

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250100007806

> 1 of 319 Page:

TEST REPORT

Application No.: SZCR2501000078WM

Applicant: vivo Mobile Communication Co., Ltd.

Address of Applicant: No.1, vivo Road, Chang'an, Dongguan, Guangdong, China

Manufacturer: vivo Mobile Communication Co., Ltd.

No.1, vivo Road, Chang'an, Dongguan, Guangdong, China Address of Manufacturer:

Equipment Under Test (EUT):

EUT Name: Mobile phone

Model No.: V2446 **Trade Mark:** vivo

FCC ID: 2AUCY-V2446

47 CFR Part 15, Subpart E 15.407 Standard(s):

2025-01-06 **Date of Receipt:**

Date of Test: 2025-01-17 to 2025-02-10

2025-02-20 Date of Issue:

Pass* Test Result:

Ceny. Ku Keny Xu **EMC Laboratory Manager**



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

^{*} In the configuration tested, the EUT complied with the standards specified above.



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 2 of 319

	Revision Record				
Version	Chapter	Date	Modifier	Remark	
01		2025-02-20		Original	

Authorized for issue by:		
	Sherlock Fans	
	Sherlock Fang/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 3 of 319

2 **Test Summary**

Radio Spectrum Technical Requirement					
Item	Standard	Method	Requirement	Result	
Antenna Requirement	47 CFR Part 15,	N/A	47 CFR Part 15, Subpart C 15.203	Pass	
Transmission in the Absence of Data	Subpart E 15.407	N/A	47 CFR Part 15, Subpart E 15.407 (c)	Pass	

Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Maximum Conducted output power		ANSI C63.10 (2013) Section 12.3	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Radiated Emissions (Below 1GHz)		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Channel Move Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Duty Cycle	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 12.2	ANSI C63.10 (2013) Section 12.2	Pass
99% Bandwidth		ANSI C63.10 (2013) Section 12.4.2	ANSI C63.10 (2013) Section 12.4.2	Pass
26dB Emission bandwidth		ANSI C63.10 (2013) Section 12.4.1	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		ANSI C63.10 (2013) Section 6.9.2	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Peak Power spectrum density		ANSI C63.10 (2013) Section 12.5	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass
Non-occupancy period		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Channel Closing Transmission Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass



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



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 4 of 319

3 Contents

		Page
1	1 Cover Page	
2	2 Test Summary	3
_	i ost outilitary	
3	3 Contents	4
4	4 General Information	7
	4.1 Details of E.U.T	7
	4.2 Environment Parameter	
	4.3 Description of Support Units	
	4.4 Measurement Uncertainty	
	4.5 Test Location	
	4.6 Test Facility	
	4.7 Deviation from Standards	10
	4.8 Abnormalities from Standard Conditions	10
5	5 Equipment List	11
_	O Bodio Occatowa Tochaical Bossianus	4.
6	·	
	6.1 Antenna Requirement	
	6.1.1 Test Requirement:	
	6.1.2 Conclusion	
	6.2 Transmission in the Absence of Data	
	6.2.1 Test Requirement:	
	6.2.2 Conclusion	
7	•	
	7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)	16
	7.1.1 E.U.T. Operation	
	7.1.2 Test Mode Description	
	7.1.3 Test Setup Diagram	
	7.1.4 Measurement Procedure and Data	
	7.2 Maximum Conducted output power	
	7.2.1 E.U.T. Operation	
	7.2.2 Test Mode Description	
	7.2.3 Test Setup Diagram	
	7.2.4 Measurement Procedure and Data	
	7.3.1 E.U.T. Operation	
	7.3.2 Test Mode Description	
	7.3.3 Test Setup Diagram	
	7.3.4 Measurement Procedure and Data	
	7.4 Radiated Emissions (Above 1GHz)	
	7.4.1 E.U.T. Operation	



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

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

No.1 Workshop, M-10, Mode Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, Chine 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 5 of 319

7.4.2	Test Mode Description	
7.4.3	Test Setup Diagram	28
7.4.4	Measurement Procedure and Data	29
7.5 R	adiated Emissions which fall in the restricted bands	60
7.5.1	E.U.T. Operation	60
7.5.2	Test Mode Description	61
7.5.3	Test Setup Diagram	61
7.5.4	Measurement Procedure and Data	62
7.6 C	hannel Move Time	151
7.6.1	E.U.T. Operation	151
7.6.2	Test Setup Diagram	152
7.6.3	Measurement Procedure and Data	153
7.7 D	uty Cycle	154
7.7.1	E.U.T. Operation	154
7.7.2	Test Mode Description	154
7.7.3	Test Setup Diagram	154
7.7.4	Measurement Procedure and Data	154
7.8 99	9% Bandwidth	155
7.8.1	E.U.T. Operation	155
7.8.2	Test Mode Description	155
7.8.3	Test Setup Diagram	155
7.8.4	Measurement Procedure and Data	155
7.9 20	6dB Emission bandwidth	156
7.9.1	E.U.T. Operation	156
7.9.2	Test Mode Description	156
7.9.3	Test Setup Diagram	156
7.9.4	Measurement Procedure and Data	
7.10 M	linimum 6 dB bandwidth (5.725-5.85 GHz band)	157
7.10.1	E.U.T. Operation	157
7.10.2	Test Mode Description	
7.10.3	Test Setup Diagram	
7.10.4	Measurement Procedure and Data	
7.11 P	eak Power spectrum density	
7.11.1	E.U.T. Operation	
7.11.2	Test Mode Description	
7.11.3	Test Setup Diagram	
7.11.4	Measurement Procedure and Data	
	requency Stability	
7.12.1	E.U.T. Operation	
7.12.2	Test Mode Description	
7.12.3	Test Setup Diagram	
7.12.4	Measurement Procedure and Data	
	on-occupancy period	
7.13.1	E.U.T. Operation	
7.13.2	Test Setup Diagram	
7.13.3	Measurement Procedure and Data	
	hannel Closing Transmission Time	
7.14.1	E.U.T. Operation	
7.14.2	Test Setup Diagram	
7.14.3	Measurement Procedure and Data	166



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

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.1Workshop, M-10, Midde Sedion, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, Chine 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



SZEI	MC-TRF-01 Rev. A/1	Report N	o.: SZCR25010000	7806
		Page:	6 of 319	
8	Test Setup Photo			167
9	EUT Constructional Details (EUT Photos)			167



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of ilability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery 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@ss.com"

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 7 of 319

General Information

4.1 Details of E.U.T.

4.1 Details of L.O.				
EUT Description:	Mobile phone			
Model No.:	V2446			
Trade Mark:	vivo			
Hardware Version:	MP_0.1			
Software Version:	PD2443IF_	EX_A_15.0.1.31.W30		
Power Supply:	DC 3.85V adapter	from internal rechargeable battery which can be charged by AC/DC		
	802.11a:	20 MHz channel bandwidth		
WLAN Mode Supported:	802.11n:	20 MHz / 40 MHz channel bandwidth		
	802.11ac:	20 MHz / 40 MHz / 80 MHz channel bandwidth		
	5150MHz to	5250MHz		
Operation Fraguency	5250MHz to	5350MHz		
Operation Frequency:	5470MHz to	5725MHz		
	5725MHz to	5850MHz		
	802.11a:	OFDM (BPSK, QPSK, 16QAM, 64QAM)		
Modulation Type:	802.11n:	802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM)		
	802.11ac:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)		
	20MHz:	802.11a/n(HT20)/ac(VHT20)		
Channel Spacing:	40MHz:	802.11n(HT40)/ac(VHT40)		
	80MHz:	MHz: 802.11ac(VHT80)		
Antenna Type:	PIFA Anten	na		
	5150MHz to	5250MHz: -0.31dBi(Ant22);		
	5250MHz to	5350MHz: -1.32dBi(Ant22);		
	5470MHz to 5725MHz: -0.47dBi(Ant22);			
Antenna Gain:	5725MHz to 5850MHz: -1.18dBi(Ant22);			
	Note:			
		The antenna gain are derived from the gain information report provided by the manufacturer.		
	⊠ siso	802.11a/n/ac		
		CDD: 802.11a/n/ac: Tx & Rx		
Smart System:	☐ MIMO	STBC: 802.11n/ac: Tx & Rx		
		TXBF: 802.11n/ac: Tx & Rx		
	☐ Diversity	802.11a: Tx & Rx		
TPC Function:	☐Support,	☐Support, ☑Not Support		
<u>'</u>				



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of ilability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery 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@ss.com"

No.1 Workshop, Mr-10, Middle Section, Science & Technology Parit, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250100007806

> Page: 8 of 319

DFS Function:	□Master			
	☐Slave with radar detection ☐Slave without radar detection		ve without radar detection	
RF Cable:	4900MHz ~ 5250MHz(1.6dB)		5250MHz ~ 5350MHz(1.7dB)	
	5470MHz ~ 5725MHz(1.8dB)		5725MHz ~ 5850MHz (2dB)	
Remark:				
As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy,				
suitability, reliability or/and integrity of the information.				

4.2 Environment Parameter

Environment Parameter		1020 mbar Selected Values During Tests		
Relative Humidity		42.7-50.8 % RH Ambient		
Value		Temperatu	ıre(°C)	Voltage(V)
NTNV		20.2~24.6		3.85
Note:				
NV:Normal Voltage	LV:Low Extreme Test Vo	ltage	HV:High Extren	ne Test Voltage
NT:Normal Temperature	LT:Low Extreme Test Te	mperature	HT:High Extrem	ne Test Temperature



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

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 9 of 319

4.3 Description of Support Units

Description	Manufacturer	Model No.	FCC ID
Router	NETGEAR	R7800	PY315100319

4.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
Maximum Conducted output power	± 0.75dB
Radiated Emissions (Below 1GHz)	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Emissions (Above 1GHz)	± 4.6dB (1-18GHz);± 4.8dB (18- 40GHz)
Radiated Emissions which fall in the restricted bands	± 6.0dB (below 1GHz); ± 4.6dB (above 1GHz);
Duty Cycle	± 0.37%
99% Bandwidth	± 3%
26dB Emission bandwidth	± 3%
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	± 3%
Peak Power spectrum density	± 2.84dB
Frequency Stability	± 7.25 x 10-8

Remark:

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250100007806

> Page: 10 of 319

4.5 Test Location

All tests were performed at:

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

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.6 Test Facility

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

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 (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz. 10m Semi-anechoic chamber for below 1GHz. Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC -Designation Number: CN1336

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

Designation Number: CN1336. Test Firm Registration Number: 787754.

Innovation, Science and Economic Development Canada

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.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 11 of 319

Equipment List 5

Conducted Emissions at AC Power Line (150kHz-30MHz)										
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date					
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13					
EMI Test Receiver	Rohde&Schwarz	ohde&Schwarz ESR SZ-WRG-M-047 2025-01-			2026-01-07					
Matching Pad	N/A	/A N/A SEM021-23 20		2024-03-20	2025-03-19					
Matching Pad	N/A	N/A SEM021-24		2024-03-20	2025-03-19					
Measurement Software	AUDIX	e3 V8.2014- 6-27a	N/A	N/A	N/A					
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05					
LISN	LISN Rohde&Schwarz ENV216 SE		SEM007-01	2024-08-15	2025-08-14					
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13					

Maximum Conducted output power									
Equipment	Manufacturer	Model No.	Model No. Inventory No.		Cal Due Date				
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-27	2025-03-26				
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14	2025-03-13				
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13				
MXA Signal Analyzer	IXA Signal Analyzer KEYSIGHT N		SEM004-19	2024-03-14	2025-03-13				
Signal Generator	KEYSIGHT	N5173B SEM006-05 20		2024-09-14	2025-09-13				
Measurement Software	TST PASS	TST PASS N/A		N/A	N/A				
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05				
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26				
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18				

Radiated Emissions (Below 1GHz)										
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date					
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19					
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18					
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2024-08-14	2025-08-13					
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15					
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13					
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A					
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05					



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



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 12 of 319

Radiated Emissions (Above 1GHz)									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-01-07	2026-01-06				
Low Noise Amplifier 1G- 18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2025-01-07	2026-01-06				
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048 SZ-WRG-M-052		2025-01-08	2026-01-07				
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023-12-21	2025-12-20				
SHF-EHF Horn 15GHz- 40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023-12-25	2025-12-24				
RSE Test Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A				
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05				
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23				

Radiated Emissions which fall in the restricted bands									
Equipment	Manufacturer	Model No. Inventory No.		Cal Date	Cal Due Date				
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-01-07	2026-01-06				
Low Noise Amplifier 30M-8GHz	Tonscend	SZ-WRG-M-050	2025-01-07	2026-01-06					
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023-12-21	2025-12-20				
SHF-EHF Horn 15GHz- 40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023-12-25	2025-12-24				
RSE Test Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A				
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05				
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23				



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

No.1 Workshop, Mr-10, Middle Section, Science & Technology Parit, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 13 of 319

Channel Move Time									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2024-03-27	2025-03-26				
Manual Step Attenuator	al Step Attenuator KEYSIGHT 8496B				2025-03-26				
Measurement Software	KEYSIGHT	Signal Studio for DFS Radar Profiles V2.2.0.0	N/A	N/A	N/A				
Measurement Software	Agilent	ISMonitor10	N/A	N/A	N/A				
MXG Vector Signal Agilent N51		N5182A	SEM006-21	2024-03-27	2025-03-26				
MXA Signal Analyzer KEYSIGH		N9020A	SEM004-22	2024-03-14	2025-03-13				

RF Conducted Test									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13				
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13				
Signal Generator	Signal Generator KEYSIGHT N5173B		SEM006-05	2024-09-14	2025-09-13				
Measurement Software	TST PASS	TST PASS V2.0 N/A		N/A	N/A				
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05				
Attenuator	Huber+Suhner	6620_SMA-50- 1 SEM021-09		2024-03-27	2025-03-26				
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18				

General used equipment									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23				
Humidity/ Temperature Indicator	, , OHI I		SEM002-33	2024-07-24	2025-07-23				
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17				



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

No.1 Workshop, Mr-10, Middle Section, Science & Technology Parit, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250100007806

> Page: 14 of 319

Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is a PIFA Antenna, and the connection port is integrated inside the product, and the antenna cannot be replaced.

5150MHz to 5250MHz: -0.31dBi(Ant22); * 5250MHz to 5350MHz: -1.32dBi(Ant22);* 5470MHz to 5725MHz: -0.47dBi(Ant22);* 5725MHz to 5850MHz: -1.18dBi(Ant22); *

*Note:

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

Remark:

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's indings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full without prior written approval of the Company. Any unauthorized alteration, forgery 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: (65-755) 8307 1443, or email: CN_Doccheck@sgs.com").

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057

t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250100007806

> Page: 15 of 319

6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

EUT Details:

WIFI chip support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut 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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250100007806

> Page: 16 of 319

Radio Spectrum Matter Test Results 7

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9) Test Requirement

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Everyone of emission (MH=)	Conducted limit(dB μ V)					
Frequency of emission(MHz)	Quasi-peak	Average				
0.15-0.5	66 to 56*	56 to 46*				
0.5-5	56 46					
5-30	60	50				
*Decreases with the logarithm of the frequency.						

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 44.5 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

	7.1.2 Test made Beschption						
Pre-scan / Final test	Mode Code	Description					
Final test	14	Charge + TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.					
Pre-scan	15	Charge + TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.					
Pre-scan	16	Charge + TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.					
Pre-scan	17	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.					



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

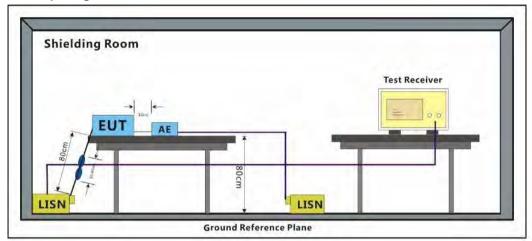
中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com Member of the SGS Group (SGS SA)



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250100007806

> Page: 17 of 319

7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50µH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

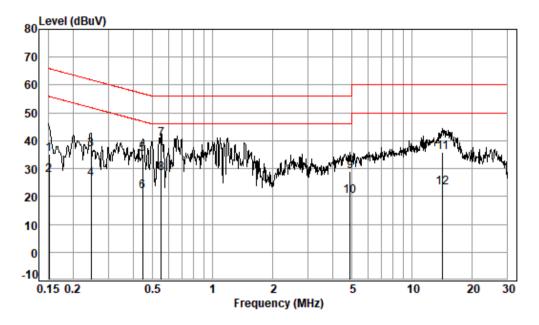


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 18 of 319

Test Mode: 14: Line: Live line



: Shielding Room

Condition: Line Job No. : 00078WM

Test mode: 14

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1516	0.06	10.19	24.89	35.14	65.91	-30.77	QP
2	0.1516	0.06	10.19	17.54	27.79	55.91	-28.12	Average
3	0.2468	0.07	9.98	26.93	36.98	61.86	-24.88	QP
4	0.2468	0.07	9.98	16.19	26.24	51.86	-25.62	Average
5	0.4468	0.08	9.61	25.36	35.05	56.93	-21.88	QP
6	0.4468	0.08	9.61	12.22	21.91	46.93	-25.02	Average
7 *	0.5523	0.08	9.57	30.90	40.55	56.00	-15.45	QP
8 *	0.5523	0.08	9.57	18.53	28.18	46.00	-17.82	Average
9	4.8738	0.12	9.66	19.08	28.86	56.00	-27.14	QP
10	4.8738	0.12	9.66	10.47	20.25	46.00	-25.75	Average
11	14.2127	0.25	9.89	25.56	35.70	60.00	-24.30	QP
12	14.2127	0.25	9.89	13.20	23.34	50.00	-26.66	Average



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

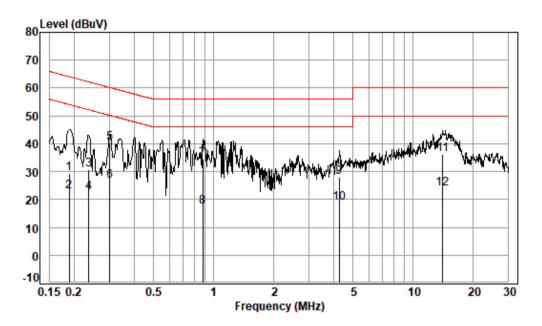


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 19 of 319

Test Mode: 14: Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 00078WM

Test mode: 14

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1894	0.06	10.09	19.12	29.27	64.06	-34.79	QP
2	0.1894	0.06	10.09	12.80	22.95	54.06	-31.11	Average
3	0.2366	0.06	9.95	20.78	30.79	62.22	-31.43	QP
4	0.2366	0.06	9.95	12.46	22.47	52.22	-29.75	Average
5 *	0.3019	0.07	9.77	30.44	40.28	60.19	-19.91	QP
6 *	0.3019	0.07	9.77	16.78	26.62	50.19	-23.57	Average
7	0.8803	0.09	9.58	24.75	34.42	56.00	-21.58	QP
8	0.8803	0.09	9.58	7.64	17.31	46.00	-28.69	Average
9	4.2466	0.12	9.55	18.22	27.89	56.00	-28.11	QP
10	4.2466	0.12	9.55	9.01	18.68	46.00	-27.32	Average
11	14.0629	0.25	9.81	26.21	36.27	60.00	-23.73	QP
12	14.0629	0.25	9.81	13.71	23.77	50.00	-26.23	Average



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 20 of 319

7.2 Maximum Conducted output power

47 CFR Part 15, Subpart E 15.407 (a) Test Requirement Test Method: ANSI C63.10 (2013) Section 12.3

Limit:

Frequen	cy band(MHz)	Limit					
5150	E2E0	≤1W(30dBm) for master device					
5150-	5250	≤250mW(24dBm) for client device					
5250-	5350	≤250mW(24dBm) or 11dBm+10logB*					
5470-	5725	≤250mW(24dBm) or 11dBm+10logB*					
5725-	5850	≤1W(30dBm)					
Remark:	* Where B is the	e 26dB emission bandwidth in MHz.					
		conducted output power must be measured over any interval ransmission using instrumentation calibrated in terms of an voltage.					

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.6 °C Atmospheric Pressure: 1020 mbar Humidity: 42.7 % RH

7.2.2 Test Mode Description

7.2.2 103010	7.2.2 Test mode Description								
Pre-scan / Final test	Mode Code	Description							
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.							
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.							
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.							
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.							



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

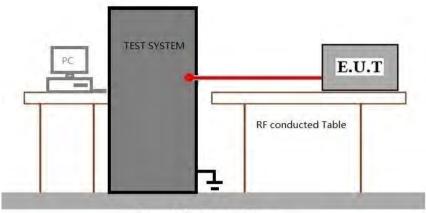
中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250100007806

> Page: 21 of 319

7.2.3 Test Setup Diagram



Ground Reference Plane

7.2.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 22 of 319

7.3 Radiated Emissions (Below 1GHz)

47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b) **Test Requirement**

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 20.2 °C Humidity: 45.2 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description							
Final test	14	Charge + TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.							
Pre-scan	15	Charge + TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.							
Pre-scan	16	Charge + TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.							
Pre-scan	17	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.							



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057

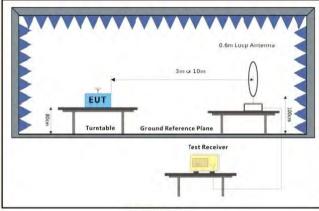


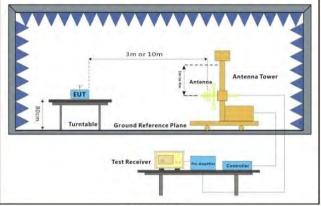
SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 23 of 319

7.3.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of ilability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery 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@ss.com"

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057

t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250100007806

> 24 of 319 Page:

7.3.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
- 3. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's indings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery 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").

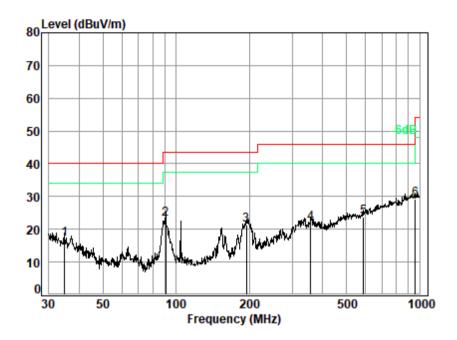


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 25 of 319

Test Mode: 14; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 00078WM

Test Mode: 14

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	34.760	19.01	0.73	27.78	25.00	16.96	40.00	-23.04	QP
2	90.537	11.77	1.16	27.62	37.82	23.13	43.50	-20.37	QP
3	194.453	14.15	1.74	27.19	32.55	21.25	43.50	-22.25	QP
4	356.676	20.13	2.43	26.98	26.19	21.77	46.00	-24.23	QP
5	588.905	24.37	3.21	27.92	24.05	23.71	46.00	-22.29	QP
6 a	958.794	28.10	4.28	26.34	23.09	29.13	46.00	-16.87	OP



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

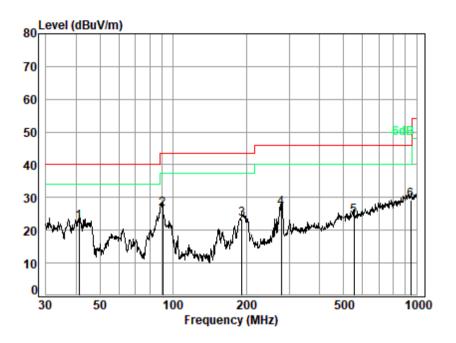


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 26 of 319

Test Mode: 14; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 00078WM

Test Mode: 14

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
	44 430	45.00	. 70	07.76	22.65	00.54		47.40	0.0
1	41.132	15.83	0.79	2/./6	33.65	22.51	40.00	-1/.49	QР
2	90.537	11.77	1.16	27.62	41.05	26.36	43.50	-17.14	QP
3	191.745	14.26	1.73	27.20	34.72	23.51	43.50	-19.99	QP
4	278.067	16.97	2.12	26.84	34.47	26.72	46.00	-19.28	QP
5	552.883	23.71	3.10	27.78	25.45	24.48	46.00	-21.52	QP
6 q	945.440	28.26	4.24	26.44	23.23	29.29	46.00	-16.71	QP



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250100007806

> Page: 27 of 319

7.4 Radiated Emissions (Above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: ANSI C63.10 (2013) Section 6.6

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

^{*(1)} For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
- (i) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge. and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C Humidity: 50.8 % RH Atmospheric Pressure: 1020 mbar



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



SZEMC-TRF-01 Rev. A/1

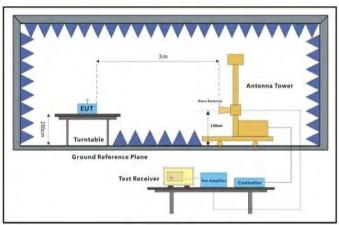
Report No.: SZCR250100007806

Page: 28 of 319

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	14	Charge + TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	15	Charge + TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	16	Charge + TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	17	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



Above 1GHz



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of ilability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery 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@ss.com"

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250100007806

> Page: 29 of 319

7.4.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.
- 6.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- 7. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥1/T (Duty cycle<98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

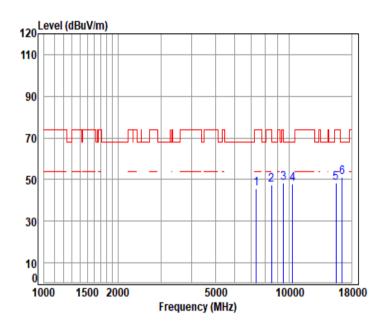


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 30 of 319

11a TX CH 36 Horizontal



Condition: 3m HORIZONTAL

Job No : 00078WM Mode : 5180 TX RSE

: 5G Wi-Fi 11a

	. 50	***	110						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7360.057	11.50	36.78	56.41	53.85	45.72	74.00	-28.28	peak
2	8496.769	12.29	38.31	55.45	52.16	47.31	74.00	-26.69	peak
3	9504.150	12.55	38.89	54.55	51.57	48.46	68.20	-19.74	peak
4	10360.000	13.60	39.00	53.88	49.15	47.87	68.20	-20.33	peak
5	15540.000	17.00	38.56	54.14	46.94	48.36	74.00	-25.64	peak
6	pp16490.340	17.68	38.89	54.15	48.46	50.88	68.20	-17.32	peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

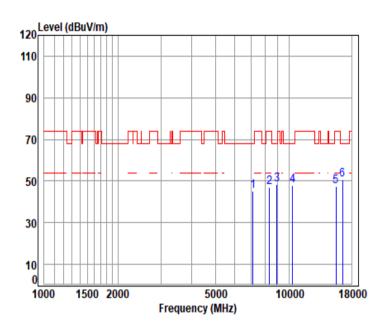


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 31 of 319

11a_TX_CH_36_Vertical



Condition: 3m VERTICAL Job No : 00078WM Mode : 5180 TX RSE

: 5G Wi-Fi 11a

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7124.029	11.88	36.45	56.60	53.50	45.23	68.20	-22.97	peak
2	8333.913	11.72	38.44	55.60	52.28	46.84	74.00	-27.16	peak
3	8913.427	12.21	38.57	55.08	52.56	48.26	68.20	-19.94	peak
4	10360.000	13.60	39.00	53.88	49.34	48.06	68.20	-20.14	peak
5	15540.000	17.00	38.56	54.14	46.16	47.58	74.00	-26.42	peak
6	pp16540.810	17.70	39.02	54.16	48.02	50.58	68.20	-17.62	peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

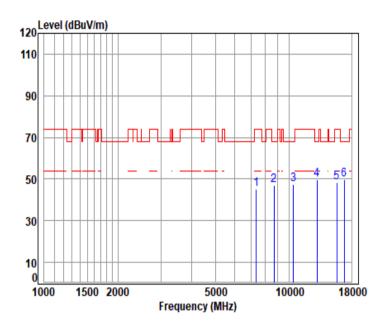


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 32 of 319

11a TX CH 44 Horizontal



Condition: 3m HORIZONTAL

: 00078WM Job No Mode : 5220 TX RSE

: 5G Wi-Fi 11a

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Limit Remark Level Level Line MHz dBuV dBuV/m dBuV/m dB dB/m dB 7337.601 11.51 36.78 56.43 53.15 45.01 74.00 -28.99 peak 8689.318 12.08 38.56 55.28 51.80 47.16 68.20 -21.04 peak 2 10440.000 13.63 39.04 53.84 48.81 47.64 68.20 -20.56 peak 13019.740 15.83 40.30 54.50 47.99 49.62 68.20 -18.58 Peak 15660.000 17.23 38.56 54.10 46.47 48.16 74.00 -25.84 peak 6 pp16829.720 17.67 39.60 54.25 46.66 49.68 68.20 -18.52 peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com Member of the SGS Group (SGS SA)

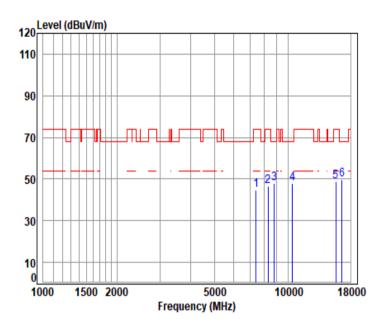


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 33 of 319

11a_TX_CH_44_Vertical



Condition: 3m VERTICAL Job No : 00078WM Mode : 5220 TX RSE

: 5G Wi-Fi 11a

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7405.175	11.49	36.71	56.38	52.83	44.65	74.00	-29.35	peak
2	8291.578	11.74	37.88	55.64	52.63	46.61	74.00	-27.39	peak
3	8778.277	12.22	38.50	55.20	52.50	48.02	68.20	-20.18	peak
4	10440.000	13.63	39.04	53.84	48.87	47.70	68.20	-20.50	peak
5	15660.000	17.23	38.56	54.10	47.20	48.89	74.00	-25.11	peak
	pp16591.430								



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

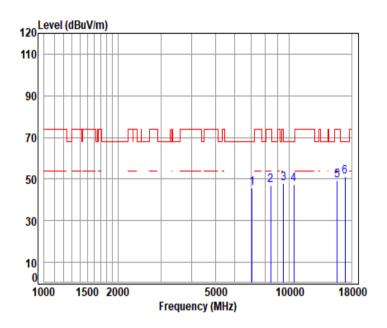


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 34 of 319

11a_TX_CH_48_Horizontal



Condition: 3m HORIZONTAL

Job No : 00078WM

Mode : 5240 TX RSE

: 5G Wi-Fi 11a

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7066.214	11.78	36.33	56.65	53.99	45.45	68.20	-22.75	peak
2	8427.813	11.82	38.49	55.51	52.14	46.94	74.00	-27.06	peak
3	9494.476	12.55	38.89	54.55	50.90	47.79	74.00	-26.21	peak
4	10480.000	13.64	39.08	53.81	48.32	47.23	68.20	-20.97	peak
5	15720.000	17.22	38.58	54.08	47.67	49.39	74.00	-24.61	peak
6	pp16967,410	18.11	39.67	54.29	47.48	50.97	68.20	-17.23	neak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

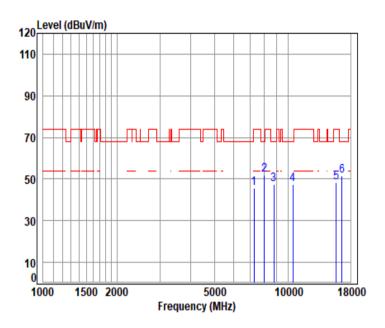


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 35 of 319

11a_TX_CH_48_Vertical



Condition: 3m VERTICAL Job No : 00078WM Mode : 5240 TX RSE

: 5G Wi-Fi 11a

		1 30 112 12 120									
		Cable	Ant	Preamp	Read		Limit	0ver			
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			
1	7278.053	11.51	36.66	56.48	53.86	45.55	74.00	-28.45	peak		
2	pp 7993.045	11.56	37.79	55.91	58.42	51.86	68.20	-16.34	peak		
3	8760.413	12.19	38.50	55.22	51.90	47.37	68.20	-20.83	peak		
4	10480.000	13.64	39.08	53.81	48.65	47.56	68.20	-20.64	peak		
5	15720.000	17.22	38.58	54.08	46.82	48.54	74.00	-25.46	peak		
6	16625.260	17.63	39.25	54.19	48.85	51.54	68.20	-16.66	peak		



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

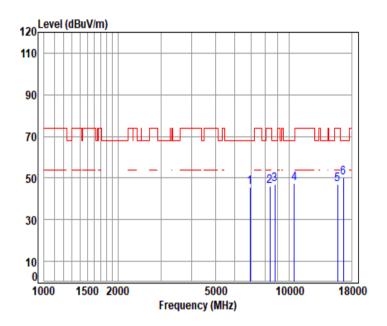


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 36 of 319

11a TX CH 52 Horizontal



Condition: 3m HORIZONTAL

: 00078WM Job No Mode : 5260 TX RSE

: 5G Wi-Fi 11a

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Line Limit Remark Level Level MHz dBuV dBuV/m dBuV/m dB dB/m dB 6944.911 11.37 36.11 56.71 54.95 45.72 68.20 -22.48 peak 8342.406 11.70 38.58 55.59 51.47 46.16 74.00 -27.84 peak 2 8769.341 12.20 38.50 55.21 51.53 47.02 68.20 -21.18 peak 10520.000 13.63 39.14 53.79 48.26 47.24 68.20 -20.96 peak 15780.000 17.08 38.52 54.07 45.62 47.15 74.00 -26.85 peak 6 pp16710.150 17.58 39.42 54.21 47.57 50.36 68.20 -17.84 peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

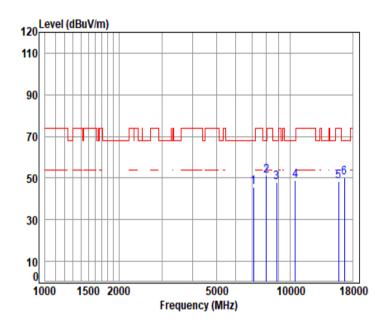


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 37 of 319

11a_TX_CH_52_Vertical



Condition: 3m VERTICAL Job No : 00078WM Mode : 5260 TX RSE

: 5G Wi-Fi 11a

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7087.840	11.91	36.38	56.63	53.95	45.61	68.20	-22.59	peak
2	pp 8001.191	11.56	37.80	55.90	57.72	51.18	68.20	-17.02	peak
3	8823.098	12.24	38.50	55.16	52.37	47.95	68.20	-20.25	peak
4	10520.000	13.63	39.14	53.79	49.63	48.61	68.20	-19.59	peak
5	15780.000	17.08	38.52	54.07	46.88	48.41	74.00	-25.59	peak
6	16659.160	17.61	39.32	54.20	47.48	50.21	68.20	-17.99	peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

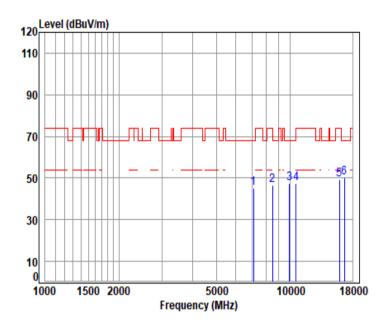


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 38 of 319

11a TX CH 60 Horizontal



Condition: 3m HORIZONTAL

: 00078WM Job No Mode : 5300 TX RSE

: 5G Wi-Fi 11a

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Limit Remark Level Level Line MHz dBuV dBuV/m dBuV/m dB dB/m dB 7095.063 11.96 36.39 56.62 53.26 44.99 68.20 -23.21 peak 8470.845 12.11 38.36 55.48 51.52 46.51 74.00 -27.49 peak 2 9949.918 12.90 38.90 54.15 49.98 47.63 68.20 -20.57 peak 10600.000 13.59 39.30 53.74 48.13 47.28 68.20 -20.92 peak 15900.000 17.28 38.70 54.03 47.51 49.46 74.00 -24.54 peak 6 pp16710.150 17.58 39.42 54.21 47.62 50.41 68.20 -17.79 peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com Member of the SGS Group (SGS SA)

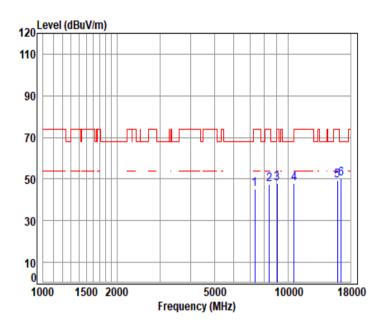


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 39 of 319

11a_TX_CH_60_Vertical



Condition: 3m VERTICAL Job No : 00078WM Mode : 5300 TX RSE

: 5G Wi-Fi 11a

	. 50		110						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7322.668	11.51	36.75	56.44	53.18	45.00	74.00	-29.00	peak
2	8385.002	11.65	38.63	55.55	52.80	47.53	74.00	-26.47	peak
3	9013.856	12.15	38.60	54.99	52.08	47.84	74.00	-26.16	peak
4	10600.000	13.59	39.30	53.74	48.58	47.73	68.20	-20.47	peak
5	15900.000	17.28	38.70	54.03	47.41	49.36	74.00	-24.64	peak
6	pp16473.550	17.59	38.87	54.14	47.96	50.28	68.20	-17.92	peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

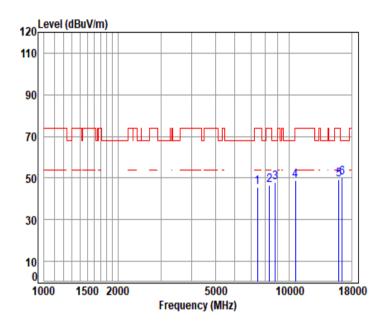


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 40 of 319

11a_TX_CH_64_Horizontal



Condition: 3m HORIZONTAL

Job No : 00078WM

Mode : 5320 TX RSE

: 5G Wi-Fi 11a

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7442.985	11.38	36.79	56.35	53.89	45.71	74.00	-28.29	peak
2	8308.486	11.75	38.04	55.62	52.48	46.65	74.00	-27.35	peak
3	8787.224	12.23	38.50	55.19	52.22	47.76	68.20	-20.44	peak
4	10640.000	13.77	39.34	53.72	49.26	48.65	74.00	-25.35	peak
5	15960.000	17.20	38.64	54.01	47.65	49.48	74.00	-24.52	peak
6	pp16456, 780	17.49	38.86	54.14	48.16	50.37	68.20	-17.83	neak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

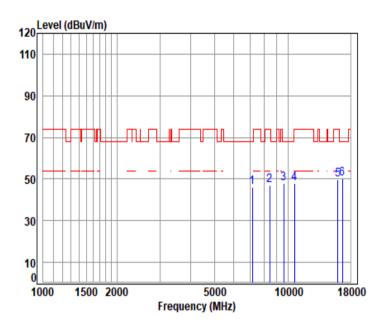


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 41 of 319

11a_TX_CH_64_Vertical



Condition: 3m VERTICAL Job No : 00078WM Mode : 5320 TX RSE

: 5G Wi-Fi 11a

	. 50	***	110						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7153.113	11.74	36.51	56.58	54.47	46.14	68.20	-22.06	peak
2	8427.813	11.82	38.49	55.51	52.36	47.16	74.00	-26.84	peak
3	9611.236	12.46	38.78	54.45	51.12	47.91	68.20	-20.29	peak
4	10640.000	13.77	39.34	53.72	48.30	47.69	74.00	-26.31	peak
5	15960.000	17.20	38.64	54.01	47.99	49.82	74.00	-24.18	peak
6	pp16710.150	17.58	39.42	54.21	47.45	50.24	68.20	-17.96	peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

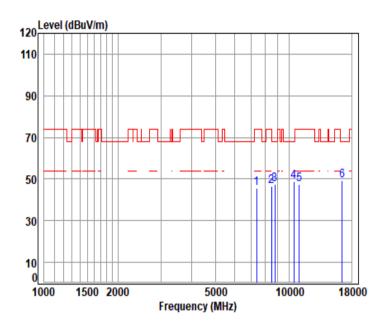


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 42 of 319

11a_TX_CH_100_Horizontal



Condition: 3m HORIZONTAL

Job No : 00078WM Mode

: 5500 TX RSE

: 5G Wi-Fi 11a

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7367.558	11.50	36.76	56.41	53.76	45.61	74.00	-28.39	peak
2	8479.478	12.17	38.34	55.47	51.55	46.59	74.00	-27.41	peak
3	8769.341	12.20	38.50	55.21	52.15	47.64	68.20	-20.56	peak
4	10459.120	13.63	39.06	53.82	50.13	49.00	68.20	-19.20	peak
5	11000.000	14.17	39.40	53.50	47.55	47.62	74.00	-26.38	peak
6	pp16500.000	17.74	38.90	54.15	46.83	49.32	68.20	-18.88	peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

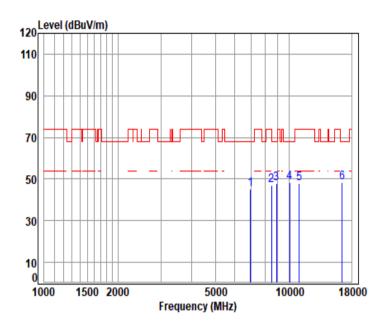


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 43 of 319

11a_TX_CH_100_Vertical



Condition: 3m VERTICAL Job No : 00078WM Mode : 5500 TX RSE

: 5G Wi-Fi 11a

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6966.166	11.37	36.13	56.71	54.20	44.99	68.20	-23.21	peak
2	8496.769	12.29	38.31	55.45	51.76	46.91	74.00	-27.09	peak
3	8904.353	12.22	38.59	55.09	52.34	48.06	68.20	-20.14	peak
4	10082.540	13.22	39.07	54.05	49.96	48.20	68.20	-20.00	peak
5	11000.000	14.17	39.40	53.50	47.95	48.02	74.00	-25.98	peak
	pp16500.000								•



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

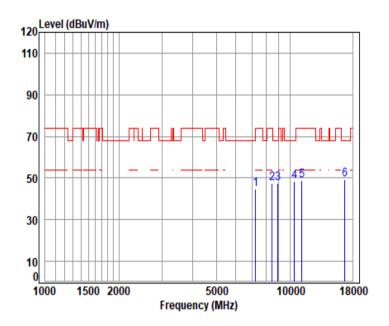


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 44 of 319

11a_TX_CH_116_Horizontal



Condition: 3m HORIZONTAL

Job No : 00078WM

Mode : 5580 TX RSE

: 5G Wi-Fi 11a

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	——dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	dB	
						-	-		
1	7226.345	11.52	36.60	56.52	53.20	44.80	68.20	-23.40	peak
2	8445.000	11.94	38.42	55.50	52.41	47.27	74.00	-26.73	peak
3	8940.705	12.19	38.52	55.05	51.58	47.24	68.20	-20.96	peak
4	10416.590	13.62	39.02	53.85	49.75	48.54	68.20	-19.66	peak
5	11160.000	14.72	39.56	53.55	48.04	48.77	74.00	-25.23	peak
6	pp16740.000	17.54	39.48	54.22	46.51	49.31	68.20	-18.89	peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

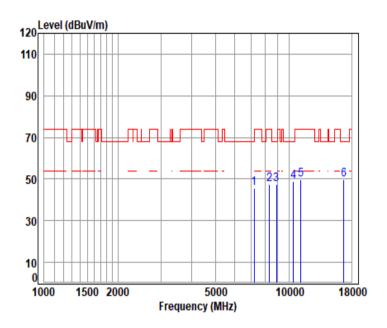


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 45 of 319

11a_TX_CH_116_Vertical



Condition: 3m VERTICAL Job No : 00078WM Mode : 5580 TX RSE

: 5G Wi-Fi 11a

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7196.963	11.53	36.59	56.54	54.18	45.76	68.20	-22.44	peak
2	8325.429	11.73	38.31	55.61	52.88	47.31	74.00	-26.69	peak
3	8886.231	12.22	38.57	55.10	51.65	47.34	68.20	-20.86	peak
4	10416.590	13.62	39.02	53.85	50.16	48.95	68.20	-19.25	peak
5	11160.000	14.72	39.56	53.55	49.09	49.82	74.00	-24.18	peak
	pp16740.000								



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

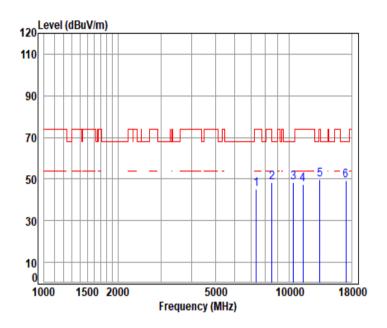


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 46 of 319

11a_TX_CH_140_Horizontal



Condition: 3m HORIZONTAL

Job No : 00078WM Mode : 5700 TX RSE

: 5G Wi-Fi 11a

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	7352.564	11.50	36.79	56.42	53.36	45.23	74.00	-28.77	peak
2	8531.458	12.20	38.30	55.42	53.46	48.54	68.20	-19.66	peak
3	10437.830	13.63	39.04	53.84	49.38	48.21	68.20	-19.99	peak
4	11400.000	14.21	39.70	53.62	47.30	47.59	74.00	-26.41	peak
5	13369.140	16.10	40.30	54.46	47.82	49.76	74.00	-24.24	Peak
6	pp17100_000	18.47	39.80	54.32	45.22	49.17	68.20	-19.03	neak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

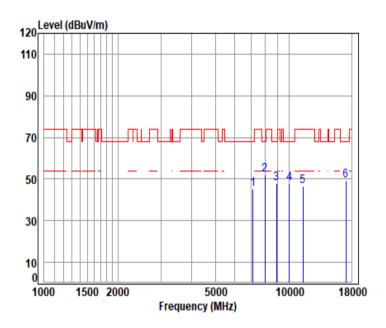


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 47 of 319

11a_TX_CH_140_Vertical



Condition: 3m VERTICAL Job No : 00078WM Mode : 5700 TX RSE

: 5G Wi-Fi 11a

	. 50	***	110						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7124.029	11.88	36.45	56.60	53.28	45.01	68.20	-23.19	peak
2	pp 7984.908	11.56	37.77	55.91	58.44	51.86	68.20	-16.34	peak
3	8904.353	12.22	38.59	55.09	52.39	48.11	68.20	-20.09	peak
4	10010.910	13.04	38.92	54.09	50.24	48.11	68.20	-20.09	peak
5	11400.000	14.21	39.70	53.62	46.36	46.65	74.00	-27.35	peak
6	17100.000	18.47	39.80	54.32	45.38	49.33	68.20	-18.87	peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

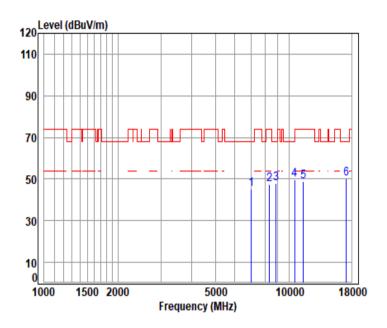


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 48 of 319

11a_Straddle_TX_CH_144_Horizontal



Condition: 3m HORIZONTAL

Job No : 00078WM Mode : 5720 TX RSE

: 5G Wi-Fi 11a

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7016.012	11.47	36.23	56.69	54.37	45.38	68.20	-22.82	peak
2	8333.913	11.72	38.44	55.60	52.89	47.45	74.00	-26.55	peak
3	8850.100	12.23	38.50	55.13	52.12	47.72	68.20	-20.48	peak
4	10544.690	13.62	39.19	53.77	50.54	49.58	68.20	-18.62	peak
5	11440.000	14.55	39.66	53.63	48.20	48.78	74.00	-25.22	peak
6	pp17160.000	18.08	39.86	54.33	46.48	50.09	68.20	-18.11	neak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

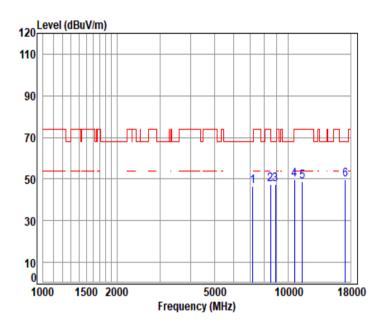


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 49 of 319

11a_Straddle_TX_CH_144_Vertical



Condition: 3m VERTICAL Job No : 00078WM Mode : 5720 TX RSE

: 5G Wi-Fi 11a

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7182.317	11 60	36 56	56 55	5/1 72	16 33	68 20	21 97	noak
	8479.478								
	8877.185								•
4	10620.150	13.68	39.32	53.73	50.26	49.53	74.00	-24.47	peak
5	11440.000	14.55	39.66	53.63	48.04	48.62	74.00	-25.38	peak
6	pp17160.000	18.08	39.86	54.33	46.02	49.63	68.20	-18.57	peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

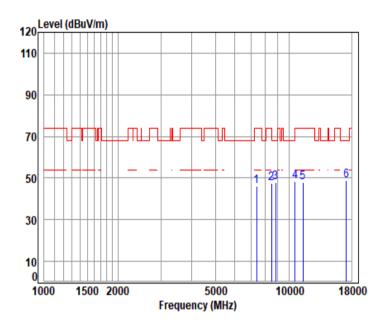


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 50 of 319

11n_40M_Straddle_TX_CH_142_Horizontal



Condition: 3m HORIZONTAL

: 00078WM Job No Mode : 5710 TX RSE

: 5G Wi-Fi 11n40

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Limit Remark Level Level Line dBuV dBuV/m dBuV/m MHz dB dB/m dB 7390.105 11.50 36.72 56.39 54.15 45.98 74.00 -28.02 peak 12.17 38.34 55.47 52.39 2 8479.478 47.43 74.00 -26.57 peak 8823.098 12.24 38.50 55.16 52.11 47.69 68.20 -20.51 peak 10587.740 13.60 39.28 53.75 49.34 48.47 68.20 -19.73 peak 5 11420.000 14.38 39.68 53.63 47.28 47.71 74.00 -26.29 peak 6 pp17130.000 18.27 39.83 54.33 45.09 48.86 68.20 -19.34 peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

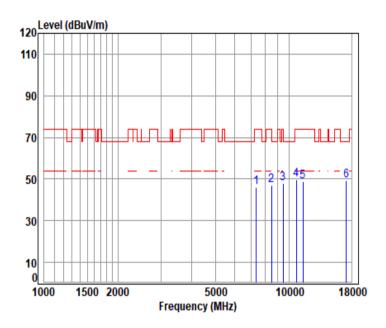


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 51 of 319

11n_40M_Straddle_TX_CH_142_Vertical



Condition: 3m VERTICAL Job No : 00078WM Mode : 5710 TX RSE

: 5G Wi-Fi 11n40

	. 50	***	111110						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7337.601	11.51	36.78	56.43	54.23	46.09	74.00	-27.91	peak
2	8496.769	12.29	38.31	55.45	51.99	47.14	74.00	-26.86	peak
3	9475.153	12.50	38.85	54.57	50.95	47.73	74.00	-26.27	peak
4	10696.140	14.02	39.40	53.68	50.19	49.93	74.00	-24.07	peak
5	11420.000	14.38	39.68	53.63	48.33	48.76	74.00	-25.24	peak
6	pp17130.000	18.27	39.83	54.33	45.54	49.31	68.20	-18.89	peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com Member of the SGS Group (SGS SA)

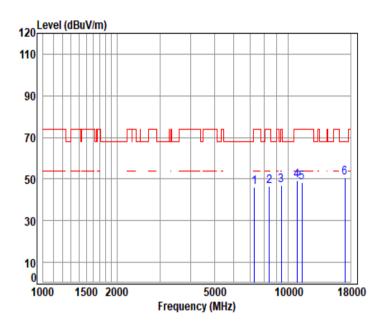


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 52 of 319

11ac_80M_Straddle_TX_CH_138_Horizontal



Condition: 3m HORIZONTAL

: 00078WM Job No Mode : 5690 TX RSE

: 5G Wi-Fi 11ac80

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Limit Remark Level Level Line dBuV dBuV/m dBuV/m MHz dB dB/m dB 7292.895 11.51 36.69 56.47 54.14 45.87 74.00 -28.13 peak 8393.547 11.64 38.61 55.55 52.01 74.00 -27.29 peak 2 46.71 9379.132 12.27 38.80 54.66 50.52 46.93 74.00 -27.07 Peak 10871.880 13.88 39.30 53.58 49.45 49.05 74.00 -24.95 peak 11380.000 14.30 39.70 53.61 48.18 48.57 74.00 -25.43 peak 6 pp17070.000 18.35 39.77 54.31 46.82 50.63 68.20 -17.57 peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

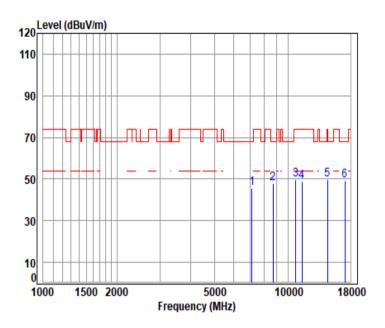


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 53 of 319

11ac_80M_Straddle_TX_CH_138_Vertical



Condition: 3m VERTICAL Job No : 00078WM Mode : 5690 TX RSE

: 5G Wi-Fi 11ac80

	. 50	***	11000						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7138.557	11.81	36.48	56.59	53.83	45.53	68.20	-22.67	peak
2	8680.473	12.06	38.52	55.29	52.46	47.75	68.20	-20.45	peak
3	10750.750	13.86	39.35	53.65	50.14	49.70	74.00	-24.30	peak
4	11380.000	14.30	39.70	53.61	48.60	48.99	74.00	-25.01	peak
5	pp14504.150	17.05	39.49	54.35	47.63	49.82	68.20	-18.38	Peak
6	17070.000	18.35	39.77	54.31	45.49	49.30	68.20	-18.90	peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com Member of the SGS Group (SGS SA)

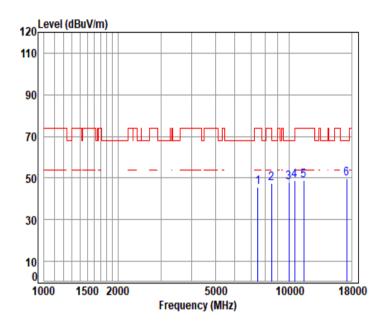


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 54 of 319

11a_TX_CH_149_Horizontal



Condition: 3m HORIZONTAL

: 00078WM Job No Mode : 5745 TX RSE

: 5.8G Wi-Fi 11a

Ant Preamp Limit 0ver Read Loss Factor Factor Limit Remark Level Level Line MHz dBuV dBuV/m dBuV/m dB dB/m dB 7465.763 11.32 36.80 56.33 53.87 45.66 74.00 -28.34 peak 8496.769 12.29 38.31 55.45 52.46 47.61 74.00 -26.39 peak 10000.720 13.01 38.90 54.10 50.02 47.83 68.20 -20.37 peak 10544.690 13.62 39.19 53.77 49.72 48.76 68.20 -19.44 peak 11490.000 14.97 39.61 53.65 47.75 48.68 74.00 -25.32 peak

6 pp17235.000 17.83 40.01 54.35 46.09 49.58 68.20 -18.62 peak



2

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

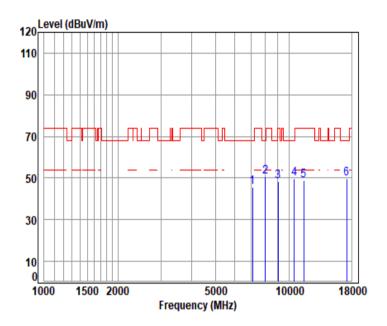


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 55 of 319

11a_TX_CH_149_Vertical



Condition: 3m VERTICAL : 00078WM Job No Mode : 5745 TX RSE

: 5.8G Wi-Fi 11a

Ant Preamp Limit 0ver Read Loss Factor Factor Limit Remark Level Level Line dBuV dBuV/m dBuV/m MHz dB dB/m dB 7095.063 11.96 36.39 56.62 53.87 45.60 68.20 -22.60 peak 68.20 -17.35 peak 2 pp 7993.045 11.56 37.79 55.91 57.41 50.85 9032.237 12.14 38.60 54.97 52.50 48.27 74.00 -25.73 peak 4 10523.230 13.63 39.15 53.79 50.53 49.52 68.20 -18.68 peak 5 11490.000 14.97 39.61 53.65 47.92 48.85 74.00 -25.15 peak 17235.000 17.83 40.01 54.35 46.40 49.89 68.20 -18.31 peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

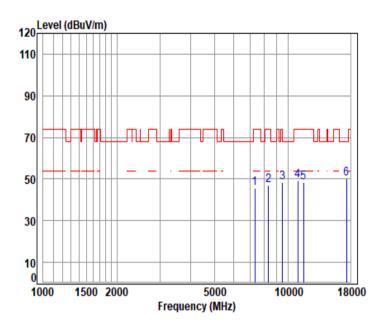


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 56 of 319

11a_TX_CH_157_Horizontal



Condition: 3m HORIZONTAL

Job No : 00078WM

Mode : 5785 TX RSE

: 5.8G Wi-Fi 11a

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7315.214	11.51	36.73	56.45	53.72	45.51	74.00	-28.49	peak
	8333.913								•
3	9513.836	12.54	38.87	54.54	51.50	48.37	68.20	-19.83	peak
4	10983.190	14.13	39.38	53.51	49.22	49.22	74.00	-24.78	peak
5	11570.000	14.78	39.60	53.67	47.52	48.23	74.00	-25.77	peak
6	pp17355,000	18.00	40.31	54.37	46.31	50.25	68.20	-17.95	peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

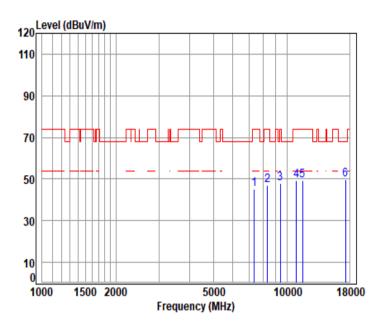


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 57 of 319

11a_TX_CH_157_Vertical



Condition: 3m VERTICAL : 00078WM Job No Mode : 5785 TX RSE

: 5.8G Wi-Fi 11a

Ant Preamp Limit 0ver Read Loss Factor Factor Limit Remark Level Level Line dBuV dBuV/m dBuV/m MHz dB dB/m dB 7337.601 11.51 36.78 56.43 53.52 45.38 74.00 -28.62 peak 8333.913 11.72 38.44 55.60 52.54 47.10 74.00 -26.90 peak 2 9369.584 12.26 38.80 54.67 51.51 47.90 74.00 -26.10 peak 10938.530 14.04 39.34 53.54 49.23 49.07 74.00 -24.93 peak 11570.000 14.78 39.60 53.67 48.54 49.25 74.00 -24.75 peak 6 pp17355.000 18.00 40.31 54.37 45.84 49.78 68.20 -18.42 peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

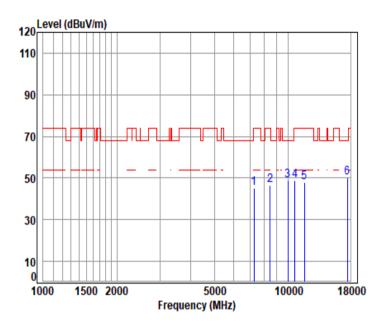


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 58 of 319

11a_TX_CH_165_Horizontal



Condition: 3m HORIZONTAL

: 00078WM Job No Mode : 5825 TX RSE

: 5.8G Wi-Fi 11a

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Limit Remark Level Level Line MHz dBuV dBuV/m dBuV/m dB dB/m dB 7278.053 11.51 36.66 56.48 53.32 45.01 74.00 -28.99 peak 8462.222 12.05 38.38 55.48 51.57 46.52 74.00 -27.48 peak 2 9970.208 12.95 38.90 54.13 50.89 48.61 68.20 -19.59 peak 10652.650 13.83 39.35 53.71 49.24 48.71 74.00 -25.29 peak 11650.000 14.69 39.55 53.69 47.22 47.77 74.00 -26.23 peak 6 pp17475.000 18.35 40.78 54.40 45.67 50.40 68.20 -17.80 peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

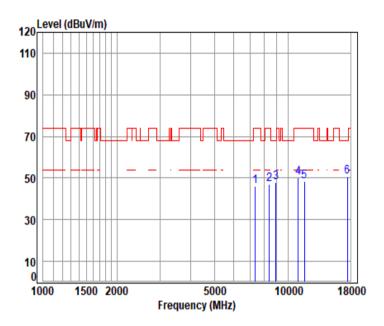


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 59 of 319

11a_TX_CH_165_Vertical



Condition: 3m VERTICAL Job No : 00078WM Mode : 5825 TX RSE

: 5.8G Wi-Fi 11a

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
4	7245 070	44 54	26.70	FC 42	F4 46	46.04	74.00	27.06	
1	7345.079	11.51	36.79	56.42	54.16	46.04	74.00	-27.96	реак
2	8376.465	11.66	38.65	55.56	52.37	47.12	74.00	-26.88	peak
3	8922.510	12.20	38.55	55.07	52.43	48.11	68.20	-20.09	peak
4	10994.380	14.16	39.39	53.50	49.92	49.97	74.00	-24.03	peak
5	11650.000	14.69	39.55	53.69	47.66	48.21	74.00	-25.79	peak
6	pp17475.000	18.35	40.78	54.40	46.09	50.82	68.20	-17.38	peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com Member of the SGS Group (SGS SA)



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 60 of 319

7.5 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: ANSI C63.10 (2013) Section 6.10.5

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)							
0.009-0.490	2400/F(kHz)	300							
0.490-1.705	24000/F(kHz)	30							
1.705-30.0	30	30							
30-88	100	3							
88-216	150	3							
216-960	200	3							
Above 960	500	3							

^{*(1)} For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
- (i) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge. and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.6 °C Humidity: 50.3 % RH Atmospheric Pressure: 1020 mbar



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn



SZEMC-TRF-01 Rev. A/1

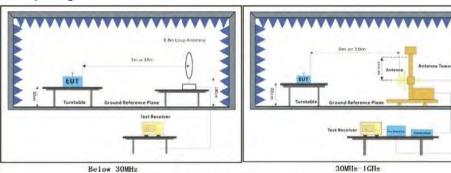
Report No.: SZCR250100007806

Page: 61 of 319

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	14	Charge + TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	15	Charge + TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	16	Charge + TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	17	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram



Above 1GHz



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057

t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250100007806

> Page: 62 of 319

7.5.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.
- Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- Remark 2.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- Remark 3. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥1/T (Duty cycle<98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's indings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com").

t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

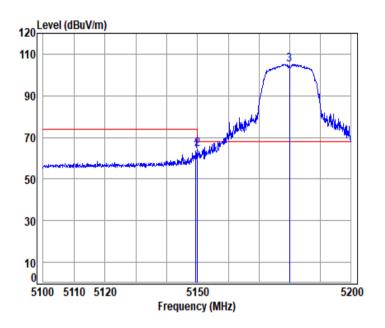


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

63 of 319 Page:

11a_TX_CH_36_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 00078WM

Mode : 5180 Band edge

: 5G Wi-Fi 11a

			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	_										
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1		5149.357	10.14	32.40	30.84	51.52	63.22	74.00	-10.78	peak	
2		5149.980	10.14	32.40	30.84	52.44	64.14	74.00	-9.86	peak	
3	pp	5180.000	10.25	32.46	30.83	93.27	105.15	68.20	36.95	peak	



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of ilability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery 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@ss.com"

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

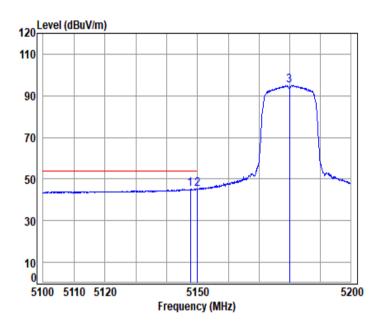


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 64 of 319

11a_TX_CH_36_Horizontal-Avg



Condition: 3m HORIZONTAL

: 00078WM Job No

> 1 2

Mode : 5180 Band edge

: 5G Wi-Fi 11a

	Freq			Preamp Factor					Remark	
Ī	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	5147.658	10.13	32.40	30.84	33.47	45.16	54.00	-8.84	Average	
pp	5149.980	10.14	32.40	30.84	33.60	45.30	54.00	-8.70	Average	
	5180.000	10.25	32.46	30.83	83.02	94.90			Average	



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

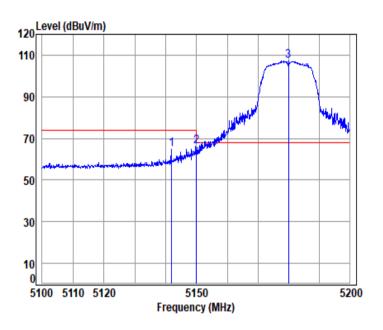


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 65 of 319

11a_TX_CH_36_Vertical-Peak



Condition: 3m VERTICAL Job No : 00078WM

Mode : 5180 Band edge

: 5G Wi-Fi 11a

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Line Limit Remark Level Level MHz dBuV dBuV/m dBuV/m dB dB/m dB dB 5141.863 10.11 32.38 30.84 53.28 64.93 74.00 -9.07 Peak 5149.980 10.14 32.40 30.84 54.27 65.97 74.00 -8.03 Peak 3 pp 5180.000 10.25 32.46 30.83 95.34 107.22 68.20 39.02 Peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057

t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

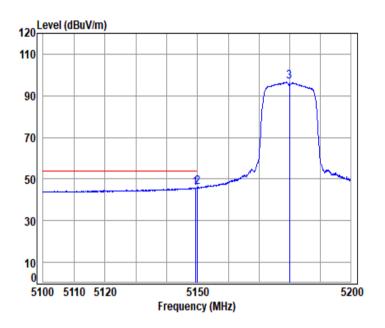


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 66 of 319

11a_TX_CH_36_Vertical-Avg



Condition: 3m VERTICAL Job No : 00078WM

Mode : 5180 Band edge

: 5G Wi-Fi 11a

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Line Limit Remark Level Level dBuV dBuV/m dBuV/m MHz dB dB/m dB dB 5149.257 10.14 32.40 30.84 34.05 45.75 54.00 -8.25 Average 2 pp 5149.980 10.14 32.40 30.84 34.24 45.94 54.00 -8.06 Average 5180.000 10.25 32.46 30.83 84.66 96.54 ----- Average



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

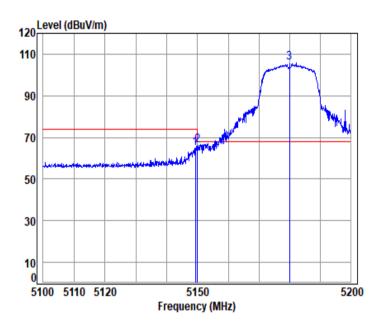


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 67 of 319

11n_HT(20M)_TX_CH_36_Horizontal-Peak



Condition: 3m HORIZONTAL

: 00078WM Job No

Mode : 5180 Band edge

: 5G Wi-Fi 11n20

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.257	10.14	32.40	30.84	53.26	64.96	74.00	-9.04	peak
2	5149.980	10.14	32.40	30.84	54.47	66.17	74.00	-7.83	peak
3 nn	5180 000	10 25	32 46	30 83	93 95	105 83	68 20	37 63	neak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

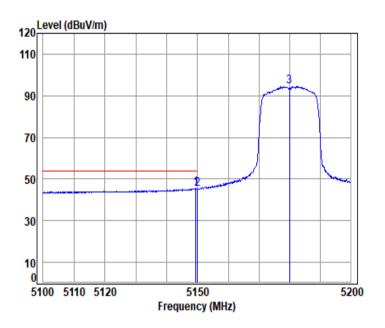


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 68 of 319

11n_HT(20M)_TX_CH_36_Horizontal-Avg



Condition: 3m HORIZONTAL

: 00078WM Job No

> 1 2

Mode : 5180 Band edge

: 5G Wi-Fi 11n20

		Freq			Preamp Factor					Remark	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
L	рр	5149.357	10.14	32.40	30.84	33.78	45.48	54.00	-8.52	Average	
2		5149.980	10.14	32.40	30.84	33.64	45.34	54.00	-8.66	Average	
3		5180.000	10.25	32.46	30.83	82.53	94.41			Average	



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

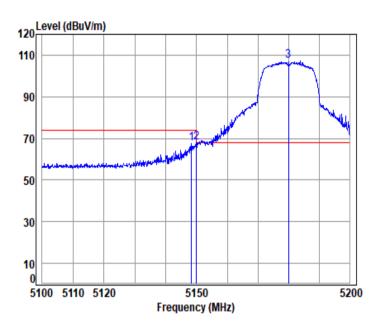


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 69 of 319

11n_HT(20M)_TX_CH_36_Vertical-Peak



Condition: 3m VERTICAL : 00078WM Job No

Mode : 5180 Band edge

: 5G Wi-Fi 11n20

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		-								
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
				,						
1		5148.357	10.13	32.40	30.84	55.67	67.36	74.00	-6.64	Peak
2		5149.980	10.14	32.40	30.84	56.30	68.00	74.00	-6.00	Peak
3	pp	5180.000	10.25	32.46	30.83	95.36	107.24	68.20	39.04	Peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

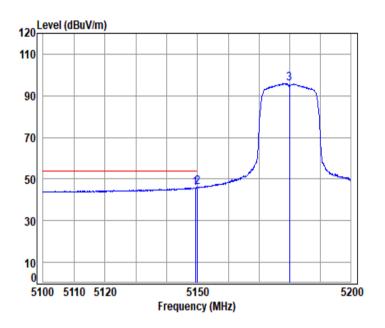


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 70 of 319

11n_HT(20M)_TX_CH_36_Vertical-Avg



Condition: 3m VERTICAL : 00078WM Job No

Mode : 5180 Band edge

: 5G Wi-Fi 11n20

		Freq			Preamp Factor					Remark	
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
L		5149.257	10.14	32.40	30.84	34.07	45.77	54.00	-8.23	Average	
2	pp	5149.980	10.14	32.40	30.84	34.36	46.06	54.00	-7.94	Average	
3		5180.000	10.25	32.46	30.83	84.09	95.97			Average	



1 2

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

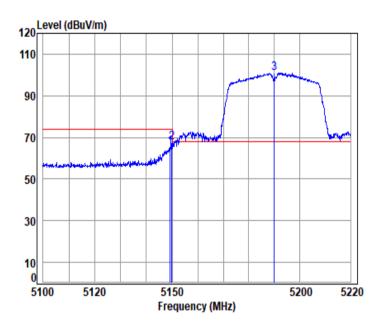


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 71 of 319

11n_HT(40M)_TX_CH_38_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 00078WM

Mode : 5190 Band edge

: 5G Wi-Fi 11n40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	5149.222 5149.980 5190.000	10.14	32.40	30.84	55.69	67.39	74.00	-6.61	peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

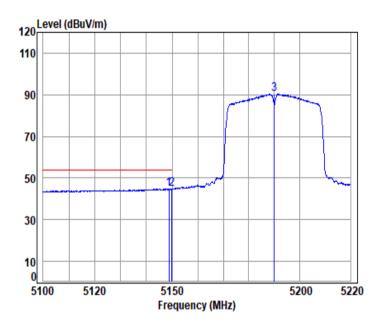


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 72 of 319

11n_HT(40M)_TX_CH_38_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 00078WM

> 1 2

Mode : 5190 Band edge

: 5G Wi-Fi 11n40

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
. pp	5148.743	10.14	32.40	30.84	33.11	44.81	54.00	-9.19	Average	
	5149.980	10.14	32.40	30.84	33.08	44.78	54.00	-9.22	Average	
	5190.000	10.29	32.48	30.82	78.36	90.31			Average	



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

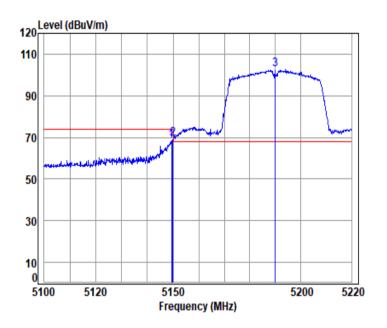


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 73 of 319

11n_HT(40M)_TX_CH_38_Vertical-Peak



Condition: 3m VERTICAL : 00078WM Job No

Mode : 5190 Band edge

: 5G Wi-Fi 11n40

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.461	10.14	32.40	30.84	56.72	68.42	74.00	-5.58	Peak
2	5149.980	10.14	32.40	30.84	57.84	69.54	74.00	-4.46	Peak
3 nn	5190 000	10 29	32 48	30 82	90 57	102 52	68 20	34 32	Peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

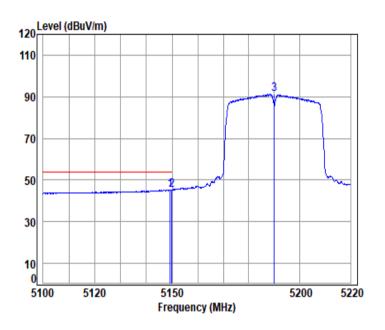


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 74 of 319

11n_HT(40M)_TX_CH_38_Vertical-Avg



Condition: 3m VERTICAL Job No : 00078WM

Mode : 5190 Band edge

: 5G Wi-Fi 11n40

		Freq			Preamp Factor					Remark	
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
L	рр	5149.342	10.14	32.40	30.84	33.68	45.38	54.00	-8.62	Average	
2		5149.980	10.14	32.40	30.84	33.62	45.32	54.00	-8.68	Average	
3		5190.000	10.29	32.48	30.82	79.17	91.12			Average	



1 2

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

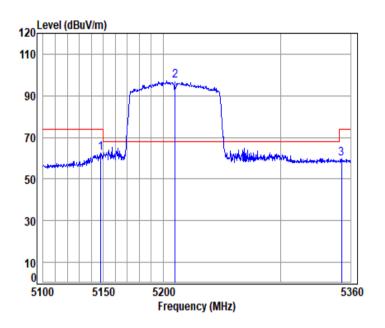


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 75 of 319

11ac_VHT(80M)_TX_CH_42_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 00078WM

> 1 2

Mode : 5210 Band edge

: 5G Wi-Fi 11ac80

	: 56	W1-F1	TTacon						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5147.643	10.13	32.40	30.84	50.65	62.34	74.00	-11.66	peak
pp	5210.000	10.32	32.52	30.82	85.06	97.08	68.20	28.88	peak
	5352.276	10.46	32.80	30.76	47.50	60.00	74.00	-14.00	peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

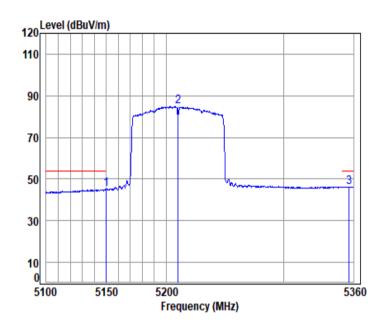


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 76 of 319

11ac_VHT(80M)_TX_CH_42_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 00078WM

1 2

Mode : 5210 Band edge

: 5G Wi-Fi 11ac80

	Freq			Preamp Factor					Remark	
Ī	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	5149.690	10.14	32.40	30.84	33.58	45.28	54.00	-8.72	Average	
	5210.000	10.32	32.52	30.82	72.77	84.79			Average	
pp	5356.270	10.47	32.80	30.76	33.77	46.28	54.00	-7.72	Average	



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

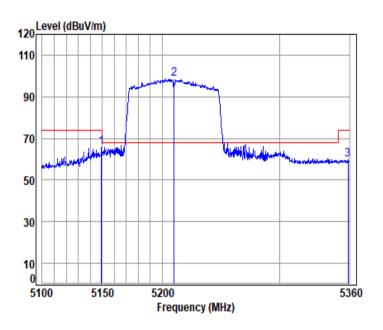


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 77 of 319

11ac_VHT(80M)_TX_CH_42_Vertical-Peak



Condition: 3m VERTICAL Job No : 00078WM

Mode : 5210 Band edge

: 5G Wi-Fi 11ac80

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Level Level dBuV dBuV/m dBuV/m MHz dB dB/m dB 5149.178 10.14 32.40 30.84 53.91 65.61 74.00 -8.39 Peak 2 pp 5210.000 10.32 32.52 30.82 86.57 98.59 68.20 30.39 Peak 5358.667 10.48 32.80 30.76 47.09 59.61 74.00 -14.39 Peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

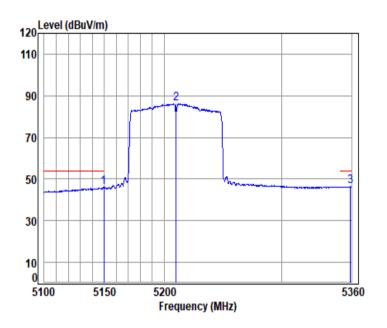


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 78 of 319

11ac_VHT(80M)_TX_CH_42_Vertical-Avg



Condition: 3m VERTICAL : 00078WM Job No

Mode : 5210 Band edge

: 5G Wi-Fi 11ac80

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
L	5149.435	10.14	32.40	30.84	34.54	46.24	54.00	-7.76	Average	
2	5210.000	10.32	32.52	30.82	74.10	86.12			Average	
3	pp 5358.934	10.48	32.80	30.76	33.80	46.32	54.00	-7.68	Average	



1 2

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com Member of the SGS Group (SGS SA)

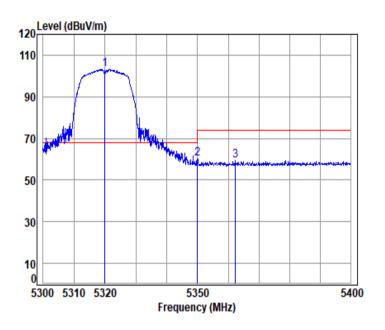


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 79 of 319

11a TX CH 64 Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 00078WM

Mode : 5320 Band edge

: 5G Wi-Fi 11a

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Line Limit Remark Level Level MHz dBuV dBuV/m dBuV/m dB dB/m 1 pp 5320.000 10.35 32.74 30.77 90.80 103.12 68.20 34.92 peak 5350.020 10.45 32.80 30.76 47.82 60.31 74.00 -13.69 peak 5362.381 10.49 32.80 30.76 46.61 59.14 74.00 -14.86 peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

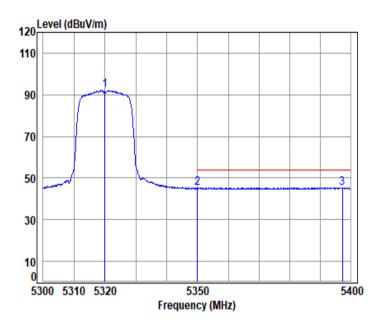


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 80 of 319

11a_TX_CH_64_Horizontal-Avg



Condition: 3m HORIZONTAL

: 00078WM Job No

Mode : 5320 Band edge

: 5G Wi-Fi 11a

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	5320.000 5350.020 5397.376	10.45	32.80	30.76	32.69	45.18	54.00	-8.82	Average



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

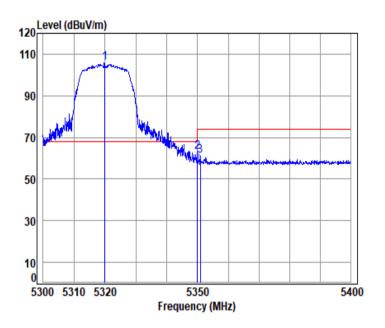


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 81 of 319

11a_TX_CH_64_Vertical-Peak



Condition: 3m VERTICAL Job No : 00078WM

Mode : 5320 Band edge

: 5G Wi-Fi 11a

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Line Limit Remark Level Level MHz dBuV dBuV/m dBuV/m dB dB/m 1 pp 5320.000 10.35 32.74 30.77 93.59 105.91 68.20 37.71 Peak 5350.020 10.45 32.80 30.76 50.55 63.04 74.00 -10.96 Peak 5350.866 10.45 32.80 30.76 48.53 61.02 74.00 -12.98 Peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

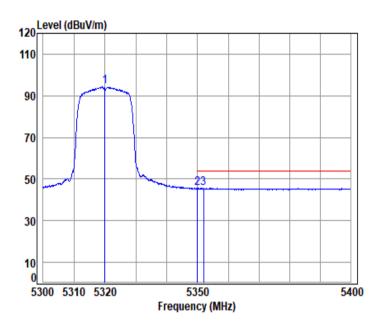


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 82 of 319

11a_TX_CH_64_Vertical-Avg



Condition: 3m VERTICAL Job No : 00078WM

Mode : 5320 Band edge

: 5G Wi-Fi 11a

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Line Limit Remark Level Level MHz dBuV dBuV/m dBuV/m dB dB/m dB 5320.000 10.35 32.74 30.77 81.93 94.25 ----- Average 5350.020 10.45 32.80 30.76 33.01 45.50 54.00 -8.50 Average 3 pp 5351.967 10.46 32.80 30.76 33.03 45.53 54.00 -8.47 Average



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

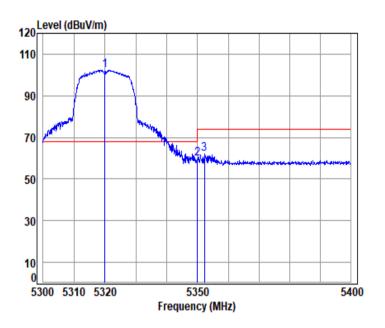


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 83 of 319

11n_HT(20M)_TX_CH_64_Horizontal-Peak



Condition: 3m HORIZONTAL

: 00078WM Job No

> 1 2

Mode : 5320 Band edge

: 5G Wi-Fi 11n20

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
рр	5320.000	10.35	32.74	30.77	90.04	102.36	68.20	34.16	peak
	5350.020	10.45	32.80	30.76	47.34	59.83	74.00	-14.17	peak
	5352.267	10.46	32.80	30.76	49.47	61.97	74.00	-12.03	peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

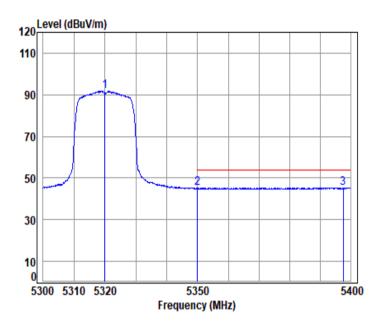


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 84 of 319

11n_HT(20M)_TX_CH_64_Horizontal-Avg



Condition: 3m HORIZONTAL

: 00078WM Job No

Mode : 5320 Band edge

: 5G Wi-Fi 11n20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	10.35	32.74	30.77	79.42	91.74			Average
2	5350.020	10.45	32.80	30.76	32.48	44.97	54.00	-9.03	Average
3 nn	5397 679	10 61	32 80	30 74	32 64	45 31	54 00	-8 69	Average



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

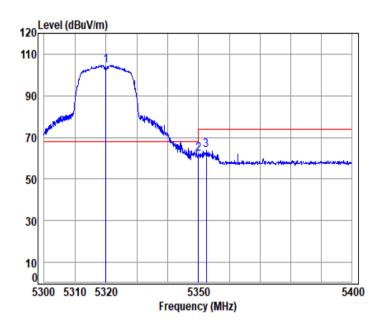


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 85 of 319

11n_HT(20M)_TX_CH_64_Vertical-Peak



Condition: 3m VERTICAL : 00078WM Job No

Mode : 5320 Band edge

: 5G Wi-Fi 11n20

	Freq			Preamp Factor						
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
рр	5320.000	10.35	32.74	30.77	92.26	104.58	68.20	36.38	Peak	
	5350.020	10.45	32.80	30.76	49.58	62.07	74.00	-11.93	Peak	
	5352.467	10.46	32.80	30.76	51.42	63.92	74.00	-10.08	Peak	



1 2

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

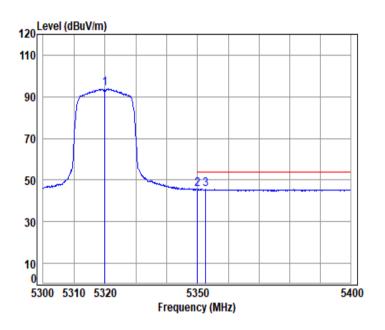


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 86 of 319

11n_HT(20M)_TX_CH_64_Vertical-Avg



Condition: 3m VERTICAL : 00078WM Job No

Mode : 5320 Band edge

: 5G Wi-Fi 11n20

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	10.35	32.74	30.77	81.46	93.78			Average
2	5350.020	10.45	32.80	30.76	33.02	45.51	54.00	-8.49	Average
3 pp	5352.667	10.46	32.80	30.76	33.14	45.64	54.00	-8.36	Average



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

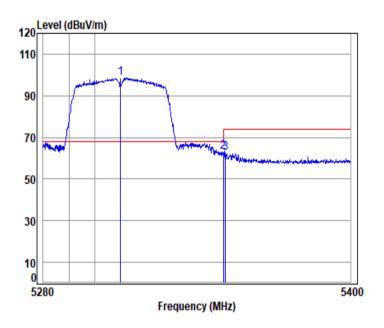


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 87 of 319

11n_HT(40M)_TX_CH_62_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 00078WM

Mode : 5310 Band edge

: 5G Wi-Fi 11n40

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5310.000	10.31	32.72	30.78	86.22	98.47	68.20	30.27	peak
2	5350.020	10.45	32.80	30.76	50.31	62.80	74.00	-11.20	peak
3	5350.834	10.45	32.80	30.76	49.96	62.45	74.00	-11.55	peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

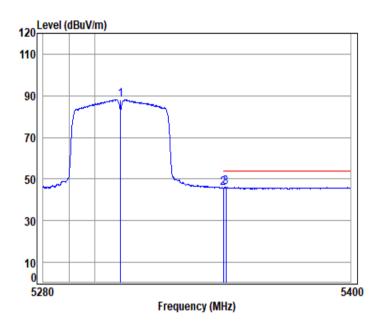


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 88 of 319

11n_HT(40M)_TX_CH_62_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 00078WM

1 2

Mode : 5310 Band edge

: 5G Wi-Fi 11n40

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
L	5310.000	10.31	32.72	30.78	75.89	88.14			Average	
2	5350.020	10.45	32.80	30.76	33.31	45.80	54.00	-8.20	Average	
3	pp 5351.075	10.45	32.80	30.76	33.62	46.11	54.00	-7.89	Average	



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

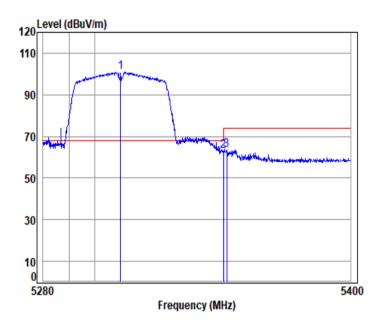


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 89 of 319

11n_HT(40M)_TX_CH_62_Vertical-Peak



Condition: 3m VERTICAL : 00078WM Job No

Mode : 5310 Band edge

: 5G Wi-Fi 11n40

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5310.000	10.31	32.72	30.78	88.50	100.75	68.20	32.55	Peak
2	5350.020	10.45	32.80	30.76	50.58	63.07	74.00	-10.93	Peak
3	5351.315	10.45	32.80	30.76	50.78	63.27	74.00	-10.73	Peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

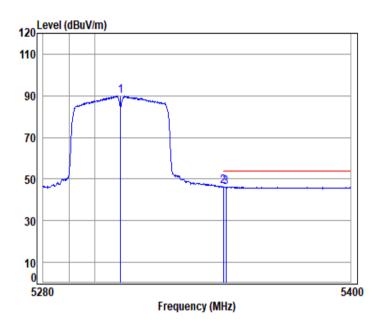


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 90 of 319

11n_HT(40M)_TX_CH_62_Vertical-Avg



Condition: 3m VERTICAL Job No : 00078WM

Mode : 5310 Band edge

: 5G Wi-Fi 11n40

		Freq			Preamp Factor						
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
L		5310.000	10.31	32.72	30.78	77.51	89.76			Average	
2	pp	5350.020	10.45	32.80	30.76	33.88	46.37	54.00	-7.63	Average	
3		5351.075	10.45	32.80	30.76	33.78	46.27	54.00	-7.73	Average	



1 2

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

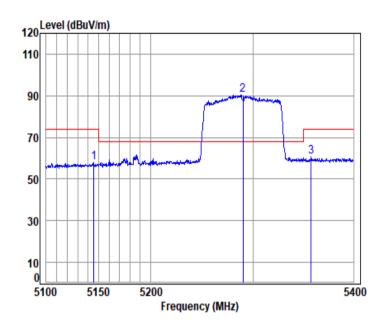


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 91 of 319

11ac_VHT(80M)_TX_CH_58_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 00078WM

> 1 2

Mode : 5290 Band edge

: 5G Wi-Fi 11ac80

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	5145.384	10.12	32.39	30.84	46.08	57.75	74.00	-16.25	peak	
!	pp 5290.000	10.28	32.68	30.78	78.31	90.49	68.20	22.29	peak	
	5357.573	10.48	32.80	30.76	47.96	60.48	74.00	-13.52	peak	



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

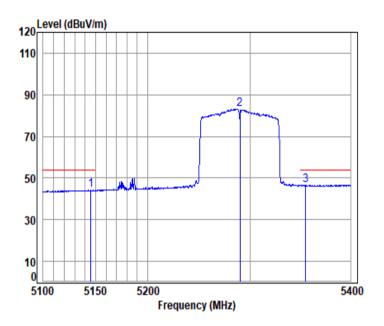


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 92 of 319

11ac_VHT(80M)_TX_CH_58_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 00078WM

> 1 2

Mode : 5290 Band edge

: 5G Wi-Fi 11ac80

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	5145.679	10.12	32.39	30.84	32.42	44.09	54.00	-9.91	Average	
	5290.000	10.28	32.68	30.78	70.95	83.13			Average	
pp	5355.124	10.47	32.80	30.76	34.21	46.72	54.00	-7.28	Average	



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

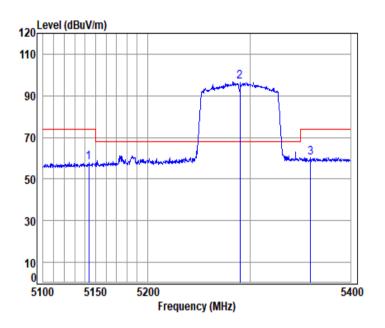


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 93 of 319

11ac_VHT(80M)_TX_CH_58_Vertical-Peak



Condition: 3m VERTICAL : 00078WM Job No

Mode : 5290 Band edge

: 5G Wi-Fi 11ac80

	Freq			Preamp Factor					Remark
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5143.326 5290.000								
	5360 023	10 48	32 80	30 76	47 69	60 21	74 00	-13 79	Peak



1 2

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

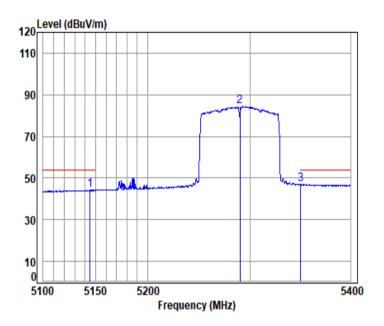


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 94 of 319

11ac_VHT(80M)_TX_CH_58_Vertical-Avg



Condition: 3m VERTICAL Job No : 00078WM

Mode : 5290 Band edge

: 5G Wi-Fi 11ac80

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Level Level MHz dBuV dBuV/m dBuV/m dB dB/m dB 5144.796 10.12 32.39 30.84 32.57 44.24 54.00 -9.76 Average 5290.000 10.28 32.68 30.78 72.16 84.34 ----- Average 3 pp 5350.229 10.45 32.80 30.76 34.62 47.11 54.00 -6.89 Average



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

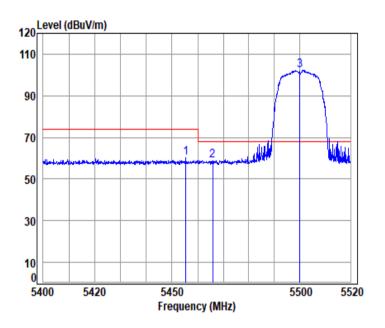


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 95 of 319

11a_TX_CH_100_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 00078WM

Mode : 5500 Band edge

: 5G Wi-Fi 11a

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5455.472 2 5465.914 3 pp 5500.000	10.59	32.90	30.71	46.23	59.01	68.20	-9.19	peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

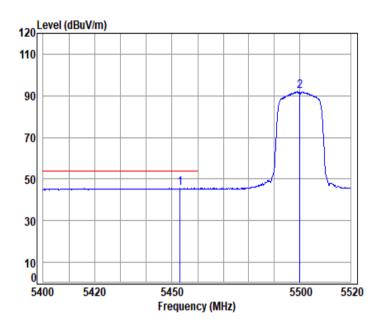


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 96 of 319

11a_TX_CH_100_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 00078WM

Mode : 5500 Band edge

: 5G Wi-Fi 11a

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m dΒ 1 pp 5453.194 10.60 32.90 30.72 32.80 45.58 54.00 -8.42 Average

5500.000 10.58 32.90 30.70 79.19 91.97 ----- Average



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

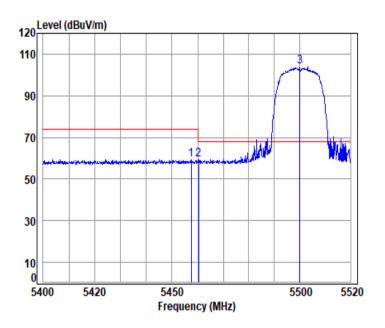


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 97 of 319

11a_TX_CH_100_Vertical-Peak



Condition: 3m VERTICAL : 00078WM Job No

Mode : 5500 Band edge

: 5G Wi-Fi 11a

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		5457.511	10.60	32.90	30.72	46.67	59.45	74.00	-14.55	Peak
2		5460.390	10.60	32.90	30.72	46.63	59.41	68.20	-8.79	peak
3	pp	5500.000	10.58	32.90	30.70	91.15	103.93	68.20	35.73	Peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

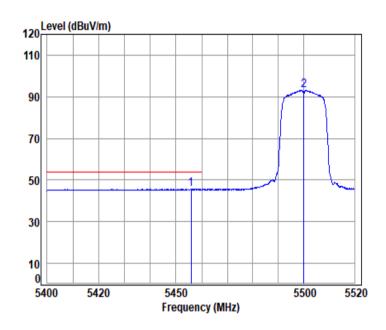


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 98 of 319

11a_TX_CH_100_Vertical-Avg



Condition: 3m VERTICAL Job No : 00078WM

Mode : 5500 Band edge

: 5G Wi-Fi 11a

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m dΒ 1 pp 5455.832 10.60 32.90 30.72 32.85 45.63 54.00 -8.37 Average

5500.000 10.58 32.90 30.70 80.32 93.10 ----- Average



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

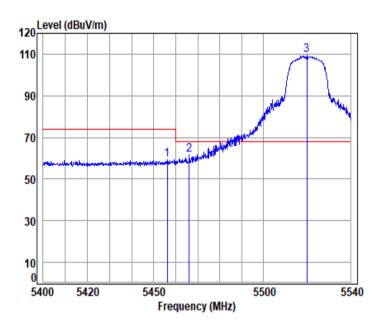


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 99 of 319

11a_TX_CH_104_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 00078WM

Mode : 5520 Band edge

: 5G Wi-Fi 11a

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Line Limit Remark Level Level MHz dBuV dBuV/m dBuV/m dB dB/m dB 5456.129 10.60 32.90 30.72 46.46 59.24 74.00 -14.76 peak 5466.053 10.59 32.90 30.71 48.72 61.50 68.20 -6.70 peak 3 pp 5520.000 10.55 32.90 30.69 96.69 109.45 68.20 41.25 peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

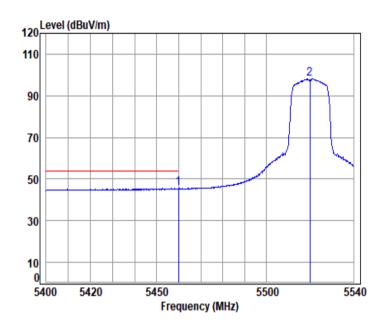


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 100 of 319

11a_TX_CH_104_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 00078WM

Mode : 5520 Band edge

: 5G Wi-Fi 11a

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dΒ dB/m dB 1 pp 5459.901 10.60 32.90 30.72 32.69 45.47 54.00 -8.53 Average

5520.000 10.55 32.90 30.69 85.35 98.11 ----- Average



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

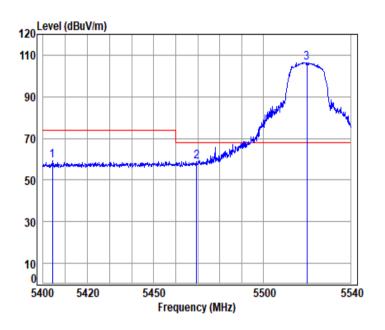


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 101 of 319

11a_TX_CH_104_Vertical-Peak



Condition: 3m VERTICAL Job No : 00078WM

Mode : 5520 Band edge

: 5G Wi-Fi 11a

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Line Limit Remark Level Level MHz dBuV dBuV/m dBuV/m dB dB/m dB 5404.287 10.62 32.81 30.74 46.81 59.50 74.00 -14.50 peak 5469.552 10.59 32.90 30.71 46.30 59.08 68.20 -9.12 peak 3 pp 5520.000 10.55 32.90 30.69 93.69 106.45 68.20 38.25 peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

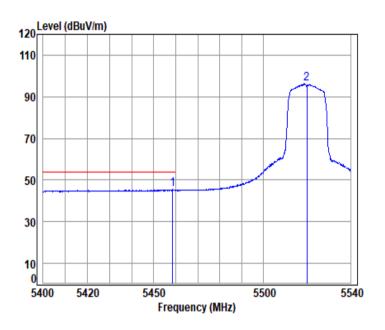


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 102 of 319

11a_TX_CH_104_Vertical-Avg



Condition: 3m VERTICAL Job No : 00078WM

Mode : 5520 Band edge

: 5G Wi-Fi 11a

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m dB 1 pp 5458.643 10.60 32.90 30.72 32.70 45.48 54.00 -8.52 Average

5520.000 10.55 32.90 30.69 83.38 96.14 ----- Average



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

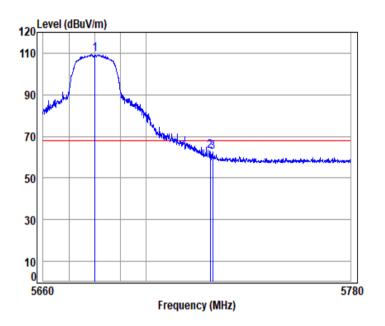


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 103 of 319

11a_TX_CH_136_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 00078WM

> 1 2

Mode : 5680 Band edge

: 5G Wi-Fi 11a

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
рр	5680.000	10.53	33.16	30.63	96.32	109.38	68.20	41.18	peak
	5725.000	10.68	33.25	30.61	49.86	63.18	68.20	-5.02	peak
	5725.929	10.68	33.25	30.61	49.29	62.61	68.20	-5.59	peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

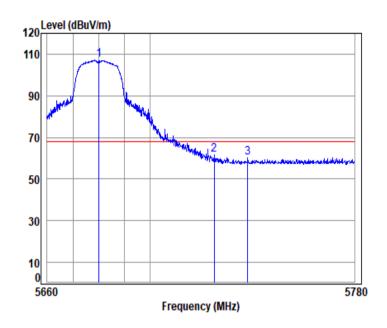


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 104 of 319

11a_TX_CH_136_Vertical-Peak



Condition: 3m VERTICAL Job No : 00078WM

Mode : 5680 Band edge

: 5G Wi-Fi 11a

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Line Limit Remark Level Level MHz dBuV dBuV/m dBuV/m dB dB/m 68.20 38.97 peak 1 pp 5680.000 10.53 33.16 30.63 94.11 107.17 5725.000 10.68 33.25 30.61 48.47 61.79 68.20 -6.41 peak 5738.075 10.74 33.28 30.60 46.65 60.07 68.20 -8.13 peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

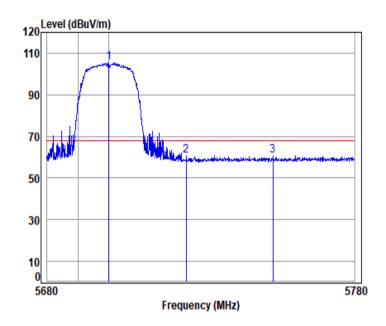


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 105 of 319

11a_TX_CH_140_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 00078WM

> 1 2

Mode : 5700 Band edge

: 5G Wi-Fi 11a

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
pp	5700.000	10.56	33.20	30.62	92.07	105.21	68.20	37.01	peak
	5725.000	10.68	33.25	30.61	47.19	60.51	68.20	-7.69	peak
	5753 330	10 81	33 31	30 60	47 38	60 90	68 20	-7 30	neak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

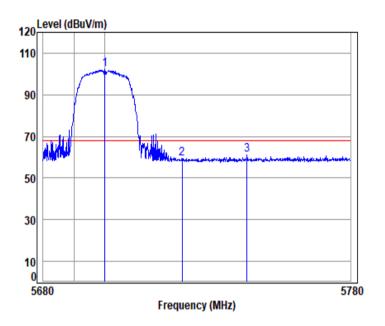


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 106 of 319

11a_TX_CH_140_Vertical-Peak



Condition: 3m VERTICAL : 00078WM Job No

Mode : 5700 Band edge

: 5G Wi-Fi 11a

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5700.000	10.56	33.20	30.62	88.88	102.02	68.20	33.82	Peak
2	5725.000	10.68	33.25	30.61	46.04	59.36	68.20	-8.84	Peak
3	5746.105	10.77	33.29	30.60	47.62	61.08	68.20	-7.12	Peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

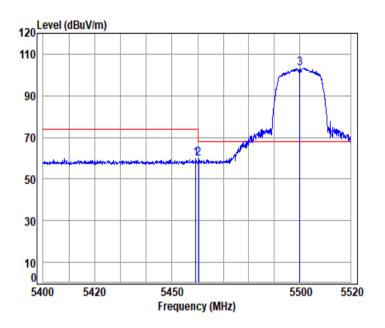


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 107 of 319

11n_HT(20M)_TX_CH_100_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 00078WM

1 2

Mode : 5500 Band edge

: 5G Wi-Fi 11n20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5459.311								•
	5460.390	10.60	32.90	30.72	46.81	59.59	68.20	-8.61	peak
nr	5500 000	10 58	32 90	30 70	90 49	103 27	68 20	35 07	neak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

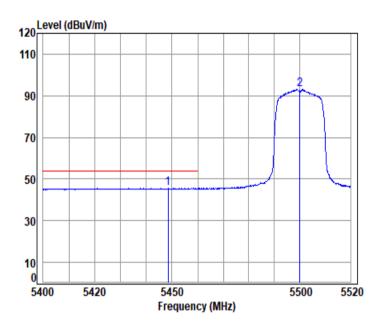


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 108 of 319

11n_HT(20M)_TX_CH_100_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 00078WM

Mode : 5500 Band edge

: 5G Wi-Fi 11n20

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB dB/m dB 1 pp 5448.522 10.60 32.90 30.72 32.76 45.54 54.00 -8.46 Average

5500.000 10.58 32.90 30.70 80.23 93.01 ----- Average



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN_Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

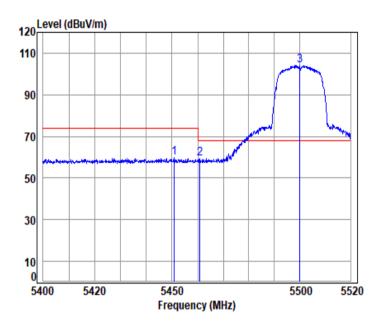


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 109 of 319

11n_HT(20M)_TX_CH_100_Vertical-Peak



Condition: 3m VERTICAL Job No : 00078WM

Mode : 5500 Band edge

: 5G Wi-Fi 11n20

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Level Level MHz dBuV dBuV/m dBuV/m dB dB/m dB 5450.917 10.60 32.90 30.72 47.19 59.97 74.00 -14.03 Peak 5460.871 10.60 32.90 30.72 46.57 59.35 68.20 -8.85 peak 3 pp 5500.000 10.58 32.90 30.70 91.13 103.91 68.20 35.71 Peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

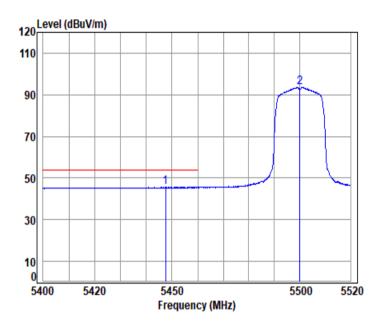


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 110 of 319

11n_HT(20M)_TX_CH_100_Vertical-Avg



Condition: 3m VERTICAL Job No : 00078WM

Mode : 5500 Band edge

: 5G Wi-Fi 11n20

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB dB/m dB 1 pp 5447.444 10.60 32.89 30.72 32.82 45.59 54.00 -8.41 Average

5500.000 10.58 32.90 30.70 80.82 93.60 ----- Average



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

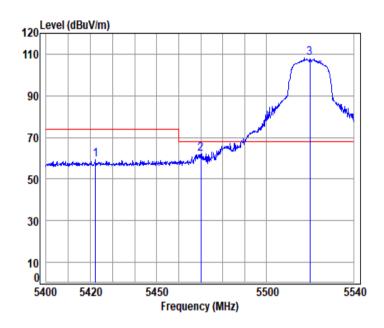


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 111 of 319

11n_HT(20M)_TX_CH_104_Horizontal-Peak



Condition: 3m HORIZONTAL

: 00078WM Job No

Mode : 5520 Band edge

: 5G Wi-Fi 11n20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	5422.299 5469.972 5520.000	10.59	32.90	30.71	49.46	62.24	68.20	-5.96	peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

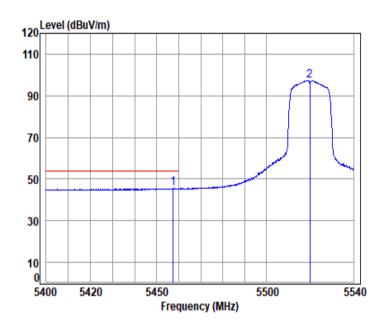


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 112 of 319

11n_HT(20M)_TX_CH_104_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 00078WM

Mode : 5520 Band edge

: 5G Wi-Fi 11n20

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m dB 1 pp 5457.386 10.60 32.90 30.72 32.64 45.42 54.00 -8.58 Average

5520.000 10.55 32.90 30.69 84.63 97.39 ----- Average



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

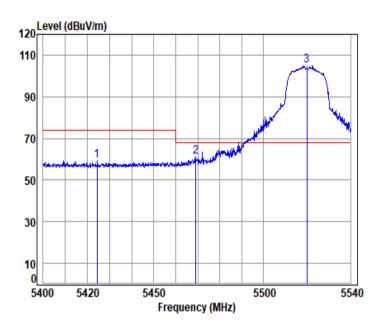


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 113 of 319

11n_HT(20M)_TX_CH_104_Vertical-Peak



Condition: 3m VERTICAL Job No : 00078WM

Mode : 5520 Band edge

: 5G Wi-Fi 11n20

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Level Level MHz dBuV dBuV/m dBuV/m dB dB/m dB 5424.381 10.61 32.85 30.73 46.41 59.14 74.00 -14.86 peak 5468.992 10.59 32.90 30.71 48.57 61.35 68.20 -6.85 peak 3 pp 5520.000 10.55 32.90 30.69 92.10 104.86 68.20 36.66 peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

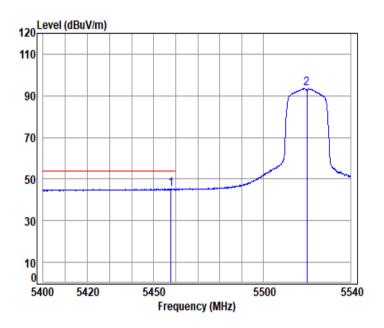


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 114 of 319

11n_HT(20M)_TX_CH_104_Vertical-Avg



Condition: 3m VERTICAL Job No : 00078WM

Mode : 5520 Band edge

: 5G Wi-Fi 11n20

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m dB 1 pp 5457.805 10.60 32.90 30.72 32.45 45.23 54.00 -8.77 Average

5520.000 10.55 32.90 30.69 80.77 93.53 ----- Average



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

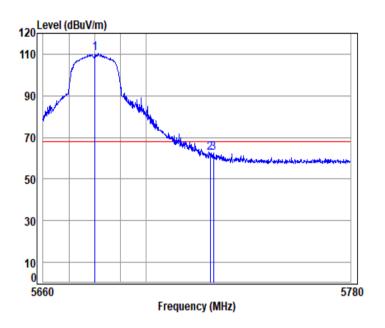


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 115 of 319

11n_HT(20M)_TX_CH_136_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 00078WM

1 2

Mode : 5680 Band edge

: 5G Wi-Fi 11n20

	Freq						Limit Line		Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
L	op 5680.000	10.53	33.16	30.63	97.19	110.25	68.20	42.05	peak	
2	5725.000	10.68	33.25	30.61	49.03	62.35	68.20	-5.85	peak	
2	5726 169	10 68	33 25	30 61	49 16	62 48	68 20	-5 72	neak	



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

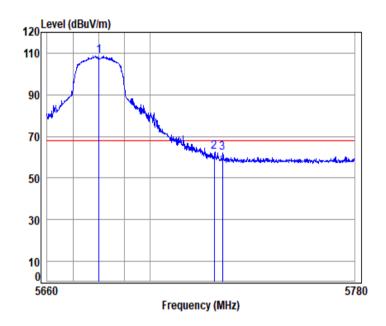


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 116 of 319

11n_HT(20M)_TX_CH_136_Vertical-Peak



Condition: 3m VERTICAL : 00078WM Job No

Mode : 5680 Band edge

: 5G Wi-Fi 11n20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5680.000	10.53	33.16	30.63	95.56	108.62	68.20	40.42	peak
2	5725.000	10.68	33.25	30.61	49.15	62.47	68.20	-5.73	peak
3	5728.211	10.69	33.26	30.61	48.66	62.00	68.20	-6.20	peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

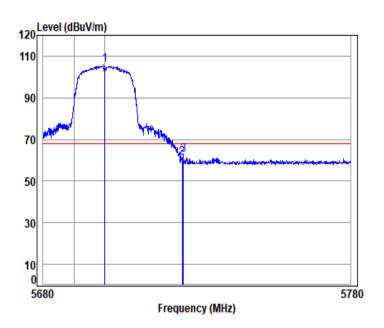


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 117 of 319

11n_HT(20M)_TX_CH_140_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 00078WM

1 2

Mode : 5700 Band edge

: 5G Wi-Fi 11n20

	Freq						Limit Line		Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
L	op 5700.000	10.56	33.20	30.62	92.55	105.69	68.20	37.49	peak	
2	5725.000	10.67	33.25	30.61	47.72	61.03	68.20	-7.17	Peak	
2	5725 384	10 68	33 25	30 61	49 06	62 38	68 20	-5 82	Peak	



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

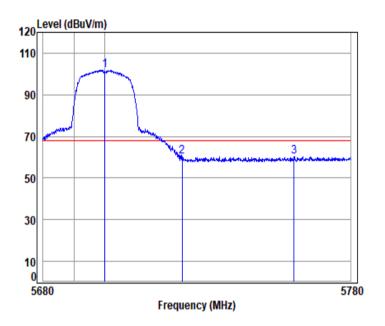


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 118 of 319

11n_HT(20M)_TX_CH_140_Vertical-Peak



Condition: 3m VERTICAL : 00078WM Job No

Mode : 5700 Band edge

: 5G Wi-Fi 11n20

	Freq						Limit Line			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
l pp	5700.000	10.56	33.20	30.62	88.80	101.94	68.20	33.74	Peak	
2	5725.000	10.68	33.25	30.61	47.10	60.42	68.20	-7.78	Peak	
3	5761.469	10.84	33.32	30.60	46.82	60.38	68.20	-7.82	Peak	



1 2

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

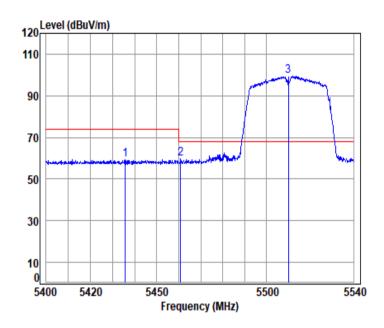


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 119 of 319

11n_HT(40M)_TX_CH_102_Horizontal-Peak



Condition: 3m HORIZONTAL

: 00078WM Job No

> 1 2

Mode : 5510 Band edge

: 5G Wi-Fi 11n40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	- 43- 630	40.54	20.07	20 72	45.53	F0 00	74.00	44.70	
	5435.639	10.61	32.8/	30.73	46.53	59.28	74.00	-14./2	peak
	5460.879	10.60	32.90	30.72	46.77	59.55	68.20	-8.65	peak
nn	5510,000	10.56	32.90	30.70	86.75	99.51	68.20	31.31	neak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

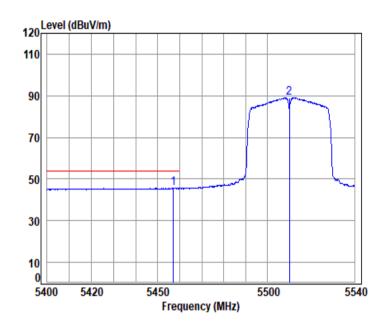


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 120 of 319

11n_HT(40M)_TX_CH_102_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 00078WM

Mode : 5510 Band edge

: 5G Wi-Fi 11n40

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m dB 1 pp 5456.967 10.60 32.90 30.72 32.99 45.77 54.00 -8.23 Average

5510.000 10.56 32.90 30.70 76.34 89.10 ----- Average



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

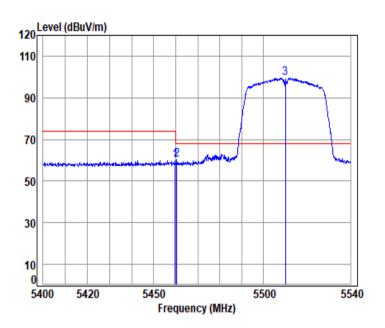


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 121 of 319

11n_HT(40M)_TX_CH_102_Vertical-Peak



Condition: 3m VERTICAL Job No : 00078WM

Mode : 5510 Band edge

: 5G Wi-Fi 11n40

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Level Level MHz dBuV dBuV/m dBuV/m dB dB/m dB dB 5459.761 10.60 32.90 30.72 47.07 59.85 74.00 -14.15 Peak 5460.460 10.60 32.90 30.72 47.35 60.13 68.20 -8.07 peak 3 pp 5510.000 10.56 32.90 30.70 86.82 99.58 68.20 31.38 Peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

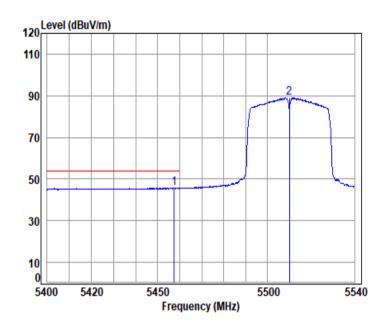


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 122 of 319

11n_HT(40M)_TX_CH_102_Vertical-Avg

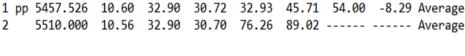


Condition: 3m VERTICAL Job No : 00078WM

Mode : 5510 Band edge

: 5G Wi-Fi 11n40

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m 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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

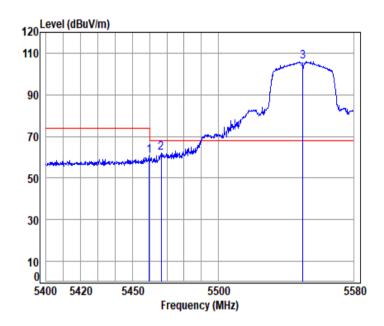


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 123 of 319

11n_HT(40M)_TX_CH_110_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 00078WM

1 2

Mode : 5550 Band edge

: 5G Wi-Fi 11n40

		Freq			Preamp Factor					Remark	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
L	54	59.823	10.60	32.90	30.72	47.80	60.58	74.00	-13.42	peak	
2	54	66.809	10.59	32.90	30.71	49.47	62.25	68.20	-5.95	peak	
1	nn 50	50 000	10 49	32 90	30 68	93 89	105 80	68 20	37 60	neak	



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

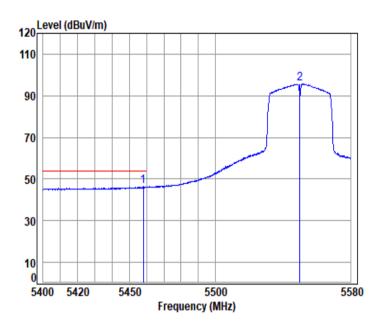


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 124 of 319

11n_HT(40M)_TX_CH_110_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 00078WM

Mode : 5550 Band edge

: 5G Wi-Fi 11n40

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Level Level MHz dBuV dBuV/m dBuV/m dB dB/m dB 1 pp 5458.033 10.60 32.90 30.72 33.62 46.40 54.00 -7.60 Average

5550.000 10.49 32.90 30.68 82.97 95.68 ----- Average



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

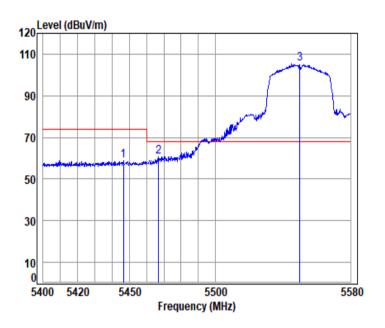


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 125 of 319

11n_HT(40M)_TX_CH_110_Vertical-Peak



Condition: 3m VERTICAL : 00078WM Job No

Mode : 5550 Band edge

: 5G Wi-Fi 11n40

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5446.412	10.60	32.89	30.72	46.04	58.81	74.00	-15.19	peak
	5466.989	10.59	32.90	30.71	47.76	60.54	68.20	-7.66	peak
pp	5550.000	10.49	32.90	30.68	92.61	105.32	68.20	37.12	peak



1 2

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

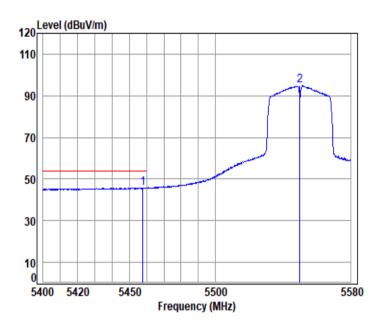


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 126 of 319

11n_HT(40M)_TX_CH_110_Vertical-Avg

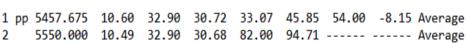


Condition: 3m VERTICAL Job No : 00078WM

Mode : 5550 Band edge

: 5G Wi-Fi 11n40

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m 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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

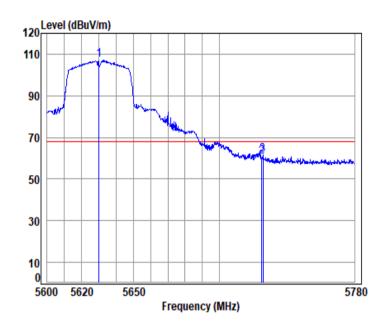


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 127 of 319

11n_HT(40M)_TX_CH_126_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 00078WM

> 1 2

Mode : 5630 Band edge

. 56 Wi-Ei 11n/A

	: 56	W1-F1	11n40						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
pp	5630.000	10.45	33.06	30.65	94.33	107.19	68.20	38.99	peak
	5725.000								•
	5725.763								•



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

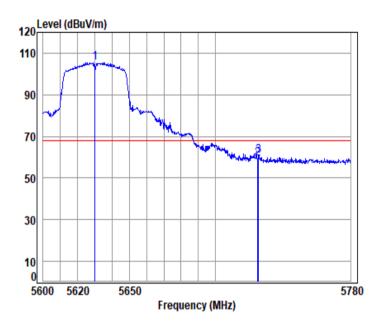


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 128 of 319

11n_HT(40M)_TX_CH_126_Vertical-Peak



Condition: 3m VERTICAL : 00078WM Job No

Mode : 5630 Band edge

: 5G Wi-Fi 11n40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5630.000	10.45	33.06	30.65	92.74	105.60	68.20	37.40	peak
2	5725.000	10.68	33.25	30.61	46.21	59.53	68.20	-8.67	peak
3	5725.582	10.68	33.25	30.61	47.52	60.84	68.20	-7.36	peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

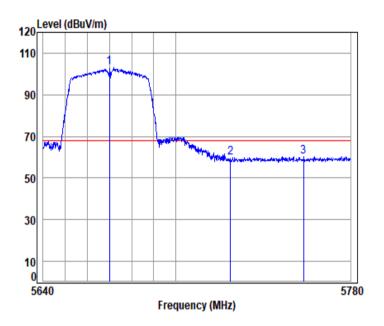


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 129 of 319

11n_HT(40M)_TX_CH_134_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 00078WM

> 1 2

Mode : 5670 Band edge

: 5G Wi-Fi 11n40

			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	_										
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
L	pp 5	5670.000	10.52	33.14	30.63	90.25	103.28	68.20	35.08	peak	
2	5	5725.000	10.68	33.25	30.61	46.39	59.71	68.20	-8.49	peak	
3		5758.498	10.83	33.32	30.60	46.84	60.39	68.20	-7.81	neak	



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

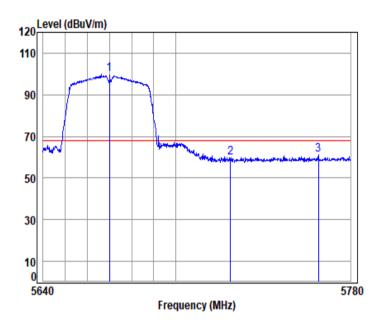


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 130 of 319

11n_HT(40M)_TX_CH_134_Vertical-Peak



Condition: 3m VERTICAL Job No : 00078WM

Mode : 5670 Band edge

: 5G Wi-Fi 11n40

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Level Level MHz dBuV dBuV/m dBuV/m dB dB/m dB dB 1 pp 5670.000 10.52 33.14 30.63 86.77 99.80 68.20 31.60 Peak 5725.000 10.68 33.25 30.61 46.33 59.65 68.20 -8.55 Peak 5765.280 10.86 33.33 30.59 47.36 60.96 68.20 -7.24 Peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

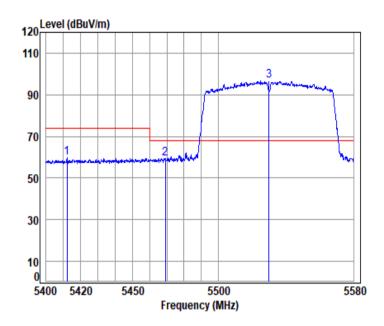


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 131 of 319

11ac_VHT(80M)_TX_CH_106_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 00078WM

1 2

Mode : 5530 Band edge

: 5G Wi-Fi 11ac80

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5412.054								•
	5469.140	10.59	32.90	30.71	46.70	59.48	68.20	-8.72	peak
nn	5530 000	10 53	32 90	30 69	84 96	96 80	68 20	28 60	neak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

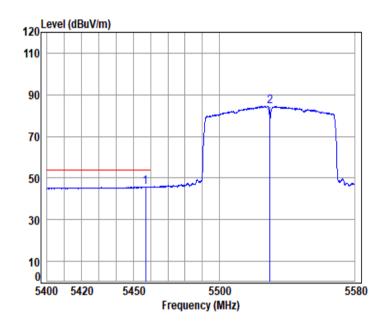


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 132 of 319

11ac_VHT(80M)_TX_CH_106_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 00078WM

Mode : 5530 Band edge

: 5G Wi-Fi 11ac80

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m dB

1 pp 5457.138 10.60 32.90 30.72 33.07 45.85 54.00 -8.15 Average 5530.000 10.53 32.90 30.69 71.76 84.50 ----- Average



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

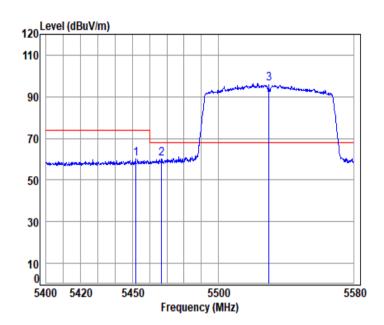


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 133 of 319

11ac_VHT(80M)_TX_CH_106_Vertical-Peak



Condition: 3m VERTICAL Job No : 00078WM

Mode : 5530 Band edge

: 5G Wi-Fi 11ac80

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Level Level MHz dBuV dBuV/m dBuV/m dB dB/m dB 5451.951 10.60 32.90 30.72 47.44 60.22 74.00 -13.78 Peak 5466.989 10.59 32.90 30.71 47.33 60.11 68.20 -8.09 peak 3 pp 5530.000 10.53 32.90 30.69 83.49 96.23 68.20 28.03 Peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

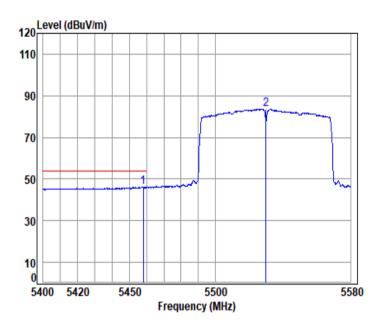


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 134 of 319

11ac_VHT(80M)_TX_CH_106_Vertical-Avg



Condition: 3m VERTICAL Job No : 00078WM

Mode : 5530 Band edge

: 5G Wi-Fi 11ac80

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dΒ dB/m dB 1 pp 5458.033 10.60 32.90 30.72 33.33 46.11 54.00 -7.89 Average

5530.000 10.53 32.90 30.69 70.86 83.60 ----- Average



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

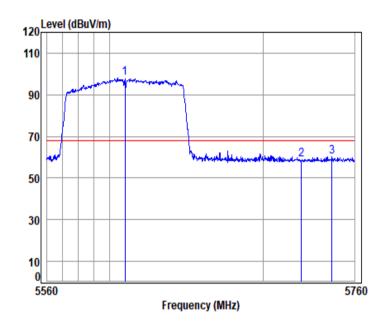


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 135 of 319

11ac_VHT(80M)_TX_CH_122_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 00078WM

1 2

Mode : 5610 Band edge

: 5G Wi-Fi 11ac80

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
pp	5610.000 5725.000								
	5745.160								•



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

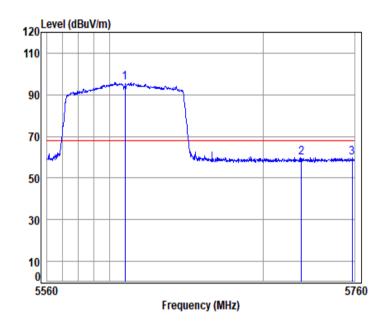


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 136 of 319

11ac_VHT(80M)_TX_CH_122_Vertical-Peak



Condition: 3m VERTICAL Job No : 00078WM

Mode : 5610 Band edge

: 5G Wi-Fi 11ac80

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Level Level MHz dBuV dBuV/m dBuV/m dB dB/m dB dB 1 pp 5610.000 10.43 33.02 30.66 83.08 95.87 68.20 27.67 Peak 5725.000 10.68 33.25 30.61 46.51 59.83 68.20 -8.37 peak 5758.372 10.83 33.32 30.60 46.20 59.75 68.20 -8.45 Peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

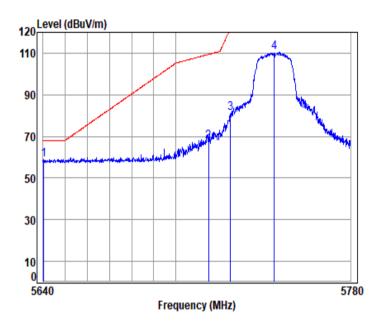


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 137 of 319

11a_TX_CH_149_Horizontal



Condition: 3m HORIZONTAL

: 00078WM Job No

Mode : 5745 Band edge

: 5.8G Wi-Fi 11a

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	${\sf Factor}$	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp	5640.276	10.47	33.08	30.64	46.11	59.02	68.20	-9.18	peak
2		5715.000	10.63	33.23	30.61	54.30	67.55	109.40	-41.85	peak
3		5725.000	10.68	33.25	30.61	68.01	81.33	122.20	-40.87	peak
Л		5745 000	10 77	33 30	30 60	96 91	110 27			nook



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

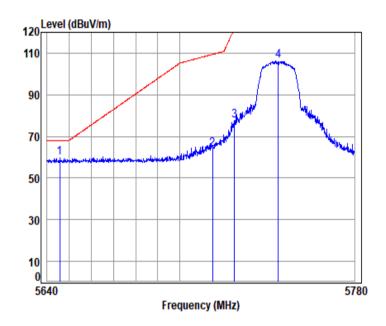


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 138 of 319

11a_TX_CH_149_Vertical



Condition: 3m VERTICAL Job No : 00078WM

Mode : 5745 Band edge

: 5.8G Wi-Fi 11a

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Line Limit Remark Level Level MHz dBuV dBuV/m dBuV/m dB dB/m dB 1 pp 5645.673 10.48 33.09 30.64 46.84 59.77 68.20 -8.43 peak 5715.000 10.63 33.23 30.61 50.59 63.84 109.40 -45.56 peak 3 5725.000 10.68 33.25 30.61 64.36 77.68 122.20 -44.52 peak 5745.000 10.77 33.29 30.60 92.73 106.19 ----- peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

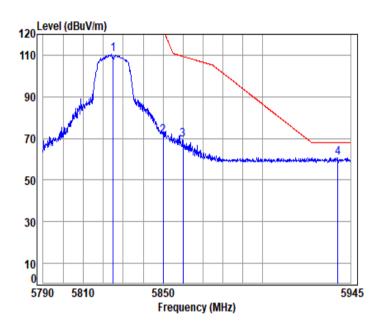


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 139 of 319

11a_TX_CH_165_Horizontal



Condition: 3m HORIZONTAL

: 00078WM Job No

Mode : 5825 Band edge

: 5.8G Wi-Fi 11a

		Freq			Preamp Factor					Remark	
	-	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	——dB		-
1		5825.000	10.99	33.50	30.57	96.45	110.37			peak	
2		5850.000	10.95	33.60	30.56	57.21	71.20	122.20	-51.00	peak	
3		5860.000	10.94	33.58	30.56	55.41	69.37	109.40	-40.03	peak	
		5038 564								•	



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

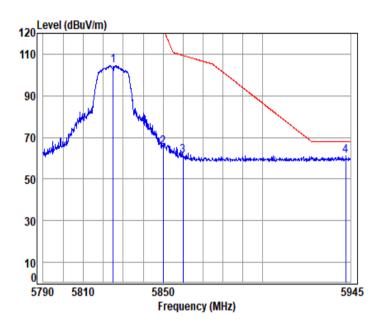


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 140 of 319

11a_TX_CH_165_Vertical



Condition: 3m VERTICAL : 00078WM Job No

Mode : 5825 Band edge

: 5.8G Wi-Fi 11a

		Freq			Preamp Factor					Remark	
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB		-
1		5825.000	10.99	33.50	30.57	90.60	104.52			peak	
2		5850.000	10.95	33.60	30.56	51.47	65.46	122.20	-56.74	peak	
3		5860.000	10.94	33.58	30.56	47.34	61.30	109.40	-48.10	peak	
л	nn	50/2 6/5	10 86	33 50	30 50	47 25	61 18	68 20	_7 02	nook	



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

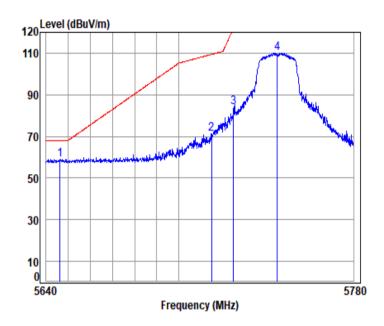


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 141 of 319

11n_HT(20M)_TX_CH_149_Horizontal



Condition: 3m HORIZONTAL

Job No : 00078WM

Mode : 5745 Band edge

: 5.8G Wi-Fi 11n20

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Level Level MHz dBuV dBuV/m dBuV/m dB dB/m 1 pp 5646.227 10.48 33.09 30.64 46.15 59.08 68.20 -9.12 peak 5715.000 10.63 33.23 30.61 57.76 71.01 109.40 -38.39 peak 3 5725.000 10.68 33.25 30.61 70.53 83.85 122.20 -38.35 peak 5745.000 10.77 33.29 30.60 96.56 110.02 ----- peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

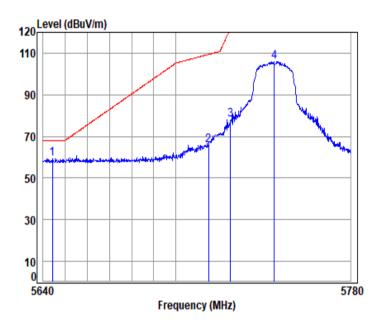


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 142 of 319

11n_HT(20M)_TX_CH_149_Vertical



Condition: 3m VERTICAL Job No : 00078WM

Mode : 5745 Band edge

: 5.8G Wi-Fi 11n20

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Level Level MHz dBuV dBuV/m dBuV/m dB dB/m 1 pp 5644.289 10.48 33.09 30.64 46.44 59.37 68.20 -8.83 peak 5715.000 10.63 33.23 30.61 52.46 65.71 109.40 -43.69 peak 3 5725.000 10.68 33.25 30.61 64.78 78.10 122.20 -44.10 peak 5745.000 10.77 33.29 30.60 92.51 105.97 ----- peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

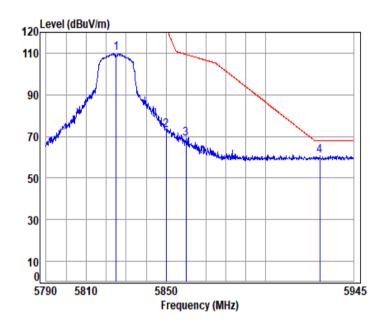


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 143 of 319

11n_HT(20M)_TX_CH_165_Horizontal



Condition: 3m HORIZONTAL

: 00078WM Job No

1 2

Mode : 5825 Band edge

: 5.8G Wi-Fi 11n20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5825	.000	10.99	33.50	30.57	95.94	109.86			peak
5850	.000	10.95	33.60	30.56	59.23	73.22	122.20	-48.98	peak
5860	.000	10.94	33.58	30.56	54.72	68.68	109.40	-40.72	peak
				30 53					•



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

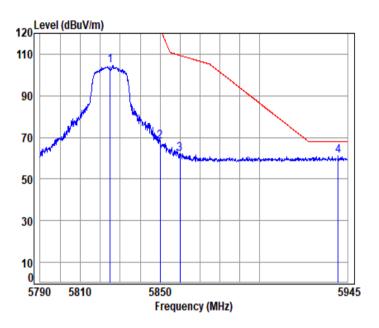


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 144 of 319

11n_HT(20M)_TX_CH_165_Vertical



Condition: 3m VERTICAL Job No : 00078WM

Mode : 5825 Band edge

: 5.8G Wi-Fi 11n20

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Freq Level Level MHz dBuV dBuV/m dBuV/m dB dB/m 5825.000 10.99 33.50 30.57 90.49 104.41 ----- peak 10.95 33.60 30.56 54.15 68.14 122.20 -54.06 peak 5850.000 5860.000 10.94 33.58 30.56 48.28 62.24 109.40 -47.16 peak 4 pp 5940.290 10.86 33.58 30.52 47.07 60.99 68.20 -7.21 peak



2

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com Member of the SGS Group (SGS SA)

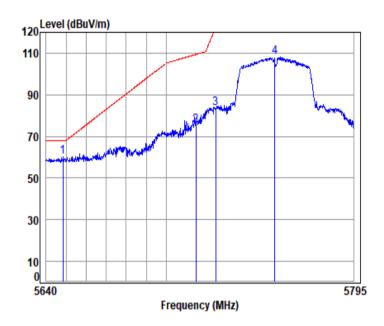


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 145 of 319

11n_HT(40M)_TX_CH_151_Horizontal



Condition: 3m HORIZONTAL

: 00078WM Job No

Mode : 5755 Band edge

: 5.8G Wi-Fi 11n40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	${\sf Factor}$	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5648.416	10.48	33.10	30.64	47.06	60.00	68.20	-8.20	peak
2	5715.000	10.63	33.23	30.61	62.21	75.46	109.40	-33.94	peak
3	5725.000	10.68	33.25	30.61	69.96	83.28	122.20	-38.92	peak
Λ	5755 000	10 21	33 31	30 60	9/ /7	107 00			nook



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

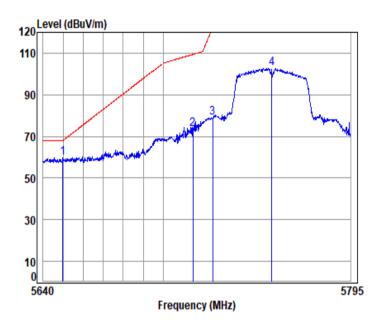


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 146 of 319

11n_HT(40M)_TX_CH_151_Vertical



Condition: 3m VERTICAL Job No : 00078WM

Mode : 5755 Band edge

: 5.8G Wi-Fi 11n40

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Level Level MHz dBuV dBuV/m dBuV/m dB dB/m 1 pp 5649.794 10.48 33.10 30.64 46.76 59.70 68.20 -8.50 peak 5715.000 10.63 33.23 30.61 60.42 73.67 109.40 -35.73 peak 3 5725.000 10.68 33.25 30.61 65.60 78.92 122.20 -43.28 peak 5755.000 10.81 33.31 30.60 89.09 102.61 ----- peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com Member of the SGS Group (SGS SA)

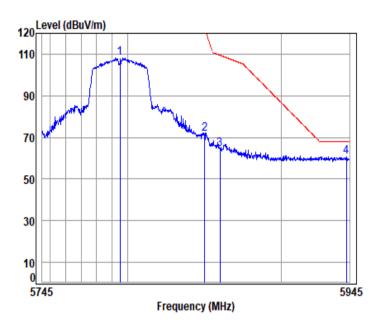


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 147 of 319

11n_HT(40M)_TX_CH_159_Horizontal



Condition: 3m HORIZONTAL

: 00078WM Job No

> 1 2

Mode : 5795 Band edge

: 5.8G Wi-Fi 11n40

	Freq			Preamp Factor					Remark
	MHz			dB					
	5795.000	11.00	33.39	30.58	94.50	108.31			peak
	5850.000								•
	5860.000								•
nn	50/12 066	10 26	33 5G	30 52	16 96	60 20	68 20	_7 31	noak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

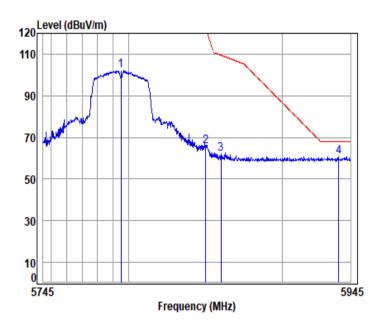


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 148 of 319

11n_HT(40M)_TX_CH_159_Vertical



Condition: 3m VERTICAL Job No : 00078WM

Mode : 5795 Band edge

: 5.8G Wi-Fi 11n40

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Freq Level Level MHz dBuV dBuV/m dBuV/m dB dB/m 5795.000 11.00 33.39 30.58 88.21 102.02 ----- peak 2 10.95 33.60 30.56 51.55 65.54 122.20 -56.66 peak 5850.000 5860.000 10.94 33.58 30.56 47.96 61.92 109.40 -47.48 peak 4 pp 5937.071 10.86 33.57 30.53 46.92 60.82 68.20 -7.38 peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

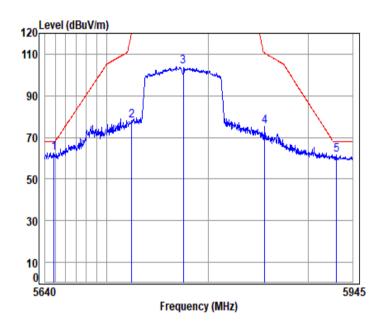


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 149 of 319

11ac_VHT(80M)_TX_CH_155_Horizontal



Condition: 3m HORIZONTAL

Job No : 00078WM

Mode : 5775 Band edge

: 5.8G Wi-Fi 11ac80

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Level Level MHz dBuV dBuV/m dBuV/m dB dB/m dB 1 pp 5648.621 10.48 33.10 30.64 49.73 62.67 68.20 -5.53 Peak 5724.390 10.67 33.25 30.61 64.73 78.04 120.81 -42.77 peak 5775.000 10.91 33.35 30.59 90.23 103.90 ----- peak 5856.124 10.95 33.59 30.56 61.26 75.24 110.48 -35.24 peak 5928.741 10.87 33.56 30.53 47.49 61.39 68.20 -6.81 peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

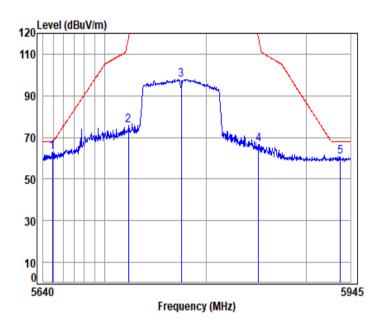


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 150 of 319

11ac_VHT(80M)_TX_CH_155_Vertical



Condition: 3m VERTICAL : 00078WM Job No

Mode : 5775 Band edge

: 5.8G Wi-Fi 11ac80

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5648.918	10.48	33.10	30.64	50.00	62.94	68.20	-5.26	Peak
2	5723.184	10.67	33.25	30.61	62.45	75.76	118.06	-42.30	peak
3	5775.000	10.91	33.35	30.59	84.16	97.83			peak
4	5852.116	10.95	33.60	30.56	52.49	66.48	117.37	-50.89	peak
5	5934.677	10.86	33.57	30.53	46.93	60.83	68.20	-7.37	peak



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 151 of 319

7.6 Channel Move Time

Test Requirement KDB 905462 D02 Section 5.1 Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 22.6 °C Humidity: 42.7 % RH Atmospheric Pressure: 1020 mbar



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

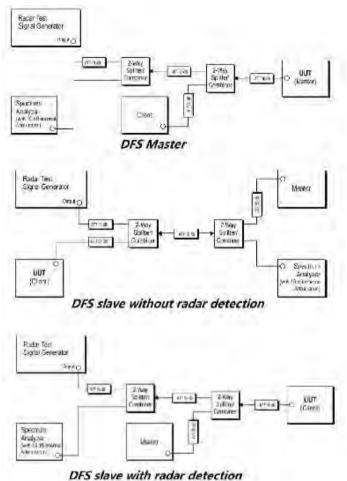


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 152 of 319

7.6.2 Test Setup Diagram





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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250100007806

> Page: 153 of 319

7.6.3 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.3ms) =S (12000ms) / B (4000); where Dwell is the dwell time per spectrum analyzer sampling bin. S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: C (ms)= N X Dwell (0.3ms); where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details





SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 154 of 319

7.7 Duty Cycle

Test Requirement ANSI C63.10 (2013) Section 12.2 Test Method: ANSI C63.10 (2013) Section 12.2

7.7.1 E.U.T. Operation

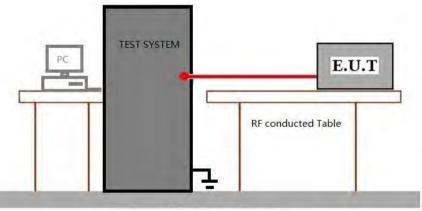
Operating Environment:

Temperature: 22.6 °C Humidity: 42.7 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

7.7.2 10001	7.7.2 Test mode Bescription			
Pre-scan / Final test	Mode Code	Description		
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.		
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.		
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.		
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.		

7.7.3 Test Setup Diagram



Ground Reference Plane

7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 155 of 319

7.8 99% Bandwidth

Test Requirement ANSI C63.10 (2013) Section 12.4.2 Test Method: ANSI C63.10 (2013) Section 12.4.2

7.8.1 E.U.T. Operation

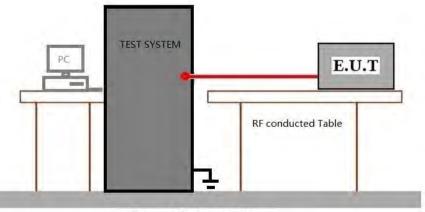
Operating Environment:

Temperature: 22.6 °C Atmospheric Pressure: 1020 mbar Humidity: 42.7 % RH

7.8.2 Test Mode Description

7.0.2 Test W	7.6.2 Test Mode Description				
Pre-scan / Final test	Mode Code	Description			
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.			
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.			
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.			
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.			

7.8.3 Test Setup Diagram



Ground Reference Plane

7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 156 of 319

7.9 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a) Test Method: ANSI C63.10 (2013) Section 12.4.1

7.9.1 E.U.T. Operation

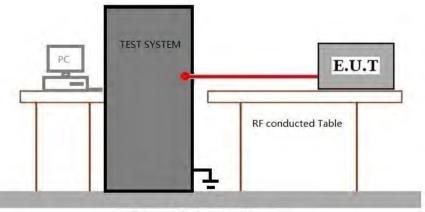
Operating Environment:

Temperature: 22.6 °C Humidity: 42.7 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

7.0.2 100011	7.9.2 Test mode Description				
Pre-scan / Final test	Mode Code	Description			
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.			
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.			
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.			
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.			

7.9.3 Test Setup Diagram



Ground Reference Plane

7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 157 of 319

7.10 Minimum 6 dB bandwidth (5.725-5.85 GHz band)

Test Requirement 47 CFR Part 15, Subpart E 15.407 (e) Test Method: ANSI C63.10 (2013) Section 6.9.2

Limit:

Frequency band(MHz)	Limit
5725-5850	≥500 kHz

7.10.1 E.U.T. Operation

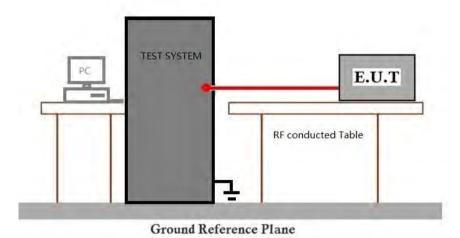
Operating Environment:

Temperature: 22.6 °C Humidity: 42.7 % RH Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.

7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 158 of 319

7.11 Peak Power spectrum density

47 CFR Part 15, Subpart E 15.407 (a) Test Requirement Test Method: ANSI C63.10 (2013) Section 12.5

Limit:

Frequenc	y band(MHz)	Limit
E1E0 E	250	≤17dBm in 1MHz for master device
5150-5	0250	≤11dBm in 1MHz for client device
5250-5	350	≤11dBm in 1MHz for client device
5470-5	725	≤11dBm in 1MHz for client device
5725-5	850	≤30dBm in 500 kHz
Remark:		power spectral density is measured as a conducted emission ection of a calibrated test instrument to the equipment under

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 22.6 °C Humidity: 42.7 % RH Atmospheric Pressure: 1020 mbar

7.11.2 Test Mode Description

7.11.2 1030	7.11.2 Test mode description				
Pre-scan / Final test	Mode Code	Description			
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.			
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.			
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.			
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.			



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

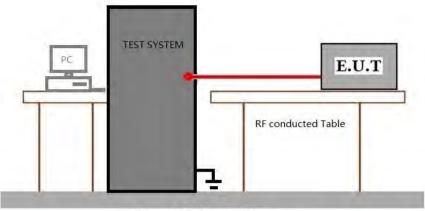
No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250100007806

> Page: 159 of 319

7.11.3 Test Setup Diagram



Ground Reference Plane

7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of ilability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery 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@ss.com"

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 160 of 319

7.12 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407 (g) Test Method: ANSI C63.10 (2013) Section 6.8

7.12.1 E.U.T. Operation

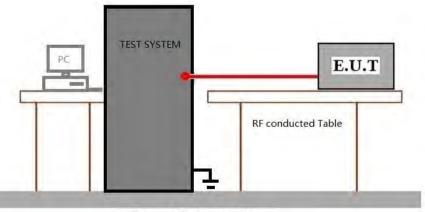
Operating Environment:

Temperature: 22.6 °C Humidity: 42.7 % RH Atmospheric Pressure: 1020 mbar

7 12 2 Test Mode Description

7.12.2 1030	7.12.2 Test mode Description				
Pre-scan / Final test	Mode Code	Description			
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.			
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.			
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.			
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.			

7.12.3 Test Setup Diagram



Ground Reference Plane

7.12.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 161 of 319

7.13 Non-occupancy period

Test Requirement KDB 905462 D02 Section 5.1 Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

7.13.1 E.U.T. Operation

Operating Environment:

Temperature: 22.6 °C Atmospheric Pressure: 1020 mbar Humidity: 42.7 % RH



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn



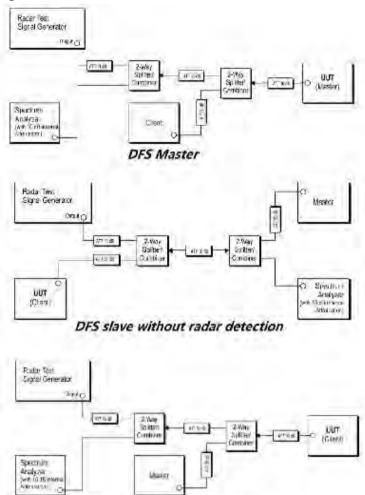
SZEMC-TRF-01 Rev. A/1

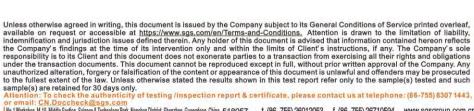
Report No.: SZCR250100007806

Page: 162 of 319

7.13.2 Test Setup Diagram

检验检测专用章





DFS slave with radar detection

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250100007806

Page: 163 of 319

7.13.3 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.3ms) =S (12000ms) / B (4000); where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: C (ms)= N X Dwell (0.3ms); where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN_Doccheck@sgs.com



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 164 of 319

7.14 Channel Closing Transmission Time

Test Requirement KDB 905462 D02 Section 5.1 Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

7.14.1 E.U.T. Operation

Operating Environment:

Temperature: 22.6 °C Atmospheric Pressure: 1020 mbar Humidity: 42.7 % RH



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

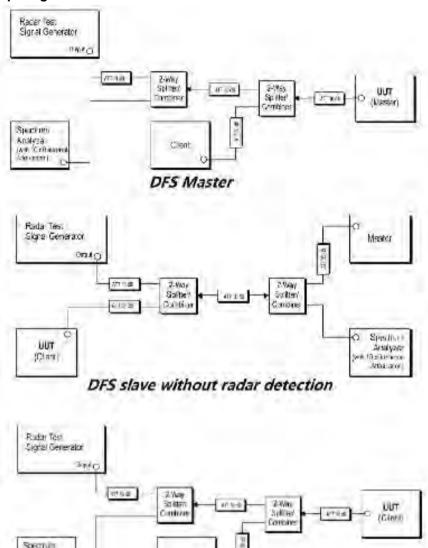


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 165 of 319

7.14.2 Test Setup Diagram



DFS slave with radar detection

Uksairr



Arrahyses her to 16 mans American

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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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, Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone; (86-755) 8307 1443,

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250100007806

> Page: 166 of 319

7.14.3 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.3ms) =S (12000ms) / B (4000); where Dwell is the dwell time per spectrum analyzer sampling bin. S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: C (ms)= N X Dwell (0.3ms); where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details





SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250100007806

> Page: 167 of 319

Test Setup Photo 8

Please refer to SZCR2501000078 Appendix_Setup Photo

EUT Constructional Details (EUT Photos) 9

Refer to Appendix – External and Internal Photos for SZCR2501000078WM.



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 168 of 319

10 Appendix

- 1. Duty Cycle
- 1.1 Test Result

1.1.1 Ant22

				An	t22		
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
		5180	1.392	1.428	97.48	0.11	0.03
		5200	1.393	1.428	97.55	0.11	0.07
		5240	1.392	1.428	97.48	0.11	0.03
		5260	1.392	1.428	97.48	0.11	0.06
		5300	1.392	1.427	97.55	0.11	0.07
		5320	1.392	1.428	97.48	0.11	0.07
802.11a	SISO	5500	1.392	1.428	97.48	0.11	0.03
		5580	1.393	1.428	97.55	0.11	0.03
		5700	1.394	1.428	97.62	0.10	0.03
		5745	1.392	1.428	97.48	0.11	0.06
		5785	1.393	1.428	97.55	0.11	0.03
		5825	1.392	1.427	97.55	0.11	0.03
		5720	1.392	1.428	97.48	0.11	0.03
		5180	1.300	1.335	97.38	0.12	0.03
	SISO	5200	1.302	1.336	97.46	0.11	0.10
		5240	1.302	1.336	97.46	0.11	0.03
		5260	1.301	1.337	97.31	0.12	0.10
		5300	1.301	1.336	97.38	0.12	0.07
000.44		5320	1.300	1.336	97.31	0.12	0.03
802.11n (HT20)		5500	1.300	1.336	97.31	0.12	0.07
(11120)		5580	1.300	1.336	97.31	0.12	0.03
		5700	1.302	1.336	97.46	0.11	0.03
		5745	1.301	1.336	97.38	0.12	0.03
		5785	1.301	1.336	97.38	0.12	0.04
		5825	1.301	1.336	97.38	0.12	0.03
		5720	1.301	1.336	97.38	0.12	0.03
802.11n	SISO	5190	0.649	0.683	95.02	0.22	0.03
(HT40)	3130	5230	0.650	0.684	95.03	0.22	0.07



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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of ilability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery 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, Mr-10, Middle Section, Science & Technology Parit, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

169 of 319 Page:

Siso								
SISO			5270	0.650	0.683	95.17	0.22	0.03
SISO			5310	0.648	0.683	94.88	0.23	0.07
SISO			5510	0.649	0.683	95.02	0.22	0.07
ST55			5550	0.648	0.683	94.88	0.23	0.07
ST95			5670	0.648	0.683	94.88	0.23	0.03
ST10			5755	0.649	0.684	94.88	0.23	0.07
802.11ac (VHT20) 802.11ac (VH20) 802.11ac			5795	0.649	0.683	95.02	0.22	0.07
SISO			5710	0.648	0.683	94.88	0.23	0.07
802.11ac (VHT20) 802.11ac (VH20) 802.11ac (VH2			5180	1.312	1.347	97.40	0.11	0.04
802.11ac (VHT20) SISO SISO 5300			5200	1.312	1.348	97.33	0.12	0.03
SISO			5240	1.312	1.347	97.40	0.11	0.04
SISO			5260	1.312	1.348	97.33	0.12	0.07
SISO			5300	1.312	1.347	97.40	0.11	0.03
(VHT20)			5320	1.312	1.348	97.33	0.12	0.03
Siso		SISO	5500	1.313	1.348	97.40	0.11	0.04
STA5	(11120)		5580	1.312	1.347	97.40	0.11	0.03
STAS			5700	1.314	1.348	97.48	0.11	0.07
S825			5745	1.313	1.348	97.40	0.11	0.07
802.11ac (VHT40) 802.11ac (VHT80) 802.11ac (VHT80) 802.11ac (VHT80) 802.11ac (VHT80) 802.11ac (VHT80)			5785	1.312	1.348	97.33	0.12	0.03
802.11ac (VHT40) 802.11ac (VHT40) 802.11ac (VHT40) 802.11ac (VHT80)			5825	1.312	1.348	97.33	0.12	0.03
802.11ac (VHT40) SISO 802.11ac (VHT40) 802.11ac (VHT40) SISO 802.11ac (VHT40) SISO 802.11ac (VHT40) SISO 802.11ac (VHT40) SISO 802.11ac (VHT80) 802.11ac (VHT80) 802.11ac (VHT80)			5720	1.313	1.348	97.40	0.11	0.03
802.11ac (VHT40) SISO SISO SISO SISO SISO SISO SISO SIS			5190	0.653	0.687	95.05	0.22	0.03
SISO		SISO	5230	0.652	0.687	94.91	0.23	0.04
SISO			5270	0.653	0.687	95.05	0.22	0.03
(VHT40) SISO 5550 0.653 0.687 95.05 0.22 0.03 5670 0.653 0.687 95.05 0.22 0.03 5755 0.652 0.687 94.91 0.23 0.07 5795 0.653 0.687 95.05 0.22 0.03 5710 0.653 0.687 95.05 0.22 0.03 5710 0.653 0.687 95.05 0.22 0.03 5210 0.325 0.358 90.78 0.42 0.00 5290 0.325 0.359 90.53 0.43 0.04 5530 0.324 0.358 90.50 0.43 0.04 5775 0.324 0.358 90.50 0.43 0.04			5310	0.652	0.687	94.91	0.23	0.07
(VH140) 5550 0.653 0.687 95.05 0.22 0.03 5670 0.653 0.687 95.05 0.22 0.03 5755 0.652 0.687 94.91 0.23 0.07 5795 0.653 0.687 95.05 0.22 0.03 5710 0.653 0.687 95.05 0.22 0.03 5210 0.325 0.358 90.78 0.42 0.00 5290 0.325 0.359 90.53 0.43 0.04 5530 0.324 0.358 90.50 0.43 0.04 5775 0.324 0.358 90.50 0.43 0.04	802.11ac		5510	0.654	0.687	95.20	0.21	0.10
SISO	(VHT40)		5550	0.653	0.687	95.05	0.22	0.03
802.11ac (VHT80) SISO 5795 0.653 0.687 95.05 0.22 0.03 0.03 0.087 95.05 0.22 0.03 0.03 0.04 0.00 0			5670	0.653	0.687	95.05	0.22	0.03
802.11ac (VHT80) SISO 5710 0.653 0.687 95.05 0.22 0.03 0.03 0.00 0.00 0.00 0.00 0.00			5755	0.652	0.687	94.91	0.23	0.07
802.11ac (VHT80) SISO			5795	0.653	0.687	95.05	0.22	0.03
802.11ac (VHT80) SISO 5290 0.325 0.359 90.53 0.43 0.04 5530 0.325 0.359 90.53 0.43 0.07 0.07 0.04 0.324 0.358 90.50 0.43 0.04 0.04 0.358 90.50 0.43 0.04			5710	0.653	0.687	95.05	0.22	0.03
802.11ac (VHT80) SISO 5530 0.325 0.359 90.53 0.43 0.07 5610 0.324 0.358 90.50 0.43 0.04 5775 0.324 0.358 90.50 0.43 0.04	802.11ac	siso	5210	0.325	0.358	90.78	0.42	0.00
(VHT80) SISO 5610 0.324 0.358 90.50 0.43 0.04 5775 0.324 0.358 90.50 0.43 0.04			5290	0.325	0.359	90.53	0.43	0.04
(VHT80) SISO 5610 0.324 0.358 90.50 0.43 0.04 5775 0.324 0.358 90.50 0.43 0.04			5530	0.325	0.359	90.53	0.43	0.07
			5610	0.324	0.358	90.50	0.43	0.04
5690 0.325 0.359 90.53 0.43 0.04			5775	0.324	0.358	90.50	0.43	0.04
			5690	0.325	0.359	90.53	0.43	0.04



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

No.1 Workshop, Mr-10, Middle Section, Science & Technology Parit, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



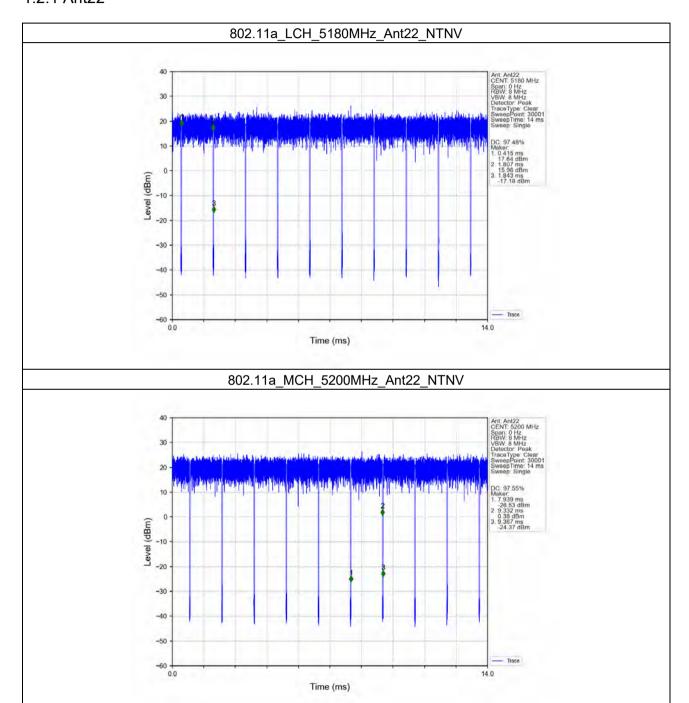
SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 170 of 319

1.2 Test Graph

1.2.1 Ant22





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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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: (85-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

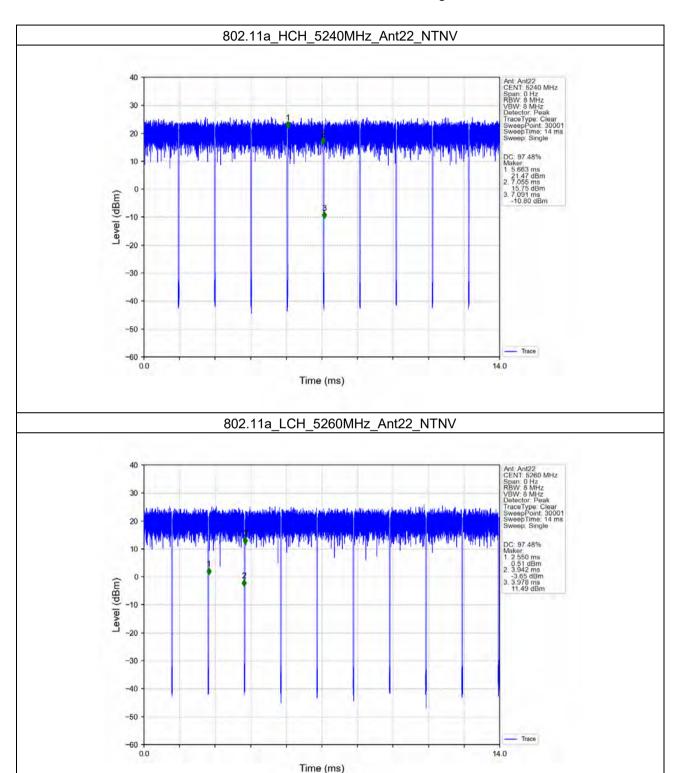
中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 171 of 319





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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's indings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full without prior written approval of the Company. Any unauthorized alteration, forgery 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: (65-755) 8307 1443, or email: CN_Doccheck@sgs.com").

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

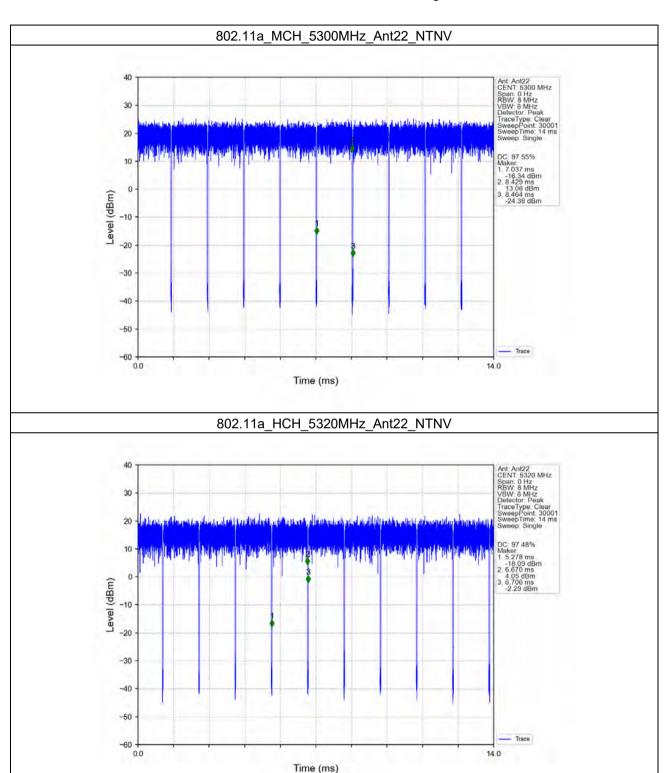
中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 172 of 319





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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's indings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full without prior written approval of the Company. Any unauthorized alteration, forgery 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: (65-755) 8307 1443, or email: CN_Doccheck@sgs.com").

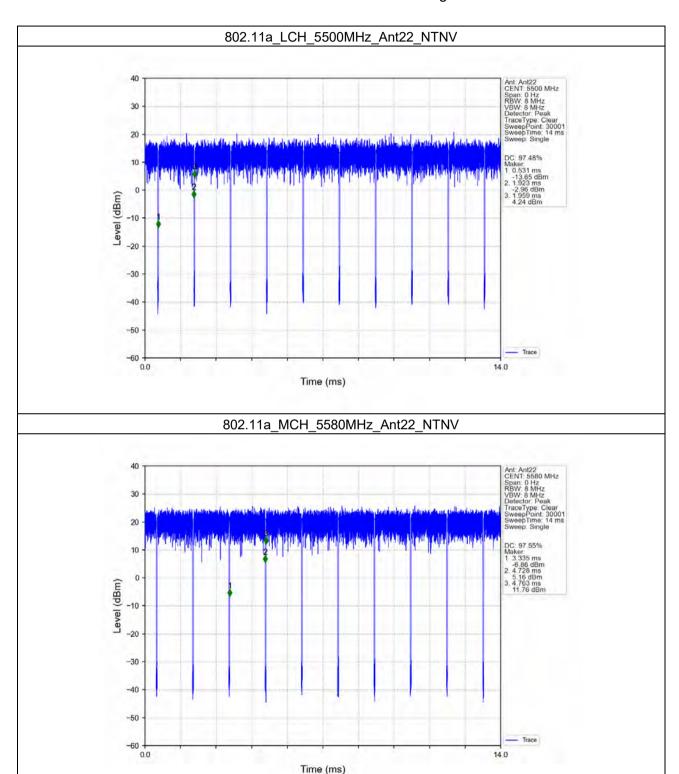
No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 173 of 319





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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's indings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full without prior written approval of the Company. Any unauthorized alteration, forgery 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: (65-755) 8307 1443, or email: CN_Doccheck@sgs.com").

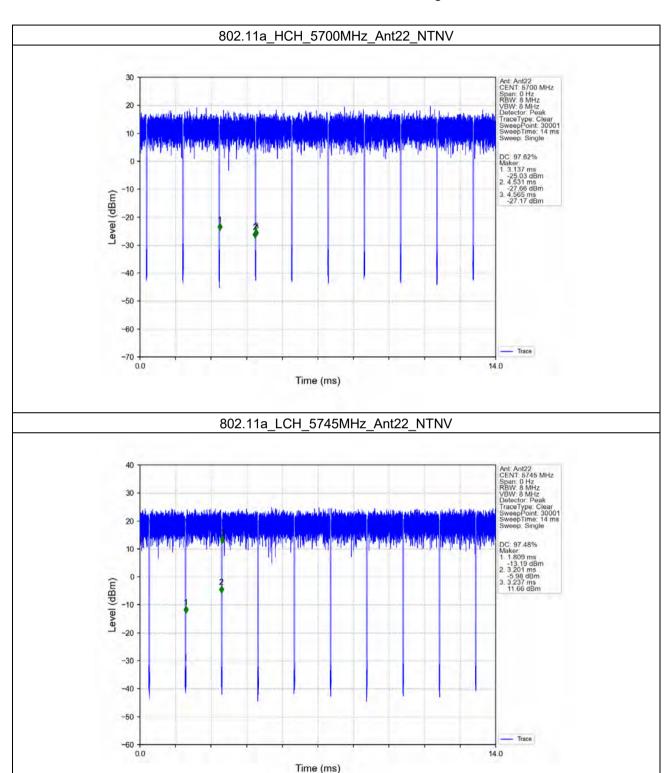
No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 174 of 319





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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's indings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full without prior written approval of the Company. Any unauthorized alteration, forgery 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: (65-755) 8307 1443, or email: CN_Doccheck@sgs.com").

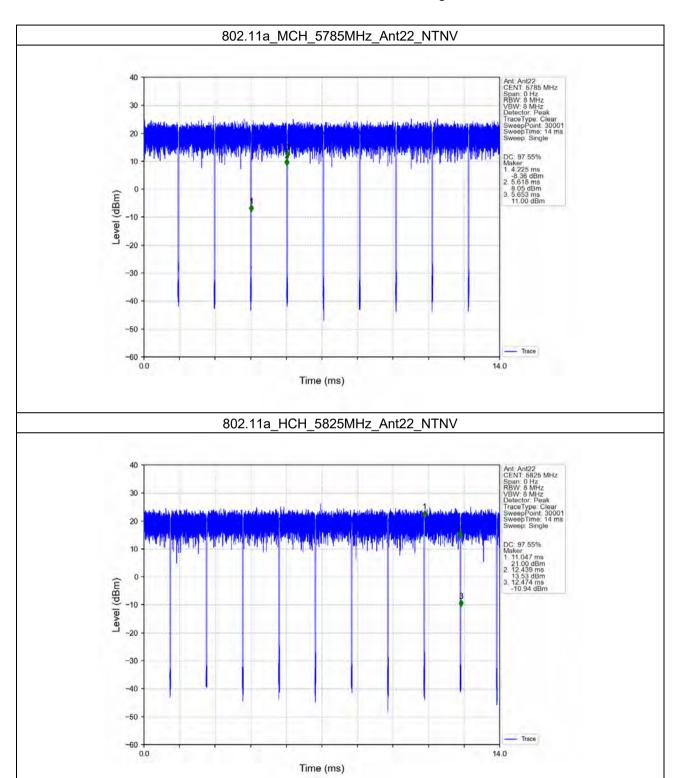
No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 175 of 319





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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's indings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full without prior written approval of the Company. Any unauthorized alteration, forgery 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: (65-755) 8307 1443, or email: CN_Doccheck@sgs.com").

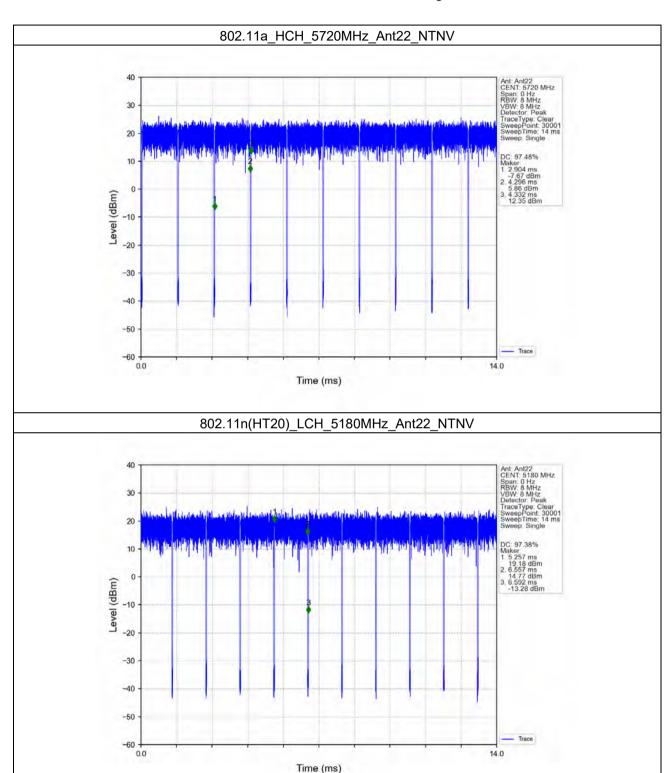
No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 176 of 319





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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's indings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full without prior written approval of the Company. Any unauthorized alteration, forgery 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: (65-755) 8307 1443, or email: CN_Doccheck@sgs.com").

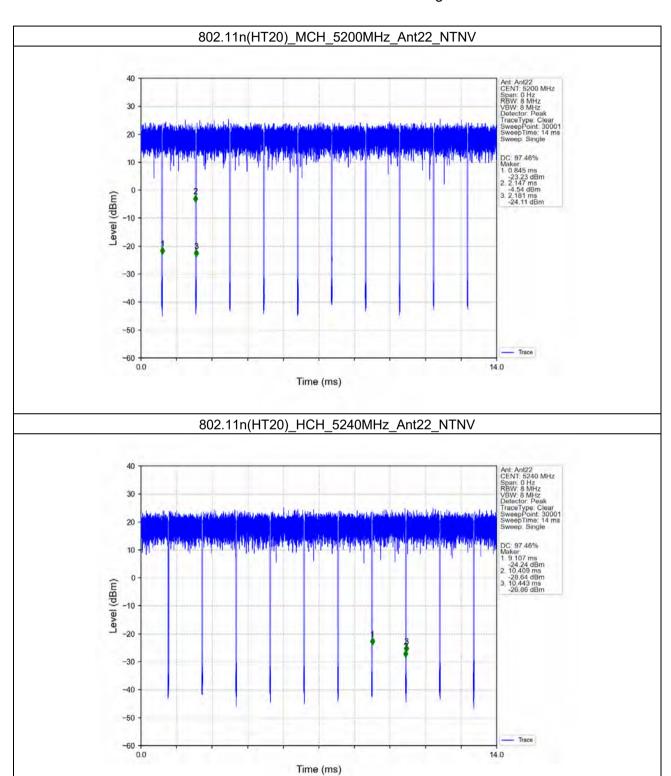
No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 177 of 319





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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's indings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full without prior written approval of the Company. Any unauthorized alteration, forgery 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: (65-755) 8307 1443, or email: CN_Doccheck@sgs.com").

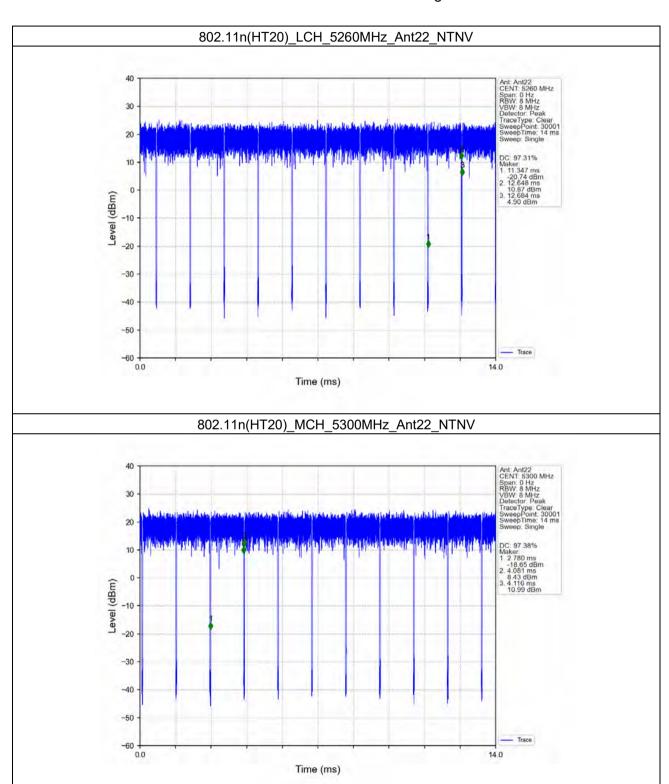
No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 178 of 319





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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's indings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full without prior written approval of the Company. Any unauthorized alteration, forgery 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: (65-755) 8307 1443, or email: CN_Doccheck@sgs.com").

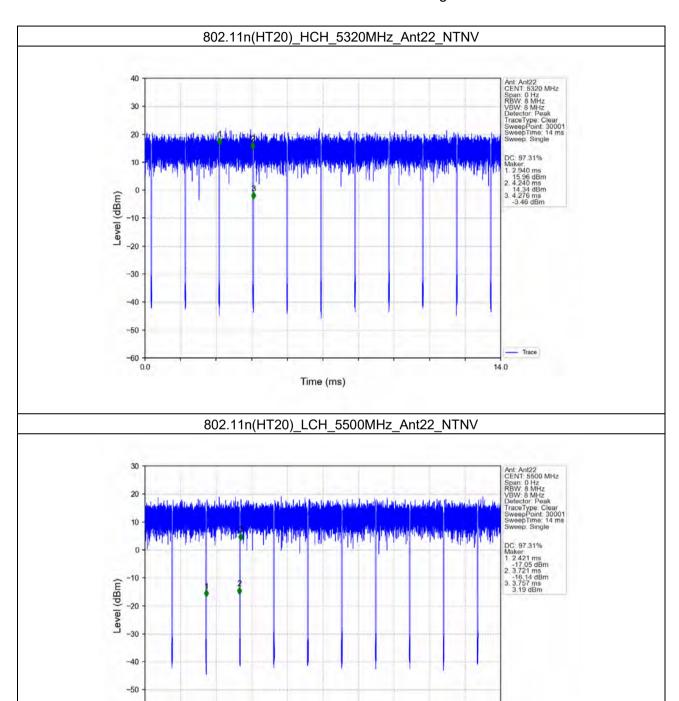
No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 179 of 319





-60

-70 0.0

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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's indings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full without prior written approval of the Company. Any unauthorized alteration, forgery 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: (65-755) 8307 1443, or email: CN_Doccheck@sgs.com").

Time (ms)

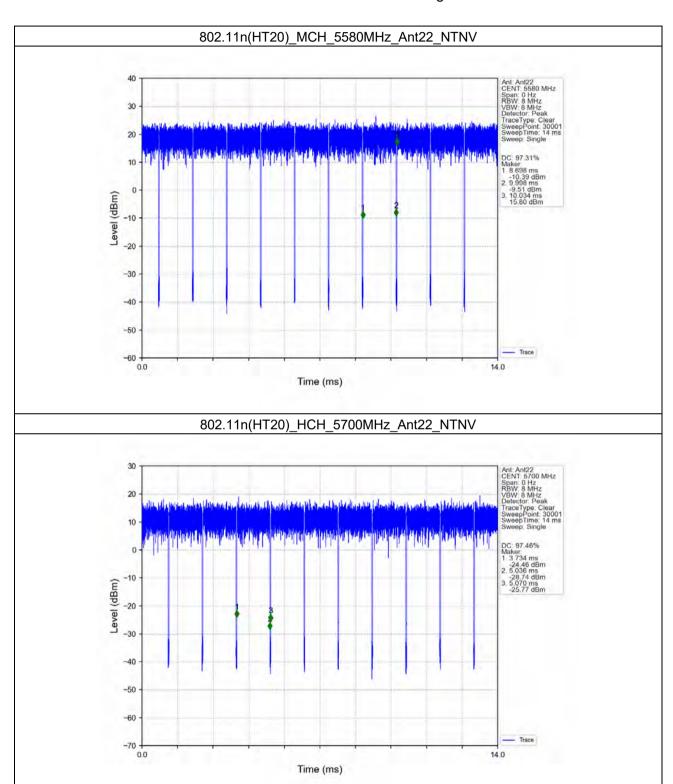
No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 180 of 319





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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's indings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full without prior written approval of the Company. Any unauthorized alteration, forgery 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: (65-755) 8307 1443, or email: CN_Doccheck@sgs.com").

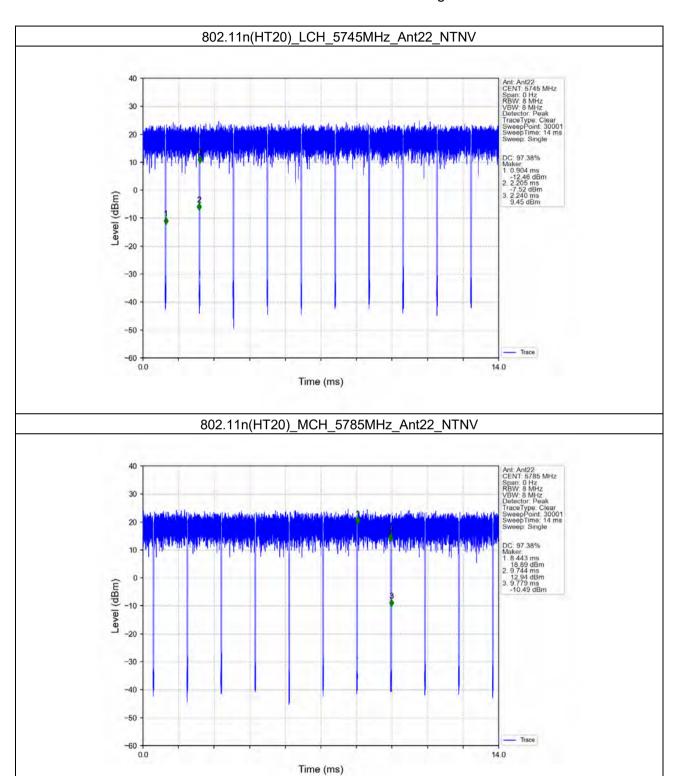
No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 181 of 319





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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's indings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full without prior written approval of the Company. Any unauthorized alteration, forgery 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: (65-755) 8307 1443, or email: CN_Doccheck@sgs.com").

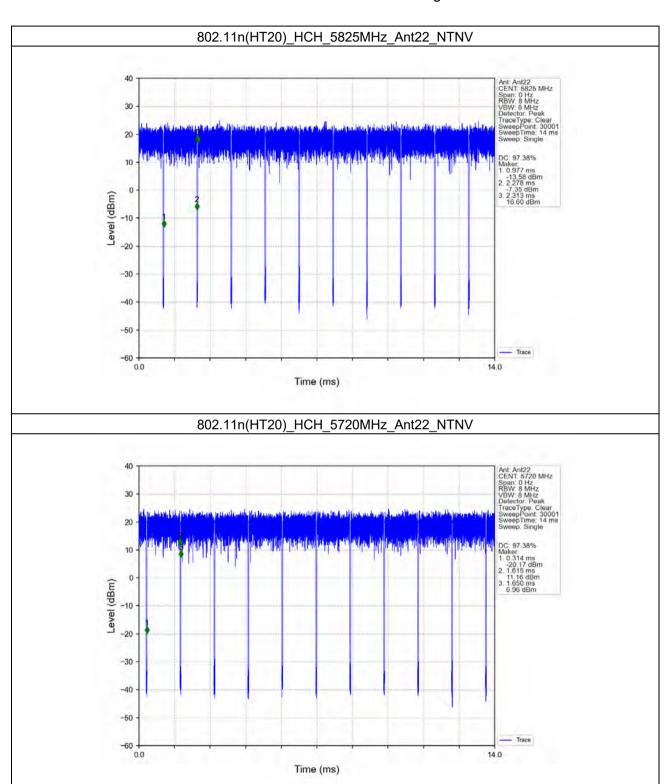
No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 182 of 319





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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's indings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full without prior written approval of the Company. Any unauthorized alteration, forgery 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: (65-755) 8307 1443, or email: CN_Doccheck@sgs.com").

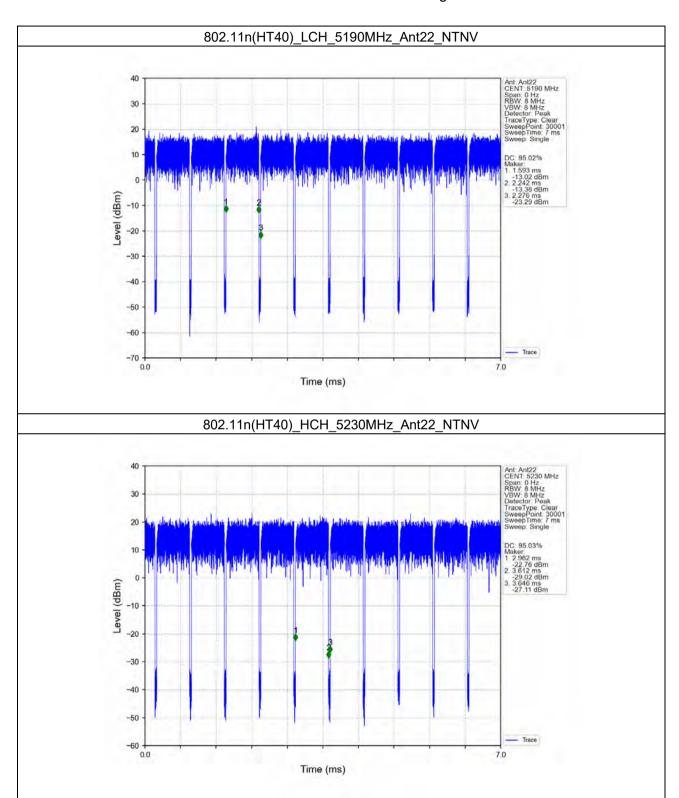
No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 183 of 319





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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's indings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full without prior written approval of the Company. Any unauthorized alteration, forgery 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: (65-755) 8307 1443, or email: CN_Doccheck@sgs.com").

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

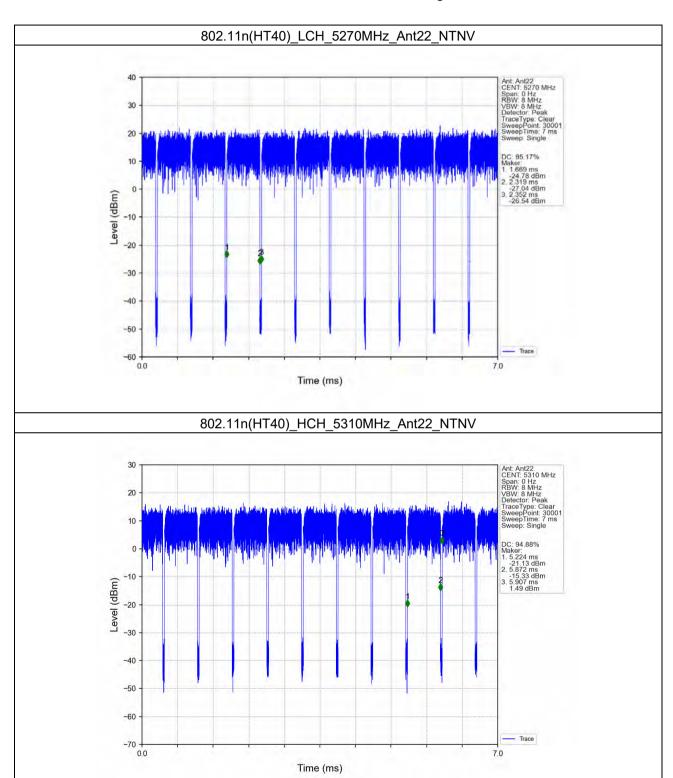
中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 184 of 319





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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's indings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full without prior written approval of the Company. Any unauthorized alteration, forgery 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: (65-755) 8307 1443, or email: CN_Doccheck@sgs.com").

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

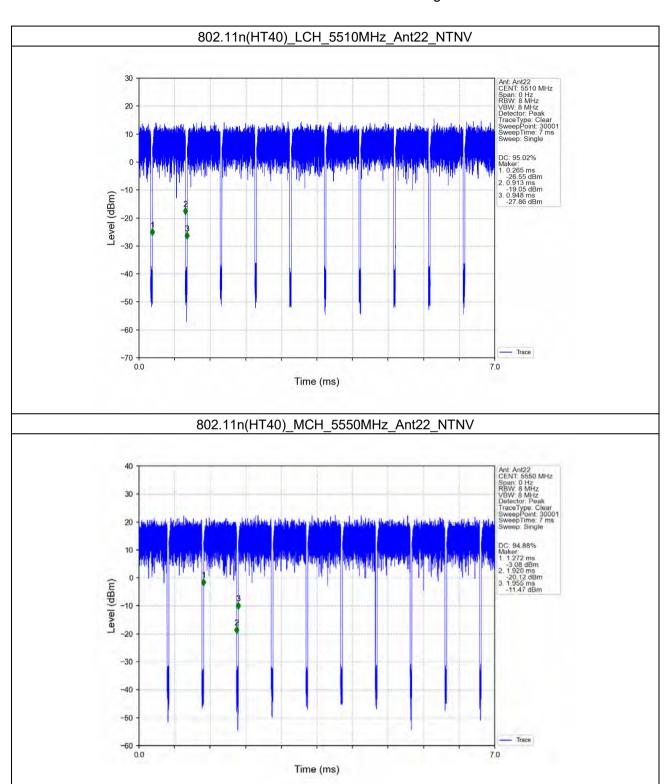
中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 185 of 319





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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's indings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full without prior written approval of the Company. Any unauthorized alteration, forgery 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: (65-755) 8307 1443, or email: CN_Doccheck@sgs.com").

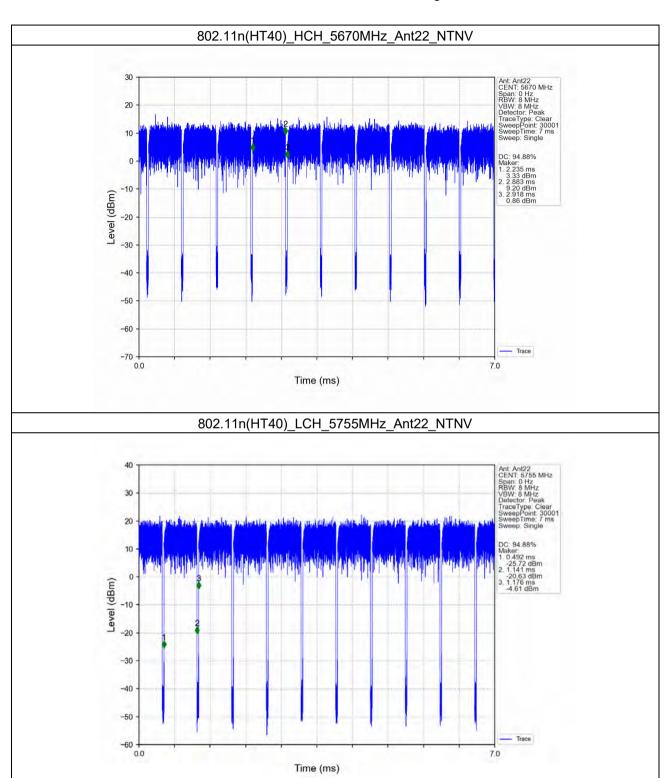
No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 186 of 319





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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's indings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full without prior written approval of the Company. Any unauthorized alteration, forgery 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: (65-755) 8307 1443, or email: CN_Doccheck@sgs.com").

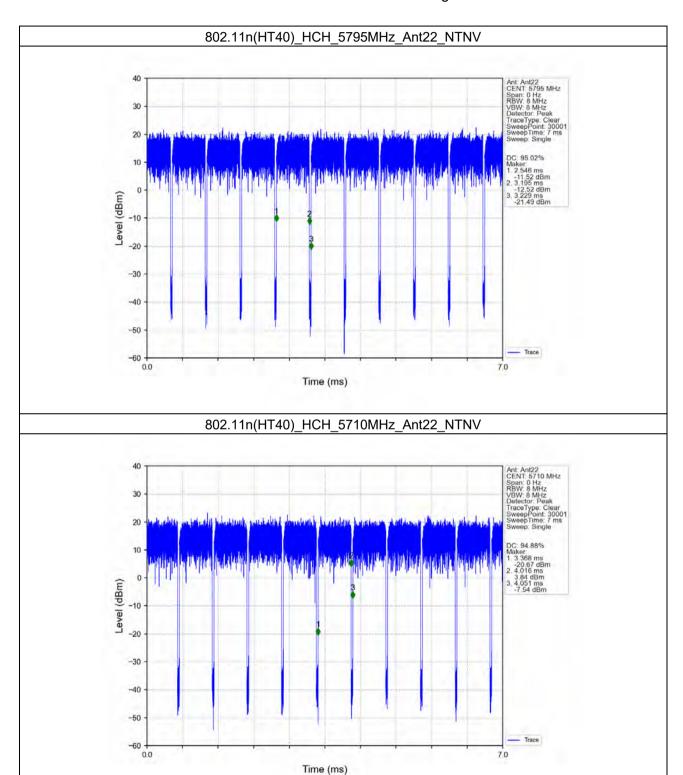
No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 187 of 319





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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's indings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full without prior written approval of the Company. Any unauthorized alteration, forgery 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: (65-755) 8307 1443, or email: CN_Doccheck@sgs.com").

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

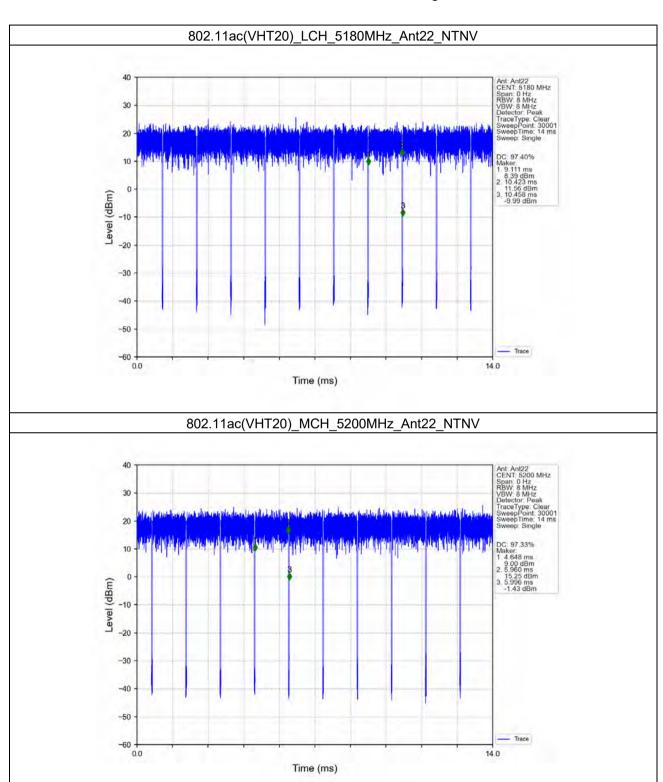
中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 188 of 319





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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's indings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full without prior written approval of the Company. Any unauthorized alteration, forgery 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: (65-755) 8307 1443, or email: CN_Doccheck@sgs.com").

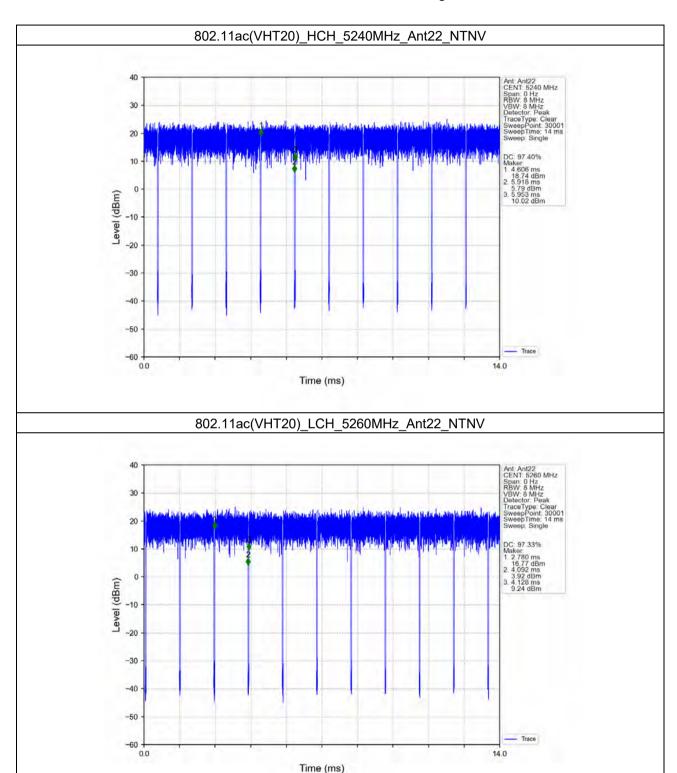
No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 189 of 319





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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's indings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full without prior written approval of the Company. Any unauthorized alteration, forgery 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: (65-755) 8307 1443, or email: CN_Doccheck@sgs.com").

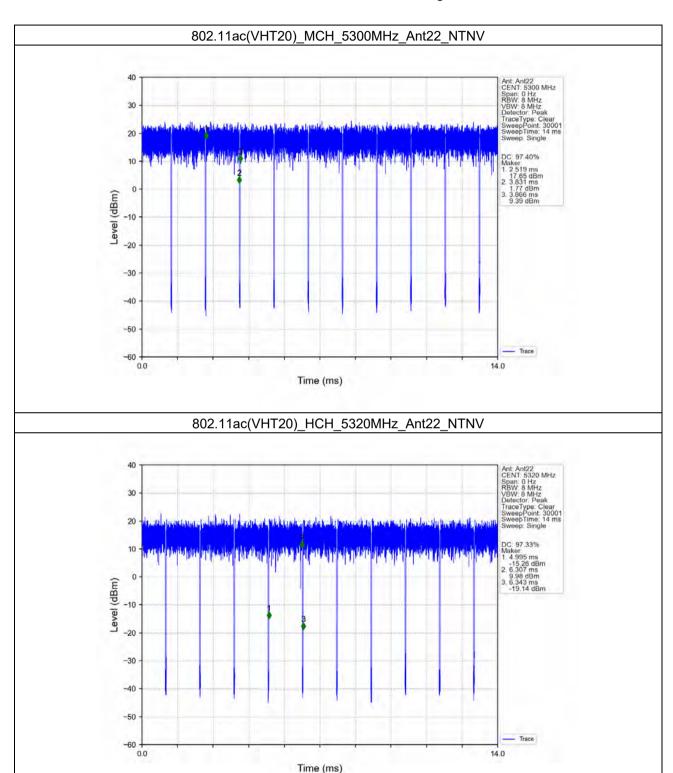
No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 190 of 319





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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's indings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full without prior written approval of the Company. Any unauthorized alteration, forgery 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: (65-755) 8307 1443, or email: CN_Doccheck@sgs.com").

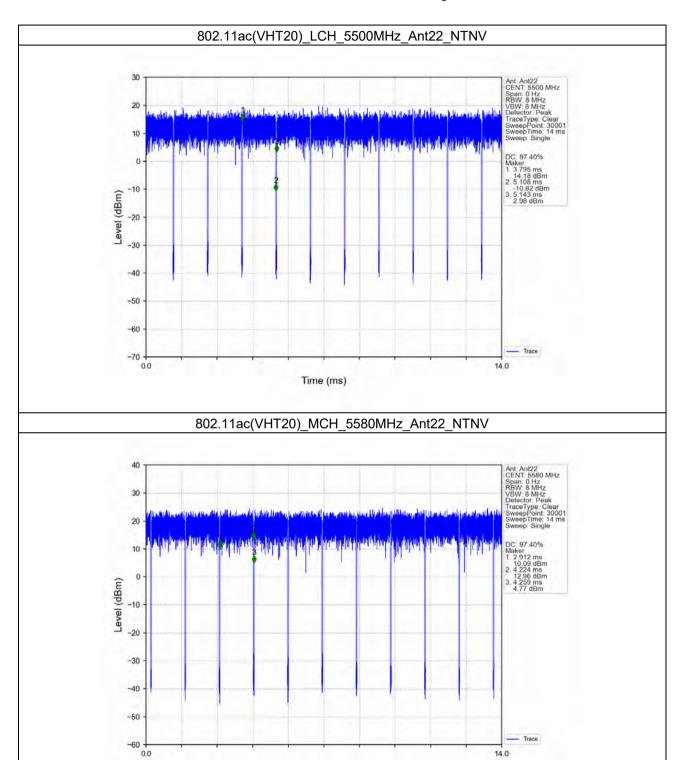
No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 191 of 319





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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's indings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full without prior written approval of the Company. Any unauthorized alteration, forgery 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: (65-755) 8307 1443, or email: CN_Doccheck@sgs.com").

Time (ms)

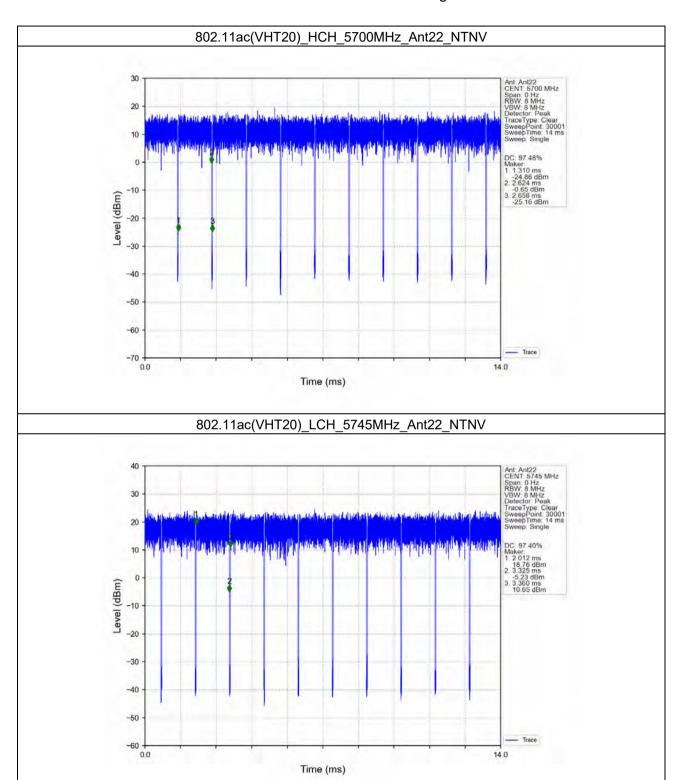
No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 192 of 319





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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's indings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full without prior written approval of the Company. Any unauthorized alteration, forgery 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: (65-755) 8307 1443, or email: CN_Doccheck@sgs.com").

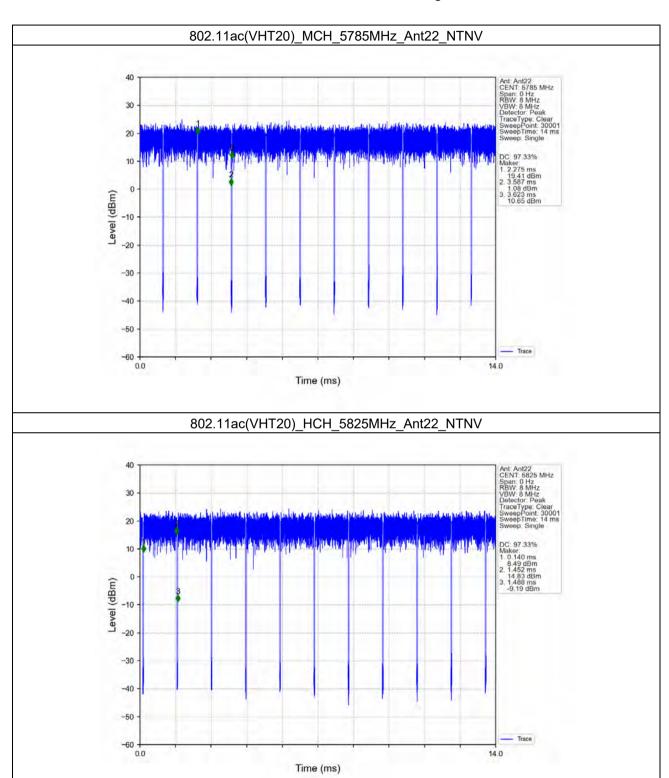
No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 193 of 319





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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's indings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full without prior written approval of the Company. Any unauthorized alteration, forgery 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: (65-755) 8307 1443, or email: CN_Doccheck@sgs.com").

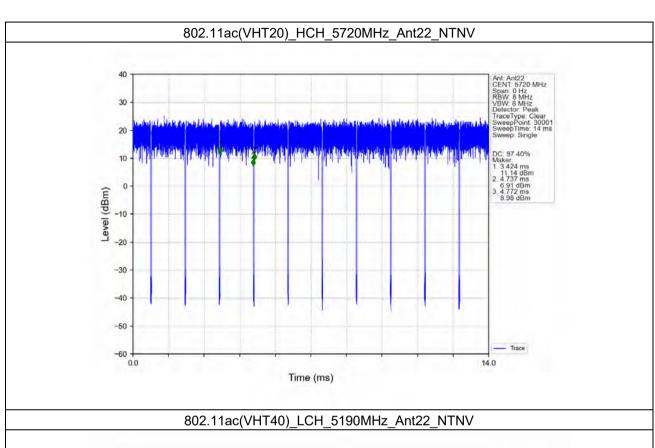
No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

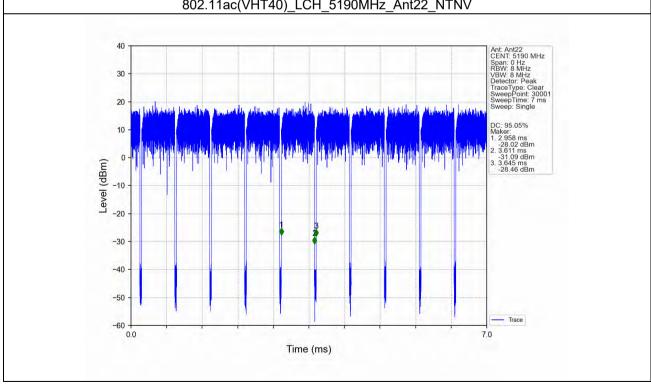


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 194 of 319







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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's indings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full without prior written approval of the Company. Any unauthorized alteration, forgery 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: (65-755) 8307 1443, or email: CN_Doccheck@sgs.com").

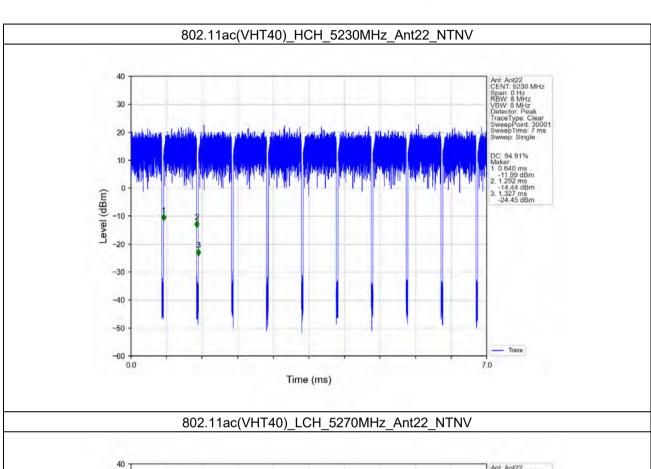
No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

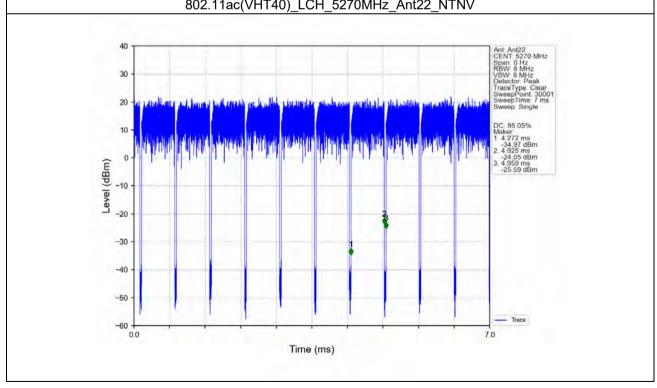


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 195 of 319







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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's indings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full without prior written approval of the Company. Any unauthorized alteration, forgery 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: (65-755) 8307 1443, or email: CN_Doccheck@sgs.com").

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

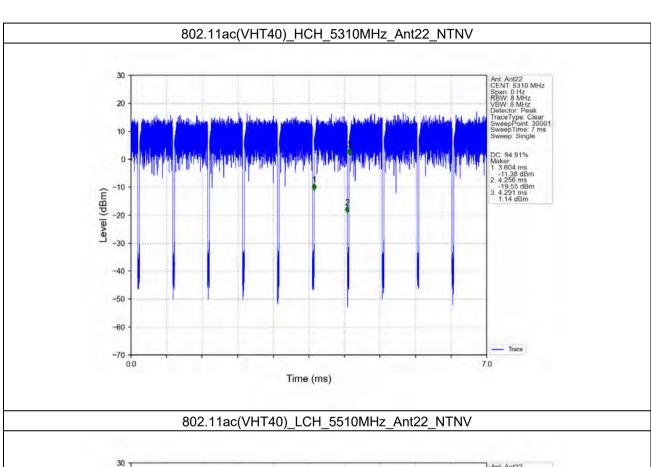
中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057

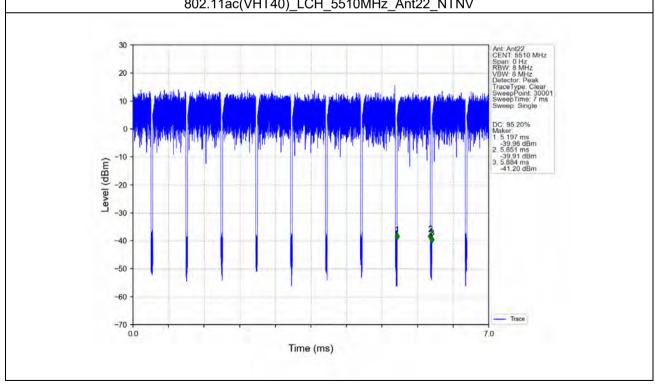


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 196 of 319







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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. 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, **Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone; (86-755) 8307 1443,

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

No.1Workshop, M-10, Midde Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn

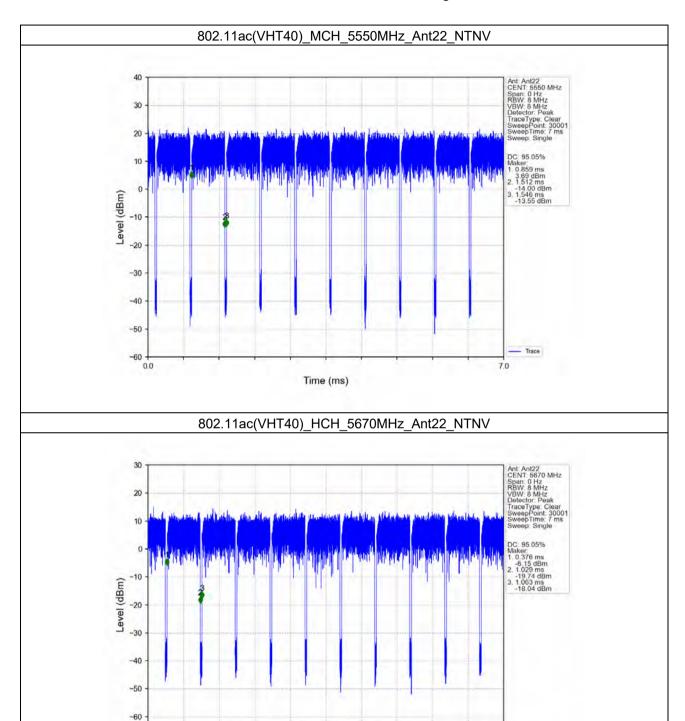
中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 197 of 319





-70 0.0

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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's indings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full without prior written approval of the Company. Any unauthorized alteration, forgery 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: (65-755) 8307 1443, or email: CN_Doccheck@sgs.com").

Time (ms)

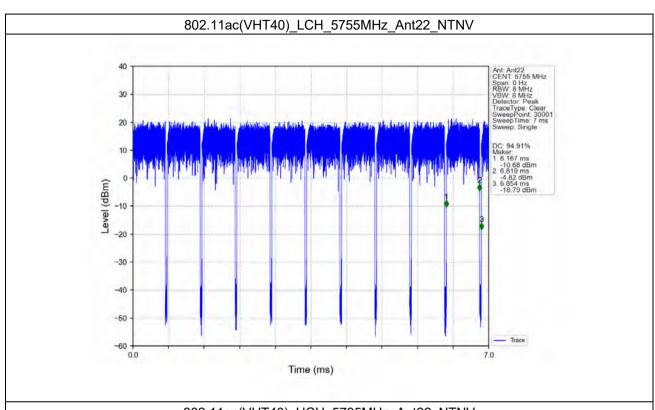
No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057

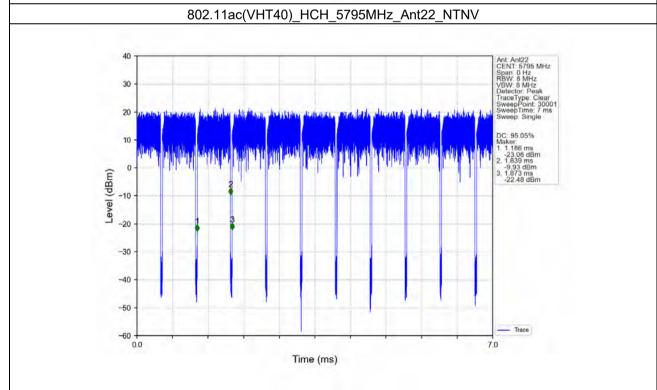


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100007806

Page: 198 of 319







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 https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's indings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full without prior written approval of the Company. Any unauthorized alteration, forgery 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: (65-755) 8307 1443, or email: CN_Doccheck@sgs.com").

No.1 Workshop, Mr-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057