows 7.
- DASY5 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand, right-hand and Body Worn usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validating the proper functioning of the system.

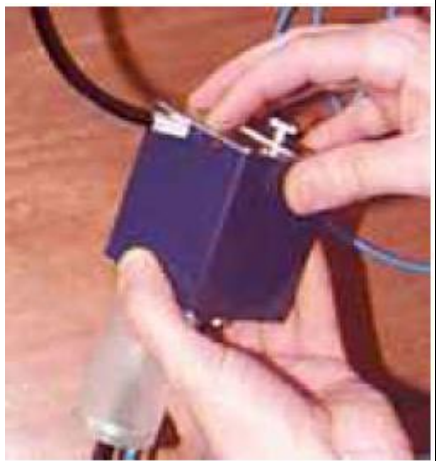
3.2 Isotropic E-field Probe EX3DV4

	<p>Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)</p>
Calibration	ISO/IEC 17025 calibration service available.
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μ W/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
Compatibility	DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI




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-Documents.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@sgs.com

3.3 Data Acquisition Electronics (DAE)

Model	DAE	
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY4/5 embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.	
Measurement Range	-100 to +300 mV (16 bit resolution and two range settings: 4mV,400mV)	
Input Offset Voltage	< 5 μ V (with auto zero)	
Input Bias Current	< 50 f A	
Dimensions	60 x 60 x 68 mm	

3.4 SAM Twin Phantom


Material	Vinylester, glass fiber reinforced (VE-GF)	
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)	
Shell Thickness	2 \pm 0.2 mm (6 \pm 0.2 mm at ear point)	
Dimensions (incl. Wooden Support)	Length: 1000 mm Width: 500 mm Height: adjustable feet	
Filling Volume	approx. 25 liters	
Wooden Support	SPEAG standard phantom table	

The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.

Twin SAM V5.0 has the same shell geometry and is manufactured from the same material as Twin SAM V4.0, but has reinforced top structure.



3.5 ELI Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)	
Liquid	Compatible with all SPEAG tissue	
Compatibility	simulating liquids (incl. DGBE type)	
Shell Thickness	2.0 ± 0.2 mm (bottom plate)	
Dimensions	Major axis: 600 mm Minor axis: 400 mm	
Filling Volume	approx. 30 liters	
Wooden Support	SPEAG standard phantom table	

Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.

ELI V5.0 has the same shell geometry and is manufactured from the same material as ELI4, but has reinforced top structure.



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-Documents.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@sgs.com

3.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

- The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation centres for both scales are the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.
- The DASY device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon=3$ and loss tangent $\delta=0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



3.7 Measurement procedure

3.7.1 Scanning procedure

Step 1: Power reference measurement

The “reference” and “drift” measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure.

Step 2: Area scan

The SAR distribution at the exposed side of the head was measured at a distance of 4mm from the inner surface of the shell. The area covered the entire dimension of the head and the horizontal grid spacing was 15mm*15mm or 12mm*12mm or 10mm*10mm. Based on the area scan data, the area of the maximum absorption was determined by spline interpolation.

Step 3: Zoom scan

Around this point, a volume of 30mm*30mm*30mm (fine resolution volume scan, zoom scan) was assessed by measuring 5x5x7 points ($\leq 2\text{GHz}$) and 7x7x7 points ($\geq 2\text{GHz}$). On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

The data at the surface was extrapolated, since the centre of the dipoles is 2.0mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.2mm. (This can be variable. Refer to the probe specification). The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axis. This polynomial was then used to evaluate the points between the surface and the probe tip. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1g or 10g) were computed using the 3D-Spline interpolation algorithm. The volume was integrated with the trapezoidal algorithm. One thousand points were interpolated to calculate the average. All neighbouring volumes were evaluated until no neighboring volume with a higher average value was found.

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements. Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1-g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std. 1528-2003.



		≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location		$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}		≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
		When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be \leq the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx_{Zoom} , Δy_{Zoom}		≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$
Minimum zoom scan volume	x, y, z	≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm
<p>Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.</p> <p>* When zoom scan is required and the <u>reported</u> SAR from the <u>area scan based 1-g SAR estimation</u> procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.</p>			

Step 4: Power reference measurement (drift)

The Power Drift Measurement job measures the field at the same location as the most recent power reference measurement job within the same procedure, and with the same settings. The indicated drift is mainly the variation of the DUT's output power and should vary max. $\pm 5\%$



3.7.2 Data Storage

The DASY software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension “.DAE”. The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated. The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [m W/g], [m W/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

3.7.3 Data Evaluation by SEMCAD

The SEMCAD software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters:	- Sensitivity	Normi, ai0, ai1, ai2
	- Conversion factor	ConvFi
	- Diode compression point	Dcpi
Device parameters:	- Frequency	f
	- Crest factor	cf
Media parameters:	- Conductivity	ε
	- Density	ρ

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics.

If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power.

The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot cf / dcpi$$

With V_i = compensated signal of channel i ($i = x, y, z$)

U_i = input signal of channel i ($i = x, y, z$)

cf = crest factor of exciting field (DASY parameter)

dcpi = diode compression point (DASY parameter)

From the compensated input signals the primary field data for each channel can be evaluated:



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@sgs.com

E-field probes:

$$E_i = (V_i / Norm_i \cdot ConvF)^{1/2}$$

H-field probes:

$$H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1}f + a_{i2}f^2) / f$$

With V_i = compensated signal of channel i (i = x, y, z)

$Norm_i$ = sensor sensitivity of channel i (i = x, y, z)

[mV/(V/m)²] for E-field Probes

ConvF = sensitivity enhancement in solution

a_{ij} = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

E_i = electric field strength of channel i in V/m

H_i = magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{tot} = (E_x^2 + E_y^2 + E_z^2)^{1/2}$$

The primary field data are used to calculate the derived field units.

$$SAR = (E_{tot}^2 \cdot \sigma) / (\epsilon \cdot 1000)$$

with SAR = local specific absorption rate in mW/g

E_{tot} = total field strength in V/m

σ = conductivity in [mho/m] or [Siemens/m]

ϵ = equivalent tissue density in g/cm³

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{pwe} = E_{tot}^2 / 3770 \quad \text{or} \quad P_{pwe} = H_{tot}^2 \cdot 37.7$$

with P_{pwe} = equivalent power density of a plane wave in mW/cm²

E_{tot} = total electric field strength in V/m

H_{tot} = total magnetic field strength in A/m



4 SAR measurement variability and uncertainty

4.1 SAR measurement variability

Per KDB865664 D01 SAR measurement 100 MHz to 6 GHz v01r04, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.

2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.

3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).

4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.



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-Documents.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@sgs.com



4.2 SAR measurement uncertainty

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.



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-Documents.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@sgs.com

5 Description of Test Position

5.1 Body Exposure Condition

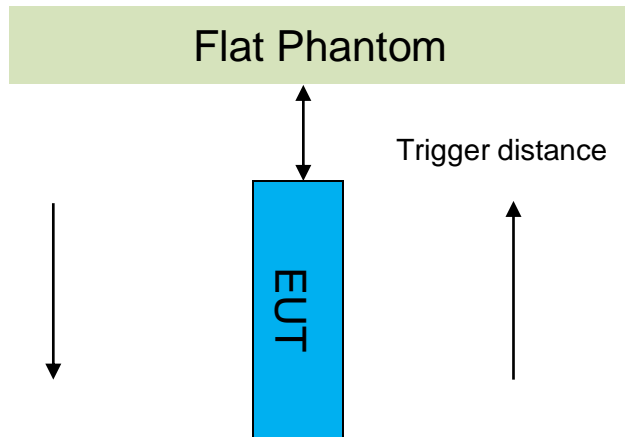
The overall diagonal dimension of the display section of a tablet is > 20 cm, Per FCC KDB 616217, the back surface and edges of the tablet should be tested for SAR compliance with the tablet touching the phantom. SAR evaluation for the front surface of tablet display screens are generally not necessary. The SAR Exclusion Threshold in KDB 447498 D01 can be applied to determine SAR test exclusion for adjacent edge configurations. The closest distance from the antenna to an adjacent tablet edge is used to determine if SAR testing is required for the adjacent edges, with the adjacent edge positioned against the phantom and the edge containing the antenna positioned perpendicular to the phantom.



5.1.1 Proximity Sensor Triggering Test

1) Proximity sensor triggering distances

The Proximity sensor triggering was applied to WIFI and Bluetooth. Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed.



Antenna 1

Proximity Sensor Triggering Distance(mm)			
Position	Back	Right	Top
Minimum	11	9	16
Required SAR Test	10	8	15



Reduced Power- Grip Active

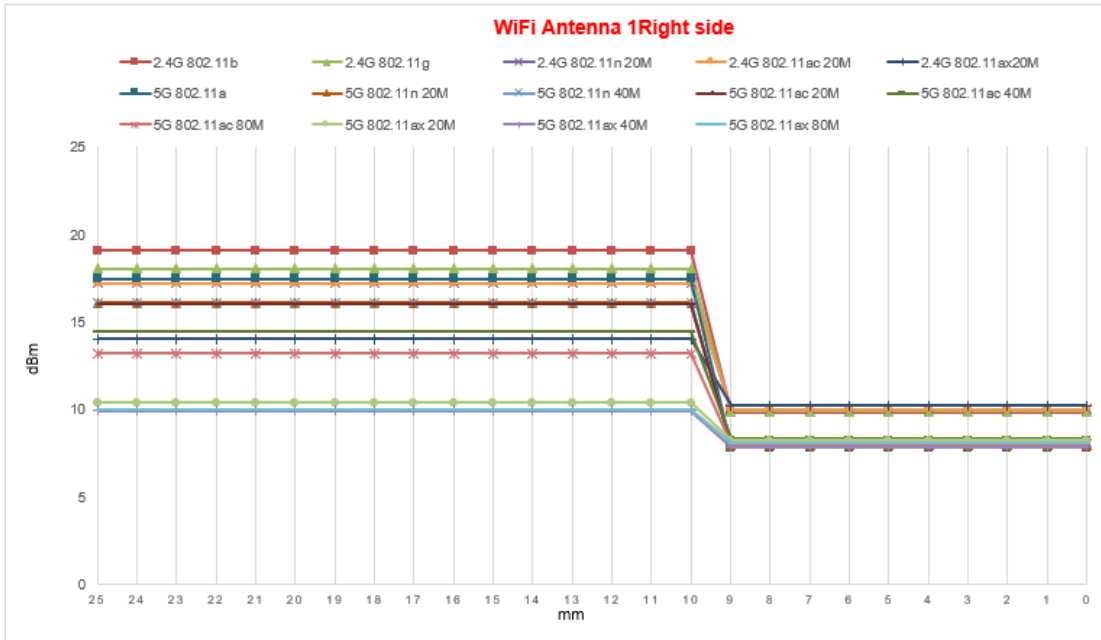
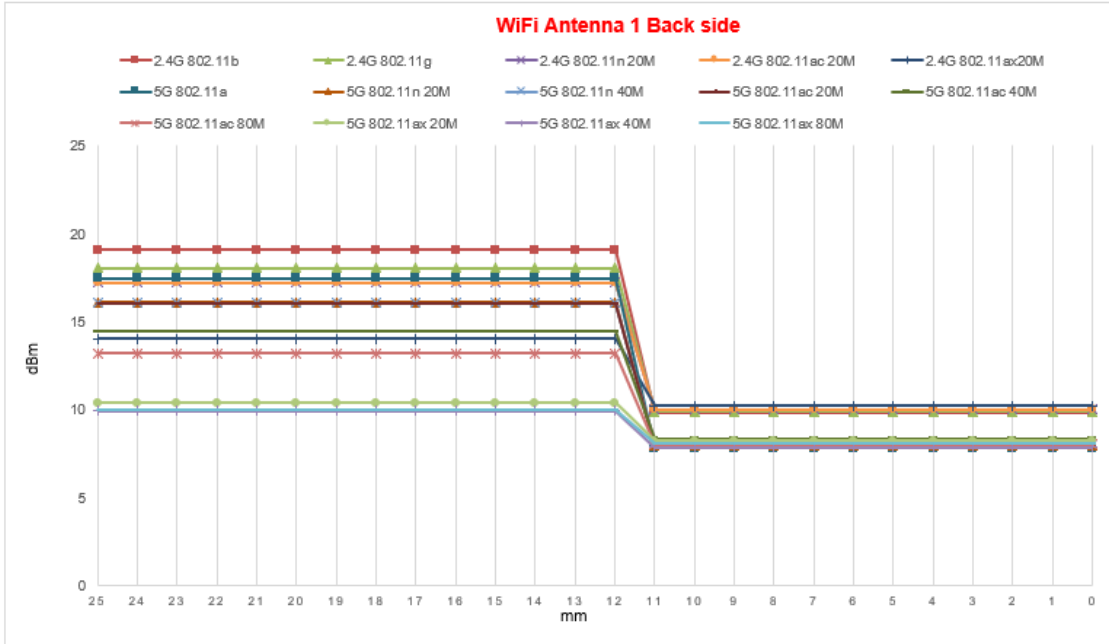
Antenna	Band	Trigger Condition	Body exposure condition	
			Maximum Power (dBm)	Reduced Power-Grip Active (dBm)
WIFI Antenna1	2.4G 802.11b	Back side: Close to 11mm Right side: Close to 9mm Top side: Close to 16mm	20.0	11.0
	2.4G 802.11g		19.0	11.0
	2.4G 802.11n 20M		18.0	11.0
	2.4G 802.11ac 20M		15.0	11.0
	5G 802.11a	Back side: Close to 11mm Right side: Close to 9mm Top side: Close to 16mm	18.0	9.0
	5G 802.11n 20M		17.0	9.0
	5G 802.11n 40M		17.0	9.0
	5G 802.11ac 20M		17.0	9.0
	5G 802.11ac 40M		15.0	9.0
	5G 802.11ac 80M		14.0	9.0
	5G 802.11ax 20M		11.0	9.0
	5G 802.11ax 40M		11.0	9.0
	5G 802.11ax 80M		11.0	9.0
	Bluetooth Antenna1		BR	Back side: Close to 11mm Right side: Close to 9mm Top side: Close to 16mm
	EDR	15.5	8.5	

Note: SAR tests with proximity sensor power reduction are only required for the sides of frequency bands in the table above. For the other sides or other frequency bands of the device, SAR is still tested at the maximum power level with sensor off.



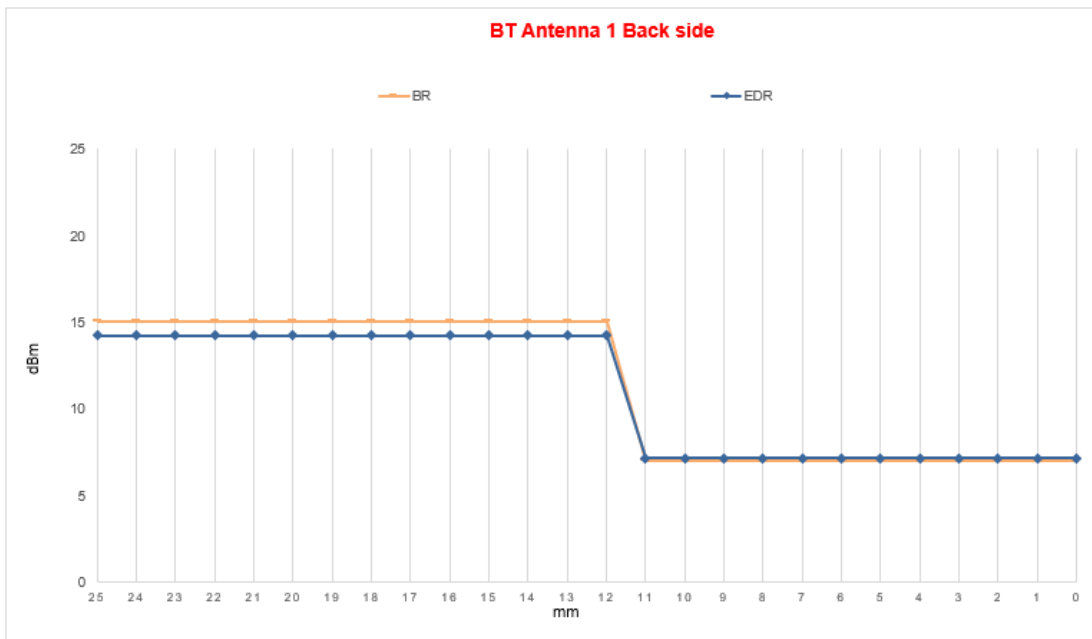
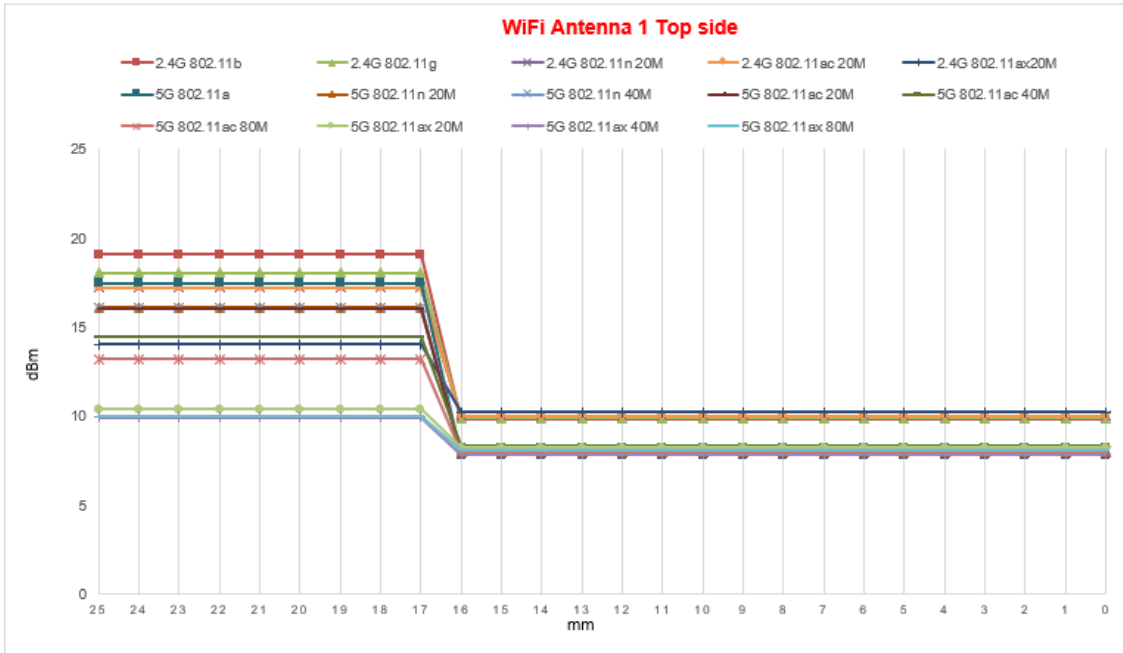
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.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@sgs.com

● DUT Moving Toward (Trigger) the Phantom



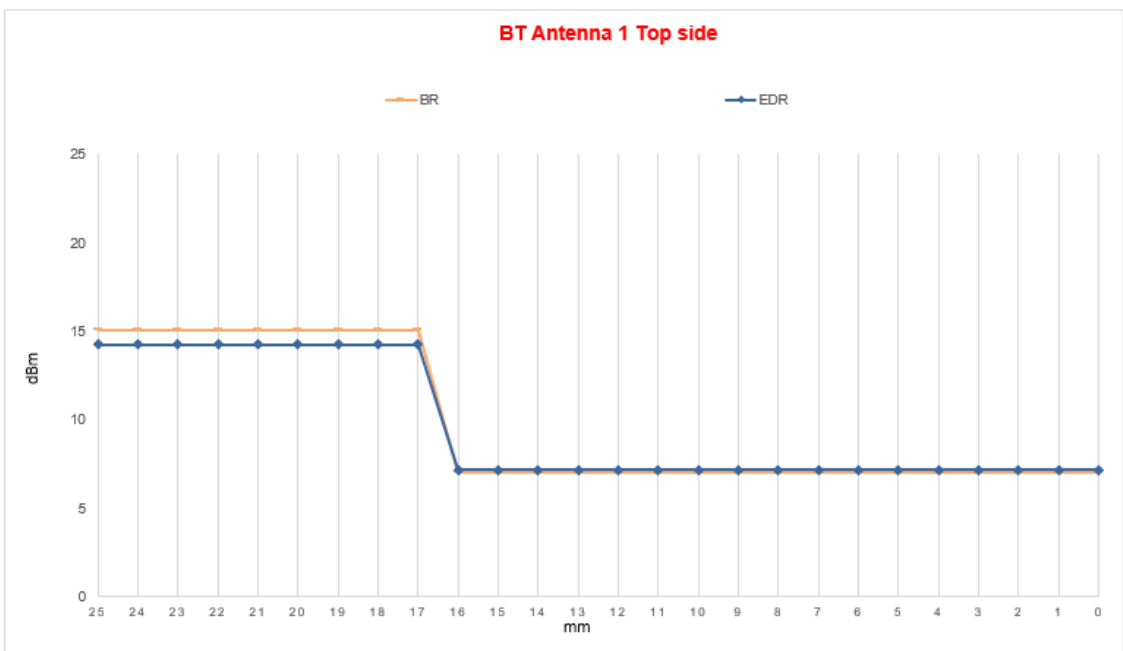
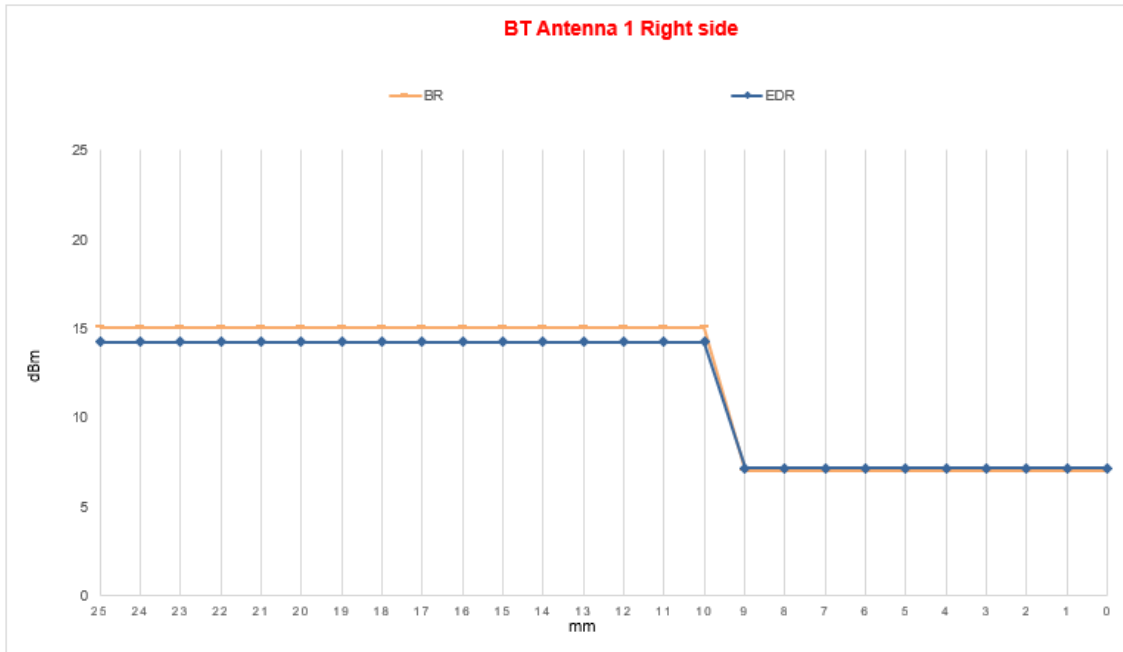
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.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@sgs.com



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-Documents.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.

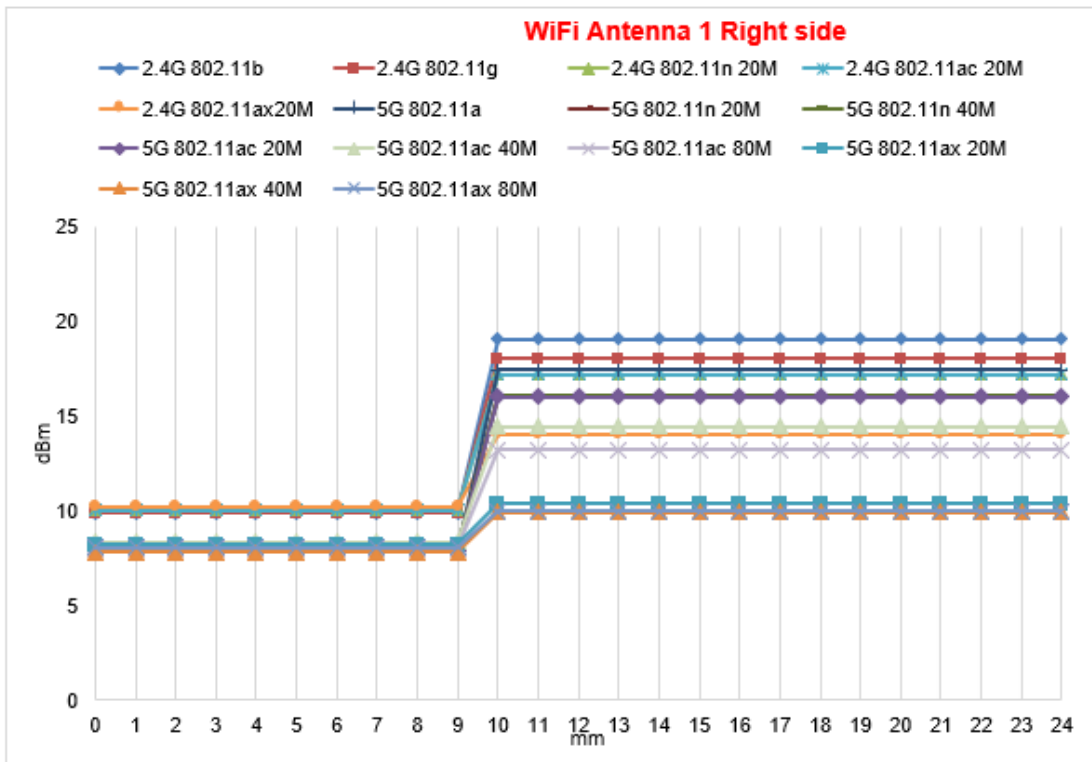
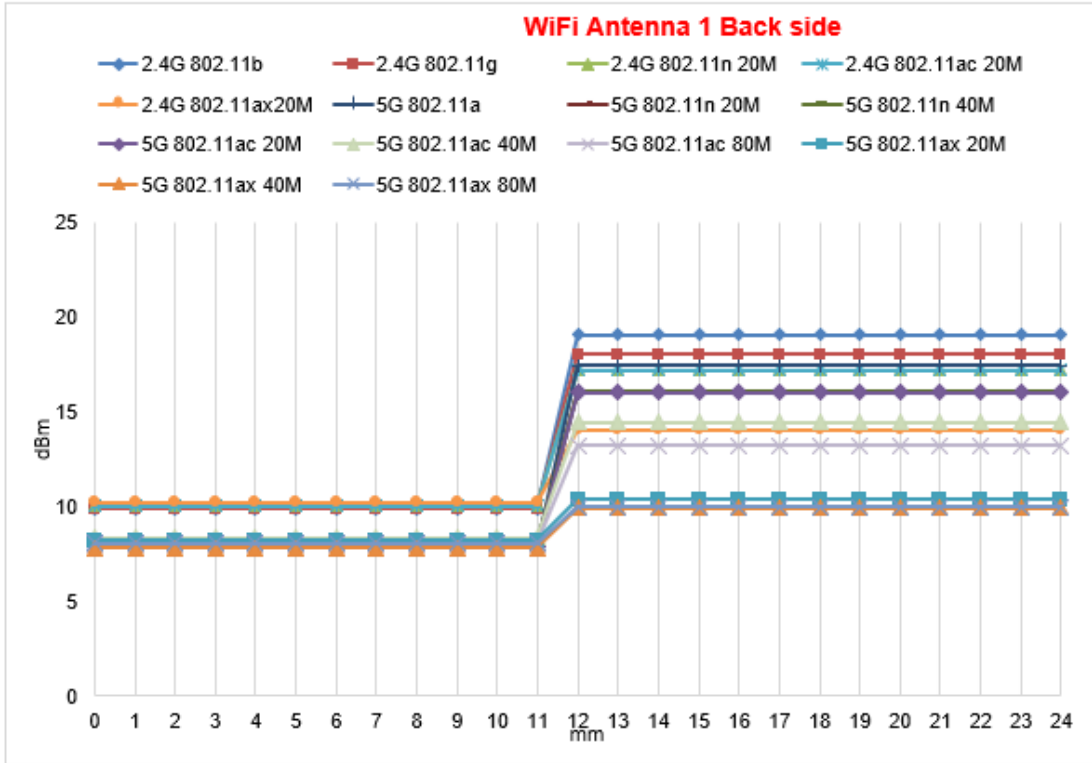
Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



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-Documents.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.

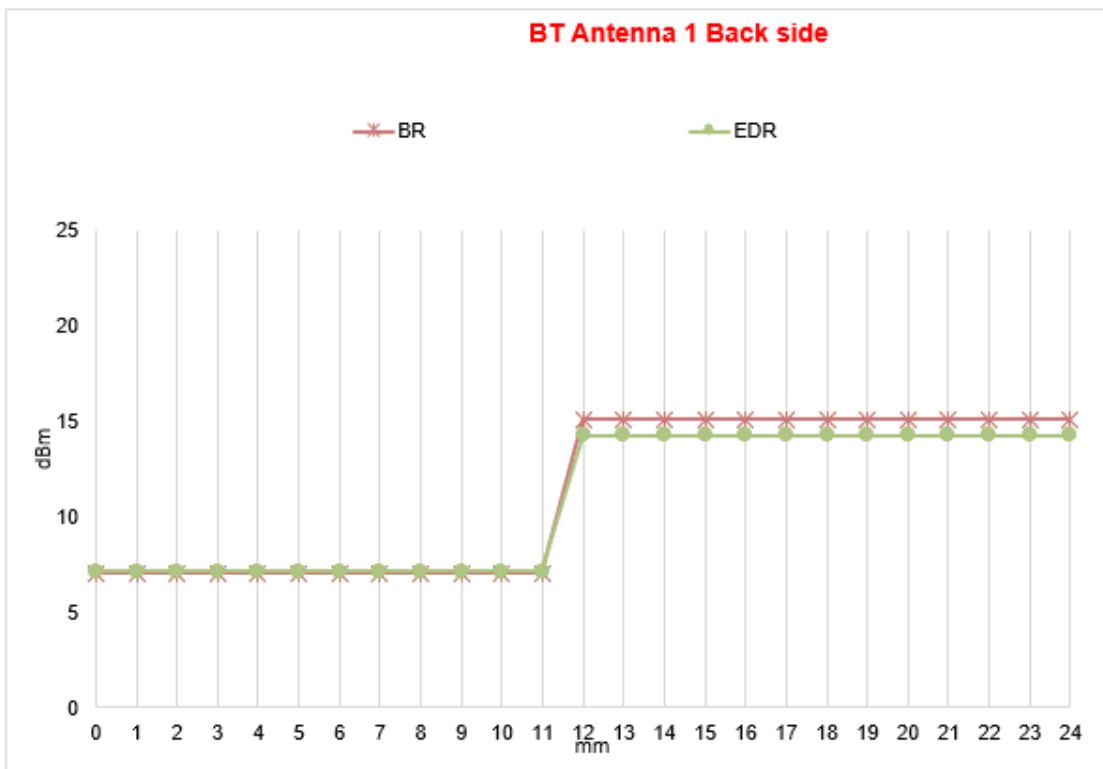
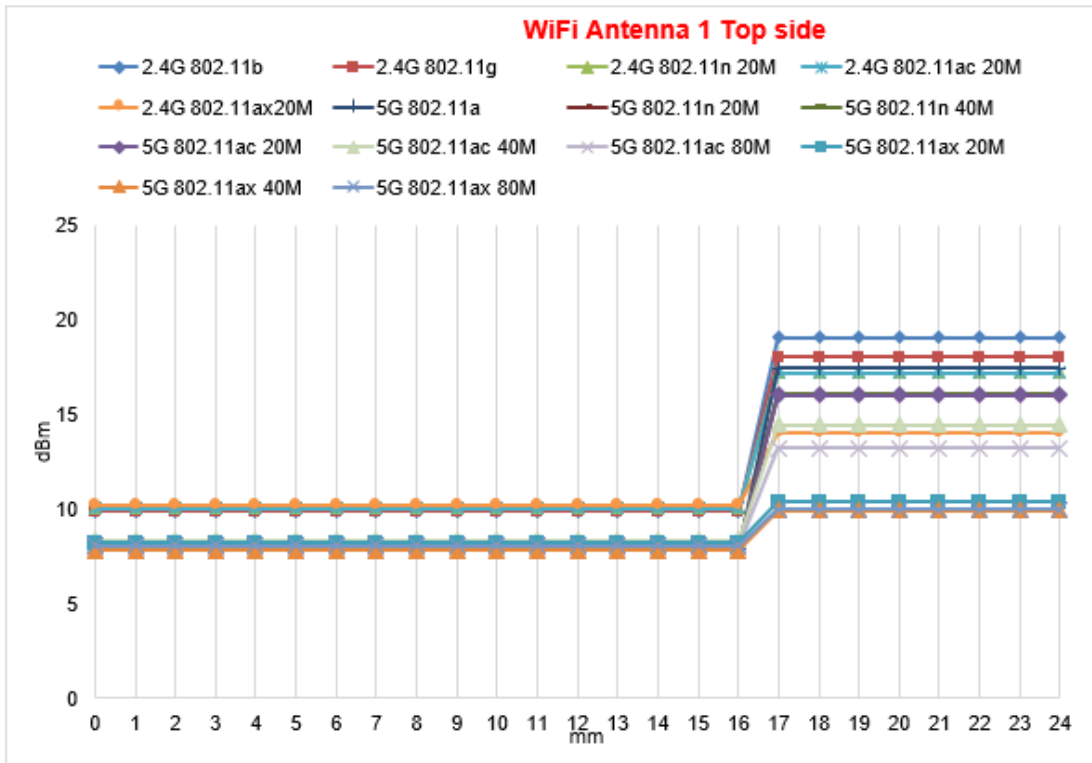
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

● DUT Moving Away (Release) from the Phantom



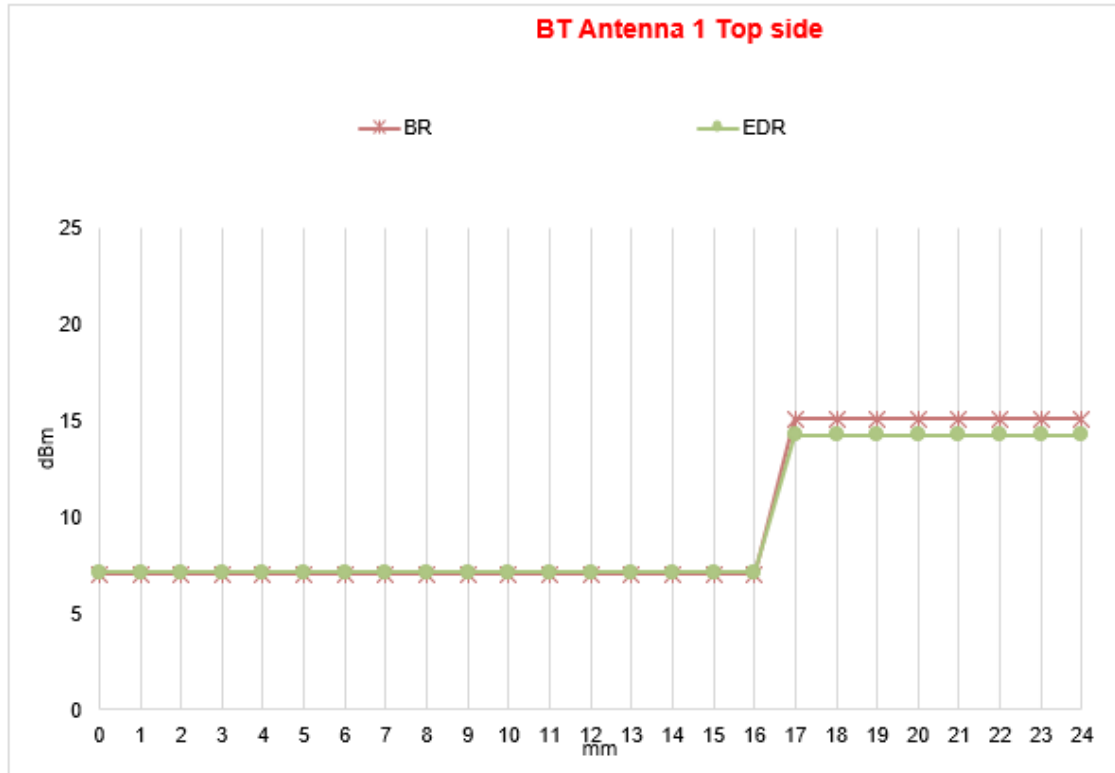
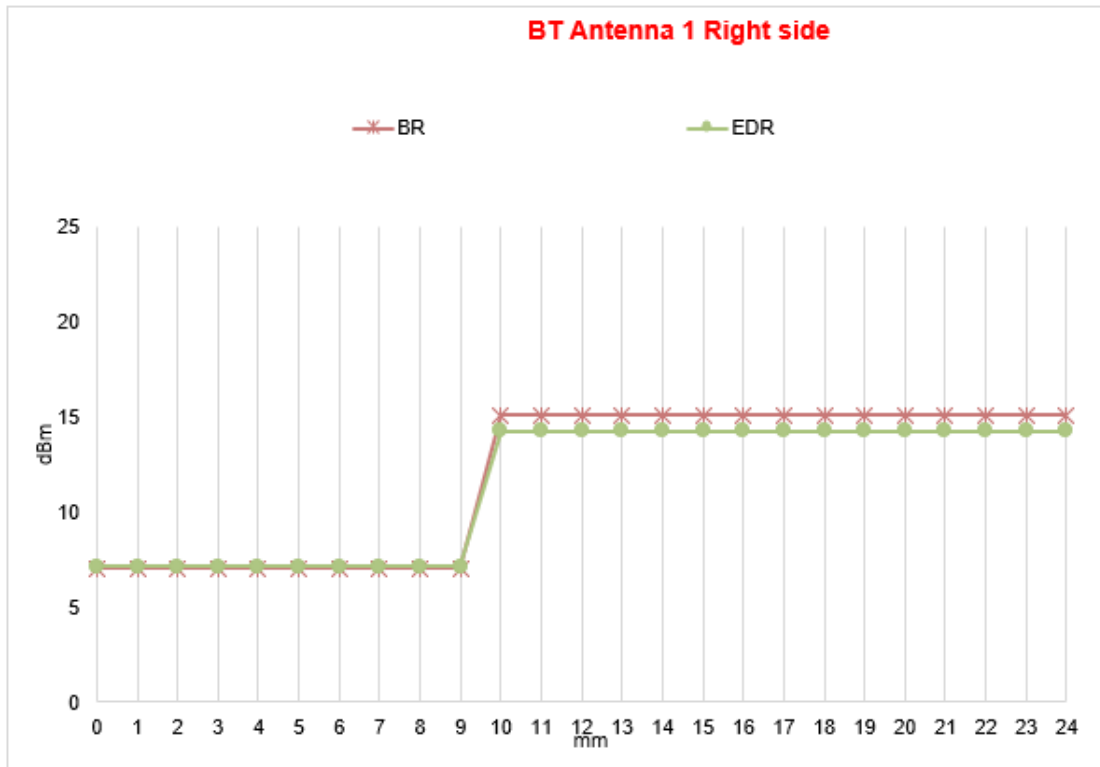
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.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@sgs.com



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-Documents.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@sgs.com



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-Documents.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@sgs.com

Reduced Power- RSDB with Grip Active

Proximity Sensor Triggering Distance(mm)			
Position	Back	Right	Top
Minimum	11	9	16
Required SAR Test	10	8	15

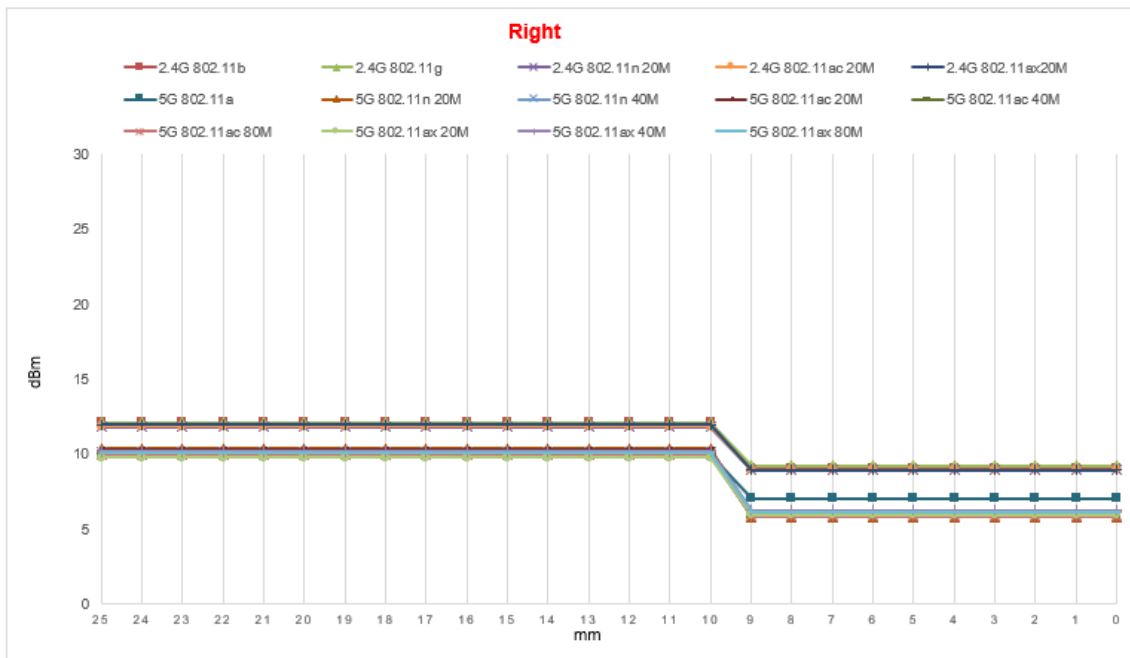
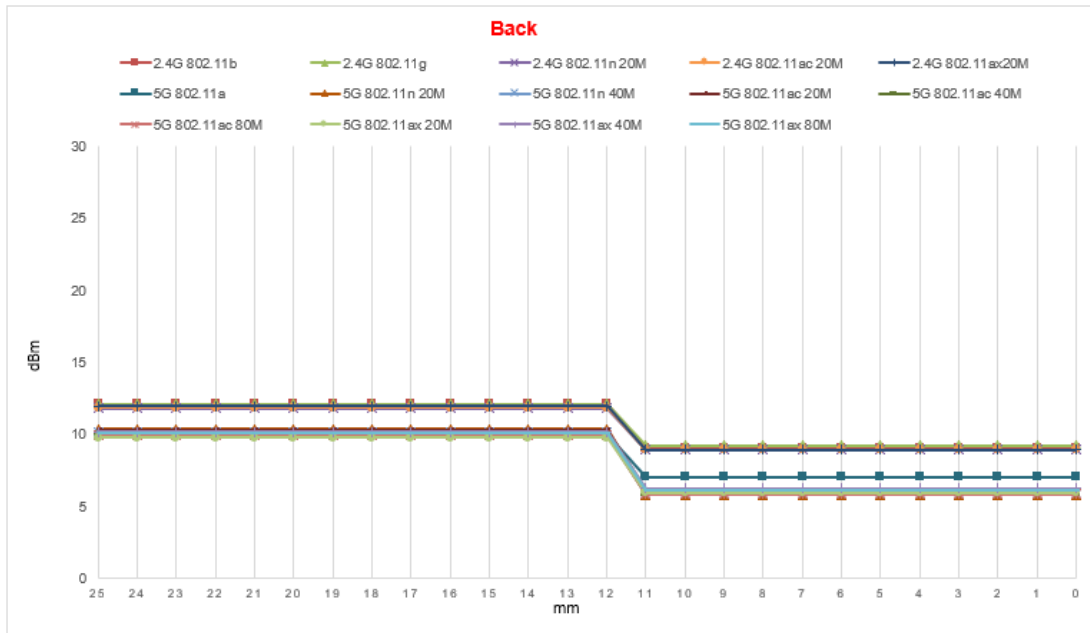
Antenna	Band	Trigger Condition	Body exposure condition	
			Reduced Power- RSDB (dBm)	Reduced Power- RSDB with Grip Active (dBm)
WIFI Antenna1	2.4G 802.11b	Back side: Close to 11mm	13.0	10.0
	2.4G 802.11g		13.0	10.0
	2.4G 802.11n 20M		13.0	10.0
	2.4G 802.11ac 20M	Right side: Close to 9mm	13.0	10.0
	2.4G 802.11ax 20M		13.0	10.0
	5G 802.11a	Top side: Close to 16mm	11.0	8.0
	5G 802.11n 20M		11.0	7.0
	5G 802.11n 40M		11.0	7.0
	5G 802.11ac 20M		11.0	7.0
	5G 802.11ac 40M		11.0	7.0
	5G 802.11ac 80M		11.0	7.0
	5G 802.11ax 20M		11.0	7.0
	5G 802.11ax 40M	Back side: Close to 11mm	11.0	7.0
	5G 802.11ax 80M		11.0	7.0
	Right side: Close to 9mm	11.0	7.0	
		11.0	7.0	
	Top side: Close to 16mm	11.0	7.0	
		11.0	7.0	

Note: SAR tests with proximity sensor power reduction are only required for the sides of frequency bands in the table above. For the other sides or other frequency bands of the device, SAR is still tested at the maximum power level with sensor off.



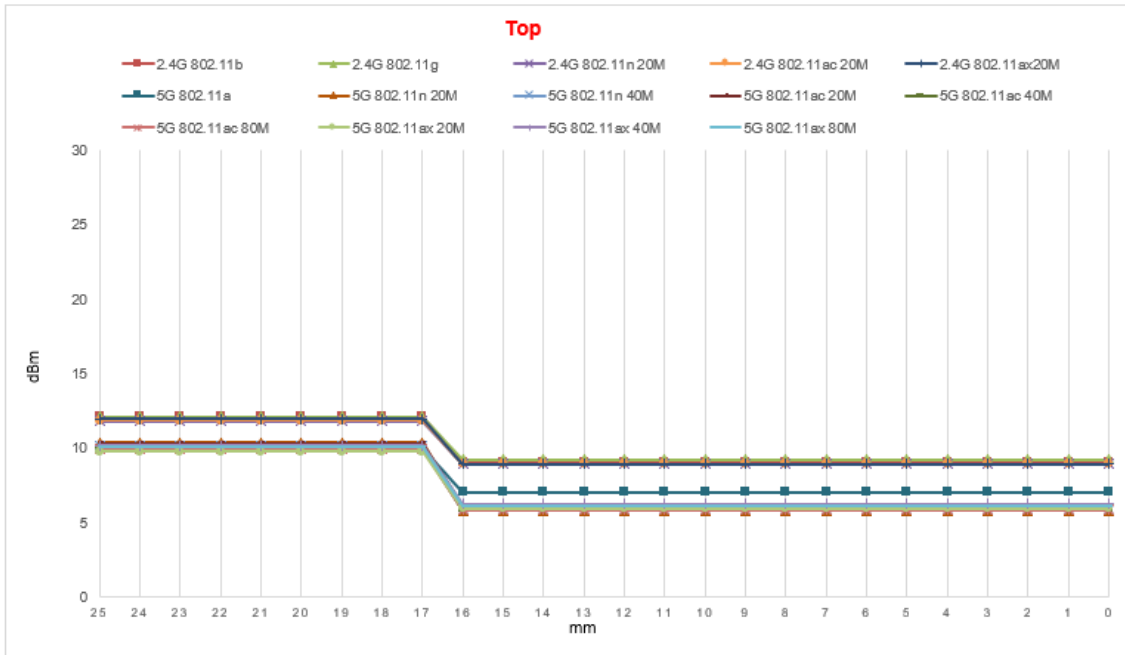
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.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@sgs.com

● Antenna 1 DUT Moving Toward (Trigger) the Phantom

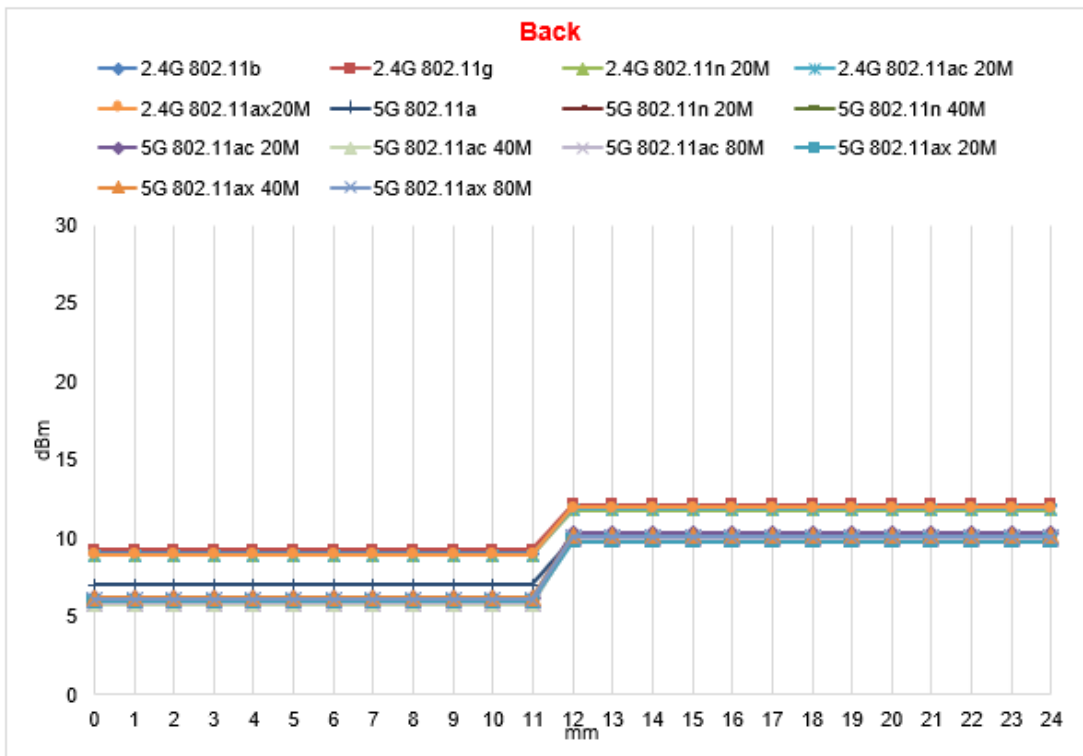


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.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@sgs.com

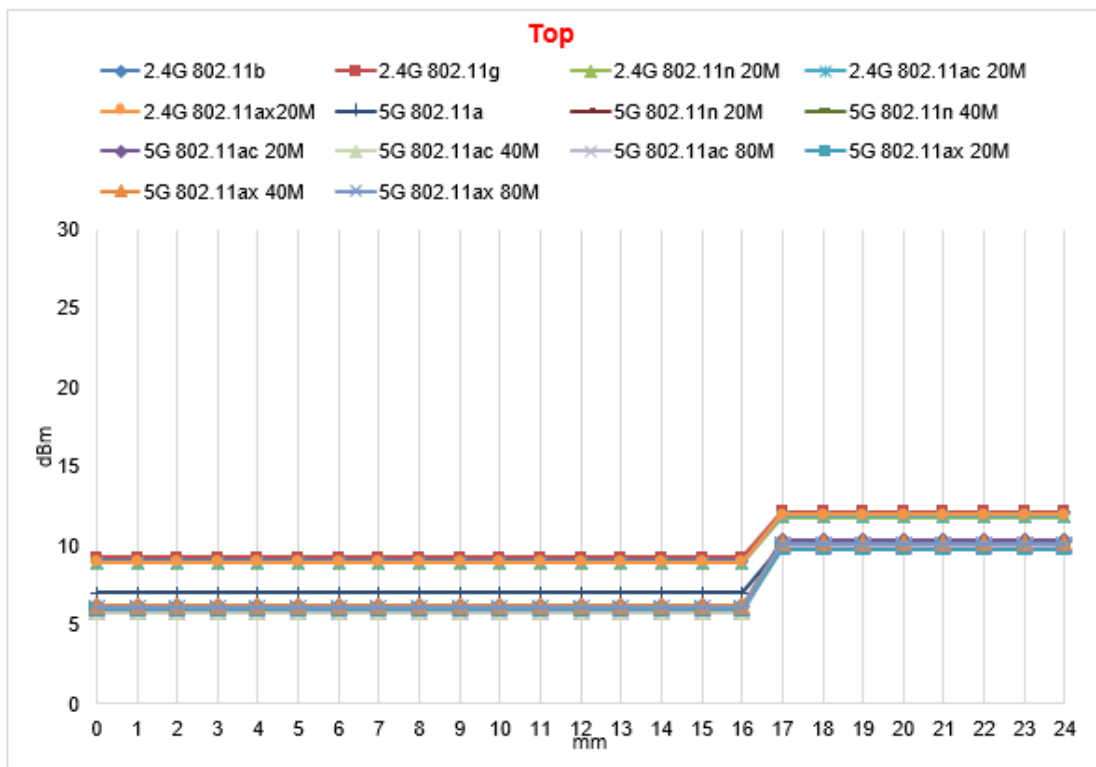
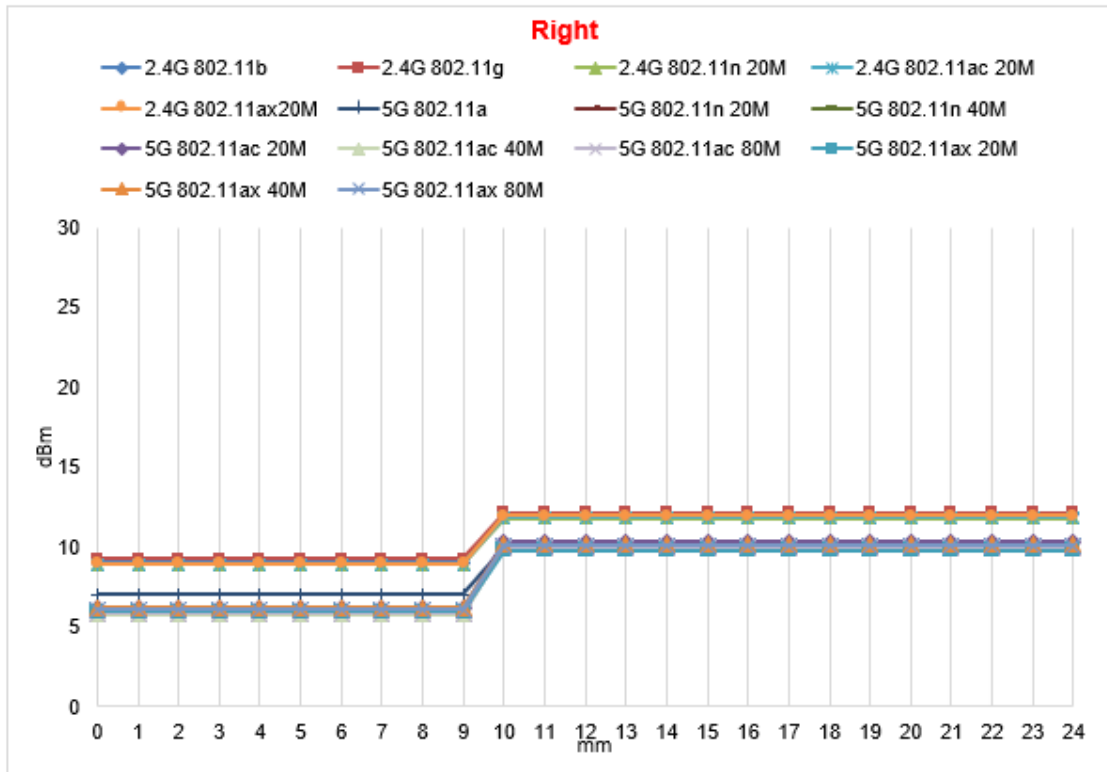


● Antenna 1 DUT Moving Away (Release) from the Phantom



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-Documents.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@sgs.com



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-Documents.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@sgs.com

Antenna 2

Proximity Sensor Triggering Distance(mm)			
Position	Back	Left	Top
Minimum	12	8	15
Required SAR Test	11	7	14

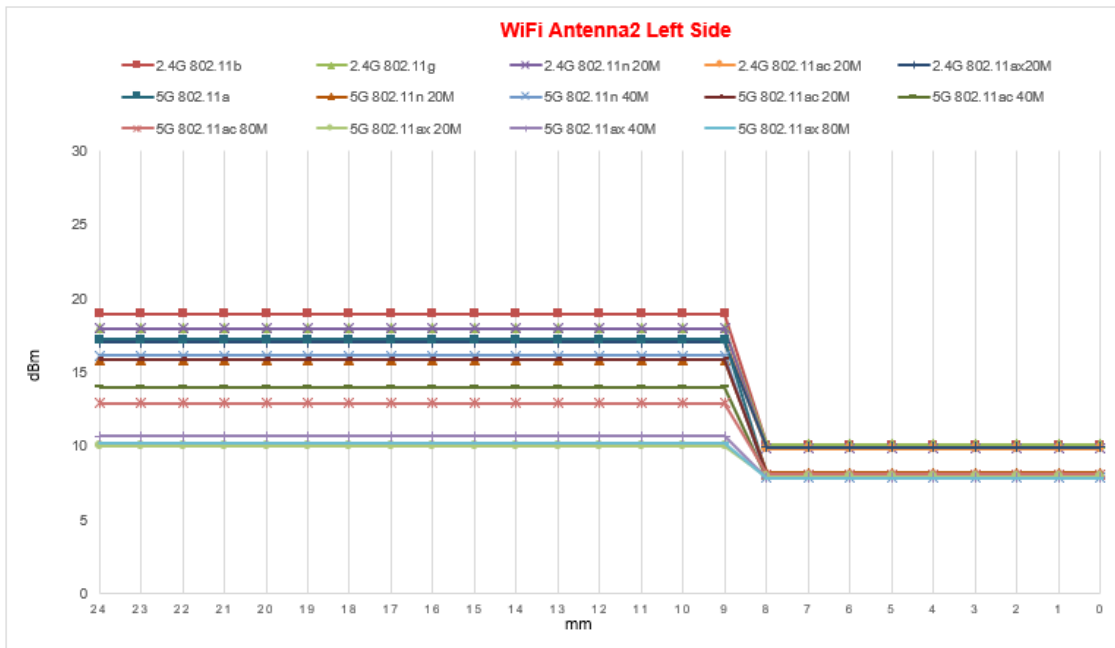
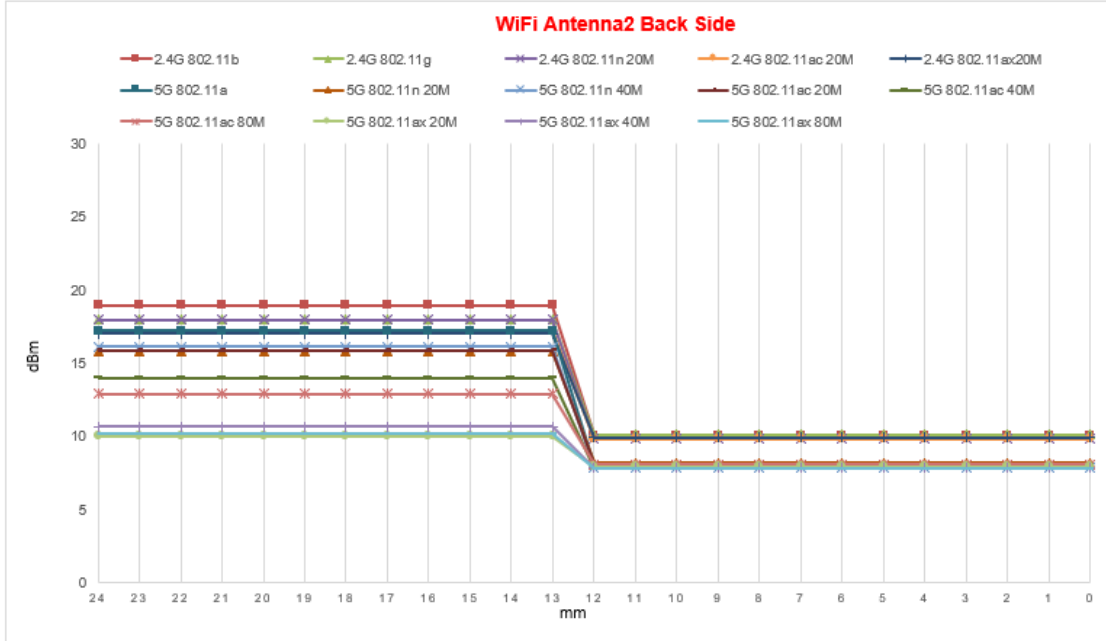
Reduced Power- Grip Active

Antenna	Band	Trigger Condition	Body exposure condition	
			Maximum Power (dBm)	Reduced Power- Grip Active (dBm)
WIFI Antenna2	2.4G 802.11b	Back side: Close to 12mm Left side: Close to 8mm Top side: Close to 15mm	20.0	11.0
	2.4G 802.11g		19.0	11.0
	2.4G 802.11n 20M		18.0	11.0
	2.4G 802.11ac 20M			
	2.4G 802.11ax 20M			
	5G 802.11a	18.0	9.0	
	5G 802.11n 20M	17.0	9.0	
	5G 802.11n 40M	17.0	9.0	
	5G 802.11ac 20M	Back side: Close to 12mm Left side: Close to 8mm Top side: Close to 15mm	17.0	9.0
	5G 802.11ac 40M		15.0	9.0
	5G 802.11ac 80M		14.0	9.0
	5G 802.11ax 20M		11.0	9.0
	5G 802.11ax 40M		11.0	9.0
	5G 802.11ax 80M		11.0	9.0
Bluetooth Antenna2	BR	Back side: Close to 12mm Left side: Close to 8mm Top side: Close to 15mm	16.5	8.5
	EDR		15.5	8.5

Note: SAR tests with proximity sensor power reduction are only required for the sides of frequency bands in the table above. For the other sides or other frequency bands of the device, SAR is still tested at the maximum power level with sensor off.

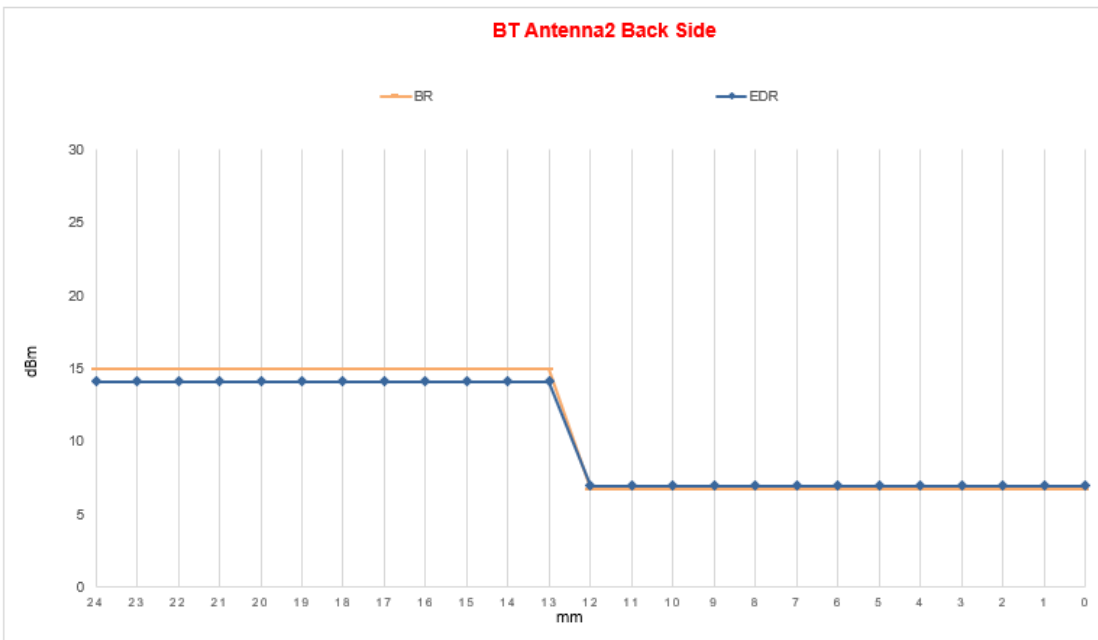
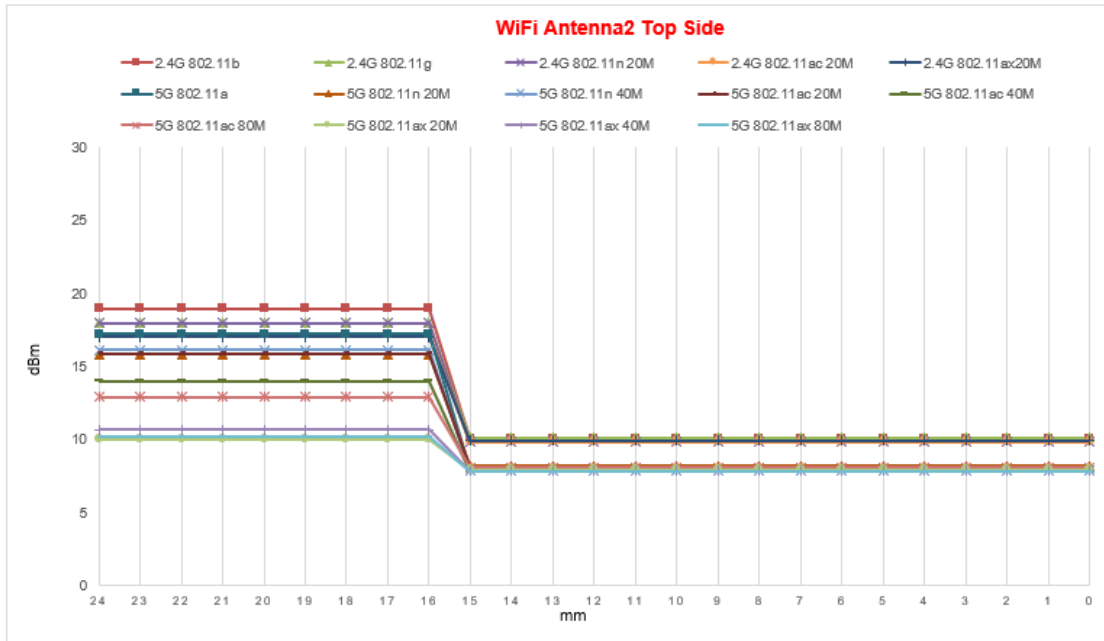


● DUT Moving Toward (Trigger) the Phantom

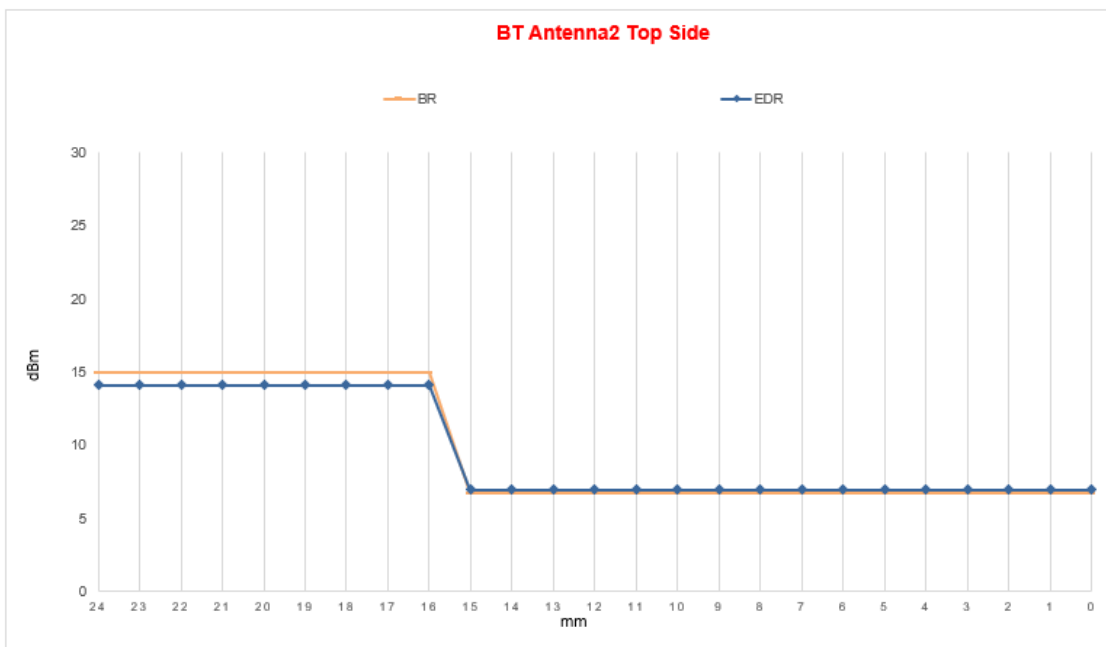
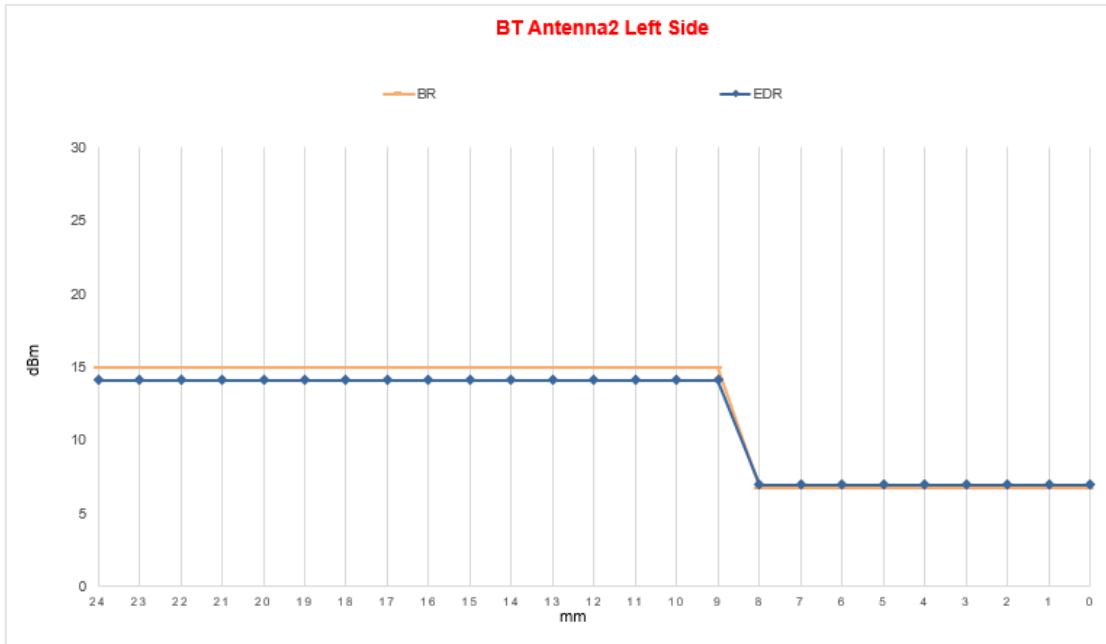


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.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@sgs.com



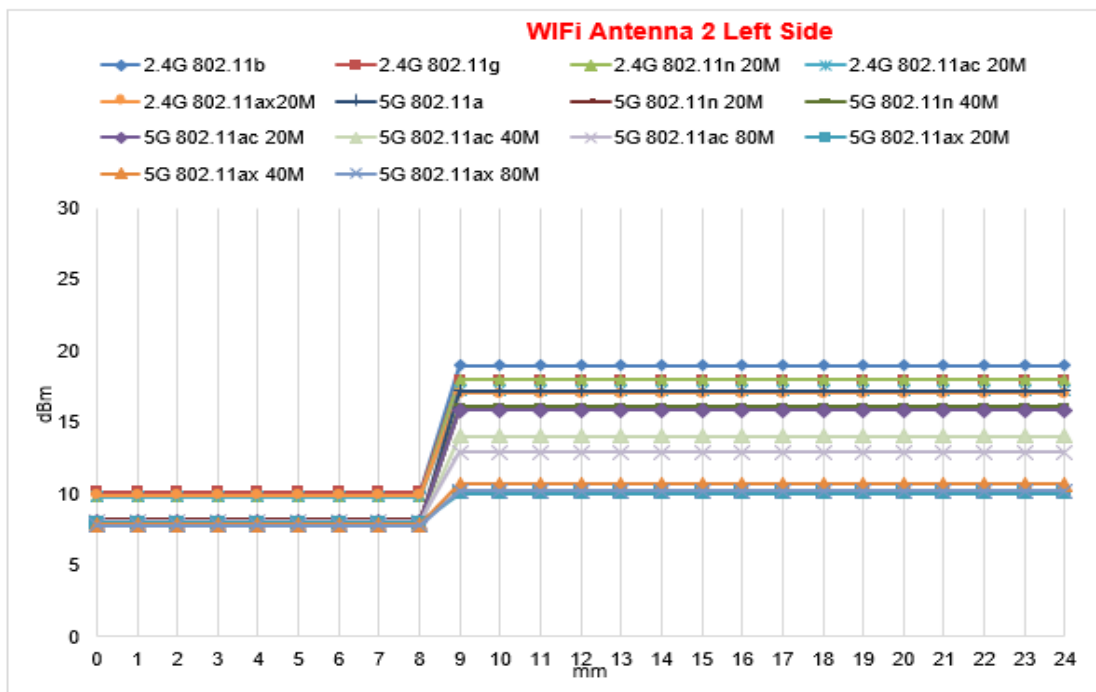
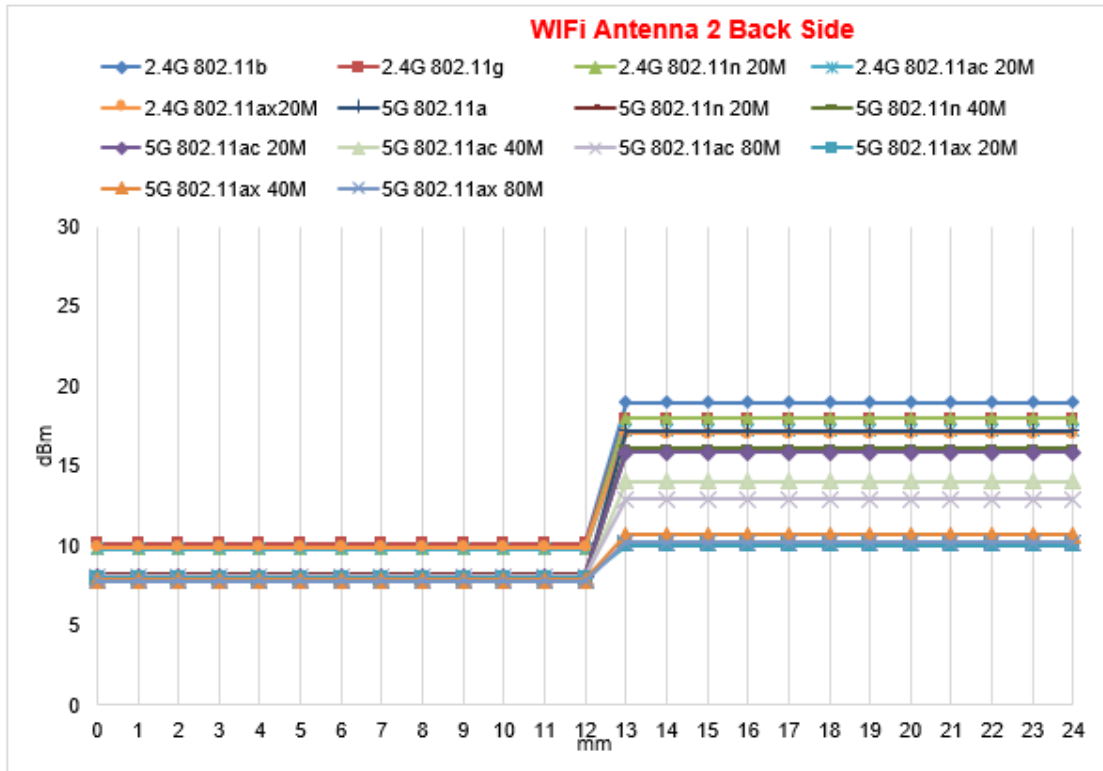
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.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@sgs.com



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-Documents.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.

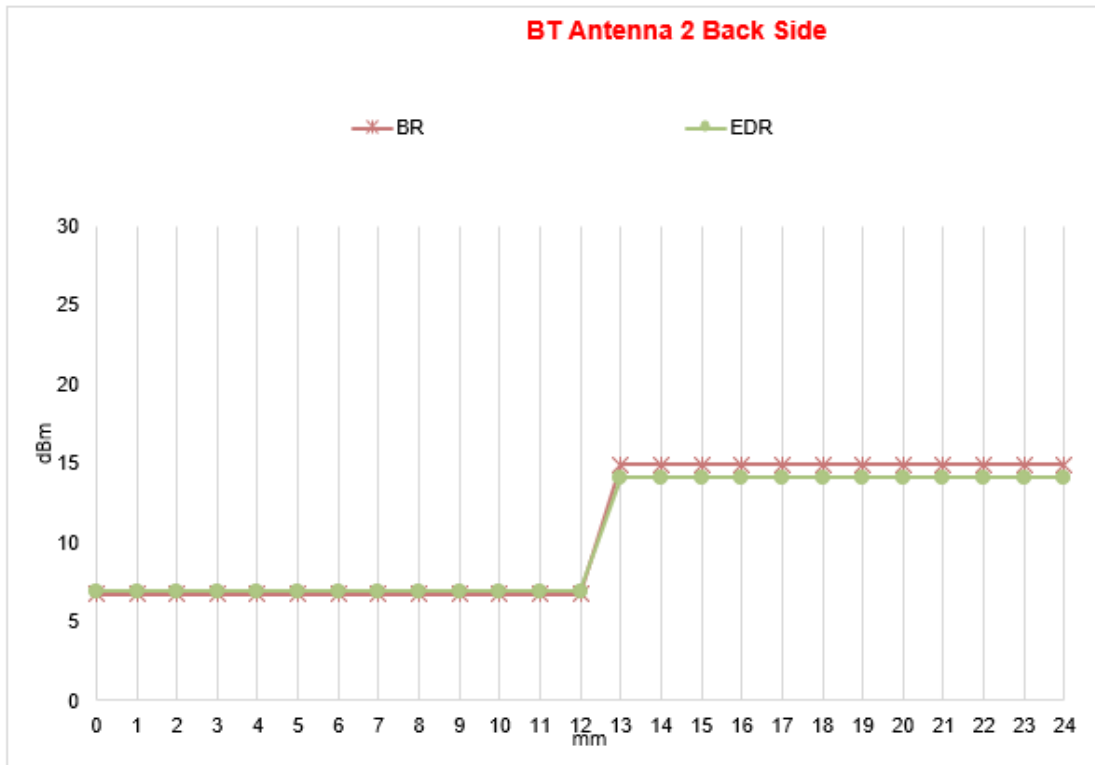
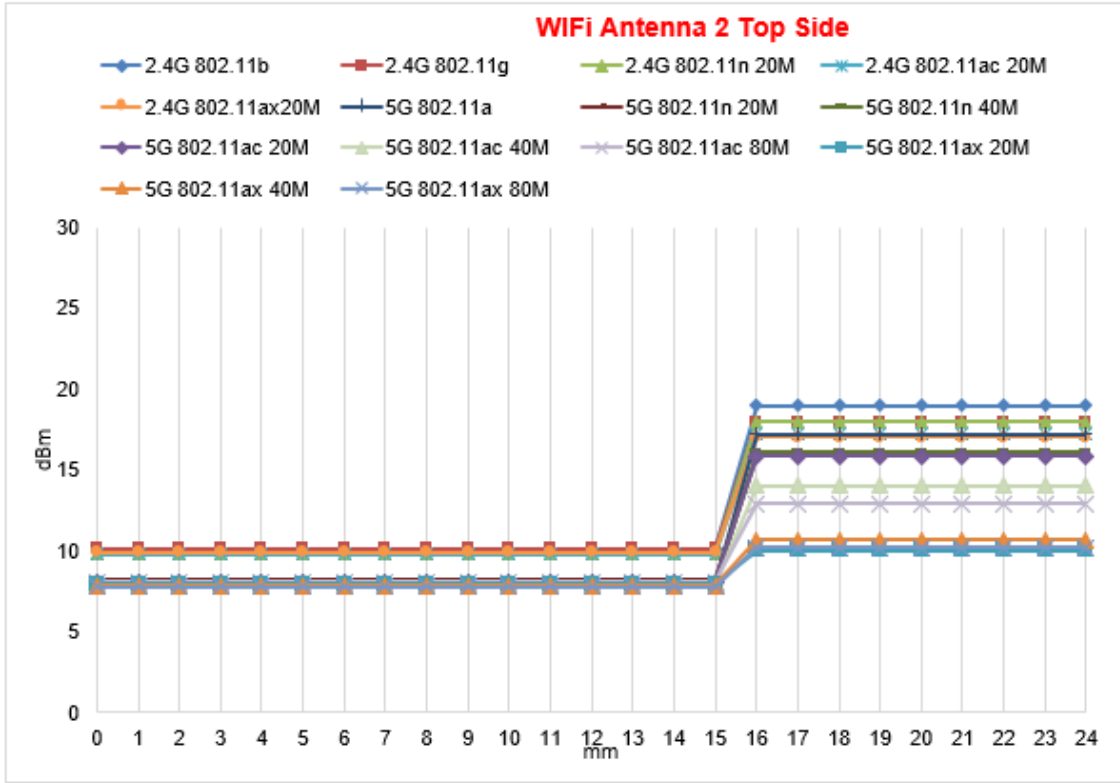
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

● DUT Moving Away (Release) from the Phantom



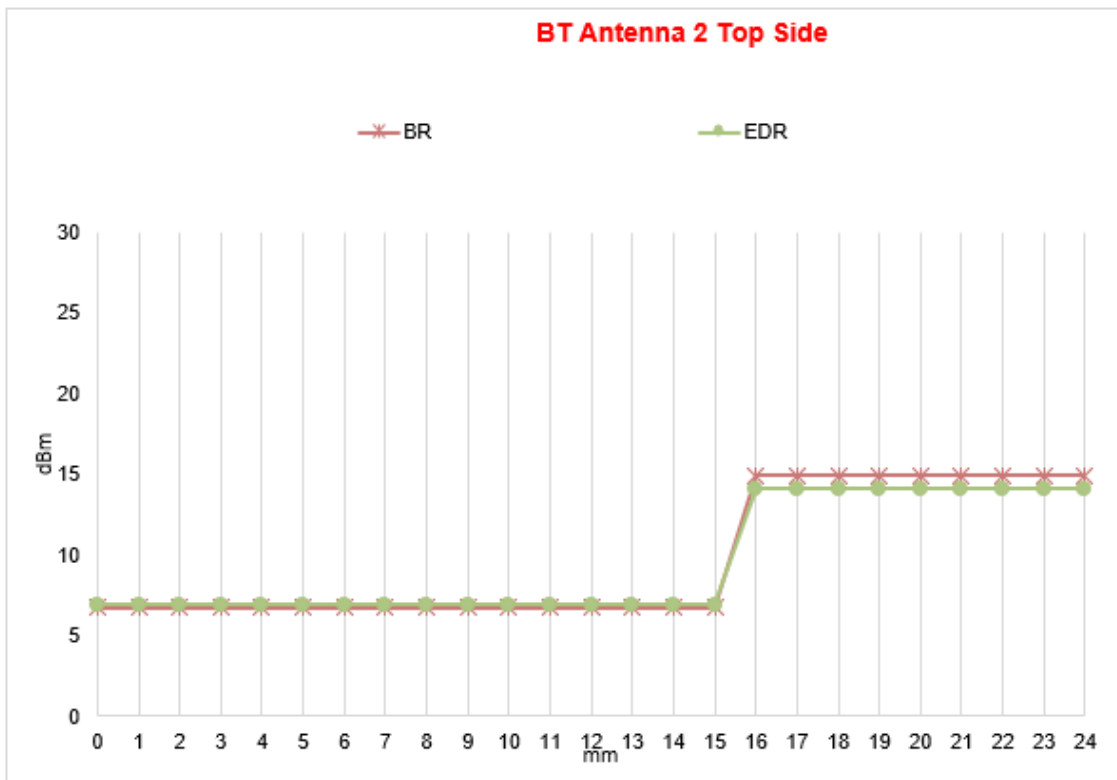
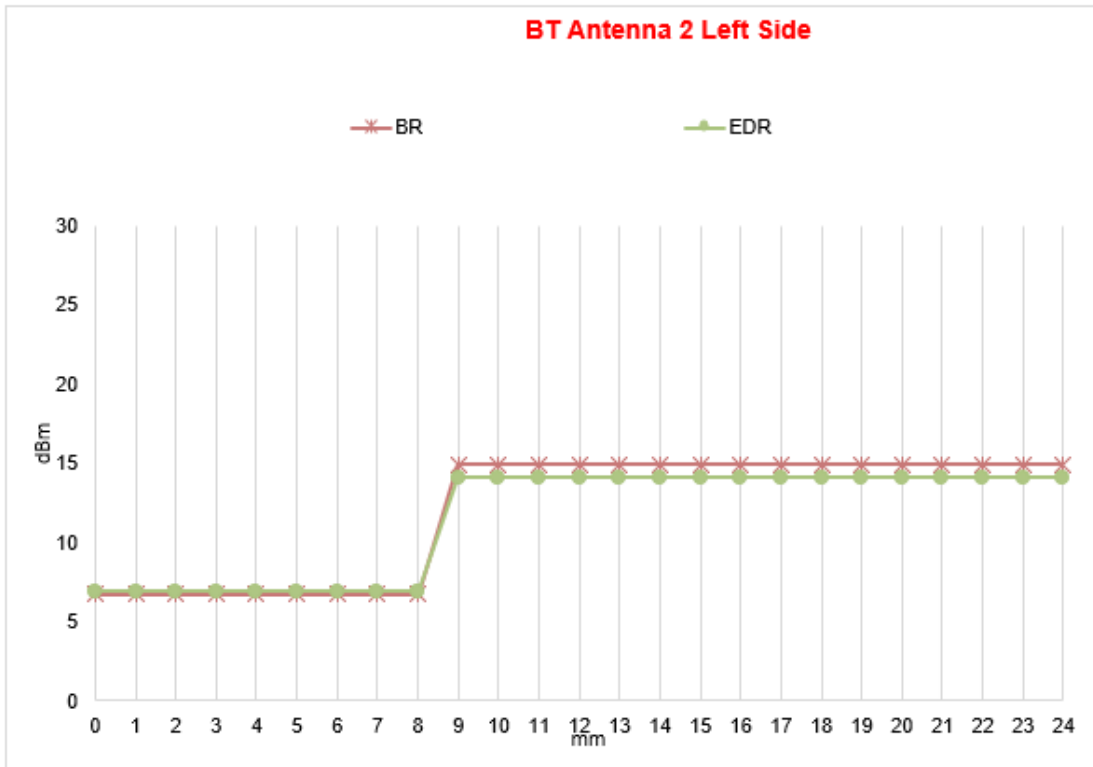
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.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@sgs.com



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-Documents.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@sgs.com



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-Documents.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@sgs.com

Antenna 2 Reduced Power-RSDB with Grip Active

Proximity Sensor Triggering Distance(mm)			
Position	Back	Left	Top
Minimum	12	8	15
Required SAR Test	11	7	14

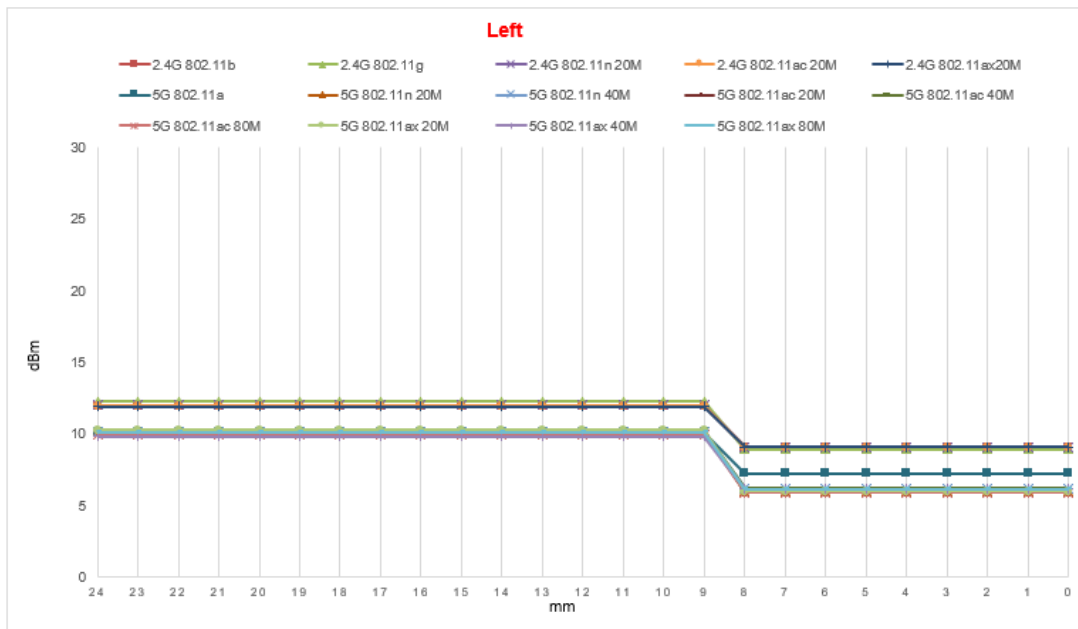
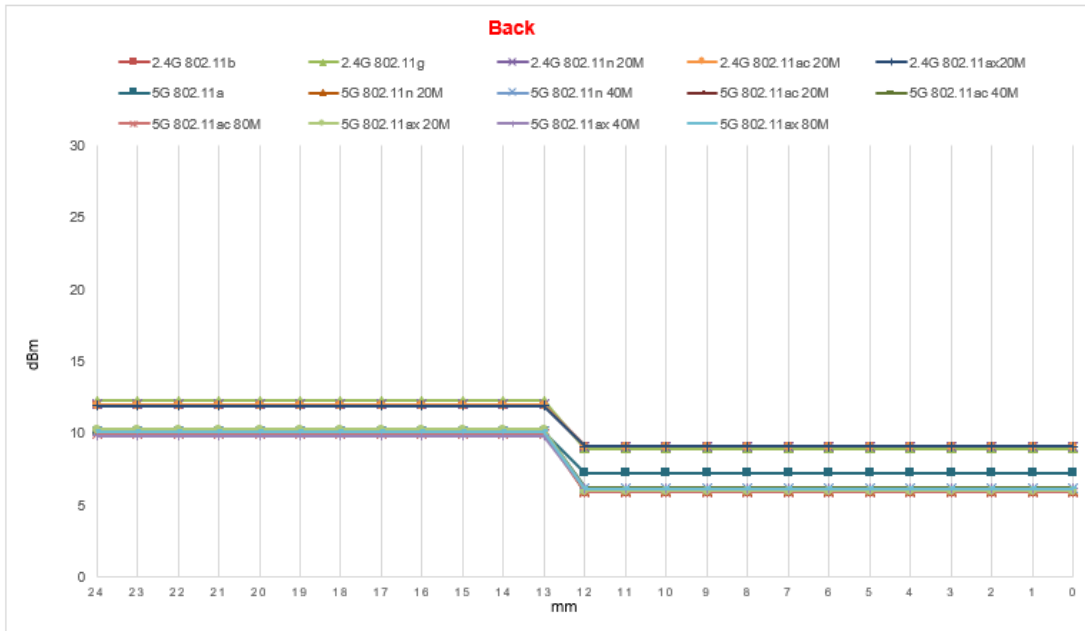
Antenna	Band	Trigger Condition	Body exposure condition	
			Reduced Power- RSDB (dBm)	Reduced Power- RSDB with Grip Active (dBm)
WIFI Antenna2	2.4G 802.11b	Back side: Close to 12mm Left side: Close to 8mm Top side: Close to 15mm	13.0	10.0
	2.4G 802.11g		13.0	10.0
	2.4G 802.11n 20M		13.0	10.0
	2.4G 802.11ac 20M			
	2.4G 802.11ax 20M			
	5G 802.11a	Back side: Close to 12mm Left side: Close to 8mm Top side: Close to 15mm	11.0	8.0
	5G 802.11n 20M		11.0	7.0
	5G 802.11n 40M		11.0	7.0
	5G 802.11ac 20M		11.0	7.0
	5G 802.11ac 40M		11.0	7.0
	5G 802.11ac 80M		11.0	7.0
	5G 802.11ax 20M		11.0	7.0
	5G 802.11ax 40M		11.0	7.0
	5G 802.11ax 80M		11.0	7.0

Note: SAR tests with proximity sensor power reduction are only required for the sides of frequency bands in the table above. For the other sides or other frequency bands of the device, SAR is still tested at the maximum power level with sensor off.



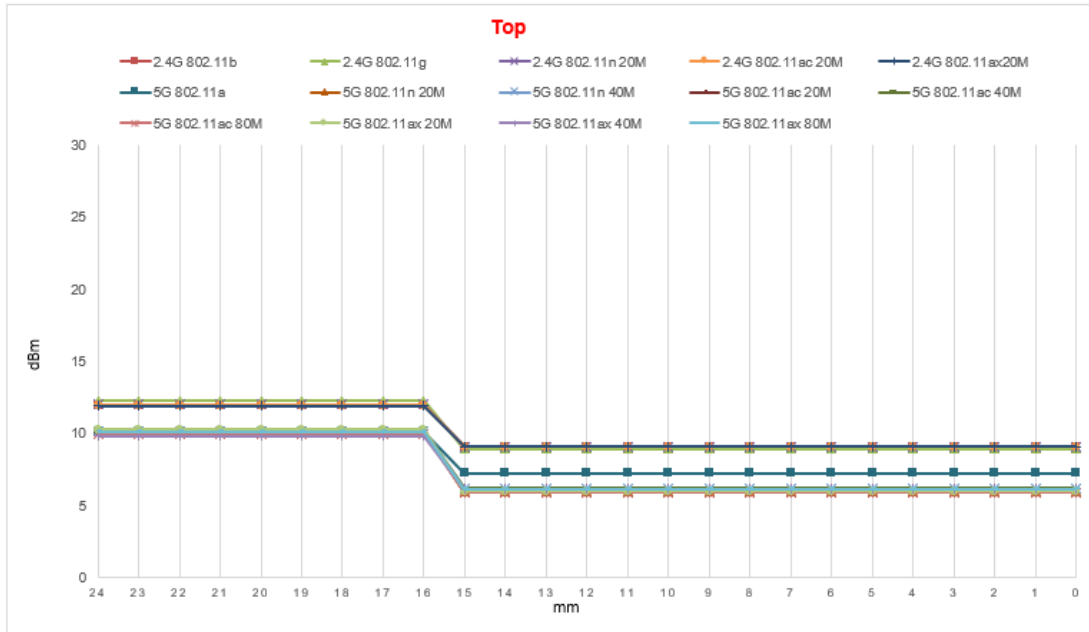
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.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@sgs.com

● Antenna 2 DUT Moving Toward (Trigger) the Phantom

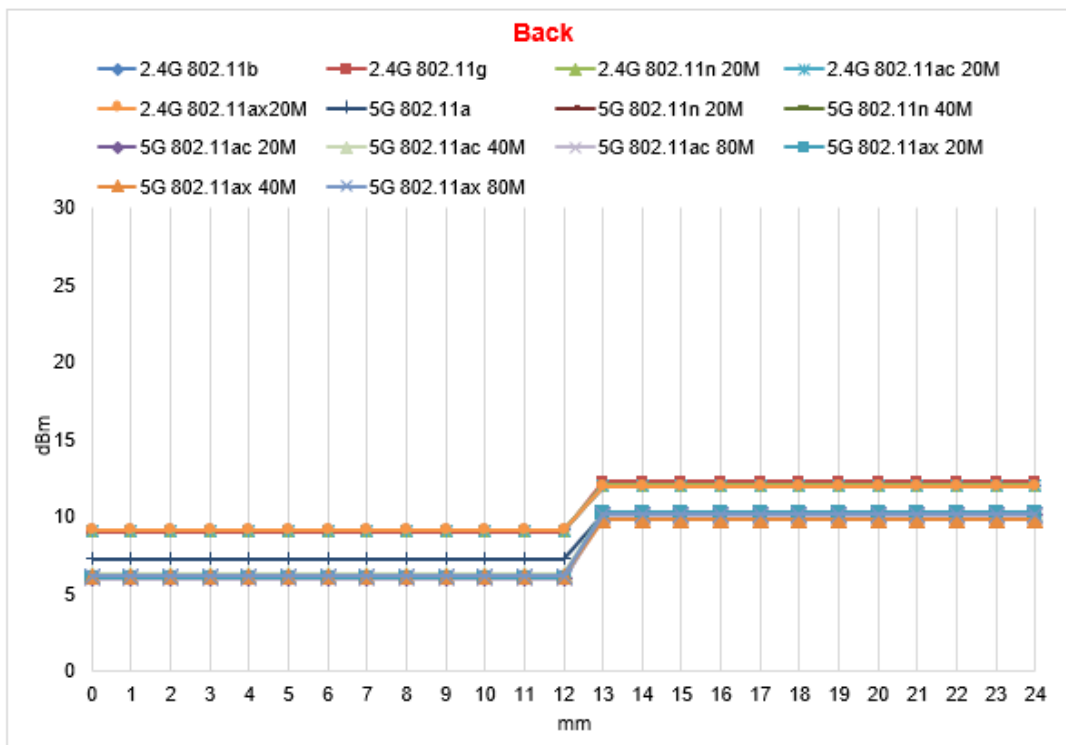


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.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@sgs.com

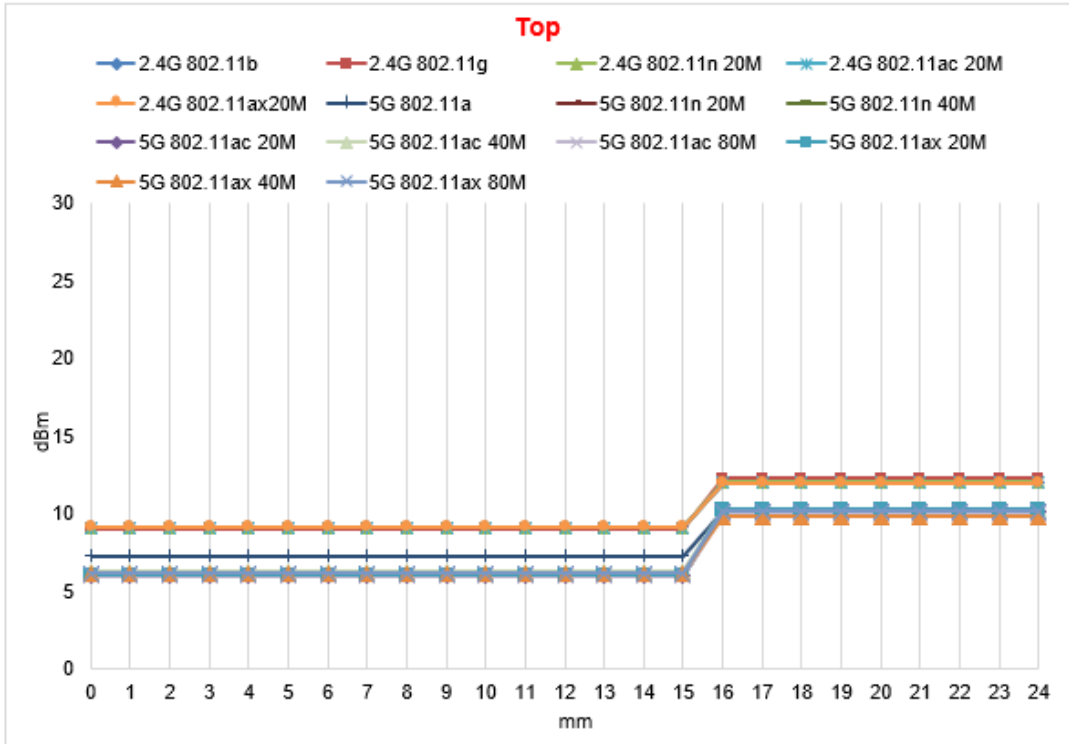
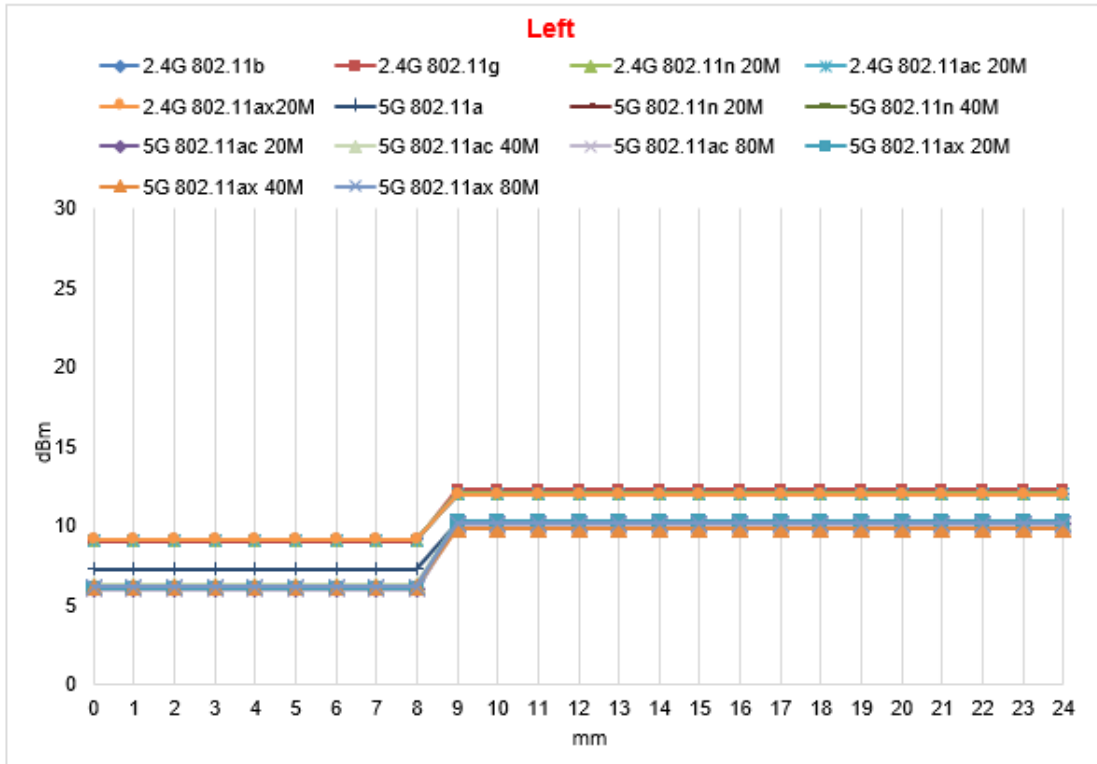


● Antenna 2 DUT Moving Away (Release) from the Phantom



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-Documents.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@sgs.com



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-Documents.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@sgs.com

2) Proximity sensor coverage

If a sensor is spatially offset from the antenna(s), it is necessary to verify sensor triggering for conditions where the antenna is next to the user but the sensor is laterally further away to ensure sensor coverage is sufficient for reducing the power to maintain compliance. For p-sensor coverage testing, the device is moved and “along the direction of maximum antenna and sensor offset”.

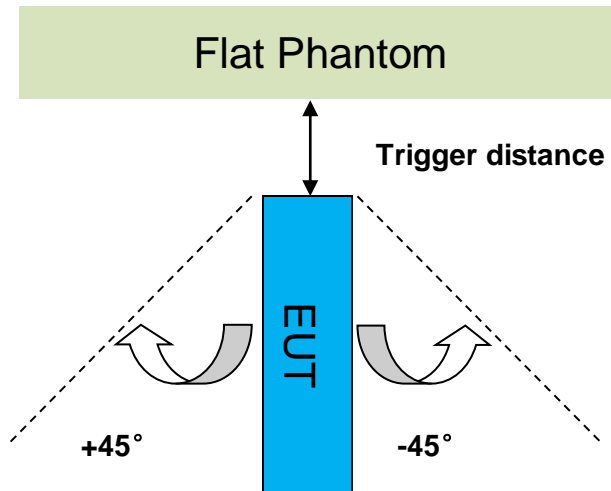
The proximity sensor and antenna use same metallic electrode, so there is no spatial offset.



3) Device tilt angle influences to proximity sensor triggering

The influence of device tilt angles to proximity sensor triggering was determined by positioning each tablet edge that contains a transmitting antenna, perpendicular to the flat phantom.

Rotating the tablet around the edge next to the phantom in $\leq 10^\circ$ increments until the tablet is $\pm 45^\circ$ from the vertical position at 0° , and the maximum output power remains in the reduced mode.



Antenna 1

The Sensor Triggering Distance(mm)		
Position	Right Side	Top Side
Minimum	9	16
Required SAR Test	8	15

Summary of Tablet Tilt Angle Influence to Proximity Sensor Triggering													
Band (MHz)	Minimum trigger distance Per KDB616217§6.2	Minimum trigger distance at which power reduction was maintained over $\pm 45^\circ$	Power Reduction Status										
			-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°
WIFI 2.4GHz	Right side:9mm Top side:16mm	Right side:9mm Top side:16mm	on	on	on	on	on	on	on	on	on	on	on
WIFI 5GHz	Right side:9mm Top side:16mm	Right side:9mm Top side:16mm	on	on	on	on	on	on	on	on	on	on	on

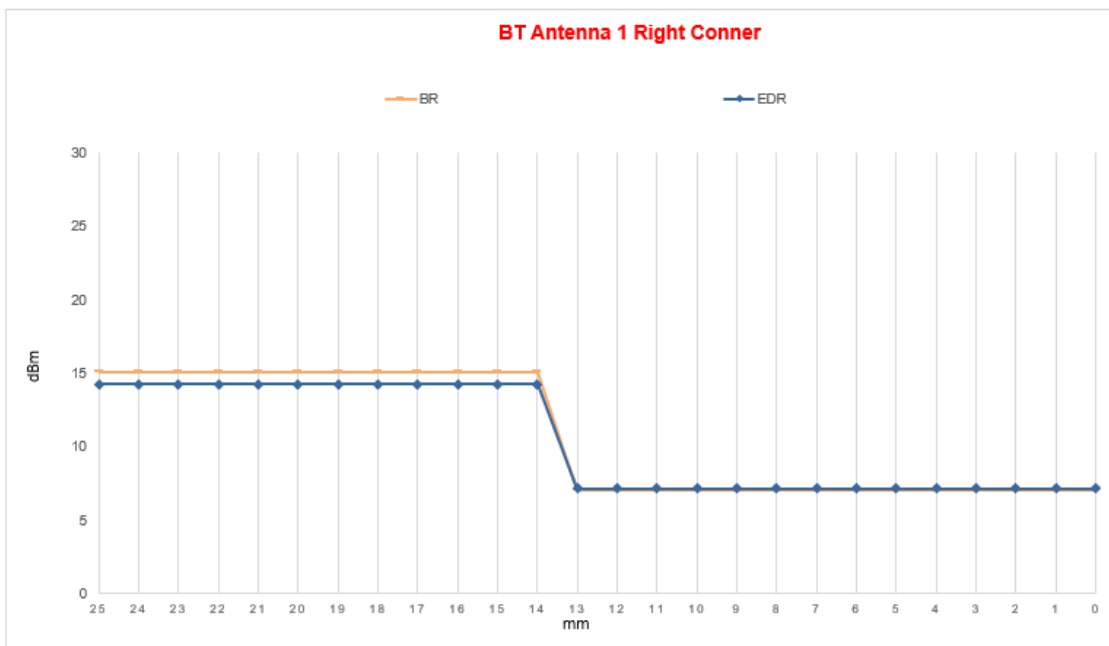
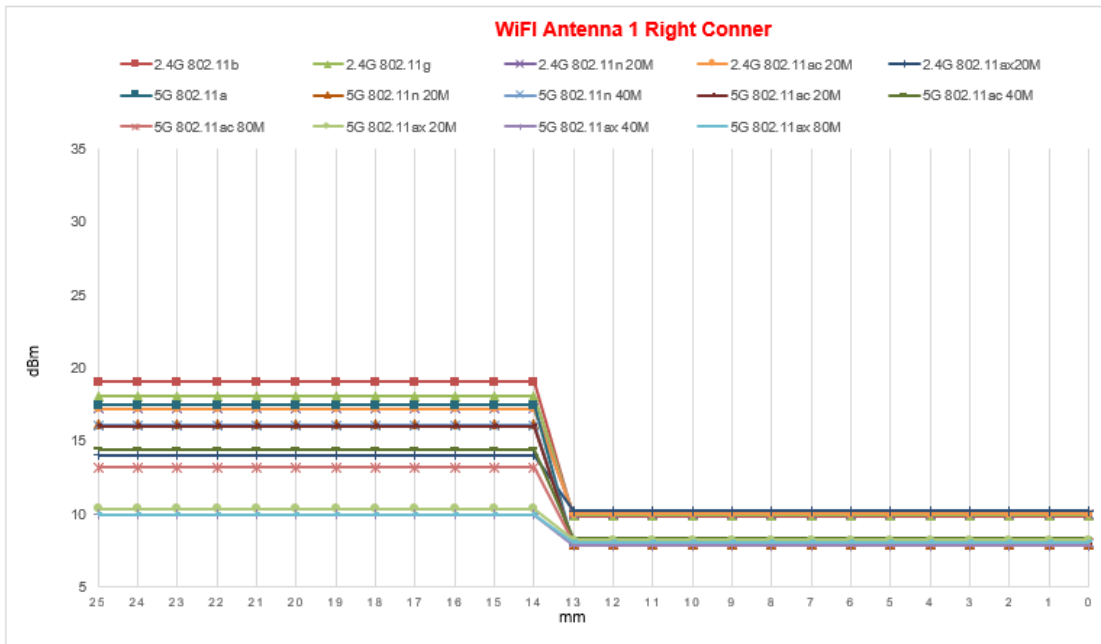


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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@sgs.com

Right Conner Side Antenna 1

The Sensor Triggering Distance(mm)	
Position	Right Conner Side
Minimum	13
Required SAR Test	12

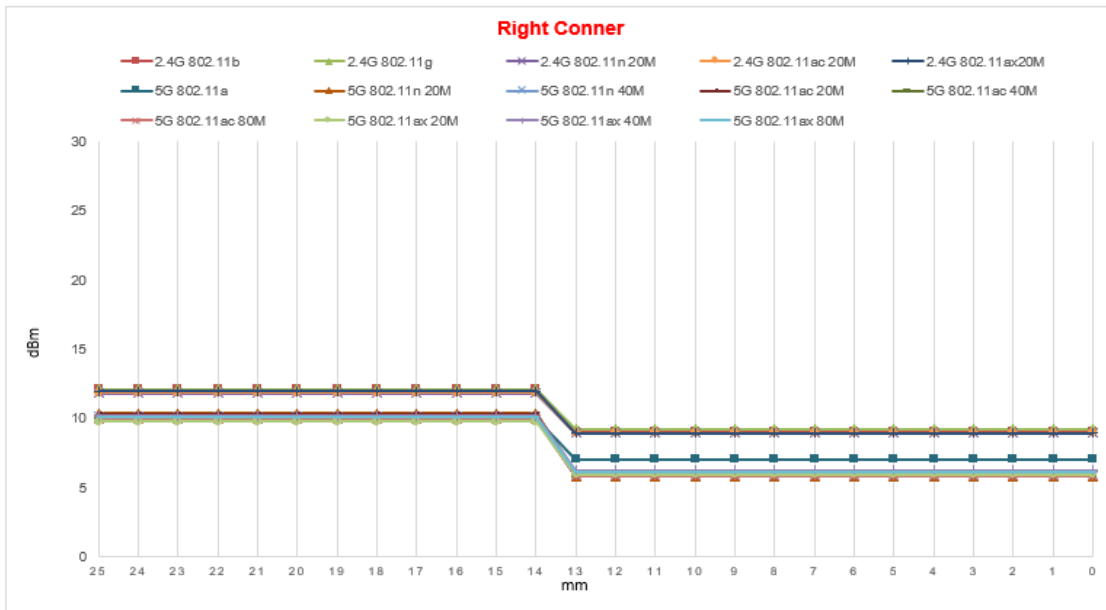
- DUT Moving Toward (Trigger) the Phantom
 Reduced Power- Grip Active



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-Documents.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@sgs.com

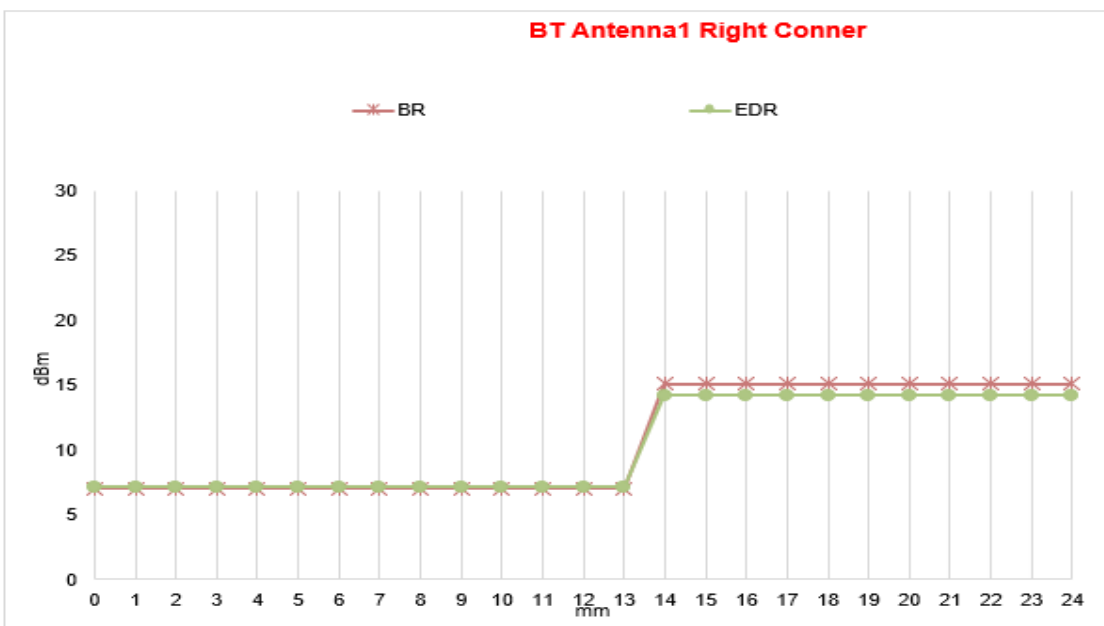
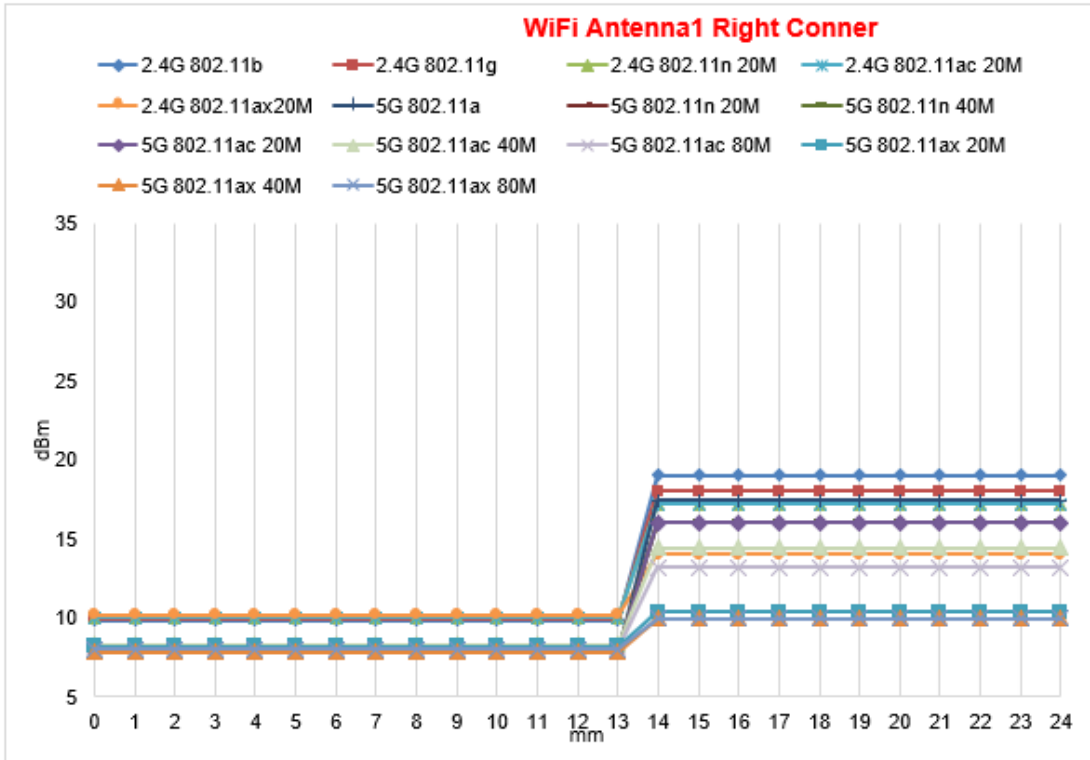
Antenna 1 Reduced Power- RSDB with Grip Active



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-Documents.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@sgs.com

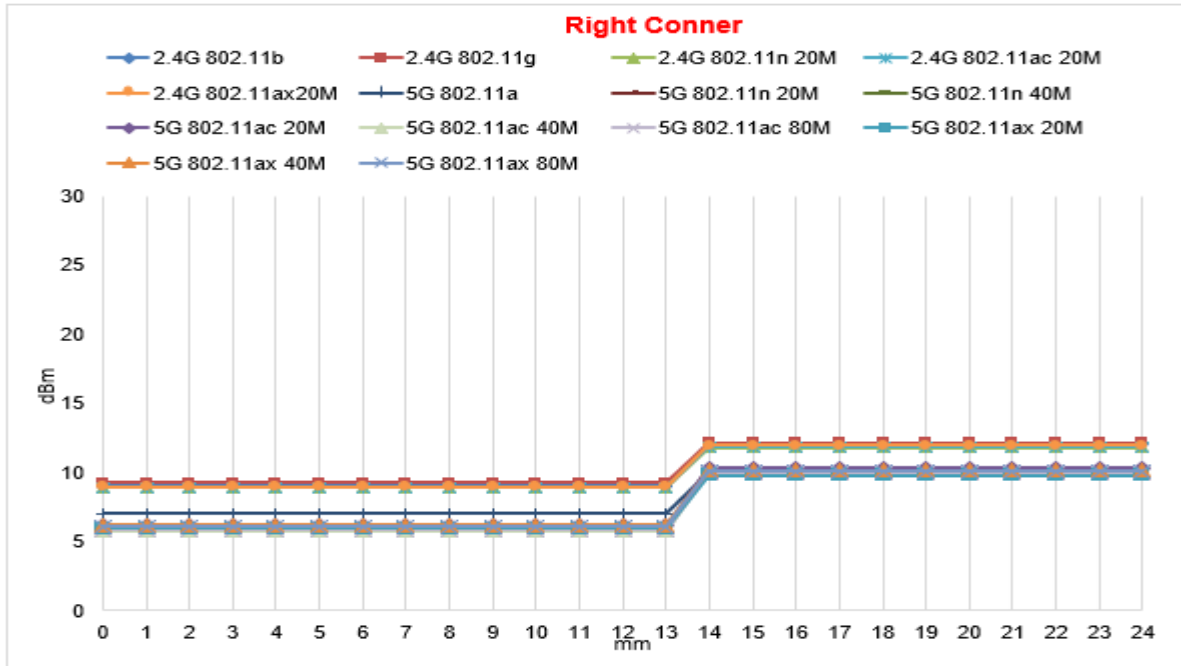
- DUT Moving Away (Release) from the Phantom
 Reduced Power- Grip Active



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-Documents.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@sgs.com

Antenna 1 Reduced Power- RSDB with Grip Active



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-Documents.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@sgs.com



Antenna 2

The Sensor Triggering Distance(mm)		
Position	Left Side	Top Side
Minimum	8	15
Required SAR Test	7	14

Summary of Tablet Tilt Angle Influence to Proximity Sensor Triggering													
Band (MHz)	Minimum trigger distance Per KDB616217§6.2	Minimum trigger distance at which power reduction was maintained over $\pm 45^\circ$	Power Reduction Status										
			-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°
WIFI 2.4GHz	Left side:8mm Top side:15mm	Left side:8mm Top side:15mm	on	on	on	on	on	on	on	on	on	on	on
WIFI 5GHz	Left side:8mm Top side:15mm	Left side:8mm Top side:15mm	on	on	on	on	on	on	on	on	on	on	on

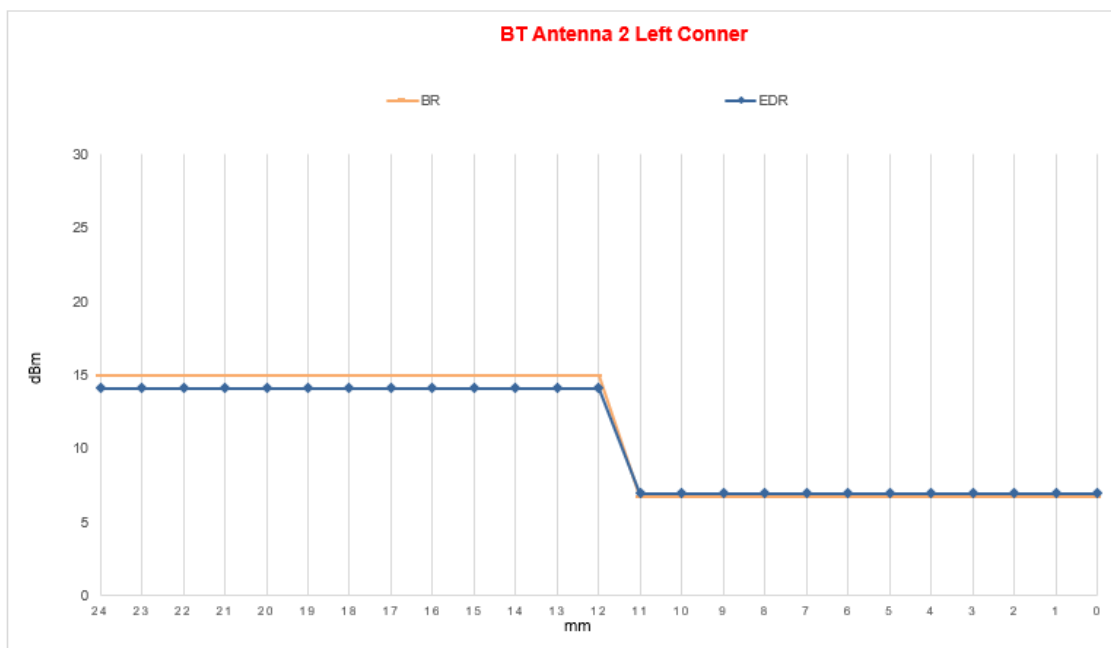
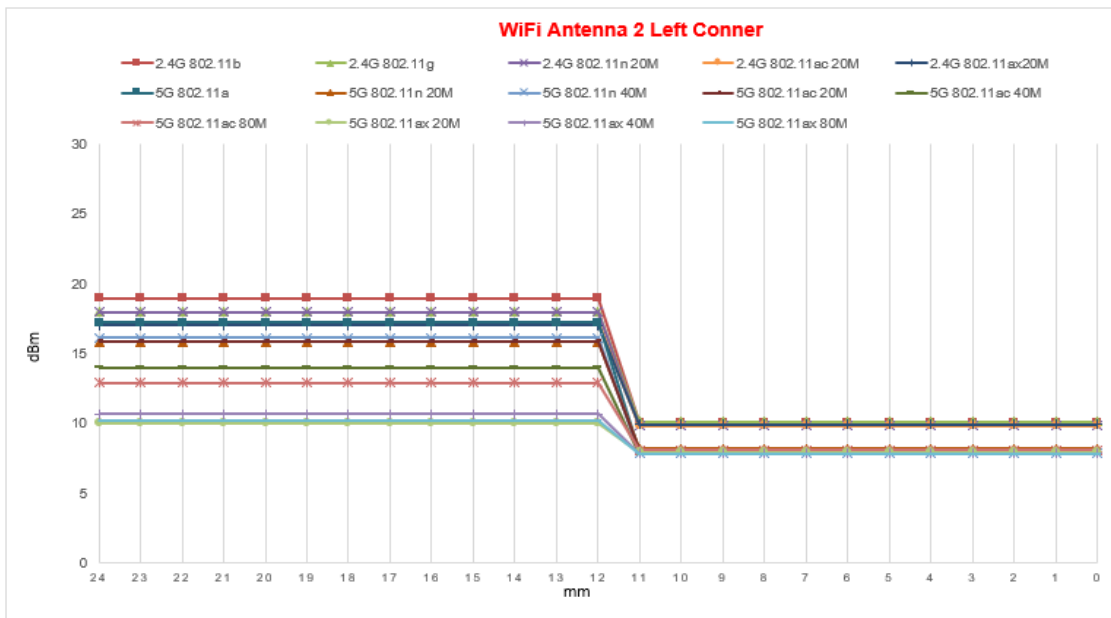


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.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@sgs.com

Left Conner Side

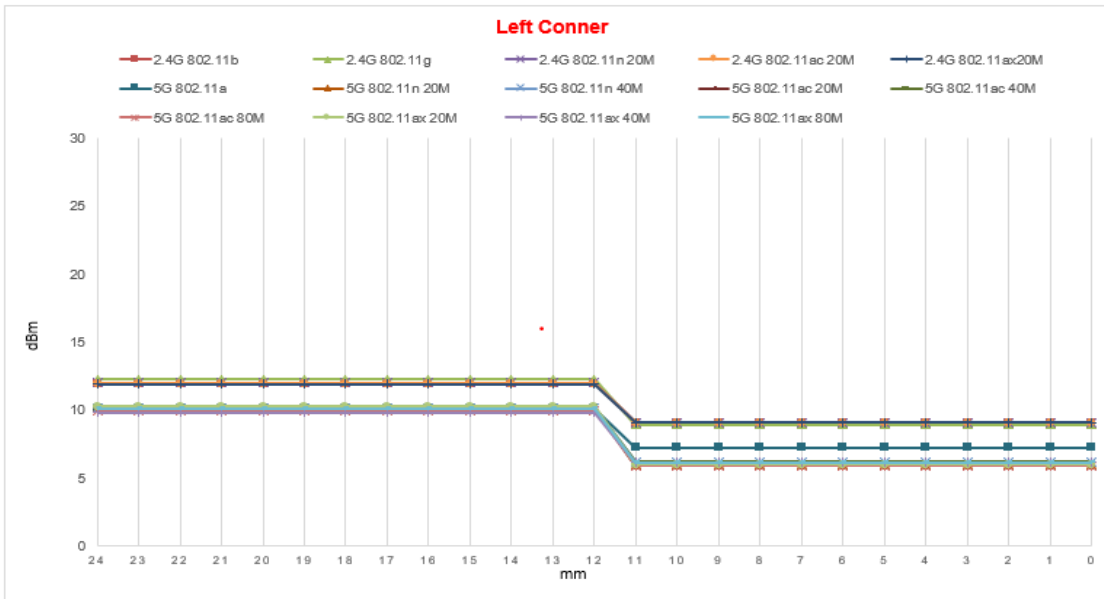
The Sensor Triggering Distance(mm)	
Position	Left Conner Side
Minimum	11
Required SAR Test	10

- DUT Moving Toward (Trigger) the Phantom
 Reduced Power- Grip Active



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-Documents.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@sgs.com

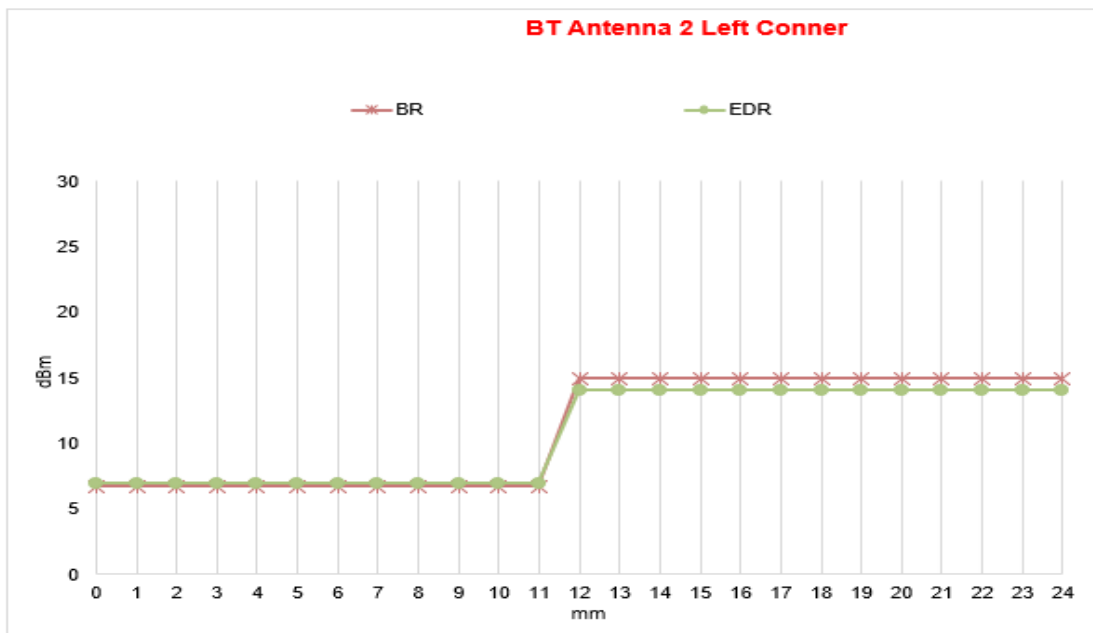
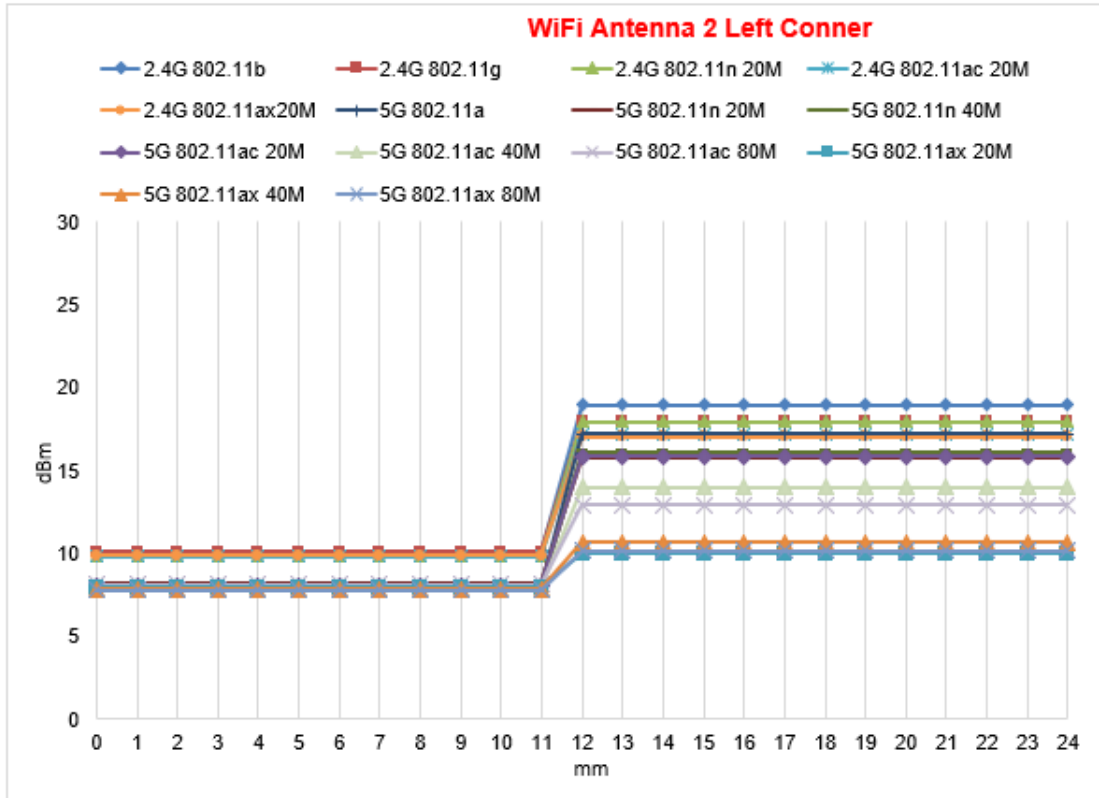
Antenna 2 Reduced Power- RSDB with Grip Active



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-Documents.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@sgs.com

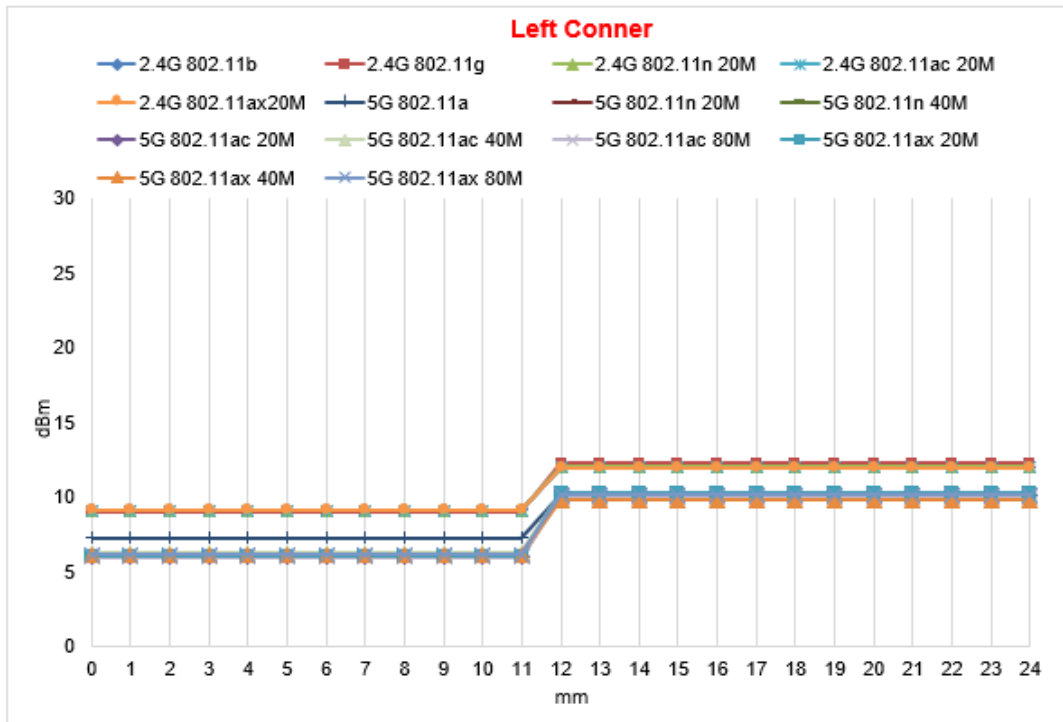
- DUT Moving Away (Release) from the Phantom
 Reduced Power- Grip Active



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-Documents.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@sgs.com

Antenna 2 Reduced Power- RSDB with Grip Active



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-Documents.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@sgs.com

6 SAR System Verification Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

The following tables give the recipes for tissue simulating liquids to be used in different frequency bands:

Ingredients (% by weight)	Frequency (MHz)				
	450	700-900	1800-2000	2300-2500	2500-2700
Water	38.56	40.30	55.24	55.00	54.92
Salt (NaCl)	3.95	1.38	0.31	0.2	0.23
Sucrose	56.32	57.90	0	0	0
HEC	0.98	0.24	0	0	0
Bactericide	0.19	0.18	0	0	0
Tween	0	0	44.45	44.80	44.85

Salt: 99+% Pure Sodium Chloride
 Water: De-ionized, 16 MΩ⁺ resistivity
 Tween: Polyoxyethylene (20) sorbitan monolaurate

Sucrose: 98+% Pure Sucrose
 HEC: Hydroxyethyl Cellulose

HSL5GHz is composed of the following ingredients:
 Water: 50-65%
 Mineral oil: 10-30%
 Emulsifiers: 8-25%
 Sodium salt: 0-1.5%

Table 2: Recipe of Tissue Simulate Liquid



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-Documents.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@sgs.com

6.1.2 Measurement for Tissue Simulate Liquid

The dielectric properties for this Tissue Simulate Liquids were measured by using the Agilent Model 85070E Dielectric Probe in conjunction with Agilent E5071C Network Analyzer (300 KHz-8500 MHz). The Conductivity (σ) and Permittivity (ρ) are listed in bellow table. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was $22\pm 2^{\circ}\text{C}$.

Tissue Type	Measured Frequency (MHz)	Target Tissue ($\pm 5\%$)		Measured Tissue		Liquid Temp. ($^{\circ}\text{C}$)	Measured Date
		ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$		
2450 Head	2450	39.2 (37.24~41.16)	1.8 (1.71~1.89)	38.025	1.852	21.8	2020/7/14
5250 Head	5250	35.9 (34.11~37.70)	4.71 (4.47~4.95)	36.861	4.872	22.3	2020/7/10
5250 Head	5250	35.9 (34.11~37.70)	4.71 (4.47~4.95)	36.638	4.842	22.1	2020/7/11
5250 Head	5250	35.9 (34.11~37.70)	4.71 (4.47~4.95)	36.730	4.675	22.5	2020/7/12
5600 Head	5600	35.5 (33.73~37.30)	5.07 (4.82~5.32)	35.993	5.265	22.3	2020/7/10
5600 Head	5600	35.5 (33.73~37.30)	5.07 (4.82~5.32)	35.770	5.233	22.1	2020/7/11
5600 Head	5600	35.5 (33.73~37.30)	5.07 (4.82~5.32)	35.778	5.059	22.5	2020/7/12
5750 Head	5750	35.4 (33.63~37.17)	5.22 (4.96~5.48)	35.812	5.463	22.3	2020/7/10
5750 Head	5750	35.4 (33.63~37.17)	5.22 (4.96~5.48)	35.589	5.430	22.1	2020/7/11
5750 Head	5750	35.4 (33.63~37.17)	5.22 (4.96~5.48)	35.414	5.229	22.5	2020/7/12

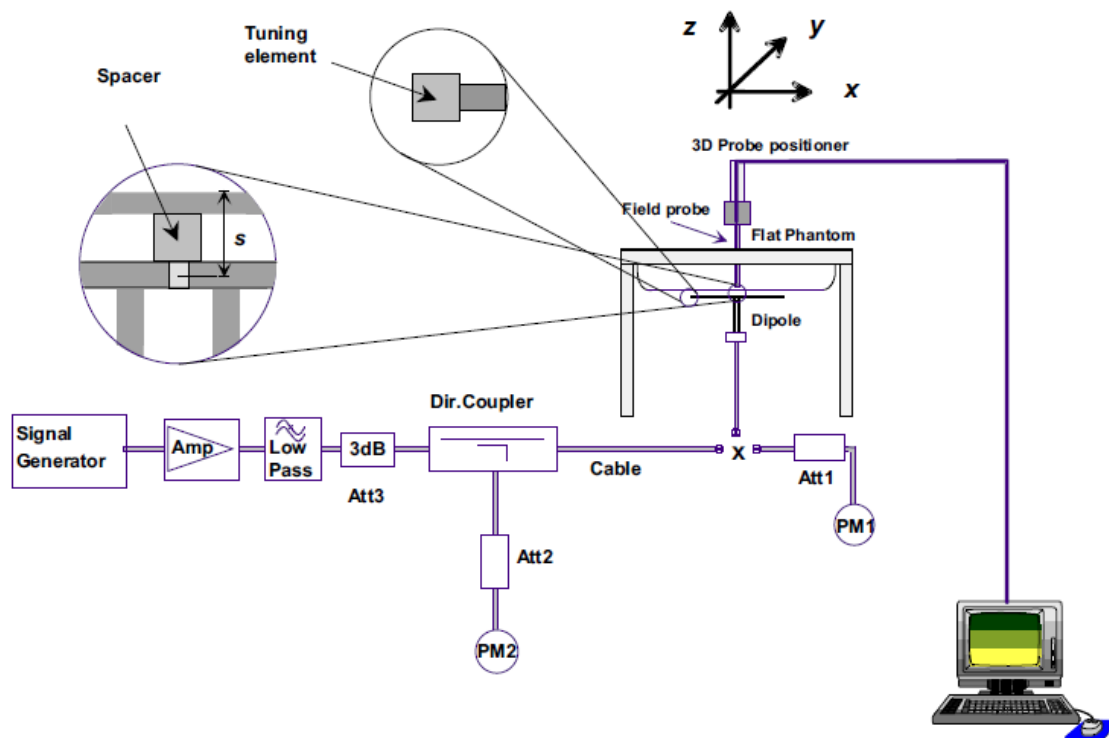
Table 3 : Measurement result of Tissue electric parameters



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-Documents.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@sgs.com

6.2 SAR System Check

The microwave circuit arrangement for system Check is sketched in F-3. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. The tests were conducted on the same days as the measurement of the EUT. The obtained results from the system accuracy verification are displayed in the following table (A power level of 250mW (below 3GHz) or 100mW (3-6GHz) was input to the dipole antenna). During the tests, the ambient temperature of the laboratory was in the range 22±2°C, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above 15±0.5 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



F-3. the microwave circuit arrangement used for SAR system check



6.2.1 Summary System Check Result(s)

Validation Kit		Measure d SAR 250mW	Measure d SAR 250mW	Measured SAR (normalized to 1W)	Measure d SAR (normalized to 1W)	Target SAR (normalized to 1W) (±10%)	Target SAR (normalized to 1W) (±10%)	Liquid Temp. (°C)	Measured Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)		
D2450V2	Head	13.40	6.29	53.60	25.16	51.9 (46.71~57.09)	23.8 (21.42~26.18)	21.8	2020/7/14
Validation Kit		Measure d SAR 100mW	Measure d SAR 100mW	Measured SAR (normalized to 1W)	Measure d SAR (normalized to 1W)	Target SAR (normalized to 1W) (±10%)	Target SAR (normalized to 1W) (±10%)	Liquid Temp. (°C)	Measured Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)		
D5GHz V2	Head (5.25GHz)	8.12	2.33	81.2	23.3	75.2 (67.68~82.72)	21.5 (19.35~23.65)	22.3	2020/7/10
	Head (5.25GHz)	8.17	2.35	81.7	23.5	75.2 (67.68~82.72)	21.5 (19.35~23.65)	22.1	2020/7/11
	Head (5.25GHz)	7.89	2.27	78.9	22.7	75.2 (67.68~82.72)	21.5 (19.35~23.65)	22.5	2020/7/12
	Head (5.6GHz)	8.74	2.49	87.4	24.9	80 (72~88)	22.7 (20.43~24.97)	22.3	2020/7/10
	Head (5.6GHz)	8.69	2.48	86.9	24.8	80 (72~88)	22.7 (20.43~24.97)	22.1	2020/7/11
	Head (5.6GHz)	8.40	2.40	84	24	80 (72~88)	22.7 (20.43~24.97)	22.5	2020/7/12
	Head (5.75GHz)	8.11	2.31	81.1	23.1	78.7 (70.83~86.57)	22.3 (20.07~24.53)	22.3	2020/7/10
	Head (5.75GHz)	8.06	2.30	80.6	23	78.7 (70.83~86.57)	22.3 (20.07~24.53)	22.1	2020/7/11
	Head (5.75GHz)	7.77	2.21	77.7	22.1	78.7 (70.83~86.57)	22.3 (20.07~24.53)	22.5	2020/7/12

Table 4: SAR System Check Result

6.2.2 Detailed System Check Results

Please see the Appendix A



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-Documents.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@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

7 Test Configuration

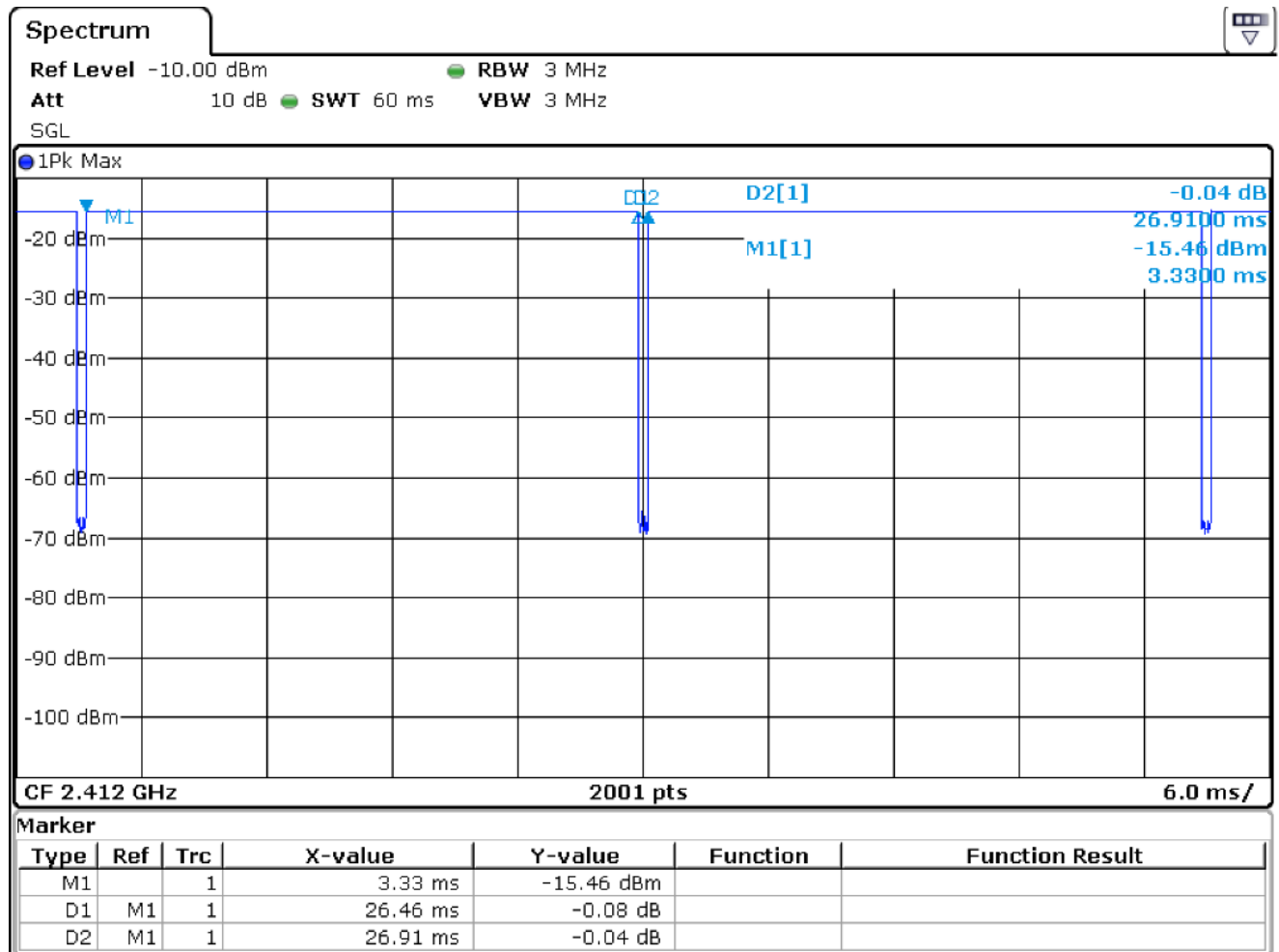
7.1 Operation Configurations

7.1.1 WiFi Test Configuration

A Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR measurement.

7.1.1.1 Duty cycle

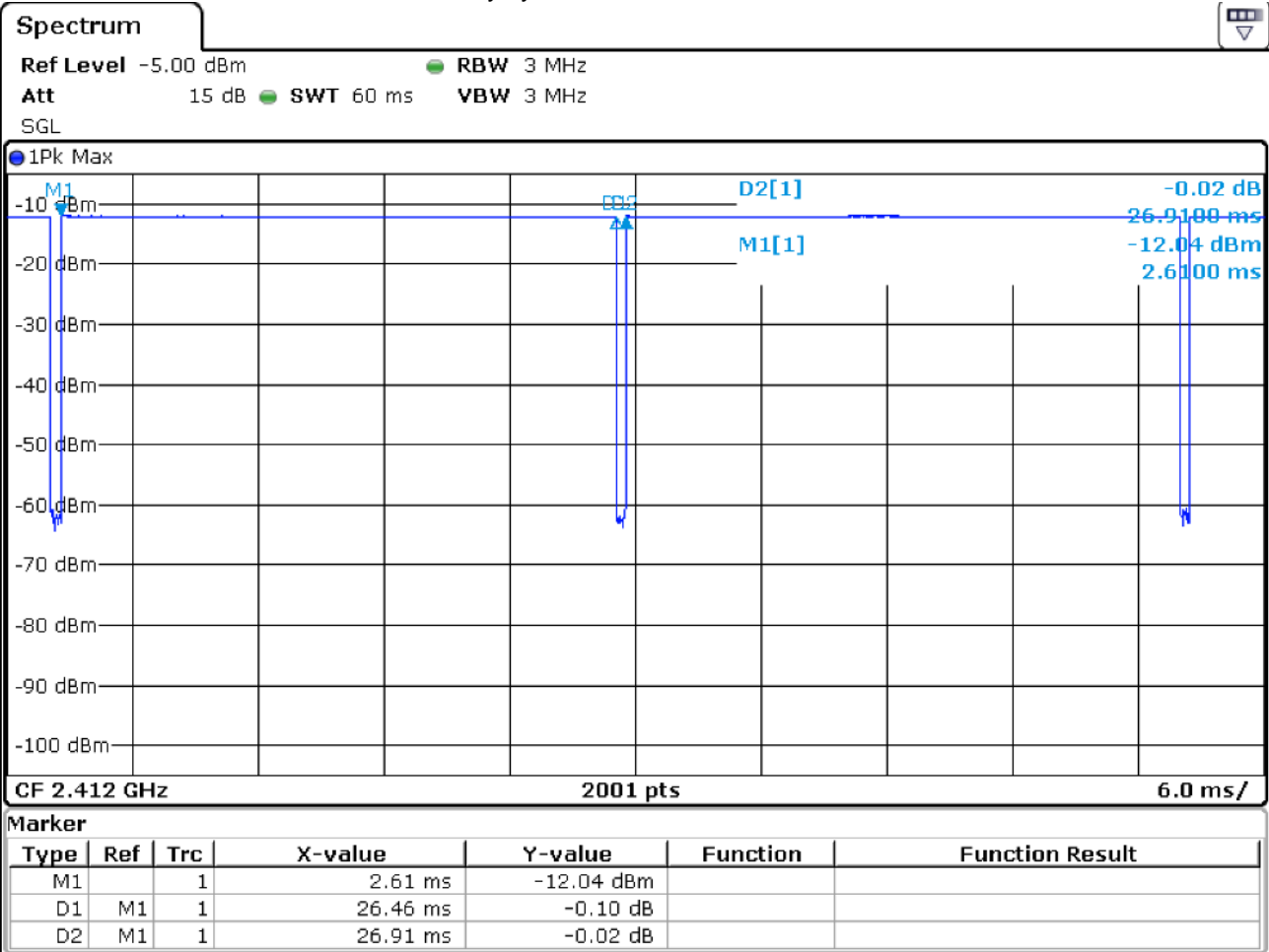
Antenna 1 2.4GHz Wi-Fi 802.11b Duty cycle=26.46/26.91=98.33%



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-Documents.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@sgs.com

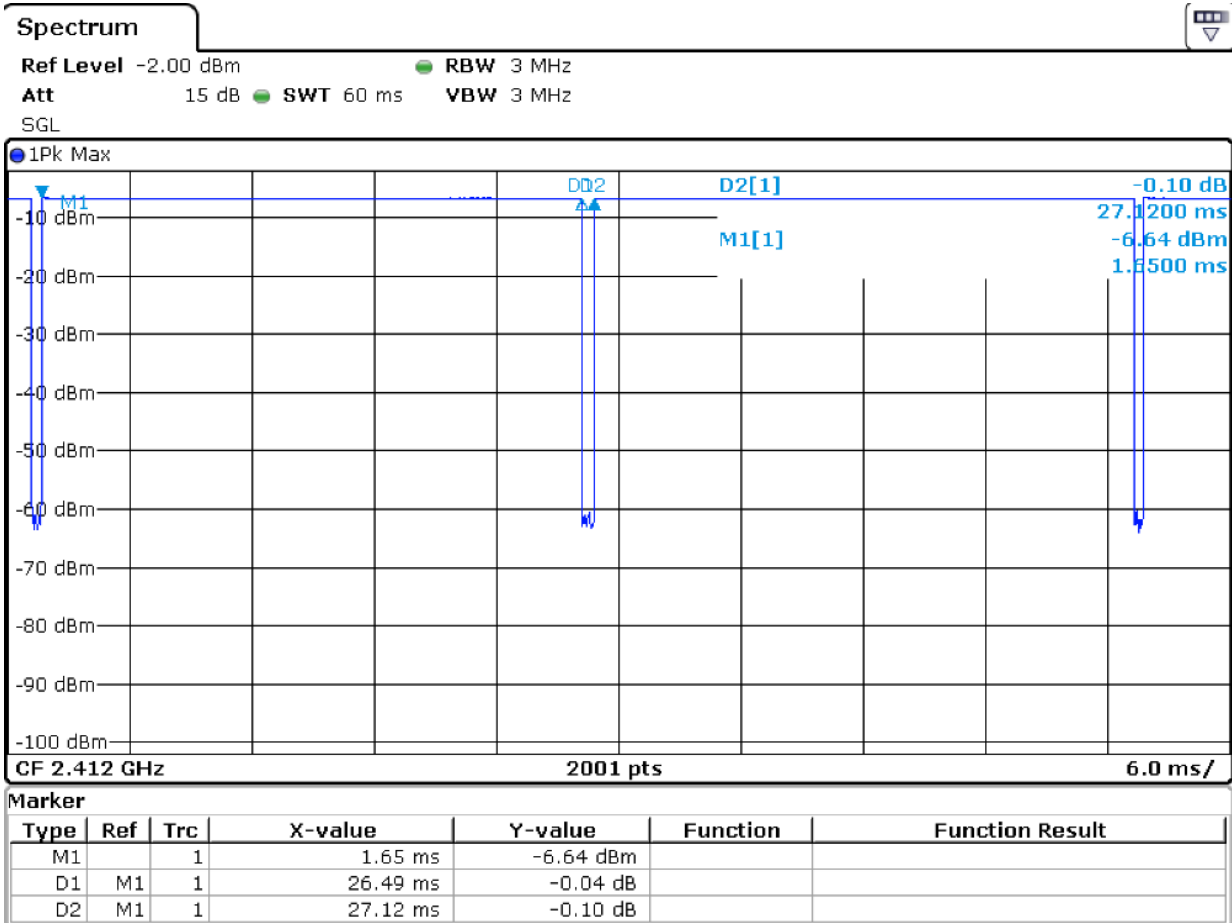
Antenna 2 2.4GHz Wi-Fi 802.11b Duty cycle=26.46/26.91=98.33%



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-Documents.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.

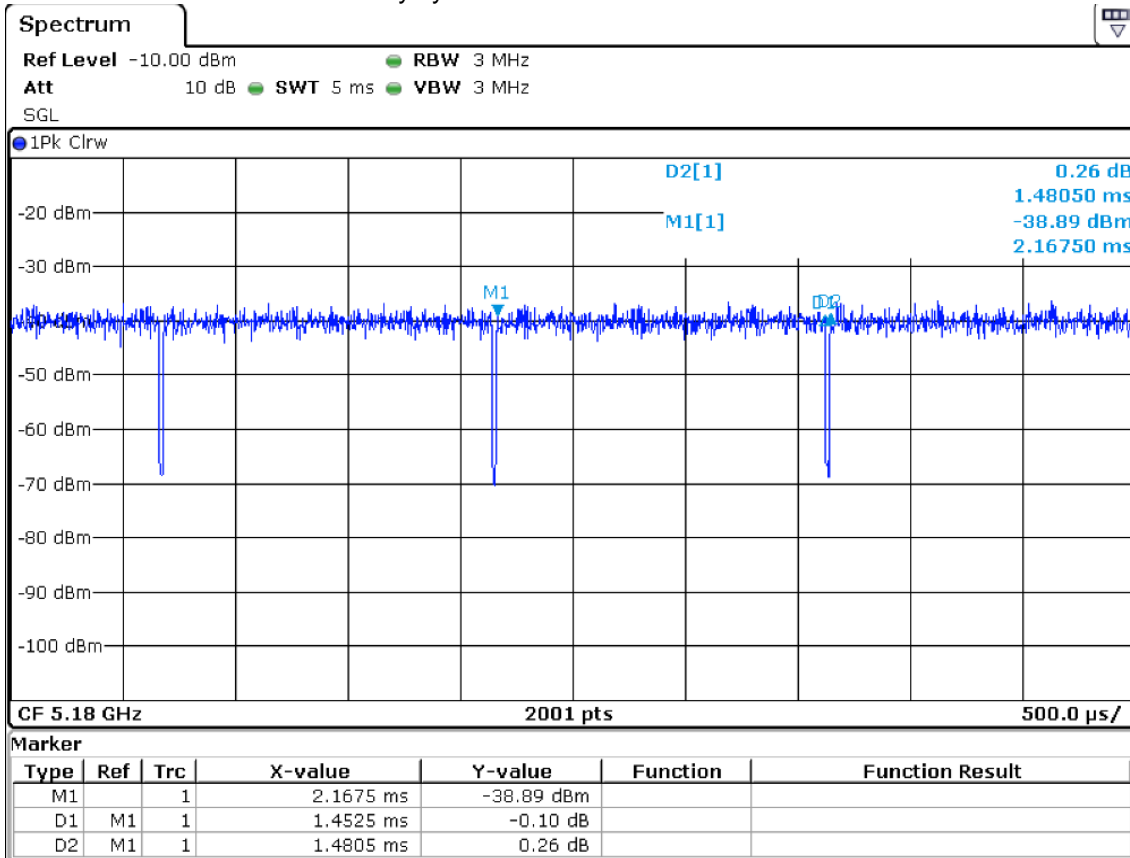
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

MIMO 2.4GHz Wi-Fi 802.11b Duty cycle=26.49/27.12=97.68%



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-Documents.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@sgs.com

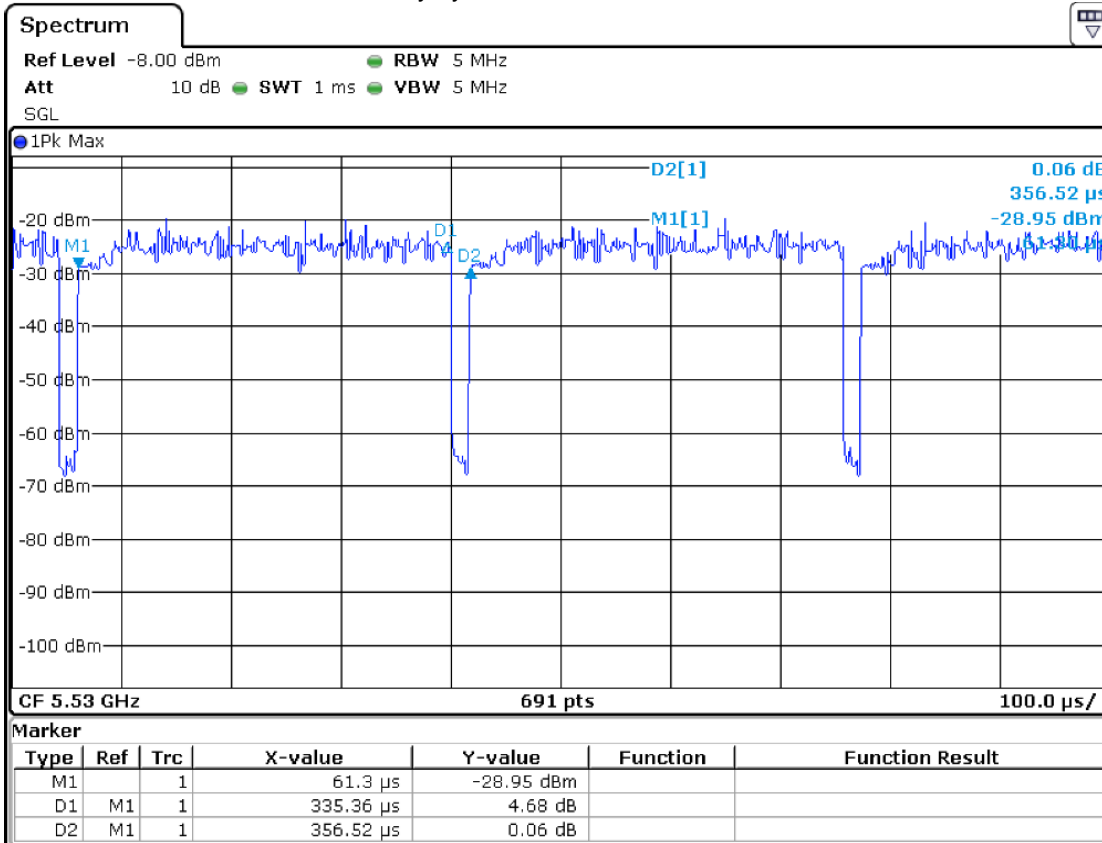
Antenna 1 5Hz Wi-Fi 802.11a Duty cycle=1.4525/1.4805=98.11%



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-Documents.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.

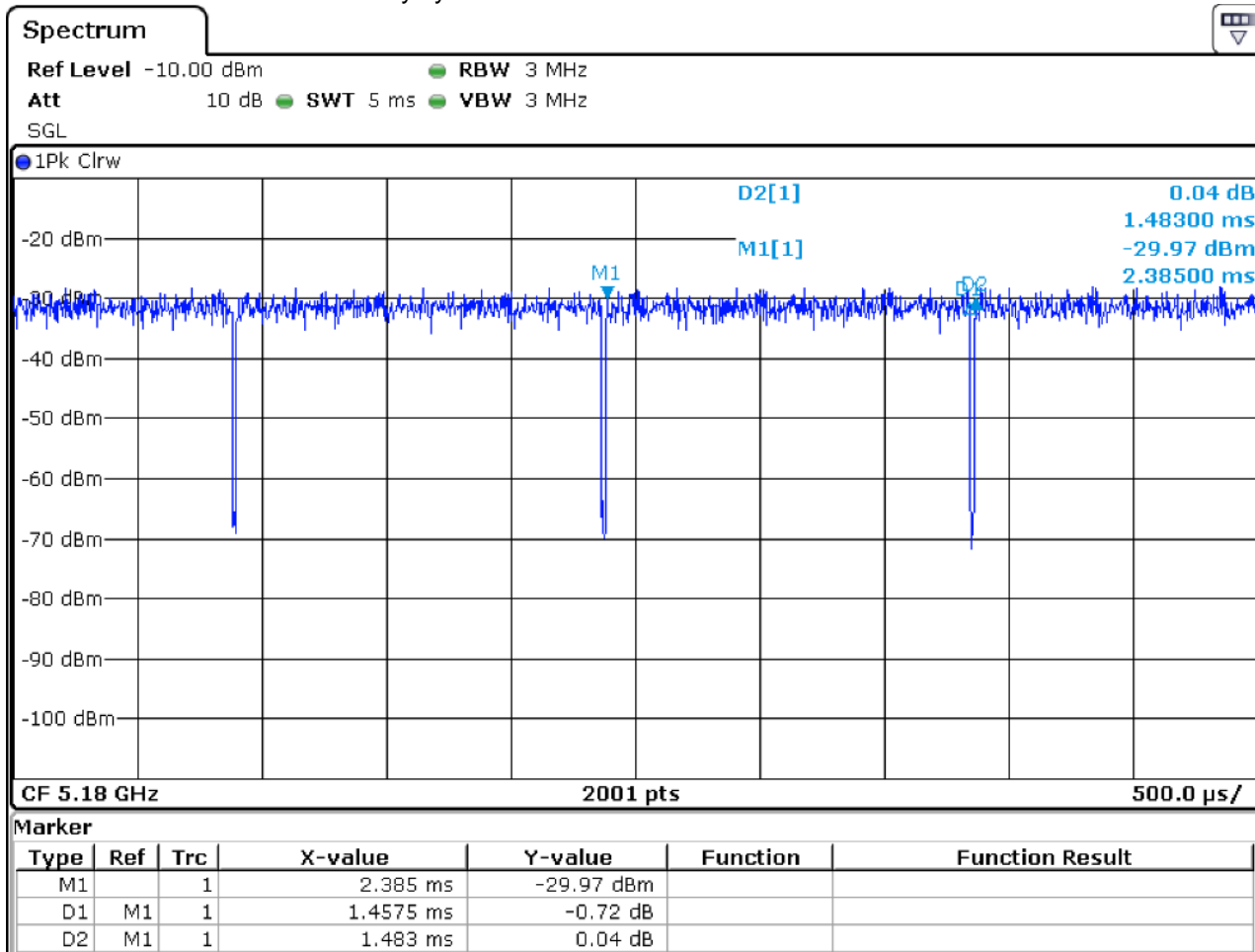
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Antenna 1 5Hz Wi-Fi 802.11ac Duty cycle=335.36/356.52=94.06%



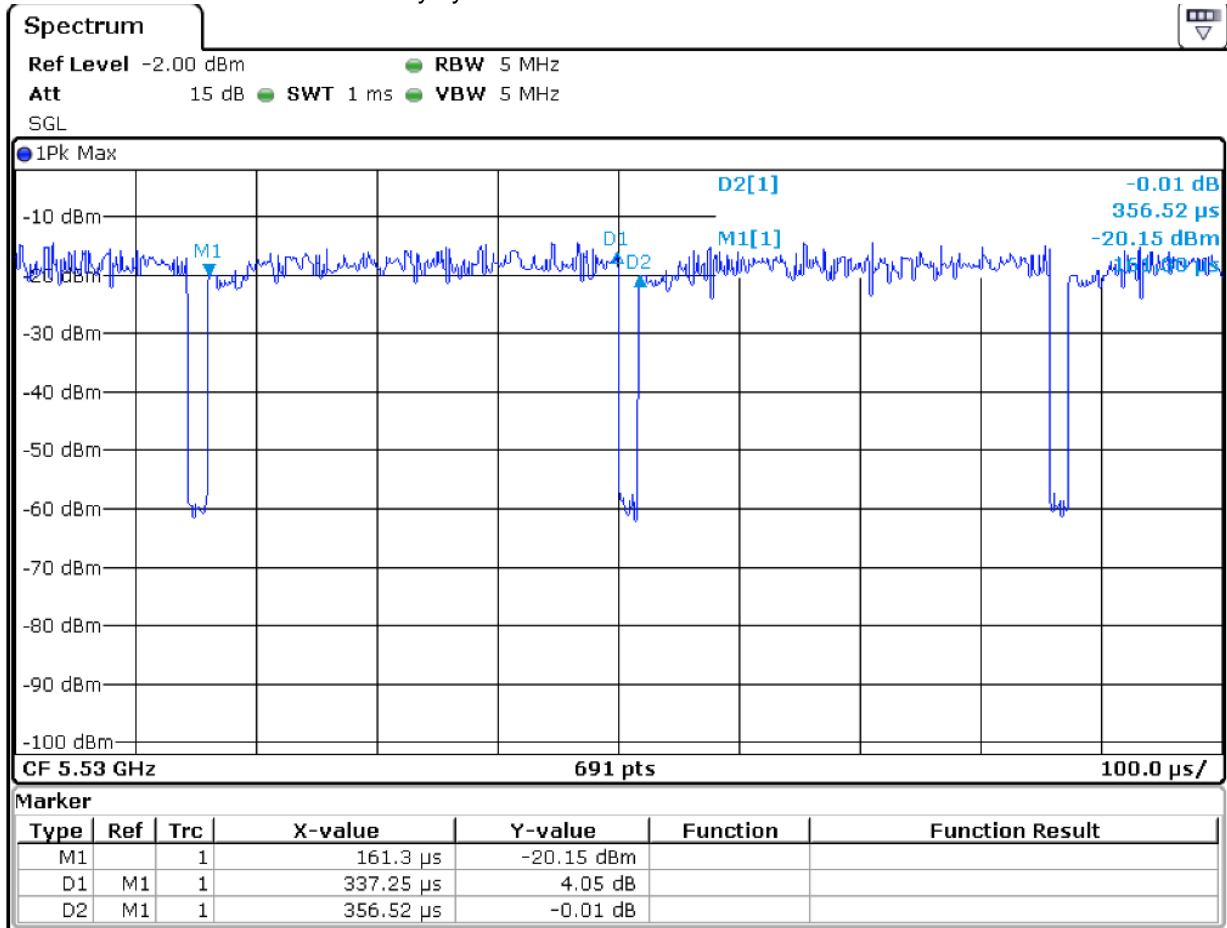
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.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@sgs.com

Antenna 2.5GHz Wi-Fi 802.11a Duty cycle=1.4575/1.483=98.28%



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-Documents.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@sgs.com

Antenna 2 5Hz Wi-Fi 802.11ac Duty cycle=337.25/356.52=94.59%



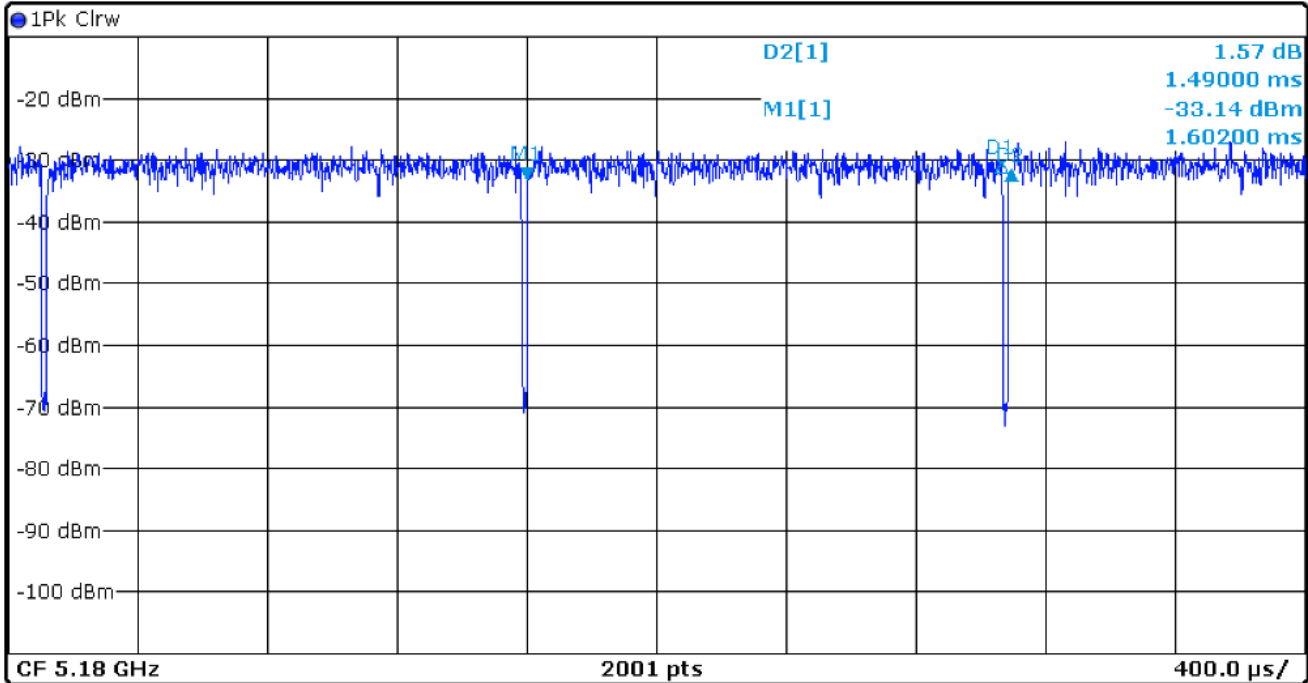
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.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@sgs.com

MIMO 5GHz Wi-Fi 802.11a Duty cycle=1.462/1.49=98.12%



Spectrum

Ref Level -10.00 dBm RBW 3 MHz
 Att 10 dB SWT 4 ms VBW 3 MHz
 SGL

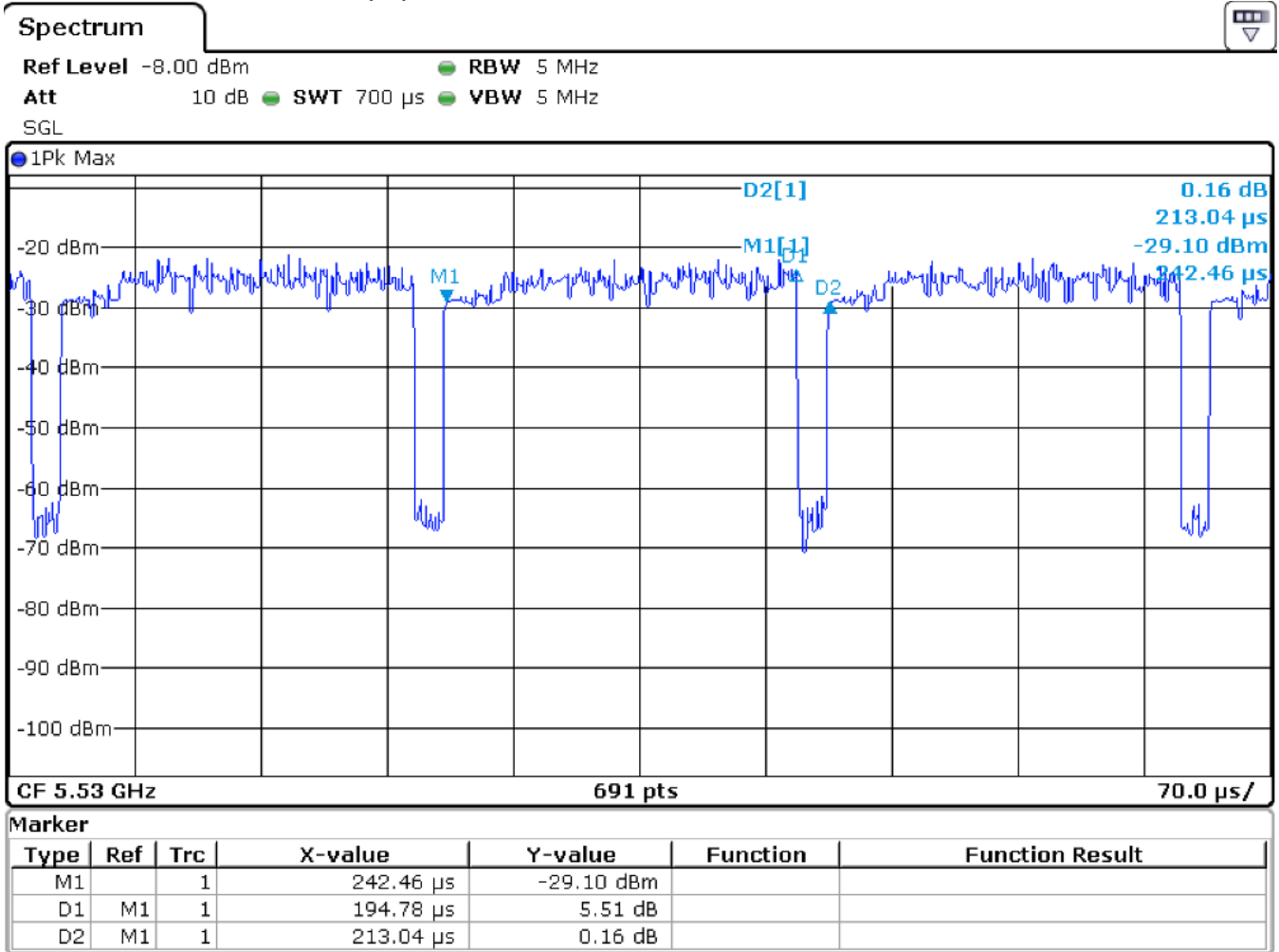


Marker						
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.602 ms	-33.14 dBm		
D1	M1	1	1.462 ms	3.01 dB		
D2	M1	1	1.49 ms	1.57 dB		



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-Documents.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@sgs.com

MIMO 5GHz Wi-Fi 802.11ac Duty cycle=194.78/213.04=91.43%



7.1.1.2 Initial Test Position SAR Test Reduction Procedure

DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures. The initial test position procedure is described in the following:

- 1) . When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other (remaining) test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band. SAR is also not required for that exposure configuration in the subsequent test configuration(s).



- 2) . When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest extrapolated or estimated 1-g SAR conditions determined by area scans or next closest/smallest test separation distance and maximum RF coupling test positions based on manufacturer justification, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg or all required test positions (left, right, touch, tilt or subsequent surfaces and edges) are tested.
- 3) . For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested. a) Additional power measurements may be required for this step, which should be limited to those necessary for identifying the subsequent highest output power channels.

7.1.1.3 Initial Test Configuration Procedures

An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. For configurations with the same specified or measured maximum output power, additional transmission mode and test channel selection procedures are required. SAR test reduction for subsequent highest output test channels is determined according to *reported* SAR of the initial test configuration.

For next to the ear, hotspot mode and UMC mini-tablet exposure configurations where multiple test positions are required, the initial test position procedure is applied to minimize the number of test positions required for SAR measurement using the initial test configuration transmission mode. For fixed exposure conditions that do not have multiple SAR test positions, SAR is measured in the transmission mode determined by the initial test configuration. When the *reported* SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for subsequent next highest measured output power channel(s) in the initial test configuration until *reported* SAR is ≤ 1.2 W/kg or all required channels are tested.

7.1.1.4 Subsequent Test Configuration Procedures

SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. The initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations. When the same maximum output power is specified for multiple transmission modes, additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.

- 1) . When SAR test exclusion provisions of KDB Publication 447498 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.
- 2) . When the highest *reported* SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.



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-Documents.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@sgs.com

- 3) . The number of channels in the initial test configuration and subsequent test configuration can be different due to differences in channel bandwidth. When SAR measurement is required for a subsequent test configuration and the channel bandwidth is smaller than that in the initial test configuration, all channels in the subsequent test configuration that overlap with the larger bandwidth channel tested in the initial test configuration should be used to determine the highest maximum output power channel. This step requires additional power measurement to identify the highest maximum output power channel in the subsequent test configuration to determine SAR test reduction.
 - a) SAR should first be measured for the channel with highest measured output power in the subsequent test configuration.
 - b) SAR for subsequent highest measured maximum output power channels in the subsequent test configuration is required only when the *reported* SAR of the preceding higher maximum output power channel(s) in the subsequent test configuration is > 1.2 W/kg or until all required channels are tested. i) For channels with the same measured maximum output power, SAR should be measured using the channel closest to the center frequency of the larger channel bandwidth channel in the initial test configuration.
- 4) . SAR measurements for the remaining highest specified maximum output power OFDM transmission mode configurations that have not been tested in the initial test configuration (highest maximum output) or subsequent test configuration(s) (subsequent next highest maximum output power) is determined by recursively applying the subsequent test configuration procedures in this section to the remaining configurations according to the following:
 - a) replace “subsequent test configuration” with “next subsequent test configuration” (i.e., subsequent next highest specified maximum output power configuration)
 - b) replace “initial test configuration” with “all tested higher output power configurations”

7.1.1.5 2.4 GHz WiFi SAR Procedures

Separate SAR procedures are applied to DSSS and OFDM configurations in the 2.4 GHz band to simplify DSSS test requirements. For 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test position and initial test position procedure applies to multiple exposure test positions. When SAR measurement is required for an OFDM configuration, the initial test configuration, subsequent test configuration and initial test position procedures are applied. The SAR test exclusion requirements for 802.11g/n OFDM configurations are described in following.

- **802.11b DSSS SAR Test Requirements**

SAR is measured for 2.4 GHz 802.11b DSSS using either a fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

- 1) . When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 2) . When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

- **2.4 GHz 802.11g/n OFDM SAR Test Exclusion Requirements**

When SAR measurement is required for 2.4 GHz 802.11g/n OFDM configurations, the measurement and test reduction procedures for OFDM are applied (section 5.3, including sub-sections). SAR is not required for the following 2.4 GHz OFDM conditions.

- 1) . When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.
- 2) . When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.



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-Documents.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@sgs.com

7.1.1.6 5GHz WiFi SAR Procedures

- **U-NII-1 and U-NII-2A Bands**

For devices that operate in only one of the U-NII-1 and U-NII-2A bands, the normally required SAR procedures for OFDM configurations are applied. For devices that operate in both U-NII bands using the same transmitter and antenna(s), SAR test reduction is determined according to the following :

- 1) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest *reported* SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, both bands are tested independently for SAR.
- 2) When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest *reported* SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, both bands are tested independently for SAR.
- 3) The two U-NII bands may be aggregated to support a 160 MHz channel on channel number 50. Without additional testing, the maximum output power for this is limited to the lower of the maximum output power certified for the two bands. When SAR measurement is required for at least one of the bands and the highest *reported* SAR adjusted by the ratio of specified maximum output power of aggregated to standalone band is > 1.2 W/kg, SAR is required for the 160 MHz channel. This procedure does not apply to an aggregated band with maximum output higher than the standalone band(s); the aggregated band must be tested independently for SAR. SAR is not required when the 160 MHz channel is operating at a reduced maximum power and also qualifies for SAR test exclusion.

- **U-NII-2C and U-NII-3 Bands**

The frequency range covered by these bands is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. when Terminal Doppler Weather Radar (TDWR) restriction applies, all channels that operate at 5.60 – 5.65 GHz must be included to apply the SAR test reduction and measurement procedures.

When the same transmitter and antenna(s) are used for U-NII-2C band and U-NII-3 band or 5.8 GHz band of §15.247, the bands may be aggregated to enable additional channels with 20, 40 or 80 MHz bandwidth to span across the band gap, as illustrated in Appendix B. The maximum output power for the additional band gap channels is limited to the lower of those certified for the bands. Unless band gap channels are permanently disabled, they must be considered for SAR testing. The frequency range covered by these bands is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. To maintain SAR measurement accuracy and to facilitate test reduction, the channels in U-NII-2C band above 5.65 GHz may be grouped with the 5.8 GHz channels in U-NII-3 or §15.247 band to enable two SAR probe calibration frequency points to cover the bands, including the band gap channels. When band gap channels are supported and the bands are not aggregated for SAR testing, band gap channels must be considered independently in each band according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.



• **OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements**

The initial test configuration for 5 GHz OFDM transmission modes is determined by the 802.11 configuration with the highest maximum output power specified for production units, including tune-up tolerance, in each standalone and aggregated frequency band. SAR for the initial test configuration is measured using the highest maximum output power channel determined by the default power measurement procedures. When multiple configurations in a frequency band have the same specified maximum output power, the initial test configuration is determined according to the following steps applied sequentially.

- 1) The largest channel bandwidth configuration is selected among the multiple configurations with the same specified maximum output power.
- 2) If multiple configurations have the same specified maximum output power and largest channel bandwidth, the lowest order modulation among the largest channel bandwidth configurations is selected.
- 3) If multiple configurations have the same specified maximum output power, largest channel bandwidth and lowest order modulation, the lowest data rate configuration among these configurations is selected.
- 4) When multiple transmission modes (802.11a/g/n/ac) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n. After an initial test configuration is determined, if multiple test channels have the same measured maximum output power, the channel chosen for SAR measurement is determined according to the following. These channel selection procedures apply to both the initial test configuration and subsequent test configuration(s), with respect to the default power measurement procedures or additional power measurements required for further SAR test reduction. The same procedures also apply to subsequent highest output power channel(s) selection.
 - a) The channel closest to mid-band frequency is selected for SAR measurement.
 - b) For channels with equal separation from mid-band frequency; for example, high and low channels or two mid-band channels, the higher frequency (number) channel is selected for SAR measurement.

• **SAR Test Requirements for OFDM configurations**

When SAR measurement is required for 802.11 a/n/ac OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. When the same transmitter and antenna(s) are used for U-NII-1 and U-NII-2A bands, additional SAR test reduction applies. When band gap channels between U-NII-2C band and 5.8 GHz U-NII-3 or §15.247 band are supported, the highest maximum output power transmission mode configuration and maximum output power channel across the bands must be used to determine SAR test reduction, according to the initial test configuration and subsequent test configuration requirements. In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured maximum output power should be clearly distinguished to apply the procedures.



8 Test Result

8.1 Measurement of RF Conducted Power

8.1.1 Conducted Power of WIFI Antenna 1

Antenna 1 Maximum Power

Mode	Freq. (MHz)	Channel	Data Rate (Mbps)	Average Power (dB m)	Tune up	SAR Test
802.11b	2412	1	1	19.50	20.00	YES
	2437	6		19.44	20.00	NO
	2462	11		19.26	20.00	NO
	2467	12		5.12	6.00	NO
	2472	13		4.04	5.00	NO
802.11g	2412	1	6	18.18	19.00	NO
	2437	6		18.32	19.00	NO
	2462	11		18.10	19.00	NO
	2467	12		4.80	6.00	NO
	2472	13		2.92	4.00	NO
802.11n	2412	1	6.5	17.11	18.00	NO
	2437	6		17.23	18.00	NO
	2462	11		17.03	18.00	NO
	2467	12		3.04	4.00	NO
	2472	13		1.02	2.00	NO
802.11ac	2412	1	MCS0	17.09	18.00	NO
	2437	6		17.15	18.00	NO
	2462	11		17.10	18.00	NO
	2467	12		3.14	4.00	NO
	2472	13		1.05	2.00	NO



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-Documents.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@sgs.com

Antenna 1 Reduced Power- Grip Active

Mode	Freq. (MHz)	Channel	Data Rate (Mbps)	Average Power (dB m)	Tune up	SAR Test
802.11b	2412	1	1	9.77	11.00	NO
	2437	6		9.87	11.00	NO
	2462	11		10.07	11.00	YES
802.11g	2412	1	6	9.80	11.00	NO
	2437	6		9.91	11.00	NO
	2462	11		9.60	11.00	NO
802.11n	2412	1	6.5	9.82	11.00	NO
	2437	6		10.02	11.00	NO
	2462	11		9.83	11.00	NO
802.11ac	2412	1	MCS0	9.82	11.00	NO
	2437	6		10.01	11.00	NO
	2462	11		9.81	11.00	NO

Note:

Ch12/13 in airplane mode only operate, no power reduction.



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-Documents.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@sgs.com



Antenna 1 Reduced Power- RSDB

Mode	Freq. (MHz)	Channel	Data Rate (Mbps)	Average Power (dB m)	Tune up	SAR Test
802.11b	2412	1	1	12.10	13.00	NO
	2437	6		12.12	13.00	NO
	2462	11		12.05	13.00	NO
802.11g	2412	1	6	11.89	13.00	NO
	2437	6		12.14	13.00	NO
	2462	11		11.87	13.00	NO
802.11n	2412	1	6.5	12.01	13.00	NO
	2437	6		11.82	13.00	NO
	2462	11		12.04	13.00	NO
802.11ac	2412	1	MCS0	12.07	13.00	NO
	2437	6		11.89	13.00	NO
	2462	11		12.10	13.00	NO

Note:

Ch12/13 in airplane mode only operate, no power reduction.



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-Documents.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@sgs.com

Antenna 1 Reduced Power- RSDb with Grip Active

Mode	Freq. (MHz)	Channel	Data Rate (Mbps)	Average Power (dB m)	Tune up	SAR Test
802.11b	2412	1	1	9.16	10.00	NO
	2437	6		9.02	10.00	NO
	2462	11		9.20	10.00	NO
802.11g	2412	1	6	9.00	10.00	NO
	2437	6		9.25	10.00	NO
	2462	11		9.00	10.00	NO
802.11n	2412	1	6.5	9.12	10.00	NO
	2437	6		8.94	10.00	NO
	2462	11		9.13	10.00	NO
802.11ac	2412	1	MCS0	9.06	10.00	NO
	2437	6		8.94	10.00	NO
	2462	11		9.12	10.00	NO

Note:

Ch12/13 in airplane mode only operate, no power reduction.



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-Documents.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@sgs.com

Antenna 1 Maximum Power

5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11a	U-NII-1	36	5180	6	18.00	17.08	NO
		40	5200		18.00	17.27	NO
		44	5220		18.00	17.28	NO
		48	5240		18.00	17.21	NO
	U-NII-2A	52	5260		18.00	17.31	NO
		56	5280		18.00	17.31	NO
		60	5300		18.00	17.45	Yes
		64	5320		18.00	17.17	NO
	U-NII-2C	100	5500		18.00	16.84	NO
		104	5520		18.00	16.76	NO
		108	5540		18.00	16.90	NO
		112	5560		18.00	16.89	NO
		116	5580		18.00	16.74	NO
		120	5600		18.00	16.84	NO
		124	5620		18.00	17.10	NO
		128	5640		18.00	16.94	NO
		132	5660		18.00	17.01	NO
		136	5680		18.00	17.11	YES
	U-NII-3	140	5700		18.00	16.53	NO
		144	5720		18.00	16.78	NO
149		5745	18.00	16.94	NO		
157		5785	18.00	16.98	No		
		165	5825	18.00	17.10	Yes	
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11n-HT20	U-NII-1	36	5180	MCS0	17.00	15.91	NO
		40	5200		17.00	15.94	NO
		44	5220		17.00	15.93	NO
		48	5240		17.00	15.93	NO
	U-NII-2A	52	5260		17.00	16.02	NO
		56	5280		17.00	15.94	NO
		60	5300		17.00	16.11	NO
		64	5320		17.00	15.92	NO
	U-NII-2C	100	5500		17.00	15.99	NO
		104	5520		17.00	16.01	NO
		108	5540		17.00	16.10	NO
		112	5560		17.00	15.92	NO
		116	5580		17.00	15.83	NO
		120	5600		17.00	15.83	NO
		124	5620		17.00	16.18	NO
		128	5640		17.00	16.08	NO
		132	5660		17.00	16.14	NO
		136	5680		17.00	16.24	NO
	U-NII-3	140	5700		17.00	15.78	NO
		144	5720		17.00	15.95	NO
149		5745	17.00	16.18	NO		
157		5785	17.00	15.85	NO		
		165	5825	17.00	15.91	NO	
5GHz	mode	Channel	Frequency (MHz)	Data	Tune up	Average Power	SAR Test



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-Documents.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@sgs.com



				Rate(Mbps)	(dBm)				
802.11n- HT40	U-NII-1	38	5190	MCS0	13.00	11.93	NO		
		46	5230		17.00	15.80	NO		
	U-NII-2A	54	5270		17.00	15.96	NO		
		62	5310		14.00	13.38	NO		
	U-NII-2C	102	5510		17.00	15.78	NO		
		110	5550		17.00	15.92	NO		
		118	5590		17.00	15.93	NO		
		126	5630		17.00	16.06	NO		
		134	5670		17.00	16.10	NO		
		142	5710		17.00	16.02	NO		
	U-NII-3	151	5755		17.00	16.17	NO		
		159	5795		17.00	16.20	NO		
	5GHz	mode	Channel		Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
	802.11ac 20M	U-NII-1	36		5180	MCS0	17.00	15.89	NO
40			5200	17.00	15.86		NO		
44			5220	17.00	15.88		NO		
48			5240	17.00	15.92		NO		
U-NII-2A		52	5260	17.00	16.05		NO		
		56	5280	17.00	15.91		NO		
		60	5300	17.00	16.02		NO		
		64	5320	17.00	15.87		NO		
U-NII-2C		100	5500	17.00	15.99		NO		
		104	5520	17.00	15.92		NO		
		108	5540	17.00	16.12		NO		
		112	5560	17.00	15.90		NO		
		116	5580	17.00	15.82		NO		
		120	5600	17.00	15.83		NO		
		124	5620	17.00	16.17		NO		
		128	5640	17.00	16.06		NO		
		132	5660	17.00	16.16		NO		
		136	5680	17.00	16.24		NO		
U-NII-3		140	5700	17.00	15.74		NO		
		144	5720	17.00	15.91		NO		
		149	5745	17.00	16.16		NO		
		157	5785	17.00	15.84		NO		
		165	5825	17.00	15.92	NO			
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test		
802.11ac 40M	U-NII-1	38	5190	MCS0	13.00	12.04	NO		
		46	5230		15.00	14.25	NO		
	U-NII-2A	54	5270		15.00	14.35	NO		
		62	5310		14.00	13.42	NO		
	U-NII-2C	102	5510		15.00	13.93	NO		
		110	5550		15.00	13.99	NO		
		118	5590		15.00	13.82	NO		
		126	5630		15.00	14.11	NO		
		134	5670		15.00	14.12	NO		
		142	5710		15.00	13.99	NO		
	U-NII-3	151	5755		15.00	13.88	NO		
		159	5795		15.00	13.98	NO		



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-Documents.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@sgs.com.



5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 80M	U-NII-1	42	5210	MCS0	13.00	11.85	NO
	U-NII-2A	58	5290		13.00	11.83	NO
	U-NII-2C	106	5530		14.00	13.12	NO
		122	5610		14.00	12.82	NO
		138	5690		14.00	12.67	NO
	U-NII-3	155	5775		14.00	13.02	NO



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-Documents.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@sgs.com



Antenna 1 Reduced Power- Grip Active

5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11a	U-NII-1	36	5180	6	9.00	8.25	NO
		40	5200		9.00	7.89	NO
		44	5220		9.00	7.80	NO
		48	5240		9.00	7.77	NO
	U-NII-2A	52	5260		9.00	7.88	NO
		56	5280		9.00	7.79	NO
		60	5300		9.00	7.84	NO
		64	5320		9.00	8.15	NO
	U-NII-2C	100	5500		9.00	8.14	NO
		104	5520		9.00	8.09	NO
		108	5540		9.00	8.01	NO
		112	5560		9.00	8.18	NO
		116	5580		9.00	8.04	NO
		120	5600		9.00	8.10	NO
		124	5620		9.00	8.37	NO
		128	5640		9.00	8.23	NO
		132	5660		9.00	8.35	NO
		136	5680		9.00	8.31	NO
	U-NII-3	140	5700		9.00	7.73	NO
		144	5720		9.00	8.12	NO
149		5745	9.00	8.33	NO		
		157	5785	9.00	8.03	NO	
		165	5825	9.00	8.01	NO	
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11n-HT20	U-NII-1	36	5180	MCS0	9.00	8.22	NO
		40	5200		9.00	7.97	NO
		44	5220		9.00	7.90	NO
		48	5240		9.00	7.81	NO
	U-NII-2A	52	5260		9.00	7.96	NO
		56	5280		9.00	7.93	NO
		60	5300		9.00	7.95	NO
		64	5320		9.00	7.85	NO
	U-NII-2C	100	5500		9.00	7.88	NO
		104	5520		9.00	7.86	NO
		108	5540		9.00	7.72	NO
		112	5560		9.00	7.85	NO
		116	5580		9.00	7.86	NO
		120	5600		9.00	7.92	NO
		124	5620		9.00	8.09	NO
		128	5640		9.00	7.89	NO
		132	5660		9.00	8.01	NO
		136	5680		9.00	8.08	NO
	U-NII-3	140	5700		9.00	7.90	NO
		144	5720		9.00	8.20	NO
149		5745	9.00	8.00	NO		
		157	5785	9.00	7.73	NO	
		165	5825	9.00	7.76	NO	
5GHz	mode	Channel	Frequency(MHz)	Data	Tune up	Average Power	SAR Test



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-Documents.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@sgs.com



				Rate(Mbps)	(dBm)				
802.11n- HT40	U-NII-1	38	5190	MCS0	9.00	8.26	NO		
		46	5230		9.00	8.14	NO		
	U-NII-2A	54	5270		9.00	7.91	NO		
		62	5310		9.00	8.04	NO		
	U-NII-2C	102	5510		9.00	7.84	NO		
		110	5550		9.00	7.88	NO		
		118	5590		9.00	8.01	NO		
		126	5630		9.00	8.33	NO		
		134	5670		9.00	8.32	NO		
		142	5710		9.00	7.86	NO		
	U-NII-3	151	5755		9.00	8.25	NO		
		159	5795		9.00	7.80	NO		
	5GHz	mode	Channel		Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
	802.11ac 20M	U-NII-1	36		5180	MCS0	9.00	7.99	NO
40			5200	9.00	8.10		NO		
44			5220	9.00	7.86		NO		
48			5240	9.00	7.92		NO		
U-NII-2A		52	5260	9.00	7.86		NO		
		56	5280	9.00	7.81		NO		
		60	5300	9.00	7.91		NO		
		64	5320	9.00	7.81		NO		
U-NII-2C		100	5500	9.00	7.85		NO		
		104	5520	9.00	7.86		NO		
		108	5540	9.00	7.83		NO		
		112	5560	9.00	7.87		NO		
		116	5580	9.00	7.75		NO		
		120	5600	9.00	7.89		NO		
		124	5620	9.00	8.00		NO		
		128	5640	9.00	7.87		NO		
		132	5660	9.00	8.01		NO		
		136	5680	9.00	8.04		NO		
		140	5700	9.00	7.94		NO		
		144	5720	9.00	8.23		NO		
U-NII-3		149	5745	9.00	8.00		NO		
		157	5785	9.00	7.76		NO		
		165	5825	9.00	7.88		NO		
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test		
802.11ac 40M	U-NII-1	38	5190	MCS0	9.00	8.18	NO		
		46	5230		9.00	8.23	NO		
	U-NII-2A	54	5270		9.00	8.38	NO		
		62	5310		9.00	8.35	NO		
	U-NII-2C	102	5510		9.00	8.23	NO		
		110	5550		9.00	8.33	NO		
		118	5590		9.00	8.00	NO		
		126	5630		9.00	8.38	NO		
		134	5670		9.00	8.31	NO		
		142	5710		9.00	7.89	NO		
	U-NII-3	151	5755		9.00	8.19	NO		
		159	5795		9.00	8.12	NO		



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-Documents.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@sgs.com.



5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 80M	U-NII-1	42	5210	MCS0	9.00	8.00	NO
	U-NII-2A	58	5290		9.00	8.01	YES
	U-NII-2C	106	5530		9.00	8.05	YES
		122	5610		9.00	7.78	NO
		138	5690		9.00	7.97	NO
	U-NII-3	155	5775		9.00	8.22	Yes



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-Documents.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@sgs.com

Antenna 1 Reduced Power- RSDB

Wi-Fi 5G Sensor off							
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11a	U-NII-1	36	5180	6	11.00	10.00	NO
		40	5200		11.00	9.92	NO
		44	5220		11.00	9.94	NO
		48	5240		11.00	9.91	NO
	U-NII-2A	52	5260		11.00	9.93	NO
		56	5280		11.00	9.85	NO
		60	5300		11.00	9.96	NO
		64	5320		11.00	9.82	NO
	U-NII-2C	100	5500		11.00	9.90	NO
		104	5520		11.00	9.80	NO
		108	5540		11.00	9.77	NO
		112	5560		11.00	9.91	NO
		116	5580		11.00	9.81	NO
		120	5600		11.00	9.86	NO
		124	5620		11.00	10.05	NO
		128	5640		11.00	10.00	NO
		132	5660		11.00	10.16	NO
		136	5680		11.00	10.05	NO
	U-NII-3	140	5700		11.00	10.04	NO
		144	5720		11.00	10.10	NO
149		5745	11.00	10.23	NO		
157		5785	11.00	10.03	NO		
		165	5825	11.00	10.13	NO	
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11n-HT20	U-NII-1	36	5180	MCS0	11.00	10.22	NO
		40	5200		11.00	10.16	NO
		44	5220		11.00	10.08	NO
		48	5240		11.00	10.05	NO
	U-NII-2A	52	5260		11.00	10.17	NO
		56	5280		11.00	10.03	NO
		60	5300		11.00	10.36	NO
		64	5320		11.00	10.32	NO
	U-NII-2C	100	5500		11.00	10.24	NO
		104	5520		11.00	10.39	NO
		108	5540		11.00	10.13	NO
		112	5560		11.00	10.26	NO
		116	5580		11.00	10.28	NO
		120	5600		11.00	10.02	NO
		124	5620		11.00	9.82	NO
		128	5640		11.00	9.77	NO
		132	5660		11.00	10.30	NO
		136	5680		11.00	10.22	NO
	U-NII-3	140	5700		11.00	10.28	NO
		144	5720		11.00	10.26	NO
149		5745	11.00	9.92	NO		
157		5785	11.00	10.27	NO		
		165	5825	11.00	10.32	NO	



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-Documents.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@sgs.com



5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test		
802.11n- HT40	U-NII-1	38	5190	MCS0	11.00	9.96	NO		
		46	5230		11.00	9.88	NO		
	U-NII-2A	54	5270		11.00	9.94	NO		
		62	5310		11.00	10.13	NO		
	U-NII-2C	102	5510		11.00	10.11	NO		
		110	5550		11.00	9.98	NO		
		118	5590		11.00	9.84	NO		
		126	5630		11.00	10.05	NO		
		134	5670		11.00	10.37	NO		
		142	5710		11.00	10.12	NO		
	U-NII-3	151	5755		11.00	9.81	NO		
		159	5795		11.00	10.03	NO		
	5GHz	mode	Channel		Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
	802.11ac 20M	U-NII-1	36		5180	MCS0	11.00	10.15	NO
40			5200	11.00	10.11		NO		
44			5220	11.00	10.03		NO		
48			5240	11.00	10.11		NO		
U-NII-2A		52	5260	11.00	10.09		NO		
		56	5280	11.00	10.01		NO		
		60	5300	11.00	10.34		NO		
		64	5320	11.00	10.29		NO		
		100	5500	11.00	10.27		NO		
		104	5520	11.00	10.38		NO		
U-NII-2C		108	5540	11.00	10.18		NO		
		112	5560	11.00	10.31		NO		
		116	5580	11.00	10.23		NO		
		120	5600	11.00	10.03		NO		
		124	5620	11.00	9.75		NO		
		128	5640	11.00	9.77		NO		
		132	5660	11.00	10.27		NO		
		136	5680	11.00	10.24		NO		
		140	5700	11.00	10.18		NO		
		144	5720	11.00	10.24		NO		
U-NII-3		149	5745	11.00	9.95		NO		
		157	5785	11.00	10.25		NO		
			165	5825	11.00		10.31	NO	
5GHz		mode	Channel	Frequency(MHz)	Data Rate(Mbps)		Tune up	Average Power (dBm)	SAR Test
802.11ac 40M	U-NII-1	38	5190	MCS0	11.00	9.99	NO		
		46	5230		11.00	9.84	NO		
	U-NII-2A	54	5270		11.00	9.94	NO		
		62	5310		11.00	10.02	NO		
	U-NII-2C	102	5510		11.00	9.90	NO		
		110	5550		11.00	10.03	NO		
		118	5590		11.00	9.78	NO		
		126	5630		11.00	10.10	NO		
		134	5670		11.00	10.38	NO		
		142	5710		11.00	10.05	NO		
	U-NII-3	151	5755		11.00	9.81	NO		
		159	5795		11.00	10.00	NO		



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-Documents.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@sgs.com



5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 80M	U-NII-1	42	5210	MCS0	11.00	10.36	NO
	U-NII-2A	58	5290		11.00	9.92	NO
	U-NII-2C	106	5530		11.00	10.07	NO
		122	5610		11.00	10.01	NO
		138	5690		11.00	10.04	NO
	U-NII-3	155	5775		11.00	9.87	NO



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-Documents.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@sgs.com



Antenna 1 Reduced Power- RSDB with Grip Active

Wi-Fi 5G Sensor off							
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11a	U-NII-1	36	5180	6	8.00	6.81	NO
		40	5200		8.00	6.94	NO
		44	5220		8.00	6.93	NO
		48	5240		8.00	7.11	NO
	U-NII-2A	52	5260		8.00	7.17	NO
		56	5280		8.00	7.24	NO
		60	5300		8.00	7.05	NO
		64	5320		8.00	6.85	NO
	U-NII-2C	100	5500		8.00	6.93	NO
		104	5520		8.00	7.01	NO
		108	5540		8.00	7.04	NO
		112	5560		8.00	7.06	NO
		116	5580		8.00	6.92	NO
		120	5600		8.00	6.90	NO
		124	5620		8.00	6.80	NO
		128	5640		8.00	6.82	NO
		132	5660		8.00	6.84	NO
		136	5680		8.00	6.89	NO
	U-NII-3	140	5700		8.00	7.24	NO
		144	5720		8.00	6.96	NO
		149	5745		8.00	7.11	NO
		157	5785	8.00	6.83	NO	
		165	5825	8.00	6.97	NO	
				8.00			
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11n-HT20	U-NII-1	36	5180	MCS0	7.00	6.11	NO
		40	5200		7.00	5.94	NO
		44	5220		7.00	6.13	NO
		48	5240		7.00	5.85	NO
	U-NII-2A	52	5260		7.00	5.96	NO
		56	5280		7.00	5.93	NO
		60	5300		7.00	5.80	NO
		64	5320		7.00	5.96	NO
	U-NII-2C	100	5500		7.00	6.16	NO
		104	5520		7.00	5.83	NO
		108	5540		7.00	6.23	NO
		112	5560		7.00	6.13	NO
		116	5580		7.00	6.05	NO
		120	5600		7.00	6.11	NO
		124	5620		7.00	6.04	NO
		128	5640		7.00	5.97	NO
		132	5660		7.00	6.13	NO
		136	5680		7.00	6.00	NO
	U-NII-3	140	5700		7.00	5.96	NO
		144	5720		7.00	6.15	NO
		149	5745		7.00	5.86	NO
		157	5785	7.00	6.16	NO	
		165	5825	7.00	5.89	NO	
				7.00			



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-Documents.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@sgs.com



**SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch**

Report No.: ZR/2020/7001501
Page : 90 of 147

5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test		
802.11n- HT40	U-NII-1	38	5190	MCS0	7.00	6.23	NO		
		46	5230		7.00	6.02	NO		
	U-NII-2A	54	5270		7.00	5.91	NO		
		62	5310		7.00	5.84	NO		
	U-NII-2C	102	5510		7.00	6.18	NO		
		110	5550		7.00	6.03	NO		
		118	5590		7.00	5.78	NO		
		126	5630		7.00	5.96	NO		
		134	5670		7.00	6.11	NO		
		142	5710		7.00	6.13	NO		
	U-NII-3	151	5755		7.00	5.92	NO		
		159	5795		7.00	6.22	NO		
	5GHz	mode	Channel		Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
	802.11ac 20M	U-NII-1	36		5180	MCS0	7.00	6.01	NO
40			5200	7.00	6.03		NO		
44			5220	7.00	6.13		NO		
48			5240	7.00	5.87		NO		
U-NII-2A		52	5260	7.00	5.87		NO		
		56	5280	7.00	5.92		NO		
		60	5300	7.00	6.18		NO		
		64	5320	7.00	6.07		NO		
		U-NII-2C	100	5500	7.00		6.07	NO	
			104	5520	7.00		6.17	NO	
108			5540	7.00	6.24		NO		
112			5560	7.00	6.19		NO		
116			5580	7.00	6.14		NO		
120			5600	7.00	6.07		NO		
124			5620	7.00	6.01		NO		
128			5640	7.00	5.97		NO		
132			5660	7.00	6.00		NO		
136			5680	7.00	6.01		NO		
U-NII-3		140	5700	7.00	5.99		NO		
		144	5720	7.00	6.12		NO		
		149	5745	7.00	5.84		NO		
		157	5785	7.00	6.18		NO		
			165	5825	7.00		6.19	NO	
5GHz		mode	Channel	Frequency(MHz)	Data Rate(Mbps)		Tune up	Average Power (dBm)	SAR Test
802.11ac 40M	U-NII-1	38	5190	MCS0	7.00	6.15	NO		
		46	5230		7.00	6.05	NO		
	U-NII-2A	54	5270		7.00	5.83	NO		
		62	5310		7.00	5.79	NO		
	U-NII-2C	102	5510		7.00	6.21	NO		
		110	5550		7.00	6.04	NO		
		118	5590		7.00	5.86	NO		
		126	5630		7.00	5.98	NO		
		134	5670		7.00	6.20	NO		
		142	5710		7.00	6.13	NO		
	U-NII-3	151	5755		7.00	5.88	NO		
		159	5795		7.00	6.16	NO		



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-Documents.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@sgs.com



5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 80M	U-NII-1	42	5210	MCS0	7.00	5.87	NO
	U-NII-2A	58	5290		7.00	5.86	NO
	U-NII-2C	106	5530		7.00	5.85	NO
		122	5610		7.00	5.83	NO
		138	5690		7.00	5.95	NO
	U-NII-3	155	5775		7.00	5.92	NO



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-Documents.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@sgs.com

8.1.2 Conducted Power of WIFI Antenna 2

Antenna 2 Maximum Power

Mode	Freq. (MHz)	Channel	Data Rate (Mbps)	Average Power (dB m)	Tune up	SAR Test
802.11b	2412	1	1	19.25	20.00	NO
	2437	6		19.42	20.00	NO
	2462	11		19.45	20.00	YES
	2467	12		5.15	6.00	NO
	2472	13		4.33	5.00	NO
802.11g	2412	1	6	18.21	19.00	NO
	2437	6		18.50	19.00	NO
	2462	11		18.57	19.00	NO
	2467	12		5.12	6.00	NO
	2472	13		4.03	5.00	NO
802.11n	2412	1	6.5	17.26	18.00	NO
	2437	6		17.61	18.00	NO
	2462	11		17.77	18.00	NO
	2467	12		4.75	6.00	NO
	2472	13		4.13	5.00	NO
802.11ac	2412	1	MCS0	17.22	18.00	NO
	2437	6		17.65	18.00	NO
	2462	11		17.8	18.00	NO
	2467	12		4.82	6.00	NO
	2472	13		4.16	5.00	NO



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-Documents.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@sgs.com



Antenna 2 Reduced Power- Grip Active

Mode	Freq. (MHz)	Channel	Data Rate (Mbps)	Average Power (dB m)	Tune up	SAR Test
802.11b	2412	1	1	10.02	11.00	NO
	2437	6		10.07	11.00	NO
	2462	11		10.21	11.00	YES
802.11g	2412	1	6	10.01	11.00	NO
	2437	6		10.14	11.00	NO
	2462	11		10.37	11.00	NO
802.11n	2412	1	6.5	9.82	11.00	NO
	2437	6		9.83	11.00	NO
	2462	11		9.98	11.00	NO
802.11ac	2412	1	MCS0	9.74	11.00	NO
	2437	6		9.81	11.00	NO
	2462	11		9.87	11.00	NO

Note:

Ch12/13 in airplane mode only operate, no power reduction.



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-Documents.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@sgs.com



Antenna 2 Reduced Power- RSDB

Mode	Freq. (MHz)	Channel	Data Rate (Mbps)	Average Power (dB m)	Tune up	SAR Test
802.11b	2412	1	1	11.87	13.00	NO
	2437	6		11.96	13.00	NO
	2462	11		12.17	13.00	NO
802.11g	2412	1	6	12.24	13.00	NO
	2437	6		12.26	13.00	NO
	2462	11		12.04	13.00	NO
802.11n	2412	1	6.5	12.04	13.00	NO
	2437	6		12.02	13.00	NO
	2462	11		12.15	13.00	NO
802.11ac	2412	1	MCS0	11.98	13.00	NO
	2437	6		11.97	13.00	NO
	2462	11		12.11	13.00	NO

Note:

Ch12/13 in airplane mode only operate, no power reduction.



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-Documents.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@sgs.com



Antenna 2 Reduced Power- RSDb with Grip Active

Mode	Freq. (MHz)	Channel	Data Rate (Mbps)	Average Power (dB m)	Tune up	SAR Test
802.11b	2412	1	1	8.93	10.00	NO
	2437	6		9.11	10.00	NO
	2462	11		9.22	10.00	NO
802.11g	2412	1	6	9.23	10.00	NO
	2437	6		8.95	10.00	NO
	2462	11		9.07	10.00	NO
802.11n	2412	1	6.5	8.99	10.00	NO
	2437	6		9.07	10.00	NO
	2462	11		8.80	10.00	NO
802.11ac	2412	1	MCS0	8.98	10.00	NO
	2437	6		9.10	10.00	NO
	2462	11		8.79	10.00	NO

Note:

Ch12/13 in airplane mode only operate, no power reduction.



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-Documents.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@sgs.com



Antenna 2 Maximum Power

5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11a	U-NII-1	36	5180	6	18.00	17.18	NO
		40	5200		18.00	17.35	NO
		44	5220		18.00	17.06	NO
		48	5240		18.00	17.23	NO
	U-NII-2A	52	5260		18.00	17.16	NO
		56	5280		18.00	16.90	NO
		60	5300		18.00	17.23	Yes
		64	5320		18.00	17.15	NO
	U-NII-2C	100	5500		18.00	16.76	NO
		104	5520		18.00	17.27	NO
		108	5540		18.00	17.36	Yes
		112	5560		18.00	17.04	NO
		116	5580		18.00	16.93	NO
		120	5600		18.00	16.83	NO
		124	5620		18.00	16.76	NO
		128	5640		18.00	16.77	NO
		132	5660		18.00	17.15	NO
		136	5680		18.00	16.94	YES
	U-NII-3	140	5700		18.00	16.77	NO
		144	5720		18.00	17.08	NO
149		5745	18.00	17.06	NO		
157		5785	18.00	17.15	Yes		
		165	5825	18.00	17.09	NO	
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11n-HT20	U-NII-1	36	5180	MCS0	17.00	15.86	NO
		40	5200		17.00	16.04	NO
		44	5220		17.00	15.74	NO
		48	5240		17.00	15.89	NO
	U-NII-2A	52	5260		17.00	15.86	NO
		56	5280		17.00	16.16	NO
		60	5300		17.00	15.84	NO
		64	5320		17.00	15.96	NO
	U-NII-2C	100	5500		17.00	15.96	NO
		104	5520		17.00	16.09	NO
		108	5540		17.00	16.16	NO
		112	5560		17.00	16.34	NO
		116	5580		17.00	16.25	NO
		120	5600		17.00	16.16	NO
		124	5620		17.00	16.15	NO
		128	5640		17.00	16.01	NO
		132	5660		17.00	15.94	NO
		136	5680		17.00	15.71	NO
	U-NII-3	140	5700		17.00	15.96	NO
		144	5720		17.00	16.09	NO
149		5745	17.00	15.92	NO		
157		5785	17.00	15.87	NO		
		165	5825	17.00	15.82	NO	
5GHz	mode	Channel	Frequency(MHz)	Data	Tune up	Average Power	SAR Test



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-Documents.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@sgs.com



				Rate(Mbps)	(dBm)				
802.11n- HT40	U-NII-1	38	5190	MCS0	17.00	16.28	NO		
		46	5230		17.00	16.04	NO		
	U-NII-2A	54	5270		17.00	16.13	NO		
		62	5310		17.00	16.14	NO		
	U-NII-2C	102	5510		17.00	15.94	NO		
		110	5550		17.00	16.10	NO		
		118	5590		17.00	15.97	NO		
		126	5630		17.00	15.89	NO		
		134	5670		17.00	15.76	NO		
		142	5710		17.00	16.00	NO		
	U-NII-3	151	5755		17.00	16.13	NO		
		159	5795		17.00	16.07	NO		
	5GHz	mode	Channel		Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
	802.11ac 20M	U-NII-1	36		5180	MCS0	17.00	15.88	NO
40			5200	17.00	15.94		NO		
44			5220	17.00	15.72		NO		
48			5240	17.00	15.90		NO		
U-NII-2A		52	5260	17.00	15.86		NO		
		56	5280	17.00	16.04		NO		
		60	5300	17.00	15.89		NO		
		64	5320	17.00	16.02		NO		
U-NII-2C		100	5500	17.00	15.90		NO		
		104	5520	17.00	16.16		NO		
		108	5540	17.00	16.10		NO		
		112	5560	17.00	15.87		NO		
		116	5580	17.00	16.24		NO		
		120	5600	17.00	16.19		NO		
		124	5620	17.00	16.07		NO		
		128	5640	17.00	16.03		NO		
		132	5660	17.00	15.96		NO		
		136	5680	17.00	16.16		NO		
		140	5700	17.00	16.06		NO		
		144	5720	17.00	16.23		NO		
U-NII-3		149	5745	17.00	15.93		NO		
		157	5785	17.00	15.85		NO		
		165	5825	17.00	15.80		NO		
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test		
802.11ac 40M	U-NII-1	38	5190	MCS0	15.00	14.10	NO		
		46	5230		15.00	14.01	NO		
	U-NII-2A	54	5270		15.00	13.89	NO		
		62	5310		15.00	14.03	NO		
	U-NII-2C	102	5510		15.00	13.99	NO		
		110	5550		15.00	14.04	NO		
		118	5590		15.00	13.89	NO		
		126	5630		15.00	13.90	NO		
		134	5670		15.00	13.79	NO		
		142	5710		15.00	13.78	NO		
	U-NII-3	151	5755		15.00	14.12	NO		
		159	5795		15.00	14.15	NO		



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-Documents.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@sgs.com.



5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 80M	U-NII-1	42	5210	MCS0	14.00	13.13	NO
	U-NII-2A	58	5290		14.00	12.92	NO
	U-NII-2C	106	5530		14.00	12.87	NO
		122	5610		14.00	12.90	NO
		138	5690		14.00	13.13	NO
	U-NII-3	155	5775		14.00	13.01	NO



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-Documents.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@sgs.com



Antenna 2 Reduced Power- Grip Active

5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11a	U-NII-1	36	5180	6	9.00	7.95	NO
		40	5200		9.00	8.03	NO
		44	5220		9.00	7.96	NO
		48	5240		9.00	7.89	NO
	U-NII-2A	52	5260		9.00	7.86	NO
		56	5280		9.00	8.22	NO
		60	5300		9.00	7.99	NO
		64	5320		9.00	7.94	NO
	U-NII-2C	100	5500		9.00	8.01	NO
		104	5520		9.00	7.80	NO
		108	5540		9.00	7.68	NO
		112	5560		9.00	7.67	NO
		116	5580		9.00	7.93	NO
		120	5600		9.00	7.79	NO
		124	5620		9.00	7.76	NO
		128	5640		9.00	7.66	NO
		132	5660		9.00	8.07	NO
		136	5680		9.00	7.83	NO
	U-NII-3	140	5700		9.00	8.16	NO
		144	5720		9.00	8.29	NO
149		5745	9.00	7.95	NO		
157		5785	9.00	7.90	NO		
		165	5825	9.00	7.80	NO	
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11n-HT20	U-NII-1	36	5180	MCS0	9.00	8.10	NO
		40	5200		9.00	8.15	NO
		44	5220		9.00	8.08	NO
		48	5240		9.00	8.16	NO
	U-NII-2A	52	5260		9.00	8.01	NO
		56	5280		9.00	7.85	NO
		60	5300		9.00	8.20	NO
		64	5320		9.00	8.12	NO
	U-NII-2C	100	5500		9.00	7.80	NO
		104	5520		9.00	8.28	NO
		108	5540		9.00	8.11	NO
		112	5560		9.00	7.67	NO
		116	5580		9.00	7.61	NO
		120	5600		9.00	7.91	NO
		124	5620		9.00	8.02	NO
		128	5640		9.00	7.80	NO
		132	5660		9.00	7.80	NO
		136	5680		9.00	8.00	NO
	U-NII-3	140	5700		9.00	7.97	NO
		144	5720		9.00	7.96	NO
149		5745	9.00	7.72	NO		
157		5785	9.00	8.01	NO		
		165	5825	9.00	8.21	NO	
5GHz	mode	Channel	Frequency(MHz)	Data	Tune up	Average Power	SAR Test



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-Documents.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@sgs.com



				Rate(Mbps)	(dBm)				
802.11n- HT40	U-NII-1	38	5190	MCS0	9.00	7.99	NO		
		46	5230		9.00	7.90	NO		
	U-NII-2A	54	5270		9.00	7.85	NO		
		62	5310		9.00	7.89	NO		
	U-NII-2C	102	5510		9.00	7.80	NO		
		110	5550		9.00	7.85	NO		
		118	5590		9.00	8.17	NO		
		126	5630		9.00	8.21	NO		
		134	5670		9.00	7.81	NO		
		142	5710		9.00	8.21	NO		
	U-NII-3	151	5755		9.00	8.22	NO		
		159	5795		9.00	8.26	NO		
	5GHz	mode	Channel		Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
	802.11ac 20M	U-NII-1	36		5180	MCS0	9.00	8.14	NO
40			5200	9.00	8.19		NO		
44			5220	9.00	8.06		NO		
48			5240	9.00	8.11		NO		
U-NII-2A		52	5260	9.00	7.99		NO		
		56	5280	9.00	7.87		NO		
		60	5300	9.00	8.11		NO		
		64	5320	9.00	8.10		NO		
U-NII-2C		100	5500	9.00	7.81		NO		
		104	5520	9.00	8.26		NO		
		108	5540	9.00	8.01		NO		
		112	5560	9.00	8.30		NO		
		116	5580	9.00	8.34		NO		
		120	5600	9.00	7.93		NO		
		124	5620	9.00	7.94		NO		
		128	5640	9.00	7.87		NO		
		132	5660	9.00	7.73		NO		
		136	5680	9.00	7.92		NO		
		140	5700	9.00	7.85		NO		
		144	5720	9.00	7.99		NO		
U-NII-3		149	5745	9.00	8.19		NO		
		157	5785	9.00	8.07		NO		
		165	5825	9.00	8.28		NO		
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test		
802.11ac 40M	U-NII-1	38	5190	MCS0	9.00	7.93	NO		
		46	5230		9.00	7.86	NO		
	U-NII-2A	54	5270		9.00	7.84	NO		
		62	5310		9.00	7.87	NO		
	U-NII-2C	102	5510		9.00	7.76	NO		
		110	5550		9.00	7.79	NO		
		118	5590		9.00	8.11	NO		
		126	5630		9.00	8.19	NO		
		134	5670		9.00	8.00	NO		
		142	5710		9.00	8.05	NO		
	U-NII-3	151	5755		9.00	8.19	NO		
		159	5795		9.00	8.27	NO		



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-Documents.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@sgs.com.



5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 80M	U-NII-1	42	5210	MCS0	9.00	8.28	NO
	U-NII-2A	58	5290		9.00	8.12	YES
	U-NII-2C	106	5530		9.00	7.81	NO
		122	5610		9.00	7.94	NO
		138	5690		9.00	7.96	Yes
	U-NII-3	155	5775		9.00	8.22	Yes



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-Documents.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@sgs.com



Antenna 2 Reduced Power- RSDB

5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11a	U-NII-1	36	5180	6	11.00	9.91	NO
		40	5200		11.00	10.01	NO
		44	5220		11.00	9.83	NO
		48	5240		11.00	9.86	NO
	U-NII-2A	52	5260		11.00	9.78	NO
		56	5280		11.00	10.12	NO
		60	5300		11.00	10.13	NO
		64	5320		11.00	9.89	NO
	U-NII-2C	100	5500		11.00	10.03	NO
		104	5520		11.00	9.94	NO
		108	5540		11.00	10.14	NO
		112	5560		11.00	9.98	NO
		116	5580		11.00	9.99	NO
		120	5600		11.00	10.30	NO
		124	5620		11.00	10.08	NO
		128	5640		11.00	10.07	NO
		132	5660		11.00	10.23	NO
		136	5680		11.00	10.35	NO
	U-NII-3	140	5700		11.00	10.09	NO
		144	5720		11.00	9.89	NO
149		5745	11.00	9.94	NO		
		157	5785	11.00	10.26	NO	
		165	5825	11.00	10.03	NO	
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11n-HT20	U-NII-1	36	5180	MCS0	11.00	10.09	NO
		40	5200		11.00	10.30	NO
		44	5220		11.00	10.06	NO
		48	5240		11.00	10.02	NO
	U-NII-2A	52	5260		11.00	9.94	NO
		56	5280		11.00	9.82	NO
		60	5300		11.00	10.18	NO
		64	5320		11.00	9.98	NO
	U-NII-2C	100	5500		11.00	10.23	NO
		104	5520		11.00	10.13	NO
		108	5540		11.00	9.86	NO
		112	5560		11.00	10.15	NO
		116	5580		11.00	10.11	NO
		120	5600		11.00	10.03	NO
		124	5620		11.00	9.80	NO
		128	5640		11.00	9.77	NO
		132	5660		11.00	9.90	NO
		136	5680		11.00	10.02	NO
	U-NII-3	140	5700		11.00	10.27	NO
		144	5720		11.00	10.03	NO
149		5745	11.00	10.03	NO		
		157	5785	11.00	10.06	NO	
		165	5825	11.00	10.12	NO	
5GHz	mode	Channel	Frequency(MHz)	Data	Tune up	Average Power	SAR Test



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-Documents.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@sgs.com



				Rate(Mbps)	(dBm)				
802.11n- HT40	U-NII-1	38	5190	MCS0	11.00	10.25	NO		
		46	5230		11.00	10.10	NO		
	U-NII-2A	54	5270		11.00	10.26	NO		
		62	5310		11.00	10.12	NO		
	U-NII-2C	102	5510		11.00	9.87	NO		
		110	5550		11.00	10.32	NO		
		118	5590		11.00	10.11	NO		
		126	5630		11.00	10.28	NO		
		134	5670		11.00	9.91	NO		
		142	5710		11.00	10.16	NO		
	U-NII-3	151	5755		11.00	10.02	NO		
		159	5795		11.00	10.21	NO		
	5GHz	mode	Channel		Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
	802.11ac 20M	U-NII-1	36		5180	MCS0	11.00	10.10	NO
40			5200	11.00	10.13		NO		
44			5220	11.00	9.95		NO		
48			5240	11.00	9.98		NO		
U-NII-2A		52	5260	11.00	9.97		NO		
		56	5280	11.00	9.82		NO		
		60	5300	11.00	10.16		NO		
		64	5320	11.00	9.93		NO		
U-NII-2C		100	5500	11.00	10.21		NO		
		104	5520	11.00	10.18		NO		
		108	5540	11.00	9.88		NO		
		112	5560	11.00	10.17		NO		
		116	5580	11.00	10.10		NO		
		120	5600	11.00	10.03		NO		
		124	5620	11.00	9.79		NO		
		128	5640	11.00	10.21		NO		
		132	5660	11.00	10.29		NO		
		136	5680	11.00	10.02		NO		
U-NII-3		140	5700	11.00	10.24		NO		
		144	5720	11.00	10.08		NO		
		149	5745	11.00	10.04		NO		
		157	5785	11.00	9.94		NO		
			165	5825	11.00		10.12	NO	
5GHz		mode	Channel	Frequency(MHz)	Data Rate(Mbps)		Tune up	Average Power (dBm)	SAR Test
802.11ac 40M		U-NII-1	38	5190	MCS0		11.00	10.27	NO
			46	5230			11.00	10.02	NO
		U-NII-2A	54	5270			11.00	10.27	NO
			62	5310			11.00	10.25	NO
	U-NII-2C	102	5510	11.00		9.85	NO		
		110	5550	11.00		9.87	NO		
		118	5590	11.00		10.07	NO		
		126	5630	11.00		10.28	NO		
		134	5670	11.00		9.90	NO		
		142	5710	11.00		10.17	NO		
	U-NII-3	151	5755	11.00		10.11	NO		
		159	5795	11.00		10.15	NO		



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-Documents.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@sgs.com



5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 80M	U-NII-1	42	5210	MCS0	11.00	9.86	NO
	U-NII-2A	58	5290		11.00	9.94	NO
	U-NII-2C	106	5530		11.00	10.19	NO
		122	5610		11.00	10.15	NO
		138	5690		11.00	10.21	NO
	U-NII-3	155	5775		11.00	10.11	NO



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-Documents.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@sgs.com



Antenna 2 Reduced Power- RSDB with Grip Active

5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11a	U-NII-1	36	5180	6	8.00	6.83	NO
		40	5200		8.00	6.84	NO
		44	5220		8.00	6.87	NO
		48	5240		8.00	7.22	NO
	U-NII-2A	52	5260		8.00	7.20	NO
		56	5280		8.00	6.93	NO
		60	5300		8.00	7.26	NO
		64	5320		8.00	7.26	NO
	U-NII-2C	100	5500		8.00	6.99	NO
		104	5520		8.00	7.06	NO
		108	5540		8.00	6.97	NO
		112	5560		8.00	7.28	NO
		116	5580		8.00	7.22	NO
		120	5600		8.00	7.01	NO
		124	5620		8.00	7.09	NO
		128	5640		8.00	7.07	NO
		132	5660		8.00	7.28	NO
		136	5680		8.00	7.22	NO
	U-NII-3	140	5700		8.00	7.20	NO
		144	5720		8.00	7.25	NO
149		5745	8.00	6.23	NO		
		157	5785	8.00	6.19	NO	
		165	5825	8.00	6.22	NO	
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11n-HT20	U-NII-1	36	5180	MCS0	7.00	5.96	NO
		40	5200		7.00	6.07	NO
		44	5220		7.00	5.98	NO
		48	5240		7.00	5.91	NO
	U-NII-2A	52	5260		7.00	5.80	NO
		56	5280		7.00	6.14	NO
		60	5300		7.00	5.94	NO
		64	5320		7.00	5.95	NO
	U-NII-2C	100	5500		7.00	6.06	NO
		104	5520		7.00	5.96	NO
		108	5540		7.00	6.23	NO
		112	5560		7.00	6.14	NO
		116	5580		7.00	5.98	NO
		120	5600		7.00	5.83	NO
		124	5620		7.00	6.24	NO
		128	5640		7.00	6.29	NO
		132	5660		7.00	5.82	NO
		136	5680		7.00	5.89	NO
	U-NII-3	140	5700		7.00	5.91	NO
		144	5720		7.00	5.99	NO
149		5745	7.00	5.96	NO		
		157	5785	7.00	6.00	NO	
		165	5825	7.00	5.99	NO	
5GHz	mode	Channel	Frequency(MHz)	Data	Tune up	Average Power	SAR Test



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-Documents.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@sgs.com



				Rate(Mbps)	(dBm)				
802.11n- HT40	U-NII-1	38	5190	MCS0	7.00	5.95	NO		
		46	5230		7.00	5.80	NO		
	U-NII-2A	54	5270		7.00	6.07	NO		
		62	5310		7.00	6.19	NO		
	U-NII-2C	102	5510		7.00	6.27	NO		
		110	5550		7.00	6.20	NO		
		118	5590		7.00	5.99	NO		
		126	5630		7.00	6.26	NO		
		134	5670		7.00	6.06	NO		
		142	5710		7.00	6.18	NO		
	U-NII-3	151	5755		7.00	5.99	NO		
		159	5795		7.00	6.11	NO		
	5GHz	mode	Channel		Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
	802.11ac 20M	U-NII-1	36		5180	MCS0	7.00	5.99	NO
40			5200	7.00	6.05		NO		
44			5220	7.00	6.01		NO		
48			5240	7.00	5.91		NO		
U-NII-2A		52	5260	7.00	6.25		NO		
		56	5280	7.00	6.09		NO		
		60	5300	7.00	5.96		NO		
		64	5320	7.00	5.90		NO		
U-NII-2C		100	5500	7.00	6.12		NO		
		104	5520	7.00	6.31		NO		
		108	5540	7.00	6.13		NO		
		112	5560	7.00	6.07		NO		
		116	5580	7.00	5.95		NO		
		120	5600	7.00	5.82		NO		
		124	5620	7.00	6.20		NO		
		128	5640	7.00	6.10		NO		
		132	5660	7.00	5.88		NO		
		136	5680	7.00	5.91		NO		
		140	5700	7.00	5.98		NO		
		144	5720	7.00	6.02		NO		
U-NII-3		149	5745	7.00	5.98		NO		
		157	5785	7.00	6.10		NO		
		165	5825	7.00	5.97		NO		
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test		
802.11ac 40M	U-NII-1	38	5190	MCS0	7.00	6.07	NO		
		46	5230		7.00	6.22	NO		
	U-NII-2A	54	5270		7.00	6.00	NO		
		62	5310		7.00	6.23	NO		
	U-NII-2C	102	5510		7.00	6.16	NO		
		110	5550		7.00	6.14	NO		
		118	5590		7.00	6.08	NO		
		126	5630		7.00	5.86	NO		
		134	5670		7.00	5.91	NO		
		142	5710		7.00	6.17	NO		
	U-NII-3	151	5755		7.00	5.98	NO		
		159	5795		7.00	6.17	NO		



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-Documents.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@sgs.com.



5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 80M	U-NII-1	42	5210	MCS0	7.00	6.01	NO
	U-NII-2A	58	5290		7.00	5.93	NO
	U-NII-2C	106	5530		7.00	6.08	NO
		122	5610		7.00	6.16	NO
		138	5690		7.00	6.23	NO
	U-NII-3	155	5775		7.00	5.98	NO



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-Documents.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@sgs.com



8.1.3 Conducted Power of Bluetooth Antenna 1

Antenna 1 Maximum Power

Frequency	Channel	Mode	Result Average Power	Tune Up		
(MHz)			(dB m)	(dB m)		
2402	CH00	DH1	14.72	16.50		
		DH3	14.59			
		DH5	14.53			
		2441	CH39	2DH1	13.86	15.50
				2DH3	13.68	
				2DH5	13.62	
				3DH1	13.66	15.50
				3DH3	13.59	
				3DH5	13.50	
2480	CH78	DH1	14.80	16.50		
		DH3	14.59			
		DH5	14.54			
		2441	CH39	2DH1	13.95	15.50
				2DH3	13.71	
				2DH5	13.61	
				3DH1	14.04	15.50
				3DH3	13.73	
				3DH5	13.56	
2480	CH78	DH1	15.32	16.50		
		DH3	15.28			
		DH5	15.08			
		2441	CH39	2DH1	14.61	15.50
				2DH3	14.36	
				2DH5	14.24	
				3DH1	14.60	15.50
				3DH3	14.47	
				3DH5	14.23	



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-Documents.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@sgs.com

Antenna 1 Reduced Power- Grip Active

Frequency	Channel	Mode	Result Average Power	Tune Up		
(MHz)			(dB m)	(dB m)		
2402	CH00	DH1	6.61	8.50		
		DH3	6.65			
		DH5	6.63			
		2441	CH39	2DH1	6.82	8.50
				2DH3	6.70	
				2DH5	6.67	
				3DH1	6.87	8.50
				3DH3	6.66	
3DH5	6.69					
2480	CH78	DH1	6.67	8.50		
		DH3	6.61			
		DH5	6.59			
		2441	CH39	2DH1	6.79	8.50
				2DH3	6.77	
				2DH5	6.60	
				3DH1	6.86	8.50
				3DH3	6.87	
3DH5	6.72					
2480	CH78	DH1	7.34	8.50		
		DH3	7.11			
		DH5	7.04			
		2441	CH39	2DH1	7.40	8.50
				2DH3	7.24	
				2DH5	7.16	
				3DH1	7.37	8.50
				3DH3	7.25	
3DH5	7.19					



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-Documents.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@sgs.com

Antenna 1 BLE Power

Mode		Frequency (MHz)	Channel	Packet length (Byte)	Result Average Power (dB m)	Tune up	SAR Test
PHY 1M	Uncoded	2 402	CH00	37	4.39	6.00	NO
		2 440	CH19		4.74	6.00	NO
		2 480	CH39		5.41	6.00	NO
		2 402	CH00	255	4.46	6.00	NO
		2 440	CH19		5.07	6.00	NO
		2 480	CH39		5.54	6.00	NO
	125k Coded	2 402	CH00	37	4.40	6.00	NO
		2 440	CH19		5.00	6.00	NO
		2 480	CH39		5.59	6.00	NO
		2 402	CH00	255	4.41	6.00	NO
		2 440	CH19		4.99	6.00	NO
		2 480	CH39		5.58	6.00	NO
	500k Coded	2 402	CH00	37	4.30	6.00	NO
		2 440	CH19		4.92	6.00	NO
		2 480	CH39		5.59	6.00	NO
		2 402	CH00	255	4.38	6.00	NO
		2 440	CH19		4.92	6.00	NO
		2 480	CH39		5.52	6.00	NO
PHY 2M	2 402	CH00	37	4.00	6.00	NO	
	2 440	CH19		4.55	6.00	NO	
	2 480	CH39		5.29	6.00	NO	
	2 402	CH00	255	4.35	6.00	NO	
	2 440	CH19		4.87	6.00	NO	
	2 480	CH39		5.47	6.00	NO	



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-Documents.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@sgs.com

8.1.4 Conducted Power of Bluetooth Antenna 2

Antenna 2 Maximum Power

Frequency	Channel	Mode	Result Average Power	Tune Up		
(MHz)			(dB m)	(dB m)		
2402	CH00	DH1	13.22	14.50		
		DH3	13.34			
		DH5	13.15			
		2441	CH39	2DH1	12.67	13.50
				2DH3	12.58	
				2DH5	12.56	
				3DH1	12.57	13.50
				3DH3	12.53	
				3DH5	12.52	
2480	CH78	DH1	14.77	16.50		
		DH3	14.72			
		DH5	14.66			
		2441	CH39	2DH1	14.04	15.50
				2DH3	13.71	
				2DH5	13.66	
				3DH1	13.93	15.50
				3DH3	13.82	
				3DH5	13.63	
2480	CH78	DH1	15.19	16.50		
		DH3	15.01			
		DH5	14.95			
		2441	CH39	2DH1	14.33	15.50
				2DH3	14.18	
				2DH5	14.09	
				3DH1	14.51	15.50
				3DH3	14.23	
				3DH5	14.05	



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-Documents.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@sgs.com

Antenna 2 Reduced Power- Grip Active

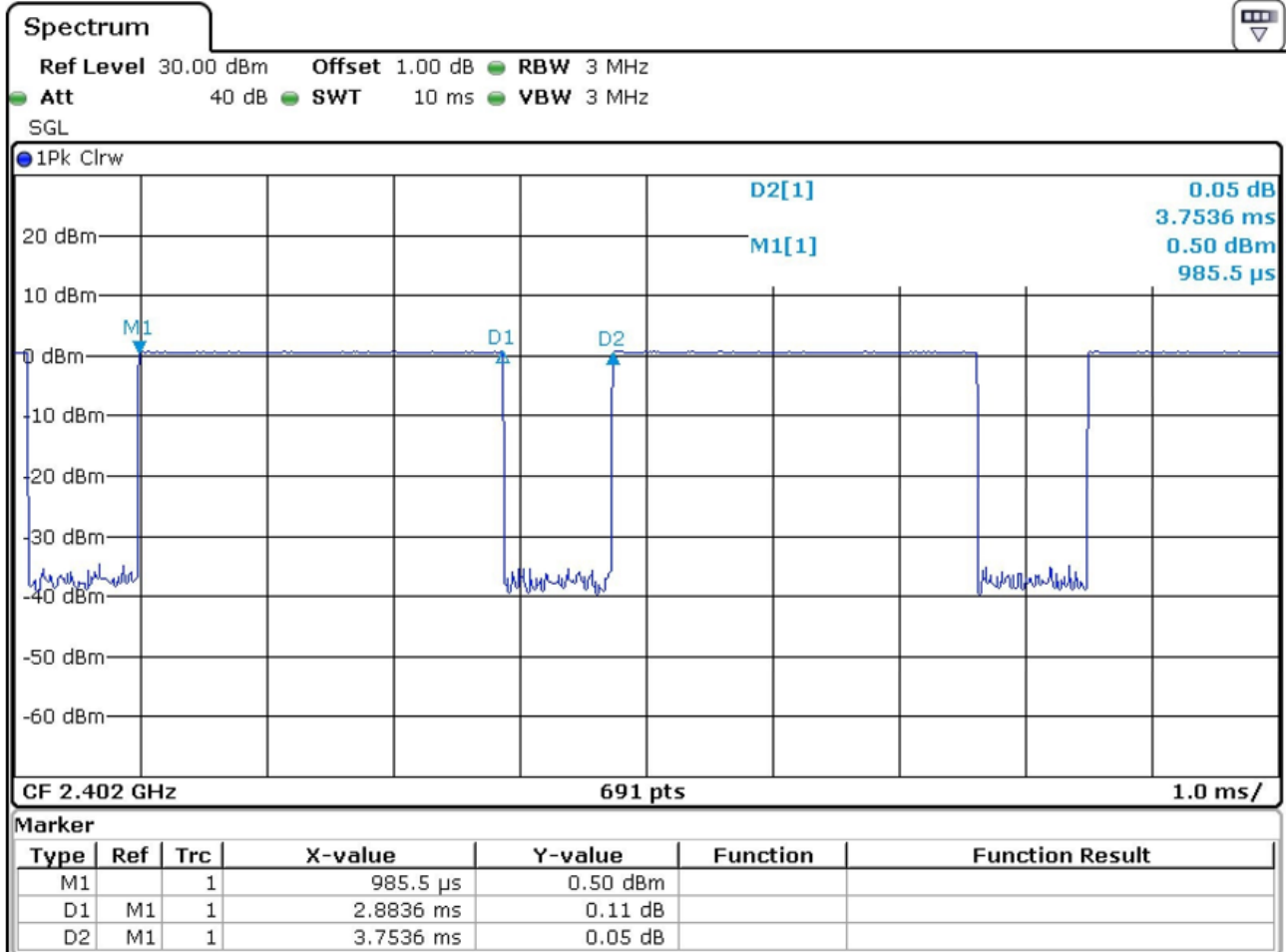
Frequency	Channel	Mode	Result Average Power	Tune Up		
(MHz)			(dB m)	(dB m)		
2402	CH00	DH1	5.49	6.50		
		DH3	5.28			
		DH5	5.23			
		2441	CH39	2DH1	5.59	6.50
				2DH3	5.40	
				2DH5	5.42	
				3DH1	5.85	6.50
				3DH3	5.47	
				3DH5	5.24	
2480	CH78	DH1	6.81	8.50		
		DH3	6.65			
		DH5	6.61			
		2441	CH39	2DH1	6.77	8.50
				2DH3	6.89	
				2DH5	6.83	
				3DH1	7.00	8.50
				3DH3	6.92	
				3DH5	6.72	
2480	CH78	DH1	6.98	8.50		
		DH3	6.85			
		DH5	6.73			
		2441	CH39	2DH1	7.20	8.50
				2DH3	6.99	
				2DH5	6.93	
				3DH1	7.36	8.50
				3DH3	7.05	
				3DH5	6.95	



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-Documents.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@sgs.com

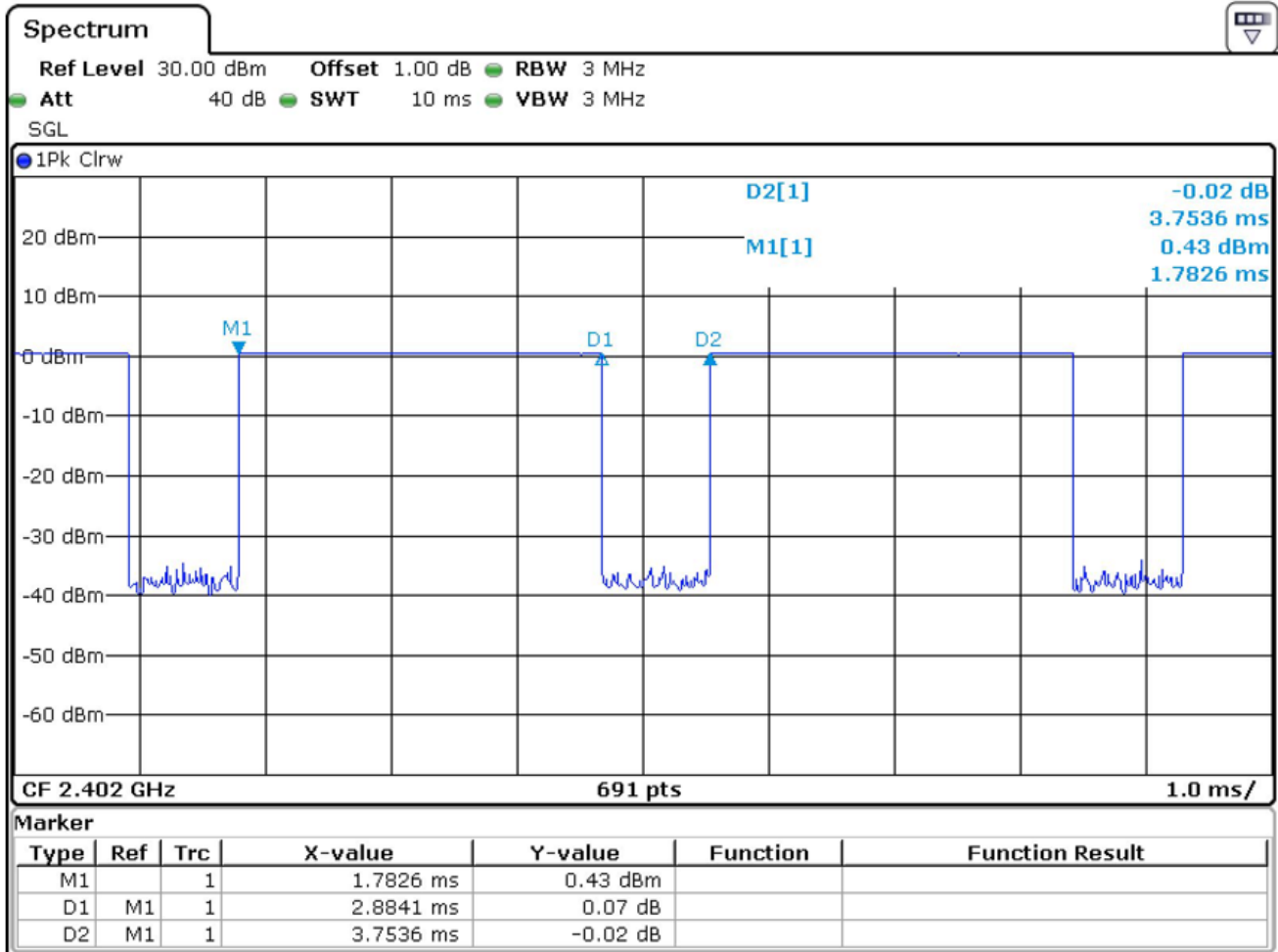
Bluetooth Duty Cycle:

Antenna 1 Duty cycle=2.8836/3.75=76.82%



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-Documents.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@sgs.com

Antenna 2 Duty cycle=2.8841/3.7536=76.84%



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-Documents.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@sgs.com

8.1.5 Conducted Power of WiFi MIMO

Maximum Power

Mode	Freq. (MHz)	Channel	Data Rate(Mbps)	Average Power Ant1 (dB m)	Average Power Ant2 (dB m)	Result (dB m)	Tune up	SAR Test
802.11b	2412	1	1	18.80	19.04	21.93	23.00	NO
	2437	6		19.31	19.10	22.22	23.00	YES
	2462	11		18.83	19.37	22.12	23.00	NO
	2467	12		1.94	2.92	5.47	6.00	NO
	2472	13		-7.87	-7.08	-4.45	-3.00	NO
802.11g	2412	1	6	18.19	18.24	21.23	22.00	NO
	2437	6		18.30	18.45	21.39	22.00	NO
	2462	11		18.06	18.58	21.34	22.00	NO
	2467	12		1.65	2.42	5.06	6.00	NO
	2472	13		1.60	2.14	4.89	5.00	NO
802.11n	2412	1	6.5	17.01	17.27	20.15	21.00	NO
	2437	6		17.12	17.60	20.38	21.00	NO
	2462	11		17.05	17.80	20.45	21.00	NO
	2467	12		1.26	2.14	4.73	6.00	NO
	2472	13		1.01	1.21	4.12	5.00	NO
802.11ac	2412	1	MCS0	17.04	17.23	20.15	21.00	NO
	2437	6		17.20	17.63	20.43	21.00	NO
	2462	11		17.03	17.79	20.44	21.00	NO
	2467	12		1.60	2.23	4.94	6.00	NO
	2472	13		0.90	1.29	4.11	5.00	NO



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-Documents.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@sgs.com

Reduced Power- Grip Active

Mode	Freq. (MHz)	Channel	Data Rate(Mbps)	Average Power Ant1 (dB m)	Average Power Ant2 (dB m)	Result (dB m)	Tune up	SAR Test
802.11b	2412	1	1	10.03	10.15	13.10	14.00	NO
	2437	6		10.24	10.08	13.17	14.00	YES
	2462	11		9.88	10.23	13.07	14.00	NO
802.11g	2412	1	6	9.66	10.16	12.93	14.00	NO
	2437	6		9.84	10.14	13.00	14.00	NO
	2462	11		9.50	10.38	12.97	14.00	NO
802.11n	2412	1	6.5	9.84	10.29	13.08	14.00	NO
	2437	6		10.00	10.32	13.17	14.00	NO
	2462	11		9.75	10.48	13.14	14.00	NO
802.11ac	2412	1	MCS0	9.85	10.28	13.08	14.00	NO
	2437	6		9.90	10.33	13.13	14.00	NO
	2462	11		9.69	10.45	13.10	14.00	NO

Note:

Ch12/13 in airplane mode only operate, no power reduction.



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-Documents.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@sgs.com

Reduced Power- RSDB

Mode	Freq. (MHz)	Channel	Data Rate(Mbps)	Average Power Ant1 (dB m)	Average Power Ant2 (dB m)	Result (dB m)	Tune up	SAR Test
802.11b	2412	1	1	11.79	12.43	15.13	16.00	NO
	2437	6		11.59	12.17	14.90	16.00	NO
	2462	11		11.78	12.79	15.32	16.00	NO
802.11g	2412	1	6	11.40	12.28	14.87	16.00	NO
	2437	6		11.69	12.31	15.02	16.00	NO
	2462	11		11.35	12.56	15.01	16.00	NO
802.11n	2412	1	6.5	11.52	12.61	15.11	16.00	NO
	2437	6		11.76	12.54	15.18	16.00	NO
	2462	11		11.53	12.69	15.16	16.00	NO
802.11ac	2412	1	MCS0	11.56	12.52	15.08	16.00	NO
	2437	6		11.79	12.47	15.15	16.00	NO
	2462	11		11.54	12.62	15.12	16.00	NO

Note:

Ch12/13 in airplane mode only operate, no power reduction.



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-Documents.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@sgs.com

Reduced Power- RSDB with Grip Active

Mode	Freq. (MHz)	Channel	Data Rate(Mbps)	Average Power Ant1 (dB m)	Average Power Ant2 (dB m)	Result (dB m)	Tune up	SAR Test
802.11b	2412	1	1	8.83	9.58	12.23	13.00	NO
	2437	6		8.56	9.18	11.89	13.00	NO
	2462	11		8.77	9.3	12.05	13.00	NO
802.11g	2412	1	6	8.38	9.24	11.84	13.00	NO
	2437	6		8.67	9.49	12.11	13.00	NO
	2462	11		8.45	9.56	12.05	13.00	NO
802.11n	2412	1	6.5	8.61	9.47	12.07	13.00	NO
	2437	6		8.82	9.60	12.24	13.00	NO
	2462	11		8.15	9.34	11.80	13.00	NO
802.11ac	2412	1	MCS0	8.60	9.48	12.07	13.00	NO
	2437	6		8.95	9.58	12.29	13.00	NO
	2462	11		8.13	9.30	11.76	13.00	NO

Note:

Ch12/13 in airplane mode only operate, no power reduction.



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-Documents.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@sgs.com



Maximum Power

Band	Mode	Freq. (MHz)	Channel	Data Rate(Mbps)	Ant 1 (dB m)	Ant 2 (dB m)	Result (dB m)	Tune up	SAR Test
U-NII-1 U-NII-2A	802.11a	5180	36	6	16.58	17.51	20.08	21.00	NO
		5200	40		16.70	17.70	20.24	21.00	NO
		5220	44		16.72	17.48	20.13	21.00	NO
		5240	48		16.75	17.64	20.23	21.00	NO
		5260	52		16.85	17.51	20.20	21.00	NO
		5280	56		16.78	17.30	20.06	21.00	NO
		5300	60		16.92	17.63	20.30	21.00	YES
		5320	64		16.71	17.62	20.20	21.00	NO
	802.11n HT20	5180	36	MCS0	15.45	16.33	18.92	19.5	NO
		5200	40		15.50	16.49	19.03	20.00	NO
		5220	44		15.47	16.28	18.90	20.00	NO
		5240	48		15.51	16.37	18.97	20.00	NO
		5260	52		15.61	16.26	18.96	20.00	NO
		5280	56		15.52	16.10	18.83	20.00	NO
		5300	60		15.63	16.42	19.05	20.00	NO
		5320	64		15.40	16.31	18.89	20.00	NO
	802.11n HT40	5190	38	MCS0	11.97	12.93	15.49	16.50	NO
		5230	46		15.49	16.23	18.89	20.00	NO
		5270	54		16.00	16.48	19.26	20.00	NO
		5310	62		12.29	12.45	15.38	16.50	NO
	802.11ac VHT20	5180	36	MCS0	15.33	16.42	18.92	20.00	NO
		5200	40		15.40	16.55	19.02	20.00	NO
		5220	44		15.42	16.28	18.88	20.00	NO
		5240	48		15.41	16.43	18.96	20.00	NO
		5260	52		15.52	16.38	18.98	20.00	NO
		5280	56		15.42	16.14	18.81	20.00	NO
		5300	60		15.56	16.51	19.07	20.00	NO
		5320	64		15.35	16.37	18.90	20.00	NO
	802.11ac VHT40	5190	38	MCS0	10.87	11.15	14.02	15.00	NO
		5230	46		13.86	14.46	17.18	18.00	NO
		5270	54		14.00	14.40	17.21	18.00	NO
		5310	62		11.12	11.41	14.28	15.00	NO
	802.11ac VHT80	5210	42	MCS0	12.52	13.23	15.90	16.50	NO
		5290	58		12.72	13.47	16.12	16.50	NO



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-Documents.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@sgs.com

U-NII-2C	802.11a	5500	100	6	16.76	17.27	20.03	21.00	NO		
		5520	104		16.64	17.86	20.30	21.00	NO		
		5540	108		16.82	17.83	20.36	21.00	YES		
		5560	112		16.20	17.61	19.97	21.00	NO		
		5580	116		16.11	17.50	19.87	21.00	NO		
		5600	120		16.14	17.38	19.81	21.00	NO		
		5620	124		16.45	17.31	19.91	21.00	NO		
		5640	128		16.33	17.35	19.88	21.00	NO		
		5660	132		16.43	17.20	19.84	21.00	NO		
		5680	136		16.53	16.99	19.78	21.00	NO		
		5700	140		16.43	17.14	19.81	21.00	NO		
		5720	144		16.68	17.38	20.05	21.00	NO		
		802.11n HT20	5500		100	MCS0	15.42	15.95	18.70	20.00	NO
			5520		104		15.41	16.50	19.00	20.00	NO
	5540		108	15.53	16.53		19.07	20.00	NO		
	5560		112	15.43	16.75		19.15	20.00	NO		
	5580		116	15.44	16.63		19.09	20.00	NO		
	5600		120	15.27	16.61		19.00	20.00	NO		
	5620		124	15.57	16.56		19.10	20.00	NO		
	5640		128	15.47	16.49		19.02	20.00	NO		
	5660		132	15.52	16.38		18.98	20.00	NO		
	5680		136	15.63	16.24		18.96	20.00	NO		
	5700		140	15.64	16.59		19.15	20.00	NO		
	5720		144	15.80	16.70		19.28	20.00	NO		
	802.11n HT40		5510	102	MCS0		15.71	16.74	19.27	20.00	NO
			5550	110			15.48	16.50	19.03	20.00	NO
		5590	118	15.30		16.65	19.04	20.00	NO		
		5630	126	15.95		16.66	19.33	20.00	NO		
		5670	134	15.98		16.60	19.31	20.00	NO		
		5710	142	15.86		16.38	19.14	20.00	NO		
	802.11ac VHT20	5500	100	MCS0	15.48	15.98	18.75	20.00	NO		
		5520	104		15.53	16.57	19.09	20.00	NO		
		5540	108		15.55	16.55	19.09	20.00	NO		
		5560	112		15.52	16.78	19.21	20.00	NO		
		5580	116		15.42	16.69	19.11	20.00	NO		
		5600	120		15.42	16.57	19.04	20.00	NO		
		5620	124		15.75	16.49	19.15	20.00	NO		
		5640	128		15.58	16.51	19.08	20.00	NO		
		5660	132		15.66	16.46	19.09	20.00	NO		



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-Documents.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@sgs.com



		5680	136		15.77	16.23	19.02	20.00	NO
		5700	140		15.74	16.48	19.14	20.00	NO
		5720	144		15.93	16.75	19.37	20.00	NO
U-NII-2C	802.11ac VHT40	5510	102	MCS0	13.51	14.35	16.96	18.00	NO
		5550	110		13.52	14.49	17.04	18.00	NO
		5590	118		13.23	14.32	16.82	18.00	NO
		5630	126		13.54	14.41	17.01	18.00	NO
		5670	134		13.62	14.18	16.92	18.00	NO
		5710	142		14.00	14.17	17.10	18.00	NO
	802.11ac VHT80	5530	106	MCS0	12.53	13.39	15.99	17.00	NO
		5610	122		12.33	13.41	15.91	17.00	NO
		5690	138		12.11	13.21	15.71	17.00	NO
	U-NII-3	802.11a	5745	149	6	17.23	16.56	19.92	21.00
5785			157	16.84		17.05	19.96	21.00	NO
5825			165	16.95		16.97	19.97	21.00	YES
802.11n HT20		5745	149	MCS0	16.45	15.91	19.20	20.00	NO
		5785	157		16.18	16.31	19.26	20.00	NO
		5825	165		16.22	16.26	19.25	20.00	NO
802.11n HT40		5755	151	MCS0	15.92	16.02	18.98	20.00	NO
		5795	159		16.00	15.92	18.97	20.00	NO
802.11ac VHT20		5745	149	MCS0	16.09	15.41	18.77	20.00	NO
		5785	157		15.74	15.85	18.81	20.00	NO
		5825	165		15.80	15.75	18.79	20.00	NO
802.11ac VHT40		5755	151	MCS0	14.26	14.06	17.17	18.00	NO
		5795	159		14.16	14.06	17.12	18.00	NO
802.11ac VHT80		5775	155	MCS0	12.94	13.01	15.99	17.00	NO



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-Documents.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@sgs.com



Reduced Power- Grip Active

Band	Mode	Freq. (MHz)	Channel	Data Rate(Mbps)	Ant 1 (dB m)	Ant 2 (dB m)	Result (dB m)	Tune up	SAR Test
U-NII-1 U-NII-2A	802.11a	5180	36	6	7.67	8.48	11.10	12.00	NO
		5200	40		7.85	8.58	11.24	12.00	NO
		5220	44		7.77	8.42	11.12	12.00	NO
		5240	48		7.64	8.50	11.10	12.00	NO
		5260	52		7.75	8.34	11.07	12.00	NO
		5280	56		7.62	8.25	10.96	12.00	NO
		5300	60		7.82	8.53	11.20	12.00	NO
		5320	64		7.52	8.53	11.06	12.00	NO
	802.11n HT20	5180	36	MCS0	7.32	8.20	10.79	12.00	NO
		5200	40		7.68	8.24	10.98	12.00	NO
		5220	44		7.42	8.13	10.80	12.00	NO
		5240	48		7.50	8.19	10.87	12.00	NO
		5260	52		7.66	8.08	10.89	12.00	NO
		5280	56		7.46	7.94	10.72	12.00	NO
		5300	60		7.58	8.20	10.91	12.00	NO
		5320	64		7.35	8.14	10.77	12.00	NO
	802.11n HT40	5190	38	MCS0	7.68	8.36	11.04	12.00	NO
		5230	46		7.89	8.31	11.12	12.00	NO
		5270	54		7.98	8.13	11.07	12.00	NO
		5310	62		7.94	8.24	11.10	12.00	NO
	802.11ac VHT20	5180	36	MCS0	7.26	8.22	10.78	12.00	NO
		5200	40		7.47	8.24	10.88	12.00	NO
		5220	44		7.37	8.15	10.79	12.00	NO
		5240	48		7.47	8.21	10.87	12.00	NO
		5260	52		7.33	8.12	10.75	12.00	NO
		5280	56		7.75	8.71	11.27	12.00	NO
		5300	60		7.44	8.26	10.88	12.00	NO
		5320	64		7.35	8.27	10.84	12.00	NO
	802.11ac VHT40	5190	38	MCS0	7.56	8.38	11.00	12.00	NO
		5230	46		7.64	8.20	10.94	12.00	NO
		5270	54		7.91	8.00	10.97	12.00	NO
		5310	62		7.89	8.27	11.09	12.00	NO
	802.11ac VHT80	5210	42	MCS0	8.06	8.25	11.17	12.00	NO
		5290	58		7.19	8.28	10.78	12.00	YES



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-Documents.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@sgs.com



U-NII-2C	802.11a	5500	100	6	7.58	8.15	10.88	12.00	NO
		5520	104		7.20	8.65	11.00	12.00	NO
		5540	108		7.16	8.41	10.84	12.00	NO
		5560	112		7.23	8.79	11.09	12.00	NO
		5580	116		7.04	8.75	10.99	12.00	NO
		5600	120		7.06	8.35	10.76	12.00	NO
		5620	124		7.37	8.31	10.88	12.00	NO
		5640	128		7.23	8.20	10.75	12.00	NO
		5660	132		7.25	8.14	10.73	12.00	NO
		5680	136		7.77	8.34	11.07	12.00	NO
		5700	140		7.14	8.24	10.74	12.00	NO
		5720	144		7.60	8.40	11.03	12.00	NO
		802.11n HT20	MCS0		5500	100	7.71	8.40	11.08
	5520			104	7.38	8.86	11.19	12.00	NO
	5540			108	7.40	8.71	11.11	12.00	NO
	5560			112	7.24	8.94	11.18	12.00	NO
	5580			116	7.22	8.84	11.12	12.00	NO
	5600			120	7.26	8.69	11.04	12.00	NO
	5620			124	7.48	8.59	11.08	12.00	NO
	5640			128	7.39	8.41	10.94	12.00	NO
	5660			132	7.31	8.32	10.85	12.00	NO
	5680			136	7.85	8.79	11.36	12.00	NO
	5700			140	7.29	8.43	10.91	12.00	NO
	5720			144	7.61	8.77	11.24	12.00	NO
	802.11n HT40			MCS0	5510	102	7.21	8.49	10.91
		5550	110		7.23	8.42	10.88	12.00	NO
		5590	118		6.99	8.19	10.64	12.00	NO
		5630	126		7.27	8.22	10.78	12.00	NO
		5670	134		7.35	8.01	10.70	12.00	NO
		5710	142		7.74	8.10	10.93	12.00	NO
	802.11ac VHT20	MCS0	5500	100	7.81	8.42	11.14	12.00	NO
			5520	104	7.32	8.87	11.17	12.00	NO
			5540	108	7.37	8.70	11.10	12.00	NO
			5560	112	7.35	8.90	11.20	12.00	NO
			5580	116	7.26	8.93	11.19	12.00	NO
			5600	120	7.29	8.59	11.00	12.00	NO
			5620	124	7.54	8.55	11.08	12.00	NO
			5640	128	7.43	8.39	10.95	12.00	NO
			5660	132	7.44	8.24	10.87	12.00	NO



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-Documents.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@sgs.com



		5680	136		7.52	8.02	10.79	12.00	NO
		5700	140		7.37	8.41	10.93	12.00	NO
		5720	144		7.71	8.76	11.28	12.00	NO
U-NII-2C	802.11ac VHT40	5510	102	MCS0	7.19	8.56	10.94	12.00	NO
		5550	110		7.44	8.52	11.02	12.00	NO
		5590	118		7.62	8.68	11.19	12.00	NO
		5630	126		7.90	8.67	11.31	12.00	NO
		5670	134		7.82	8.54	11.21	12.00	NO
		5710	142		7.80	8.15	10.99	12.00	NO
	802.11ac VHT80	5530	106	MCS0	7.61	8.40	11.03	12.00	YES
		5610	122		7.25	8.42	10.88	12.00	NO
		5690	138		7.04	8.45	10.81	12.00	NO
U-NII-3	802.11a	5745	149	6	7.78	8.57	11.20	12.00	NO
		5785	157		7.40	8.43	10.96	12.00	NO
		5825	165		7.48	8.61	11.09	12.00	NO
	802.11n HT20	5745	149	MCS0	7.36	8.26	10.84	12.00	NO
		5785	157		7.63	8.61	11.16	12.00	NO
		5825	165		7.53	8.72	11.18	12.00	NO
	802.11n HT40	5755	151	MCS0	7.11	9.11	11.23	12.00	NO
		5795	159		7.54	8.16	10.87	12.00	NO
	802.11ac VHT20	5745	149	MCS0	7.37	8.21	10.82	12.00	NO
		5785	157		7.58	8.61	11.14	12.00	NO
		5825	165		7.55	8.75	11.20	12.00	NO
	802.11ac VHT40	5755	151	MCS0	6.51	8.67	10.73	12.00	NO
		5795	159		7.99	8.63	11.33	12.00	NO
	802.11ac VHT80	5775	155	MCS0	7.48	8.24	10.89	12.00	YES



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-Documents.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@sgs.com



Reduced Power- RSDB

Band	Mode	Freq. (MHz)	Channel	Data Rate(Mbps)	Ant 1 (dB m)	Ant 2 (dB m)	Result (dB m)	Tune up	SAR Test
U-NII-1 U-NII-2A	802.11a	5180	36	6	9.49	10.87	13.24	14.00	NO
		5200	40		9.03	10.65	12.93	14.00	NO
		5220	44		9.37	10.92	13.22	14.00	NO
		5240	48		9.47	10.82	13.21	14.00	NO
		5260	52		9.45	10.65	13.10	14.00	NO
		5280	56		9.35	10.48	12.96	14.00	NO
		5300	60		9.51	11.01	13.33	14.00	NO
		5320	64		9.34	10.87	13.18	14.00	NO
	802.11n HT20	5180	36	MCS0	9.16	10.57	12.93	14.00	NO
		5200	40		9.25	10.79	13.10	14.00	NO
		5220	44		9.14	10.62	12.95	14.00	NO
		5240	48		9.15	10.45	12.86	14.00	NO
		5260	52		9.16	10.37	12.82	14.00	NO
		5280	56		9.60	10.78	13.24	14.00	NO
		5300	60		9.20	10.74	13.05	14.00	NO
		5320	64		9.14	10.56	12.92	14.00	NO
	802.11n HT40	5190	38	MCS0	9.48	10.78	13.19	14.00	NO
		5230	46		9.13	10.63	12.95	14.00	NO
		5270	54		9.45	10.62	13.08	14.00	NO
		5310	62		9.50	10.70	13.15	14.00	NO
	802.11ac VHT20	5180	36	MCS0	9.13	10.59	12.93	14.00	NO
		5200	40		9.12	10.84	13.07	14.00	NO
		5220	44		8.97	10.64	12.90	14.00	NO
		5240	48		9.04	10.52	12.85	14.00	NO
		5260	52		9.14	10.45	12.85	14.00	NO
		5280	56		9.20	10.25	12.77	14.00	NO
		5300	60		9.14	10.70	13.00	14.00	NO
		5320	64		9.10	10.59	12.92	14.00	NO
	802.11ac VHT40	5190	38	MCS0	9.50	10.78	13.20	14.00	NO
		5230	46		9.37	10.57	13.02	14.00	NO
		5270	54		9.48	10.68	13.13	14.00	NO
		5310	62		9.59	10.85	13.28	14.00	NO
	802.11ac VHT80	5210	42	MCS0	9.19	10.41	12.85	14.00	NO
		5290	58		9.35	10.81	13.15	14.00	NO



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-Documents.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@sgs.com.



U-NII-2C	802.11a	5500	100	6	9.33	10.56	13.00	14.00	NO
		5520	104		8.86	10.95	13.04	14.00	NO
		5540	108		8.84	10.70	12.88	14.00	NO
		5560	112		8.92	11.01	13.10	14.00	NO
		5580	116		8.85	10.90	13.01	14.00	NO
		5600	120		8.80	10.83	12.94	14.00	NO
		5620	124		9.06	10.56	12.88	14.00	NO
		5640	128		9.03	10.55	12.87	14.00	NO
		5660	132		9.13	10.71	13.00	14.00	NO
		5680	136		9.33	10.92	13.21	14.00	NO
		5700	140		8.68	10.64	12.78	14.00	NO
		5720	144		9.59	10.38	13.01	14.00	NO
		802.11n HT20	5500		100	MCS0	9.55	10.73	13.19
	5520		104	9.04	11.13		13.22	14.00	NO
	5540		108	9.01	10.89		13.06	14.00	NO
	5560		112	9.08	11.24		13.30	14.00	NO
	5580		116	8.94	11.13		13.18	14.00	NO
	5600		120	9.04	11.03		13.16	14.00	NO
	5620		124	9.22	10.78		13.08	14.00	NO
	5640		128	9.17	10.74		13.04	14.00	NO
	5660		132	9.79	10.90		13.39	14.00	NO
	5680		136	8.95	10.65		12.89	14.00	NO
	5700		140	8.76	10.85		12.94	14.00	NO
	5720		144	9.68	10.63		13.19	14.00	NO
	802.11n HT40		5510	102	MCS0		9.47	11.30	13.49
		5550	110	9.20		10.78	13.07	14.00	NO
		5590	118	8.80		10.59	12.80	14.00	NO
		5630	126	9.10		10.68	12.97	14.00	NO
		5670	134	9.24		10.83	13.12	14.00	NO
		5710	142	9.41		10.69	13.11	14.00	NO
	802.11ac VHT20	5500	100	MCS0	9.02	10.27	12.70	14.00	NO
		5520	104		8.98	11.10	13.18	14.00	NO
		5540	108		8.91	10.91	13.03	14.00	NO
		5560	112		9.06	11.18	13.26	14.00	NO
		5580	116		9.03	11.11	13.20	14.00	NO
		5600	120		9.10	10.99	13.16	14.00	NO
		5620	124		9.23	10.77	13.08	14.00	NO
		5640	128		9.26	10.76	13.08	14.00	NO
		5660	132		8.90	10.38	12.71	14.00	NO



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-Documents.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@sgs.com



		5680	136		9.01	10.63	12.91	14.00	NO
		5700	140		8.88	10.88	13.00	14.00	NO
		5720	144		9.35	10.06	12.73	14.00	NO
U-NII-2C	802.11ac VHT40	5510	102	MCS0	8.97	10.89	13.05	14.00	NO
		5550	110		9.05	10.88	13.07	14.00	NO
		5590	118		8.85	10.63	12.84	14.00	NO
		5630	126		9.15	10.76	13.04	14.00	NO
		5670	134		9.34	10.78	13.13	14.00	NO
		5710	142		9.54	10.71	13.17	14.00	NO
	802.11ac VHT80	5530	106	MCS0	8.91	10.78	12.96	14.00	NO
		5610	122		9.54	10.76	13.20	14.00	NO
		5690	138		9.06	10.67	12.95	14.00	NO
	U-NII-3	802.11a	5745	149	6	9.67	10.90	13.34	14.00
5785			157	9.16		10.89	13.12	14.00	NO
5825			165	9.10		10.82	13.05	14.00	NO
802.11n HT20		5745	149	MCS0	9.24	10.50	12.93	14.00	NO
		5785	157		9.63	10.90	13.32	14.00	NO
		5825	165		9.63	11.00	13.38	14.00	NO
802.11n HT40		5755	151	MCS0	8.31	11.06	12.91	14.00	NO
		5795	159		8.82	10.54	12.77	14.00	NO
802.11ac VHT20		5745	149	MCS0	9.38	10.59	13.04	14.00	NO
		5785	157		8.95	10.57	12.85	14.00	NO
		5825	165		8.80	10.60	12.80	14.00	NO
802.11ac VHT40		5755	151	MCS0	8.79	11.50	13.36	14.00	NO
		5795	159		9.09	10.68	12.97	14.00	NO
802.11ac VHT80		5775	155	MCS0	9.21	10.72	13.04	14.00	NO



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-Documents.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@sgs.com



Reduced Power- RSDB with Grip Active

Band	Mode	Freq. (MHz)	Channel	Data Rate(Mbps)	Ant 1 (dB m)	Ant 2 (dB m)	Result (dB m)	Tune up	SAR Test
U-NII-1 U-NII-2A	802.11a	5180	36	6	6.35	7.81	10.15	11.00	NO
		5200	40		6.24	7.88	10.15	11.00	NO
		5220	44		6.47	7.78	10.18	11.00	NO
		5240	48		6.56	7.84	10.26	11.00	NO
		5260	52		6.67	7.71	10.23	11.00	NO
		5280	56		6.14	7.49	9.88	11.00	NO
		5300	60		6.64	7.84	10.29	11.00	NO
		5320	64		6.37	7.80	10.15	11.00	NO
	802.11n HT20	5180	36	MCS0	5.34	6.52	8.98	10.00	NO
		5200	40		5.04	6.54	8.86	10.00	NO
		5220	44		5.17	6.62	8.97	10.00	NO
		5240	48		5.20	6.48	8.90	10.00	NO
		5260	52		5.38	6.36	8.91	10.00	NO
		5280	56		5.40	6.63	9.07	10.00	NO
		5300	60		5.39	6.47	8.97	10.00	NO
		5320	64		5.29	6.49	8.94	10.00	NO
	802.11n HT40	5190	38	MCS0	5.22	6.84	9.12	10.00	NO
		5230	46		5.61	6.74	9.22	10.00	NO
		5270	54		5.52	6.52	9.06	10.00	NO
		5310	62		5.71	6.68	9.23	10.00	NO
	802.11ac VHT20	5180	36	MCS0	5.04	6.65	8.93	10.00	NO
		5200	40		5.01	6.59	8.88	10.00	NO
		5220	44		5.23	6.54	8.94	10.00	NO
		5240	48		5.24	6.42	8.88	10.00	NO
		5260	52		5.28	6.47	8.93	10.00	NO
		5280	56		5.26	6.70	9.05	10.00	NO
		5300	60		5.32	6.50	8.96	10.00	NO
		5320	64		5.12	6.62	8.94	10.00	NO
	802.11ac VHT40	5190	38	MCS0	5.14	6.95	9.15	10.00	NO
		5230	46		5.38	6.73	9.12	10.00	NO
		5270	54		5.45	6.54	9.04	10.00	NO
		5310	62		5.64	6.75	9.24	10.00	NO
	802.11ac VHT80	5210	42	MCS0	5.39	6.62	9.06	10.00	NO
		5290	58		5.40	6.74	9.13	10.00	NO



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-Documents.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@sgs.com



U-NII-2C	802.11a	5500	100	6	6.31	7.39	9.89	11.00	NO
		5520	104		6.07	7.75	10.00	11.00	NO
		5540	108		6.04	7.57	9.88	11.00	NO
		5560	112		5.99	7.87	10.04	11.00	NO
		5580	116		5.89	7.73	9.92	11.00	NO
		5600	120		5.90	7.59	9.84	11.00	NO
		5620	124		6.16	7.69	10.00	11.00	NO
		5640	128		6.26	7.65	10.02	11.00	NO
		5660	132		6.21	7.85	10.12	11.00	NO
		5680	136		6.37	7.74	10.12	11.00	NO
		5700	140		6.20	7.80	10.08	11.00	NO
		5720	144		6.41	7.31	9.89	11.00	NO
		802.11n HT20	5500		100	MCS0	5.56	6.67	9.16
	5520		104	5.29	6.92		9.19	10.00	NO
	5540		108	5.24	6.75		9.07	10.00	NO
	5560		112	5.21	7.05		9.24	10.00	NO
	5580		116	5.18	6.97		9.18	10.00	NO
	5600		120	5.06	6.77		9.01	10.00	NO
	5620		124	5.52	6.87		9.26	10.00	NO
	5640		128	5.37	6.88		9.20	10.00	NO
	5660		132	4.99	6.54		8.84	10.00	NO
	5680		136	4.97	6.53		8.83	10.00	NO
	5700		140	5.02	6.58		8.88	10.00	NO
	5720		144	5.51	6.42		9.00	10.00	NO
	802.11n HT40		5510	102	MCS0		5.25	6.59	8.98
		5550	110	5.36		7.10	9.33	10.00	NO
		5590	118	5.12		7.10	9.23	10.00	NO
		5630	126	5.45		6.24	8.87	10.00	NO
		5670	134	5.59		6.56	9.11	10.00	NO
		5710	142	5.46		6.73	9.15	10.00	NO
	802.11ac VHT20	5500	100	MCS0	5.57	6.65	9.15	10.00	NO
		5520	104		5.30	6.90	9.18	10.00	NO
		5540	108		5.14	6.82	9.07	10.00	NO
		5560	112		5.19	7.12	9.27	10.00	NO
		5580	116		5.14	7.03	9.20	10.00	NO
		5600	120		5.18	6.88	9.12	10.00	NO
		5620	124		5.47	6.80	9.20	10.00	NO
		5640	128		5.48	6.86	9.23	10.00	NO
		5660	132		5.05	6.44	8.81	10.00	NO



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-Documents.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@sgs.com



		5680	136		5.03	6.47	8.82	10.00	NO
		5700	140		5.11	6.51	8.88	10.00	NO
		5720	144		5.60	6.52	9.09	10.00	NO
U-NII-2C	802.11ac VHT40	5510	102	MCS0	5.21	6.64	8.99	10.00	NO
		5550	110		4.73	6.77	8.88	10.00	NO
		5590	118		4.65	6.68	8.79	10.00	NO
		5630	126		5.69	6.29	9.01	10.00	NO
		5670	134		5.67	6.42	9.07	10.00	NO
		5710	142		5.65	6.70	9.22	10.00	NO
	802.11ac VHT80	5530	106	MCS0	5.24	6.68	9.03	10.00	NO
		5610	122		5.35	6.62	9.04	10.00	NO
		5690	138		5.13	6.64	8.96	10.00	NO
U-NII-3	802.11a	5745	149	6	6.52	7.82	10.23	11.00	NO
		5785	157		6.33	7.76	10.11	11.00	NO
		5825	165		6.43	7.77	10.16	11.00	NO
	802.11n HT20	5745	149	MCS0	5.28	6.62	9.01	10.00	NO
		5785	157		4.91	6.60	8.85	10.00	NO
		5825	165		5.11	6.45	8.84	10.00	NO
	802.11n HT40	5755	151	MCS0	4.36	6.96	8.86	10.00	NO
		5795	159		5.56	6.99	9.34	10.00	NO
	802.11ac VHT20	5745	149	MCS0	5.41	6.40	8.94	10.00	NO
		5785	157		5.66	6.98	9.38	10.00	NO
		5825	165		5.70	6.90	9.35	10.00	NO
	802.11ac VHT40	5755	151	MCS0	4.25	7.06	8.89	10.00	NO
		5795	159		5.23	6.68	9.03	10.00	NO
	802.11ac VHT80	5775	155	MCS0	5.32	6.58	9.01	10.00	NO



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-Documents.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@sgs.com

8.1.6 Conducted Power of WiFi 802.11ax

Base upon the tune up of the product, 802.11ax max powers (include the tolerance) are less than others mode(a/b/g/n/ac), so 802.11ax powers are not listed in this report, just listed the max tune up power table.

802.11 ax Maximum Power (dBm)			
Mode	Max Tune Up SISO Antenna1	Max Tune Up SISO Antenna2	Max Tune Up MIMO
2.4GHz	15	15	18
2.4GHz(CH12)	6	6	6
2.4GHz(CH13)	2	4	5
5GHz	11	11	14
5GHz(40M)	11	11	14
5GHz(80M)	11	11	14

802.11 ax Reduced Power- Grip Active (dBm)			
Mode	Max Tune Up SISO Antenna1	Max Tune Up SISO Antenna2	Max Tune Up MIMO
2.4GHz	11	11	14
5GHz	9	9	12
5GHz(40M)	9	9	12
5GHz(80M)	9	9	12

Note:

Ch12/13 in airplane mode only operate, no power reduction.

802.11 ax Reduced Power- RSDB (dBm)			
Mode	Max Tune Up SISO Antenna1	Max Tune Up SISO Antenna2	Max Tune Up MIMO
2.4GHz	13	13	16
5GHz	11	11	14
5GHz(40M)	11	11	14
5GHz(80M)	11	11	14

Note:

Ch12/13 in airplane mode only operate, no power reduction.

802.11 ax Reduced Power- RSDB with Grip Active (dBm)			
Mode	Max Tune Up SISO Antenna1	Max Tune Up SISO Antenna2	Max Tune Up MIMO
2.4GHz	10	10	13
5GHz	7	7	10
5GHz(40M)	7	7	10
5GHz(80M)	7	7	10

Note:

Ch12/13 in airplane mode only operate, no power reduction.



8.2 Stand-alone SAR test evaluation

1) Per FCC KDB 447498D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:
 $[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where:

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

2) At 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following:

- [Power allowed at numeric threshold for 50 mm in step 1) + (test separation distance - 50 mm) · (f(MHz)/150)] mW, at 100 MHz to 1500 MHz
- [Power allowed at numeric threshold for 50 mm in step 1) + (test separation distance - 50 mm) · 10] mW at > 1500 MHz and ≤ 6 GHz

According to the table above, the standalone test configurations required for this device are as below:

Sensor on																			
Bnad	Exposure Condition	f (GHz)	Pmax (dBm)	Pmax (mw)	separation distance(mm)					Calculated Value					SAR Test (Yes or No)				
					Back side	Left side	Right side	Top side	Bottom side	Back side	Left side	Right side	Top side	Bottom side	Back side	Left side	Right side	Top side	Bottom side
WIFI 2.4G Ant1	Body 0mm	2.462	11.00	12.59	5	148.9	5	5	241	3.951	>50mm	3.951	3.951	>50mm	Yes	>50mm	Yes	Yes	>50mm
WIFI 2.4G Ant2	Body 0mm	2.462	11.00	12.59	5	5	123.3	5	241	3.951	3.951	>50mm	3.951	>50mm	Yes	Yes	>50mm	Yes	>50mm
WIFI 2.4G MIMO	Body 0mm	2.462	14.00	25.12	5	5	5	5	241	7.883	7.883	7.883	7.883	>50mm	Yes	Yes	Yes	Yes	>50mm
WIFI 5G Ant1	Body 0mm	5.850	9.00	7.94	5	148.9	5	5	241	3.842	>50mm	3.842	3.842	>50mm	Yes	>50mm	Yes	Yes	>50mm
WIFI 5G Ant2	Body 0mm	5.850	9.00	7.94	5	5	123.3	5	241	3.842	3.842	>50mm	3.842	>50mm	Yes	Yes	>50mm	Yes	>50mm
WIFI 5G MIMO	Body 0mm	5.850	12.00	15.85	5	5	5	5	241	7.667	7.667	7.667	7.667	>50mm	Yes	Yes	Yes	Yes	>50mm
BT Ant1	Body 0mm	2.480	8.50	7.08	5	148.9	5	5	241	2.230	>50mm	2.230	2.230	>50mm	No	>50mm	No	No	>50mm
BT Ant2	Body 0mm	2.480	8.50	7.08	5	5	123.3	5	241	2.230	2.230	>50mm	2.230	>50mm	No	No	>50mm	No	>50mm

Antenna to adjacent sides>50mm Sensor on																			
Bnad	Exposure Condition	f (GHz)	Pmax (dBm)	Pmax (mw)	separation distance(mm)					Calculated Value					SAR Test (Yes or No)				
					Back side	Left side	Right side	Top side	Bottom side	Back side	Left side	Right side	Top side	Bottom side	Back side	Left side	Right side	Top side	Bottom side
WIFI 2.4G Ant1	Body 0mm	2.462	11.00	12.59	5	148.9	5	5	241	<50mm	1084.83	<50mm	<50mm	2005.83	<50mm	No	<50mm	<50mm	No
WIFI 2.4G Ant2	Body 0mm	2.462	11.00	12.59	5	5	123.3	5	241	<50mm	<50mm	828.83	<50mm	2005.83	<50mm	<50mm	No	<50mm	No
WIFI 2.4G MIMO	Body 0mm	2.462	14.00	25.12	5	5	5	5	241	<50mm	<50mm	<50mm	<50mm	2005.83	<50mm	<50mm	<50mm	<50mm	No
WIFI 5G Ant1	Body 0mm	5.850	9.00	7.94	5	148.9	5	5	241	<50mm	1051.29	<50mm	<50mm	1972.29	<50mm	No	<50mm	<50mm	No
WIFI 5G Ant2	Body 0mm	5.850	9.00	7.94	5	5	123.3	5	241	<50mm	<50mm	795.29	<50mm	1972.29	<50mm	<50mm	No	<50mm	No
WIFI 5G MIMO	Body 0mm	5.850	12.00	15.85	5	5	5	5	241	<50mm	<50mm	<50mm	<50mm	1972.29	<50mm	<50mm	<50mm	<50mm	No
BT Ant1	Body 0mm	2.480	8.50	7.08	5	148.9	5	5	241	<50mm	1084.83	<50mm	<50mm	2005.83	<50mm	No	<50mm	<50mm	No
BT Ant2	Body 0mm	2.480	8.50	7.08	5	5	123.3	5	241	<50mm	<50mm	828.83	<50mm	2005.83	<50mm	<50mm	No	<50mm	No

Sensor off																			
Bnad	Exposure Condition	f (GHz)	Pmax (dBm)	Pmax (mw)	separation distance(mm)					Calculated Value					SAR Test (Yes or No)				
					Back side	Left side	Right side	Top side	Bottom side	Back side	Left side	Right side	Top side	Bottom side	Back side	Left side	Right side	Top side	Bottom side
WIFI 2.4G Ant1	Body 0mm	2.462	20.00	100.00	5	148.9	5	5	241	31.382	>50mm	31.382	31.382	>50mm	Yes	>50mm	Yes	Yes	>50mm
WIFI 2.4G Ant2	Body 0mm	2.462	20.00	100.00	5	5	123.3	5	241	31.382	31.382	>50mm	31.382	>50mm	Yes	Yes	>50mm	Yes	>50mm
WIFI 2.4G MIMO	Body 0mm	2.462	23.00	199.53	5	5	5	5	241	62.614	62.614	62.614	62.614	>50mm	Yes	Yes	Yes	Yes	>50mm
WIFI 5G Ant1	Body 0mm	5.850	18.00	63.10	5	148.9	5	5	241	30.522	>50mm	30.522	30.522	>50mm	Yes	>50mm	Yes	Yes	>50mm
WIFI 5G Ant2	Body 0mm	5.850	18.00	63.10	5	5	123.3	5	241	30.522	30.522	>50mm	30.522	>50mm	Yes	Yes	>50mm	Yes	>50mm
WIFI 5G MIMO	Body 0mm	5.850	21.00	125.89	5	5	5	5	241	60.899	60.899	60.899	60.899	>50mm	Yes	Yes	Yes	Yes	>50mm
BT Ant1	Body 0mm	2.480	16.50	44.67	5	148.9	5	5	241	14.069	>50mm	14.069	14.069	>50mm	Yes	>50mm	Yes	Yes	>50mm
BT Ant2	Body 0mm	2.480	16.50	44.67	5	5	123.3	5	241	14.069	14.069	>50mm	14.069	>50mm	Yes	Yes	>50mm	Yes	>50mm



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-Documents.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@sgs.com