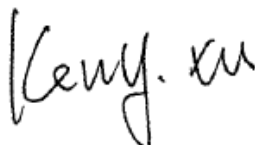


## TEST REPORT

**Application No.:** SZCR2103020011AT  
**Applicant:** Jwipc Technology Co., Ltd.  
**Address of Applicant:** 13/F, Building B, Haisong Edifice, Tairan 9th Road, Futian District, Shenzhen, China  
**Manufacturer:** Jwipc Technology Co., Ltd.  
**Address of Manufacturer:** 13/F, Building B, Haisong Edifice, Tairan 9th Road, Futian District, Shenzhen, China  
**Factory:** Dongguan Scd Technology Co., Ltd.  
**Address of Factory:** No.1 The 2nd Street, Huihuang Industrial Zone, Xiekeng Village, Qingxi Town, Dongguan, 523000 Guangdong, China  
**Equipment Under Test (EUT):**  
**EUT Name:** Android Box  
**Model No.:** D039, DEY21 ♣  
 ♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.  
**Trade Mark:** NONE  
**FCC ID:** 2AYLND039  
**Standard(s) :** 47 CFR Part 15, Subpart E 15.407  
**Date of Receipt:** 2021-03-24  
**Date of Test:** 2021-04-15 to 2021-05-08  
**Date of Issue:** 2021-05-10

<b>Test Result:</b>	<b>Pass*</b>
---------------------	--------------

\* In the configuration tested, the EUT complied with the standards specified above.



Keny Xu  
EMC Laboratory Manager



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

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
**Attention:** To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)  
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-05-10		Original

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

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

## 2 Test Summary

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

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & 15.407 b(6)	Pass
Duty Cycle		KDB 789033 II B 1	KDB 789033 D02 II B 1	Pass
99% Bandwidth		KDB 789033 II D	N/A	Pass
26dB Emission bandwidth		KDB 789033 D02 II C 1	47 CFR Part 15, Subpart C 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band )		KDB 789033 D02 II C 2	47 CFR Part 15, Subpart C 15.407 (e)	Pass
Maximum Conducted output power		KDB 789033 D02 II E	47 CFR Part 15, Subpart C 15.407 (a)	Pass
Peak Power spectrum density		KDB 789033 D02 II F	47 CFR Part 15, Subpart C 15.407 (a)	Pass
Radiated Emissions (Above 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart C 15.407 (g)	Pass
Channel Move Time		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
Radiated Emissions (Below 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass

### Declaration of EUT Family Grouping:

Model No.: D039, DEY21

Only the model D039 was tested. According to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on model.



### 3 Contents

	Page
1 COVER PAGE .....	1
2 TEST SUMMARY .....	3
3 CONTENTS .....	4
4 GENERAL INFORMATION .....	6
4.1 DETAILS OF E.U.T. ....	6
4.2 DESCRIPTION OF SUPPORT UNITS .....	7
4.3 MEASUREMENT UNCERTAINTY .....	7
4.4 TEST LOCATION.....	8
4.5 TEST FACILITY.....	8
4.6 DEVIATION FROM STANDARDS.....	8
4.7 ABNORMALITIES FROM STANDARD CONDITIONS .....	8
5 EQUIPMENT LIST.....	9
6 RADIO SPECTRUM TECHNICAL REQUIREMENT .....	15
6.1 ANTENNA REQUIREMENT .....	15
6.1.1 Test Requirement: .....	15
6.1.2 Conclusion .....	15
6.2 TRANSMISSION IN THE ABSENCE OF DATA.....	16
6.2.1 Test Requirement: .....	16
6.2.2 Conclusion .....	16
7 RADIO SPECTRUM MATTER TEST RESULTS.....	17
7.1 CONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHZ).....	17
7.1.1 E.U.T. Operation .....	17
7.1.2 Test Mode Description.....	17
7.1.3 Test Setup Diagram.....	18
7.1.4 Measurement Procedure and Data.....	18
7.2 DUTY CYCLE .....	23
7.2.1 E.U.T. Operation .....	23
7.2.2 Test Mode Description.....	23
7.2.3 Test Setup Diagram.....	24
7.2.4 Measurement Procedure and Data.....	24
7.3 99% BANDWIDTH .....	25
7.3.1 E.U.T. Operation .....	25
7.3.2 Test Mode Description.....	25
7.3.3 Test Setup Diagram.....	26
7.3.4 Measurement Procedure and Data.....	26
7.4 26dB EMISSION BANDWIDTH .....	27
7.4.1 E.U.T. Operation .....	27
7.4.2 Test Mode Description.....	27
7.4.3 Test Setup Diagram.....	28
7.4.4 Measurement Procedure and Data.....	28
7.5 MINIMUM 6 dB BANDWIDTH (5.725-5.85 GHZ BAND ) .....	29



7.5.1	E.U.T. Operation .....	29
7.5.2	Test Mode Description .....	29
7.5.3	Test Setup Diagram .....	29
7.5.4	Measurement Procedure and Data .....	29
7.6	MAXIMUM CONDUCTED OUTPUT POWER .....	30
7.6.1	E.U.T. Operation .....	30
7.6.2	Test Mode Description .....	30
7.6.3	Test Setup Diagram .....	31
7.6.4	Measurement Procedure and Data .....	31
7.7	PEAK POWER SPECTRUM DENSITY .....	32
7.7.1	E.U.T. Operation .....	32
7.7.2	Test Mode Description .....	32
7.7.3	Test Setup Diagram .....	33
7.7.4	Measurement Procedure and Data .....	33
7.8	RADIATED EMISSIONS (ABOVE 1GHz) .....	34
7.8.1	E.U.T. Operation .....	35
7.8.2	Test Mode Description .....	35
7.8.3	Test Setup Diagram .....	36
7.8.4	Measurement Procedure and Data .....	37
7.9	RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS .....	156
7.9.1	E.U.T. Operation .....	156
7.9.2	Test Mode Description .....	157
7.9.3	Test Setup Diagram .....	158
7.9.4	Measurement Procedure and Data .....	159
7.10	FREQUENCY STABILITY .....	306
7.10.1	E.U.T. Operation .....	306
7.10.2	Test Mode Description .....	306
7.10.3	Test Setup Diagram .....	307
7.10.4	Measurement Procedure and Data .....	307
7.11	CHANNEL MOVE TIME .....	308
7.11.1	E.U.T. Operation .....	309
7.11.2	Test Mode Description .....	309
7.11.3	Test Setup Diagram .....	309
7.11.4	Measurement Procedure and Data .....	310
7.12	CHANNEL CLOSING TRANSMISSION TIME .....	311
7.12.1	E.U.T. Operation .....	312
7.12.2	Test Mode Description .....	312
7.12.3	Test Setup Diagram .....	312
7.12.4	Measurement Procedure and Data .....	313
7.13	RADIATED EMISSIONS (BELOW 1GHz) .....	314
7.13.1	E.U.T. Operation .....	314
7.13.2	Test Mode Description .....	314
7.13.3	Test Setup Diagram .....	315
7.13.4	Measurement Procedure and Data .....	316
8	TEST SETUP PHOTO .....	323
9	EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS) .....	323
10	APPENDIX .....	324



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

Attention: To check the authenticity of testing / inspection report and certificate, please contact us at telephone: (86-755) 83071443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

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

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

## 4 General Information

### 4.1 Details of E.U.T.

Power supply:	Input: DC 12.0V, 3A from AC/DC Adapter Model1:KPL-040F-VI Manufacturer: Channel Well Technology Input:AC100-240V, 50/60Hz, 1.7A Output:DC12.0V, 3.33A Model2:WA-36A12R Manufacturer: Asian Power Devices Inc. Input:AC100-240V, 50/60Hz, 0.9A Output:DC12.0V, 3.0A Remote Control: DC 3.0V (2 x "AAA" Batteries)			
Test Voltage:	AC 120V, 60Hz			
DFS Function:	Slave without Radar detection			
TPC Function:	Without TPC function			
Antenna Type:	Dipole Antenna			
Antenna Gain:	Antenna 1&2: 5.34dBi Directional Gain: 8.35dBi			
Remark:	Two AC/DC adapters were tested. The test data of two AC/DC adapters for Conducted Emissions at AC Power Line (150kHz-30MHz) and Radiated Spurious Emissions below 1GHz were recorded in the report. For other tests, only the worst case(Adapter: KPL-040F-VI) were recorded in the report.			
Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels
	UNII Band I	802.11a/n(HT20)/ac(VHT20)	5180-5240	4
		802.11n(HT40)/ac(VHT40)	5190-5230	2
		802.11ac(VHT80)	5210	1
	UNII Band II-A	802.11a/n(HT20)/ac(VHT20)	5260-5320	4
		802.11n(HT40)/ac(VHT40)	5270-5310	2
		802.11ac(VHT80)	5290	1
	UNII Band II-C	802.11a/n(HT20)/ac(VHT20)	5500-5700	11
		802.11n(HT40)/ac(VHT40)	5510-5670	5
		802.11ac(VHT80)	5530-5610	2
	UNII Band III	802.11a/n(HT20)/ac(VHT20)	5745-5825	5
		802.11n(HT40)/ac(VHT40)	5755-5795	2
		802.11ac(VHT80)	5775	1
Modulation Type:	802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)			
Channel Spacing:	802.11a/n(HT20)/ac(VHT20): 20MHz 802.11n(HT40)/ac(VHT40): 40MHz 802.11ac(VHT80): 80MHz			



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

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: [CN.Qdoccheck@sgs.com](mailto:CN.Qdoccheck@sgs.com)

## 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--
The EUT has been tested as an independent unit.			

## 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	$\pm 3.0\text{dB}$ (150kHz to 30MHz)
Duty Cycle	$\pm 0.37\%$
99% Bandwidth	$\pm 3\%$
26dB Emission bandwidth	$\pm 3\%$
Minimum 6 dB bandwidth (5.725-5.85 GHz band )	$\pm 3\%$
Maximum Conducted output power	$\pm 0.75\text{dB}$
Peak Power spectrum density	$\pm 2.84\text{dB}$
Radiated Emissions (Above 1GHz)	$\pm 4.8\text{dB}$
Radiated Emissions which fall in the restricted bands	$\pm 4.5\text{dB}$ (below 1GHz); $\pm 4.8\text{dB}$ (above 1GHz);
Frequency Stability	$\pm 7.25 \times 10^{-8}$
Radiated Emissions (Below 1GHz)	$\pm 4.5\text{dB}$

### Remark:

The  $U_{\text{lab}}$  (lab Uncertainty) is less than  $U_{\text{CISPR}}$  (CISPR 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.

#### 4.4 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, Shenzhen, Guangdong, China. 518057.

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

No tests were sub-contracted.

#### 4.5 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**

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. 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: CN1178**

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

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

- **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.

#### 4.6 Deviation from Standards

None

#### 4.7 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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
**Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com**

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

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

## 5 Equipment List

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	2019-06-13	2022-06-12
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2021-03-24	2022-03-23
Switch	WEINSCHL ENGINEERING	1506A	SEN009-01	N/A	N/A
Matching Pad	anzac	PT-75	SEN009-02	N/A	N/A
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2020-07-10	2021-07-09
LISN	Rohde&Schwarz	ENV216	SEM007-01	2020-09-23	2021-09-22
LISN	ETS-LINDGREN	3816/2	SEM007-02	2021-03-24	2022-03-25

Duty Cycle					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2021-04-08	2022-04-07
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021-03-23	2022-03-22

99% Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2021-04-08	2022-04-07
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021-03-23	2022-03-22



26dB Emission bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2021-04-08	2022-04-07
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021-03-23	2022-03-22

Minimum 6 dB bandwidth (5.725-5.85 GHz band )					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2021-04-08	2022-04-07
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021-03-23	2022-03-22

Maximum Conducted output power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2021-04-08	2022-04-07
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021-03-23	2022-03-22



Peak Power spectrum density					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2021-04-08	2022-04-07
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021-03-23	2022-03-22

Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2021-03-26	2024-03-25
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2021-02-01	2022-01-31
Horn Antenna	Rohde&Schwarz	HF906	SHEM009-2	2020-07-27	2022-07-26
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2020-11-14	2023-11-13
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2021-03-26	2024-03-25
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2021-02-01	2022-01-31
Horn Antenna	Rohde&Schwarz	HF906	SHEM009-2	2020-07-27	2022-07-26
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09



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

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Frequency Stability					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2021-04-08	2022-04-07
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021-03-23	2022-03-22

Channel Move Time					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR433	SEM001-11	2019-06-13	2022-06-12
EXA Signal Analyzer	KEYSIGHT	N9010A	SEM004-09	2021-04-08	2022-04-07
Signal Generator	KEYSIGHT	N5171B	SEM006-13	2021-03-24	2022-03-23
MXG Vector Signal Generator	KEYSIGHT	N5182A	SEM006-14	2021-03-24	2022-03-23
ESG Vector Signal Generator	KEYSIGHT	E4438C	SEM006-15	2020-09-23	2021-09-22
DC Power Supply	KEYSIGHT	E3642A	SEM011-07	2021-03-23	2022-03-22
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2021-04-08	2022-04-07
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2021-04-08	2022-04-07
Power Sensor	KEYSIGHT	U2021XA	SEM009-13	2021-03-24	2022-03-23
Power Sensor	KEYSIGHT	U2021XA	SEM009-14	2021-03-24	2022-03-23
Programmable Temperature&Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021-03-23	2022-03-22
Universal Radio Communication Tester	Rohde&Schwarz	CMW500	SEM010-03	2021-03-24	2022-03-23
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.6	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM028-01	2020-07-10	2021-07-09



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

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

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

Channel Closing Transmission Time					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR433	SEM001-11	2019-06-13	2022-06-12
EXA Signal Analyzer	KEYSIGHT	N9010A	SEM004-09	2021-04-08	2022-04-07
Signal Generator	KEYSIGHT	N5171B	SEM006-13	2021-03-24	2022-03-23
MXG Vector Signal Generator	KEYSIGHT	N5182A	SEM006-14	2021-03-24	2022-03-23
ESG Vector Signal Generator	KEYSIGHT	E4438C	SEM006-15	2020-09-23	2021-09-22
DC Power Supply	KEYSIGHT	E3642A	SEM011-07	2021-03-23	2022-03-22
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2021-04-08	2022-04-07
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2021-04-08	2022-04-07
Power Sensor	KEYSIGHT	U2021XA	SEM009-13	2021-03-24	2022-03-23
Power Sensor	KEYSIGHT	U2021XA	SEM009-14	2021-03-24	2022-03-23
Programmable Temperature&Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021-03-23	2022-03-22
Universal Radio Communication Tester	Rohde&Schwarz	CMW500	SEM010-03	2021-03-24	2022-03-23
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.6	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM028-01	2020-07-10	2021-07-09

Radiated Emissions (Below 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2021-03-27	2024-03-26
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2020-11-02	2021-11-01
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2019-08-08	2022-08-07
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2021-04-08	2022-04-07
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2020-08-14	2023-08-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2020-07-10	2021-07-09

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2021-03-30	2022-03-29



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

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

## 6 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

Standard 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 antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an 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 antennas dipole Antennas. The best case gain of the antennas are 5.34dBi.

Antenna location: Refer to External photos.



## 6.2 Transmission in the Absence of Data

### 6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 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.



## 7 Radio Spectrum Matter Test Results

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

Test Requirement 47 CFR Part 15, Subpart C 15.207 & 15.407 b(6)  
Test Method: ANSI C63.10 (2013) Section 6.2  
Limit:

Frequency of emission(MHz)	Conducted limit(dB $\mu$ V)	
	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: 24.2 °C Humidity: 50.3 % RH Atmospheric Pressure: 1010 mbar

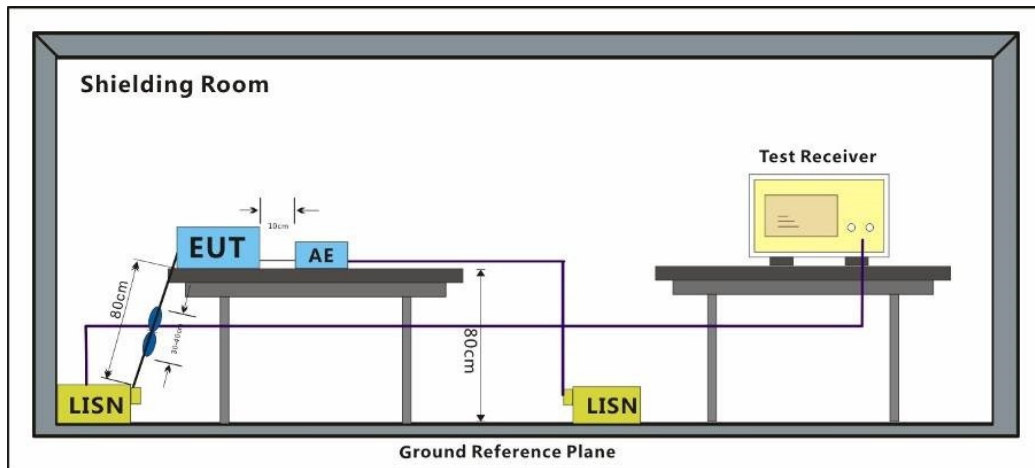
#### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Pre-scan	04	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Pre-scan	05	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



Pre-scan	06	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
----------	----	---

### 7.1.3 Test Setup Diagram



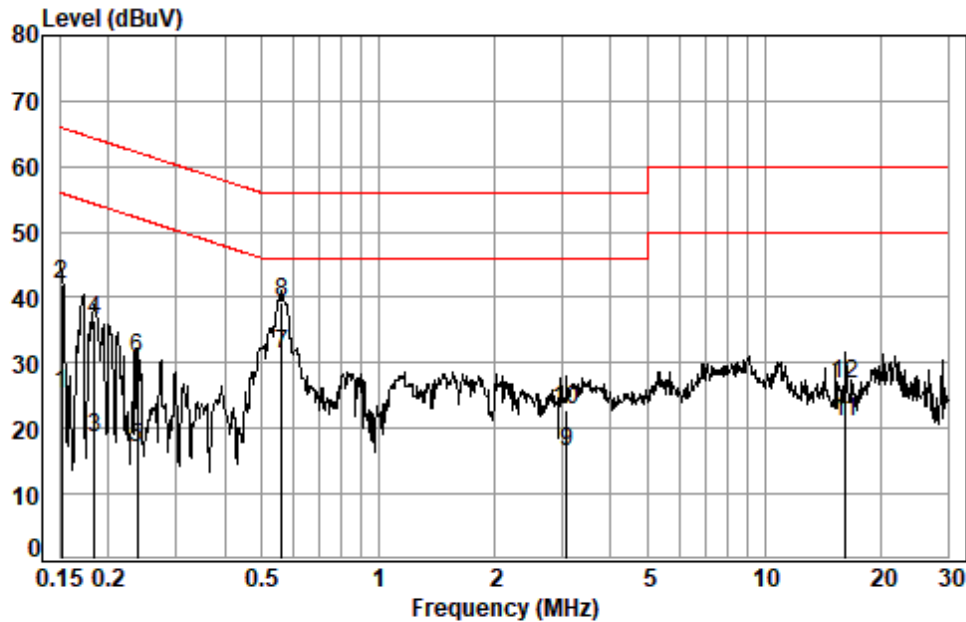
### 7.1.4 Measurement Procedure and Data

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



Model1:KPL-040F-VI;Test Mode: 03; Line: Live line; Modulation:802.11n; Bandwidth:20MHz; Channel:High

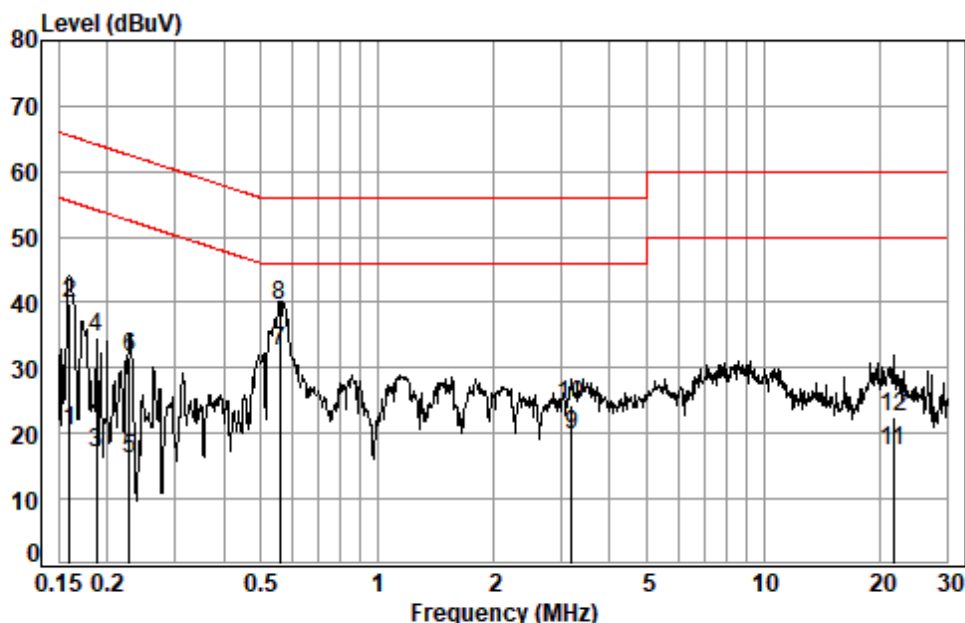


Site : Shielding Room  
Condition: Line  
Job No. : 20011AT  
Test mode: 03

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1516	0.03	9.62	15.54	25.19	55.91	-30.72	Average
2	0.1516	0.03	9.62	32.31	41.96	65.91	-23.95	QP
3	0.1844	0.03	9.64	8.98	18.65	54.28	-35.63	Average
4	0.1844	0.03	9.64	26.87	36.54	64.28	-27.74	QP
5	0.2378	0.04	9.65	7.43	17.12	52.17	-35.05	Average
6	0.2378	0.04	9.65	20.88	30.57	62.17	-31.60	QP
7	0.5611	0.08	9.68	21.70	31.46	46.00	-14.54	Average
8	0.5611	0.08	9.68	29.44	39.20	56.00	-16.80	QP
9	3.0738	0.14	9.71	6.54	16.39	46.00	-29.61	Average
10	3.0738	0.14	9.71	13.02	22.87	56.00	-33.13	QP
11	16.2256	0.16	9.95	11.01	21.12	50.00	-28.88	Average
12	16.2256	0.16	9.95	16.61	26.72	60.00	-33.28	QP



Model1:KPL-040F-VI;Test Mode: 03; Line: Neutral Line; Modulation:802.11n; Bandwidth:20MHz; Channel:High

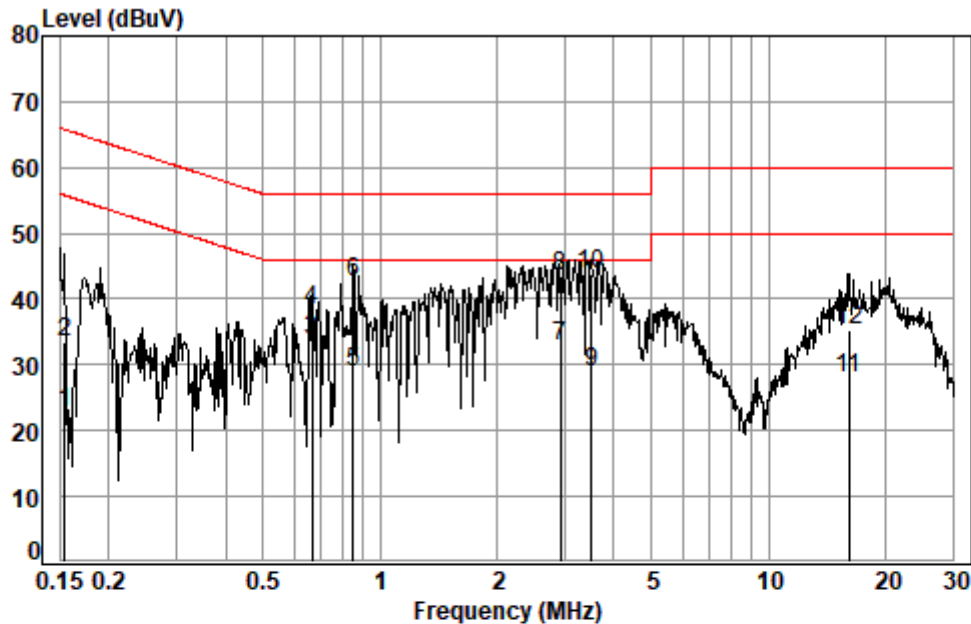


Site : Shielding Room  
Condition: Neutral  
Job No. : 20011AT  
Test mode: 03

	Freq	Cable Loss	LISN Factor	Read Level	Limit	Over	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.1598	0.03	9.63	10.82	20.48	55.47	Average
2	0.1598	0.03	9.63	30.08	39.74	65.47	QP
3	0.1874	0.03	9.63	7.51	17.17	54.15	Average
4	0.1874	0.03	9.63	24.94	34.60	64.15	QP
5	0.2280	0.04	9.64	6.49	16.17	52.52	Average
6	0.2280	0.04	9.64	21.91	31.59	62.52	QP
7	0.5581	0.08	9.67	22.66	32.41	46.00	Average
8	0.5581	0.08	9.67	29.71	39.46	56.00	QP
9	3.1900	0.14	9.71	9.83	19.68	46.00	Average
10	3.1900	0.14	9.71	14.57	24.42	56.00	QP
11	21.7149	0.17	10.00	7.14	17.31	50.00	Average
12	21.7149	0.17	10.00	12.48	22.65	60.00	QP



Model2:WA-36A12R; Test Mode: 03; Line: Live line; Modulation:802.11n; Bandwidth:20MHz; Channel:High

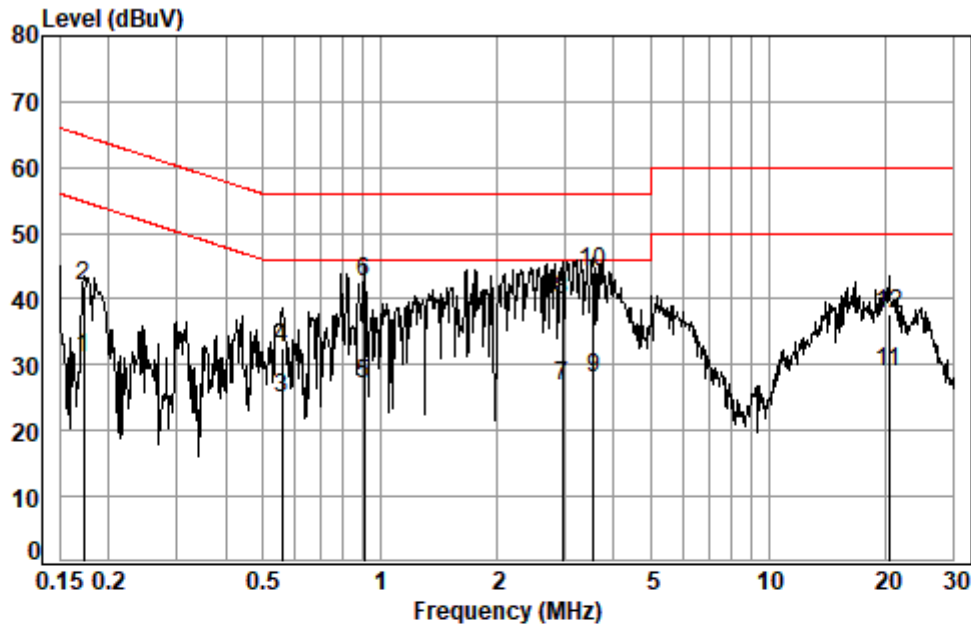


Site : Shielding Room  
Condition: Line  
Job No. : 20011AT  
Test mode: 03

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1540	0.03	9.62	13.11	22.76	55.78	-33.02	Average
2	0.1540	0.03	9.62	23.84	33.49	65.78	-32.29	QP
3	0.6683	0.08	9.68	24.09	33.85	46.00	-12.15	Average
4	0.6683	0.08	9.68	28.69	38.45	56.00	-17.55	QP
5	0.8528	0.09	9.68	19.17	28.94	46.00	-17.06	Average
6	0.8528	0.09	9.68	32.67	42.44	56.00	-13.56	QP
7	2.9152	0.14	9.71	22.98	32.83	46.00	-13.17	Average
8	2.9152	0.14	9.71	33.61	43.46	56.00	-12.54	QP
9	3.5092	0.15	9.73	18.97	28.85	46.00	-17.15	Average
10	3.5092	0.15	9.73	33.97	43.85	56.00	-12.15	QP
11	16.1399	0.16	9.95	17.77	27.88	50.00	-22.12	Average
12	16.1399	0.16	9.95	25.08	35.19	60.00	-24.81	QP



Model2:WA-36A12R;Test Mode: 03; Line: Neutral Line; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : Shielding Room  
Condition: Neutral  
Job No. : 20011AT  
Test mode: 03

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1731	0.03	9.63	21.47	31.13	54.81	-23.68	Average
2	0.1731	0.03	9.63	32.27	41.93	64.81	-22.88	QP
3	0.5581	0.08	9.67	15.25	25.00	46.00	-21.00	Average
4	0.5581	0.08	9.67	22.90	32.65	56.00	-23.35	QP
5	0.9087	0.10	9.67	17.18	26.95	46.00	-19.05	Average
6	0.9087	0.10	9.67	32.68	42.45	56.00	-13.55	QP
7	2.9463	0.14	9.70	16.88	26.72	46.00	-19.28	Average
8	2.9463	0.14	9.70	29.98	39.82	56.00	-16.18	QP
9	3.5466	0.15	9.72	18.24	28.11	46.00	-17.89	Average
10	3.5466	0.15	9.72	34.17	44.04	56.00	-11.96	QP
11	20.4855	0.17	9.98	18.76	28.91	50.00	-21.09	Average
12	20.4855	0.17	9.98	27.52	37.67	60.00	-22.33	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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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

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

## 7.2 Duty Cycle

Test Requirement KDB 789033 D02 II B 1

Test Method: KDB 789033 II B 1

### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 18.4 °C

Humidity: 48.1 % RH

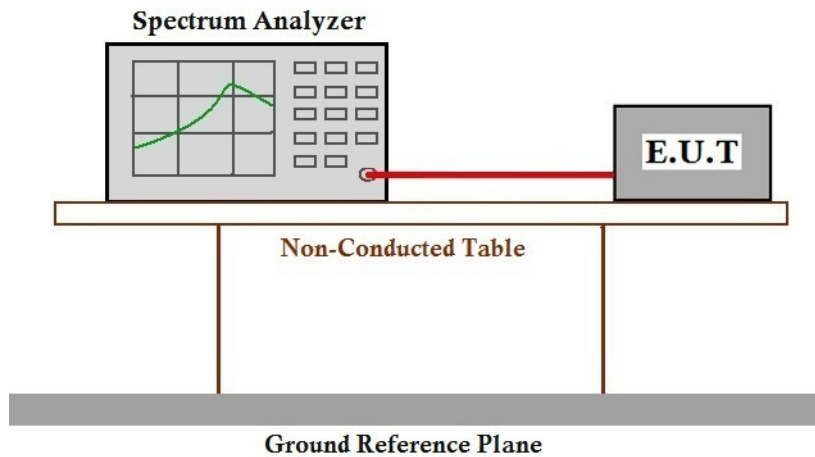
Atmospheric Pressure: 1010 mbar

### 7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	04	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	05	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	06	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



### 7.2.3 Test Setup Diagram



### 7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



### 7.3 99% Bandwidth

Test Requirement N/A  
Test Method: KDB 789033 II D

#### 7.3.1 E.U.T. Operation

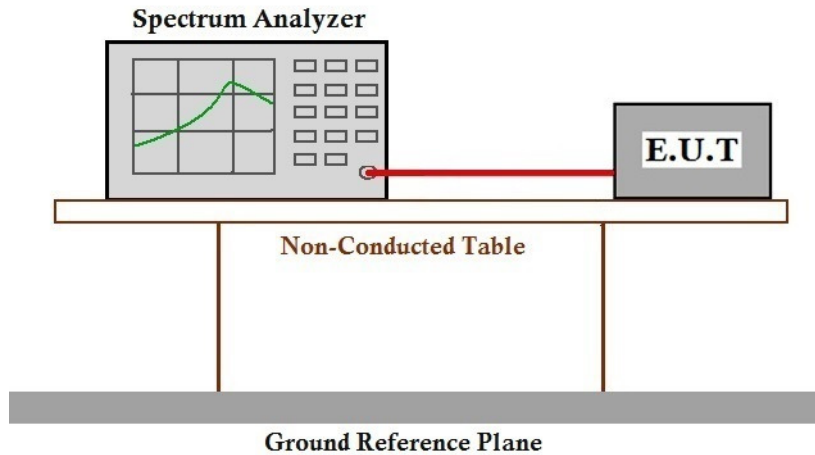
Operating Environment:  
Temperature: 18.4 °C Humidity: 48.1 % RH Atmospheric Pressure: 1010 mbar

#### 7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	04	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	05	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	06	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



### 7.3.3 Test Setup Diagram



### 7.3.4 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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
**Attention:** To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

## 7.4 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 II C 1

### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 18.4 °C

Humidity: 48.1 % RH

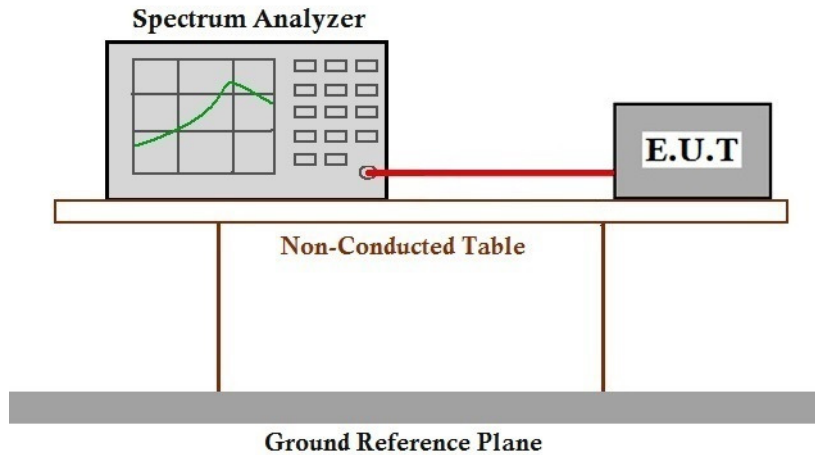
Atmospheric Pressure: 1010 mbar

### 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	04	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	05	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	06	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



### 7.4.3 Test Setup Diagram



### 7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



### 7.5 Minimum 6 dB bandwidth (5.725-5.85 GHz band )

Test Requirement 47 CFR Part 15, Subpart C 15.407 (e)

Test Method: KDB 789033 D02 II C 2

Limit:

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

#### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 18.4 °C

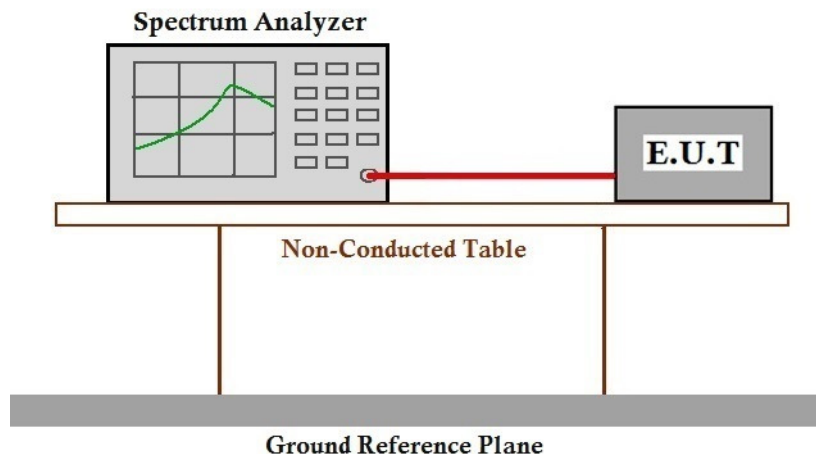
Humidity: 48.1 % RH

Atmospheric Pressure: 1010 mbar

#### 7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

#### 7.5.3 Test Setup Diagram



#### 7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

## 7.6 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 II E

Limit:

Frequency band(MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) for client device or 11dBm+10logB*
5470-5725	≤250mW(24dBm) for client device or 11dBm+10logB*
5725-5850	≤1W(30dBm)
Remark:	<p>* Where B is the 26dB emission bandwidth in MHz.</p> <p>The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.</p>

### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 18.4 °C Humidity: 48.1 % RH Atmospheric Pressure: 1010 mbar

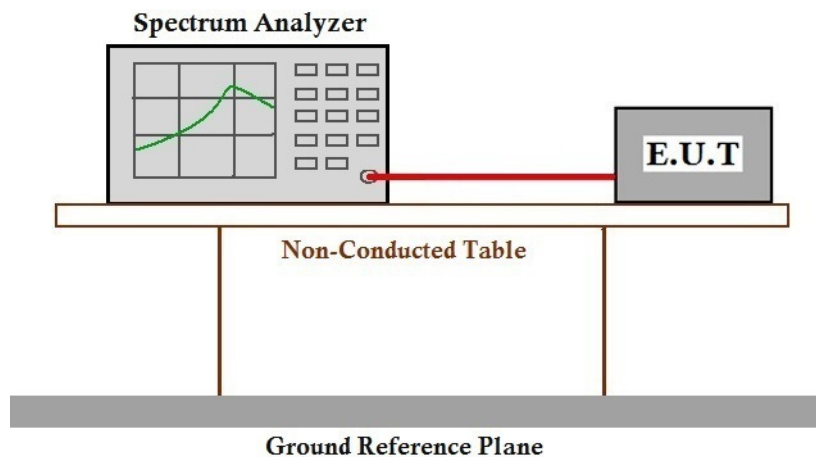
### 7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	04	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



Final test	05	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	06	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

### 7.6.3 Test Setup Diagram



### 7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details

## 7.7 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 II F

Limit:

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

### 7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 18.4 °C

Humidity: 48.1 % RH

Atmospheric Pressure: 1010 mbar

### 7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	04	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	05	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



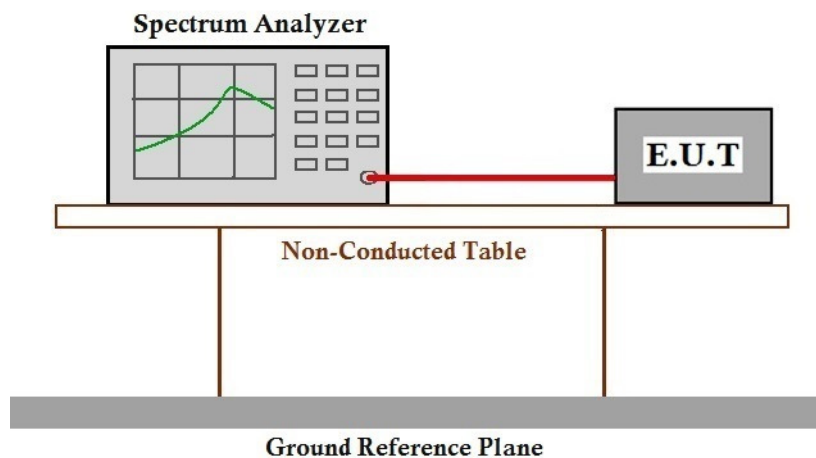
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

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

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

		worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	06	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

### 7.7.3 Test Setup Diagram



### 7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



## 7.8 Radiated Emissions (Above 1GHz)

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

Test Method: KDB 789033 D02 II G

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1GHz	500	3
<p>*(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.</p> <p>(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.</p> <p>(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.</p> <p>(4) For transmitters operating in the 5.725-5.85 GHz band:</p> <p>(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.</p> <p>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.</p>		



### 7.8.1 E.U.T. Operation

Operating Environment:

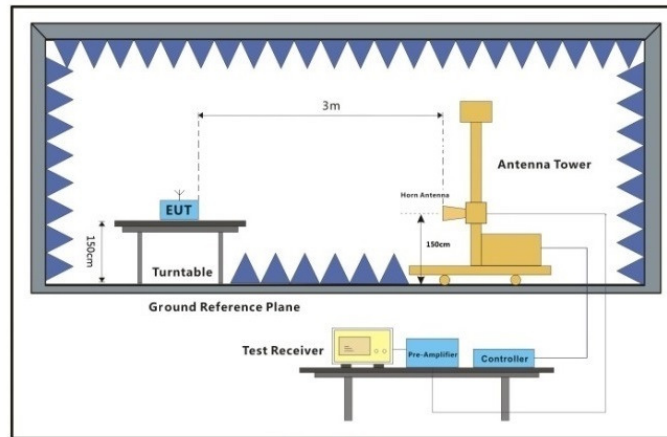
Temperature: 22.3 °C Humidity: 52.3 % RH Atmospheric Pressure: 1010 mbar

### 7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	04	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	05	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	06	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



### 7.8.3 Test Setup Diagram



Above 1GHz



#### 7.8.4 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.

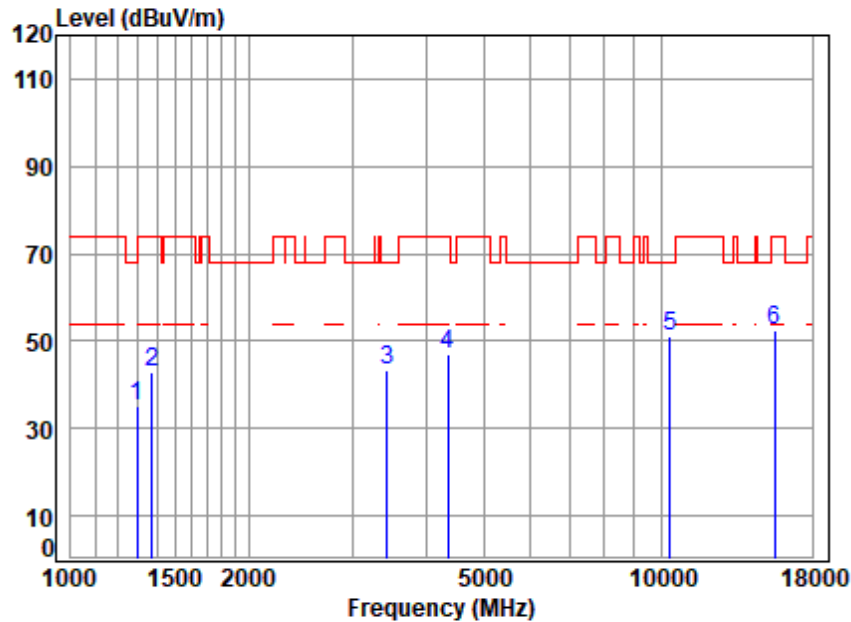
Remark:

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.



Antenna 1 & 2 were tested for Modulation: 802.11a. Only the worst case(Antenna 1) was recorded in the report.  
Antenna 1, 2 & 1+2, were tested for Modulation: 802.11n(HT20),n(HT40),ac(HT20), ac(HT40), ac(HT80). Only the worst case(Antenna 1+2) was recorded in the report.

Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

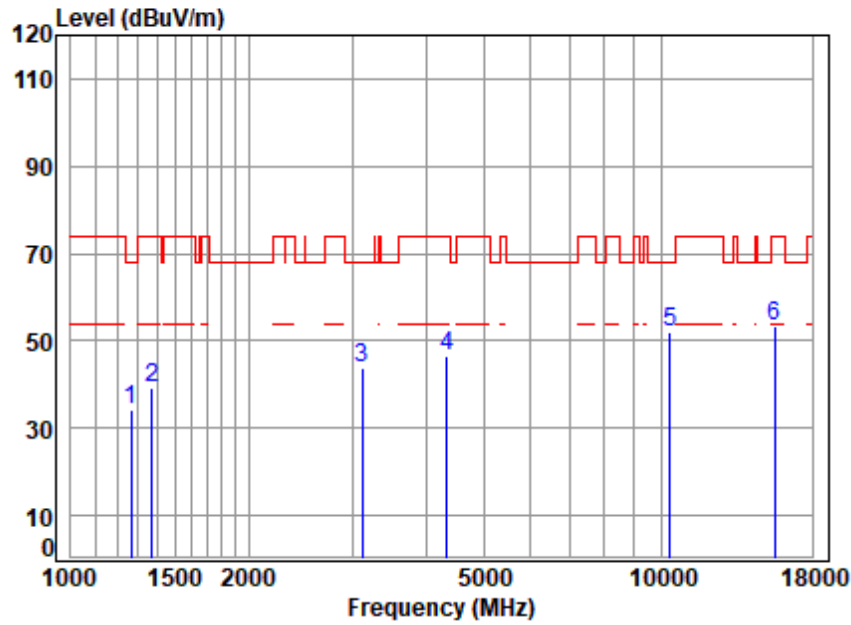


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5180 TX RSE  
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1293.359	2.93	25.00	39.82	46.85	34.96	68.20	-33.24 peak
2	1374.295	3.07	25.33	39.88	54.23	42.75	74.00	-31.25 peak
3	3435.590	5.44	31.60	41.03	47.51	43.52	68.20	-24.68 peak
4	4354.454	6.63	33.35	41.74	48.54	46.78	74.00	-27.22 peak
5	10360.000	10.57	37.76	37.29	40.00	51.04	68.20	-17.16 peak
6	15540.000	13.97	40.72	40.38	38.33	52.64	74.00	-21.36 peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

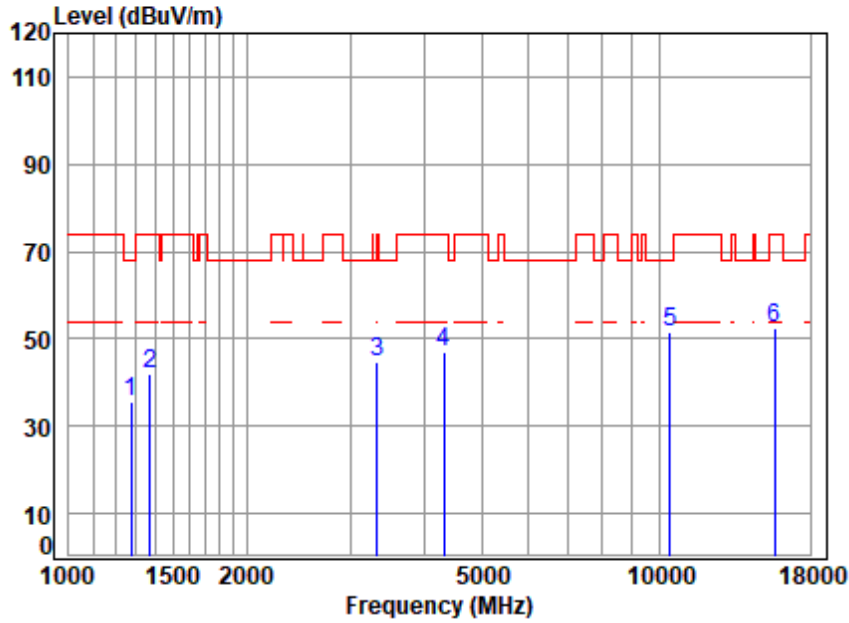


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5180 TX RSE  
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1263.796	2.88	24.87	39.80	46.19	34.14	68.20	-34.06	peak
2	1374.295	3.07	25.33	39.88	50.66	39.18	74.00	-34.82	peak
3	3114.025	5.02	31.09	40.79	48.63	43.95	68.20	-24.25	peak
4	4329.354	6.60	33.30	41.72	48.19	46.37	74.00	-27.63	peak
5	10360.000	10.57	37.76	37.29	40.87	51.91	68.20	-16.29	peak
6	15540.000	13.97	40.72	40.38	39.10	53.41	74.00	-20.59	peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle

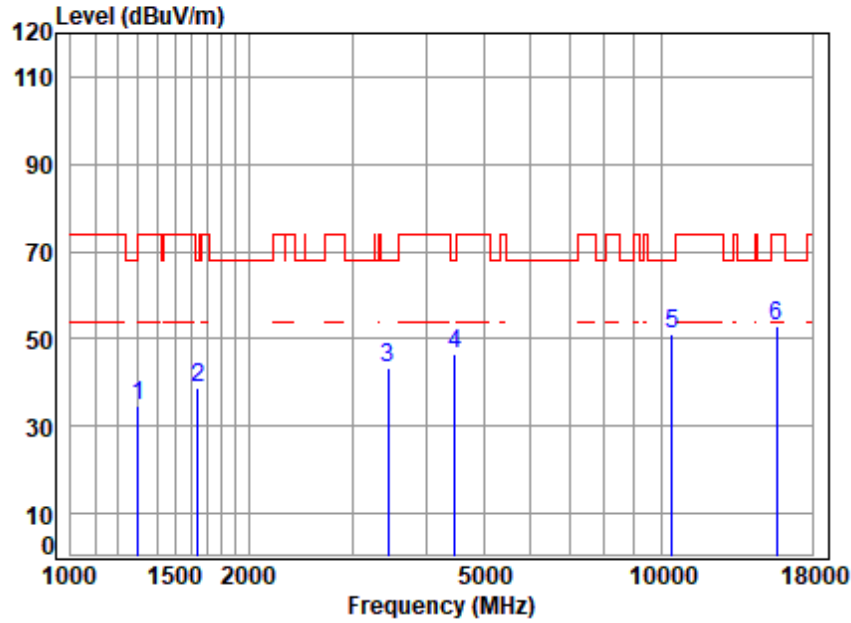


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5220 TX RSE  
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1274.802	2.90	24.92	39.81	47.47	35.48	68.20	-32.72	peak
2	1374.295	3.07	25.33	39.88	53.58	42.10	74.00	-31.90	peak
3	3328.077	5.30	31.44	40.95	48.90	44.69	68.20	-23.51	peak
4	4316.859	6.59	33.28	41.71	48.71	46.87	74.00	-27.13	peak
5	10440.000	10.55	37.72	37.34	40.73	51.66	68.20	-16.54	peak
6	15660.000	14.02	40.80	40.44	38.23	52.61	74.00	-21.39	peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle

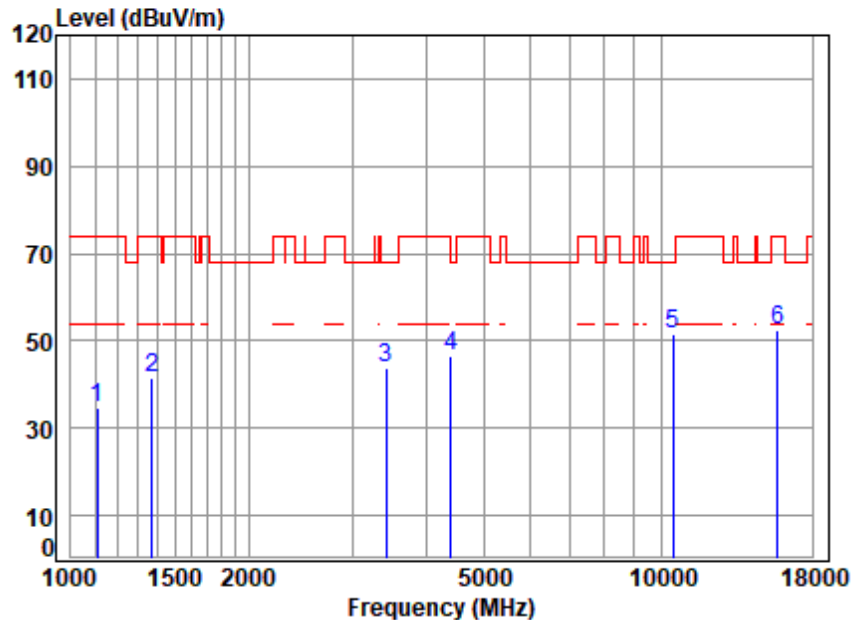


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5220 TX RSE  
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	2.94	25.03	39.83	46.53	34.67	74.00	-39.33	peak
2	1639.274	3.38	26.42	40.03	48.82	38.59	68.20	-29.61	peak
3	3445.535	5.45	31.62	41.04	47.39	43.42	68.20	-24.78	peak
4	4469.214	6.73	33.55	41.85	48.15	46.58	68.20	-21.62	peak
5	10440.000	10.55	37.72	37.34	40.00	50.93	68.20	-17.27	peak
6	15660.000	14.02	40.80	40.44	38.46	52.84	74.00	-21.16	peak



Test Mode: 03; Polarity: Horizontal; Modulation: 802.11a; Bandwidth: 20MHz; Channel: High

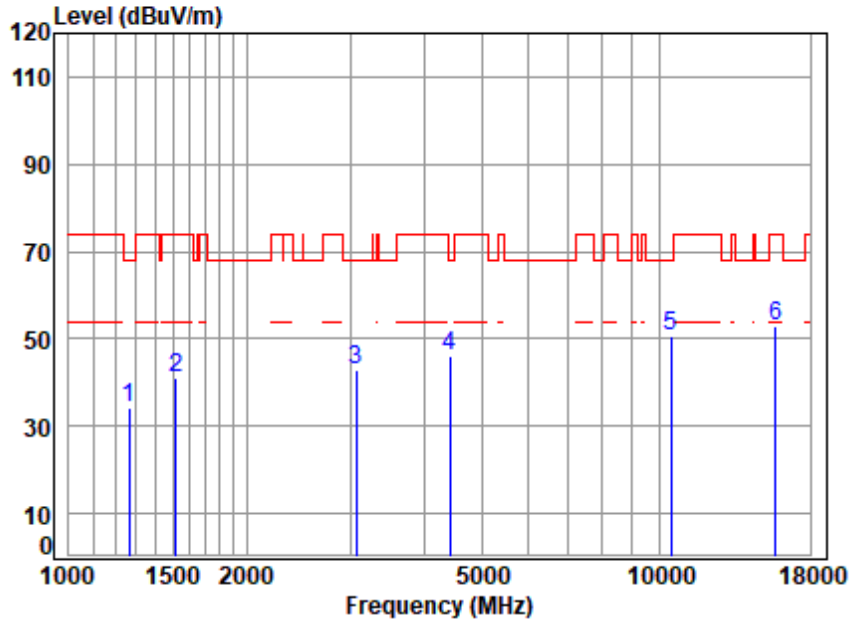


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5240 TX RSE  
Note : 5G WIFI 11A

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1109.660	2.59	24.16	39.69	47.70	34.76	74.00	-39.24 peak
2 1374.295	3.07	25.33	39.88	53.20	41.72	74.00	-32.28 peak
3 3415.787	5.42	31.57	41.02	47.94	43.91	68.20	-24.29 peak
4 4405.090	6.67	33.44	41.79	48.06	46.38	68.20	-21.82 peak
5 10480.000	10.54	37.71	37.36	40.60	51.49	68.20	-16.71 peak
6 15720.000	14.04	40.83	40.47	38.17	52.57	74.00	-21.43 peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

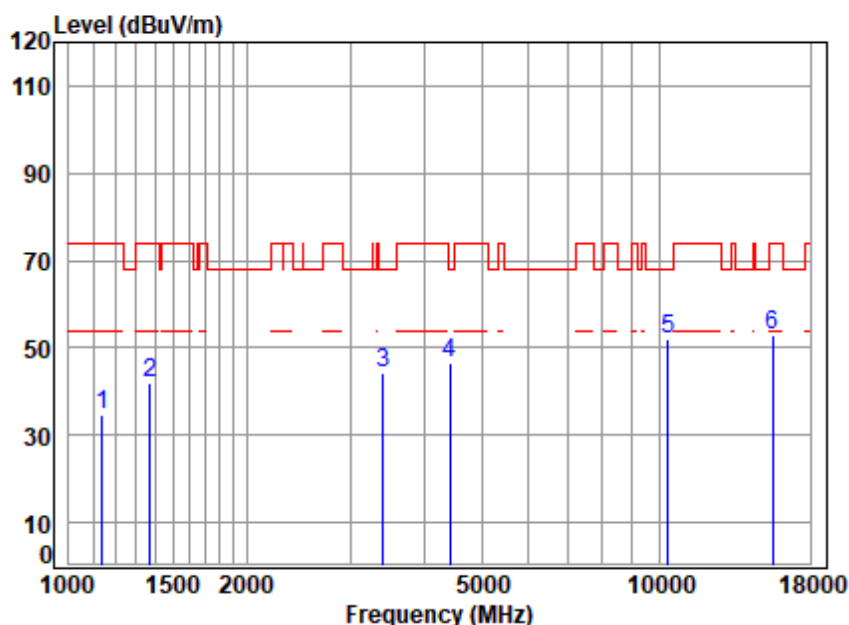


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5240 TX RSE  
Note : 5G WIFI 11A

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1267.454	2.89	24.89	39.81	46.38	34.35	68.20	-33.85 peak
2 1520.598	3.28	25.89	39.96	52.03	41.24	74.00	-32.76 peak
3 3069.345	4.96	31.02	40.76	47.46	42.68	68.20	-25.52 peak
4 4417.841	6.68	33.46	41.80	47.92	46.26	68.20	-21.94 peak
5 10480.000	10.54	37.71	37.36	39.95	50.84	68.20	-17.36 peak
6 15720.000	14.04	40.83	40.47	38.32	52.72	74.00	-21.28 peak



Test Mode: 03; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: Low

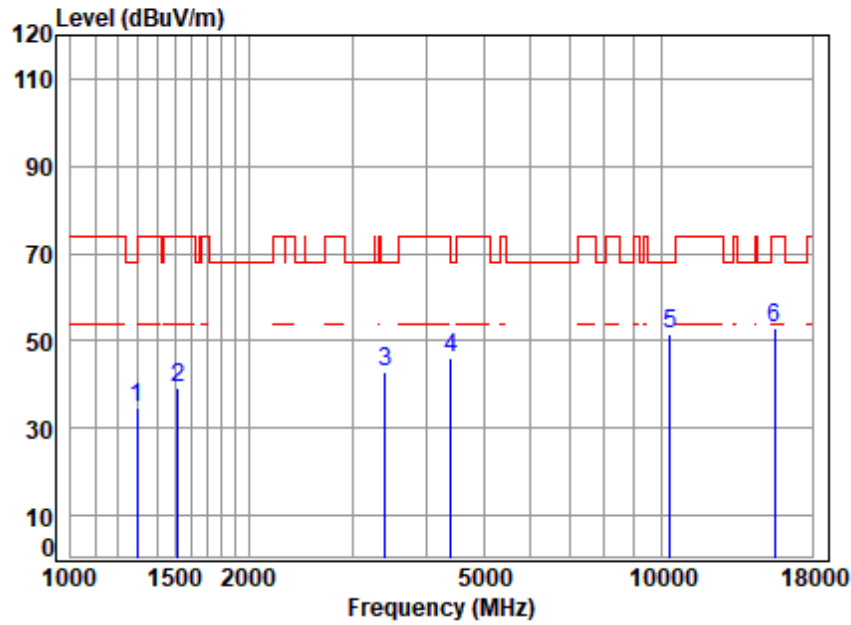


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5180 TX RSE  
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1138.904	2.65	24.31	39.71	47.29	34.54	74.00	-39.46	peak
2	1374.295	3.07	25.33	39.88	53.59	42.11	74.00	-31.89	peak
3	3405.929	5.40	31.56	41.01	48.17	44.12	68.20	-24.08	peak
4	4417.841	6.68	33.46	41.80	48.29	46.63	68.20	-21.57	peak
5	10360.000	10.57	37.76	37.29	40.96	52.00	68.20	-16.20	peak
6	15540.000	13.97	40.72	40.38	38.79	53.10	74.00	-20.90	peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

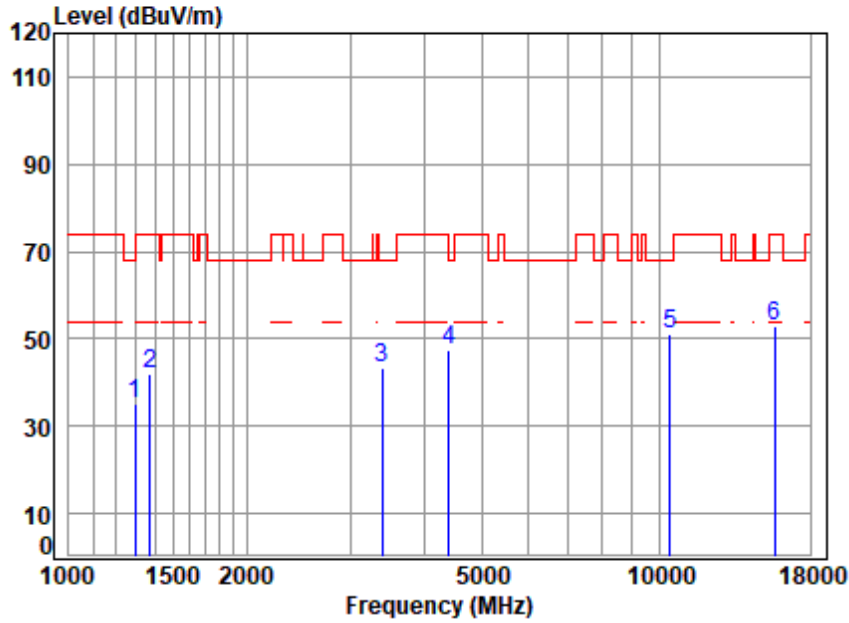


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5180 TX RSE  
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1297.103	2.94	25.01	39.83	46.39	34.51	68.20	-33.69	peak
2	1520.598	3.28	25.89	39.96	49.84	39.05	74.00	-34.95	peak
3	3405.929	5.40	31.56	41.01	47.01	42.96	68.20	-25.24	peak
4	4405.090	6.67	33.44	41.79	47.82	46.14	68.20	-22.06	peak
5	10360.000	10.57	37.76	37.29	40.48	51.52	68.20	-16.68	peak
6	15540.000	13.97	40.72	40.38	38.69	53.00	74.00	-21.00	peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle

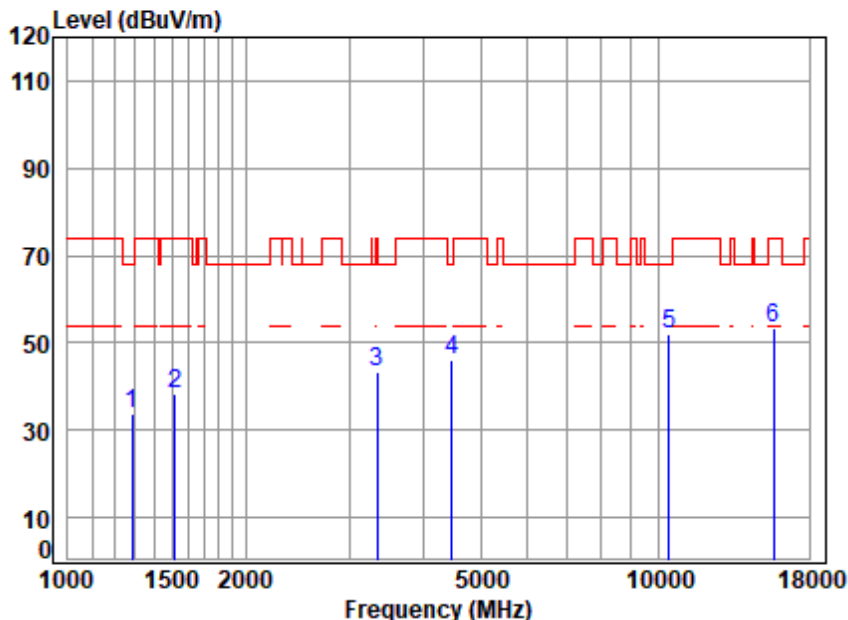


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5220 TX RSE  
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1297.103	2.94	25.01	39.83	47.11	35.23	68.20	-32.97	peak
2	1374.295	3.07	25.33	39.88	53.63	42.15	74.00	-31.85	peak
3	3396.098	5.39	31.54	41.00	47.40	43.33	68.20	-24.87	peak
4	4405.090	6.67	33.44	41.79	49.11	47.43	68.20	-20.77	peak
5	10440.000	10.55	37.72	37.34	40.34	51.27	68.20	-16.93	peak
6	15660.000	14.02	40.80	40.44	38.42	52.80	74.00	-21.20	peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle

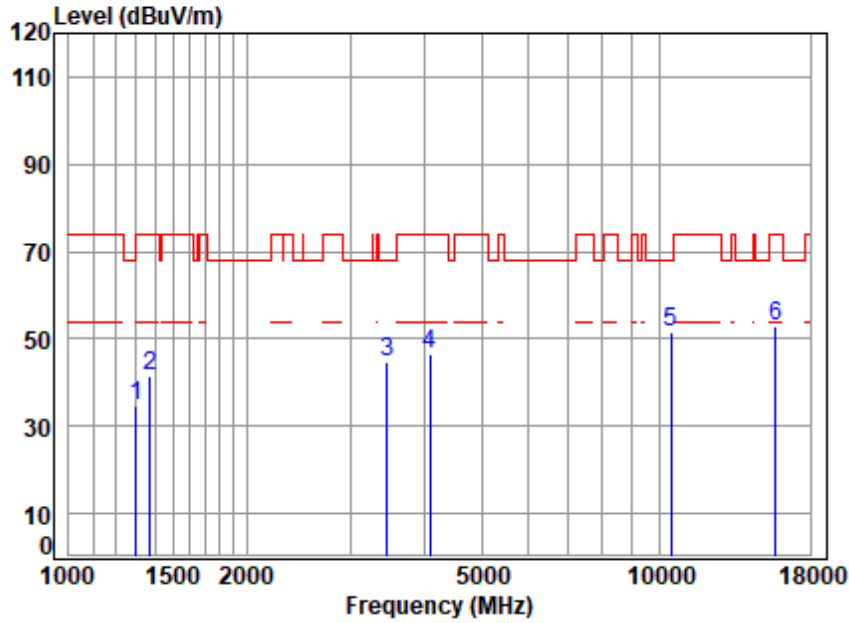


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5220 TX RSE  
Note : 5G WIFI 11N20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1285.904	2.92	24.96	39.82	45.74	33.80	68.20	-34.40 peak
2 1520.598	3.28	25.89	39.96	49.17	38.38	74.00	-35.62 peak
3 3337.710	5.32	31.45	40.96	47.70	43.51	74.00	-30.49 peak
4 4469.214	6.73	33.55	41.85	47.75	46.18	68.20	-22.02 peak
5 10440.000	10.55	37.72	37.34	41.18	52.11	68.20	-16.09 peak
6 15660.000	14.02	40.80	40.44	38.98	53.36	74.00	-20.64 peak



Test Mode: 03; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: High

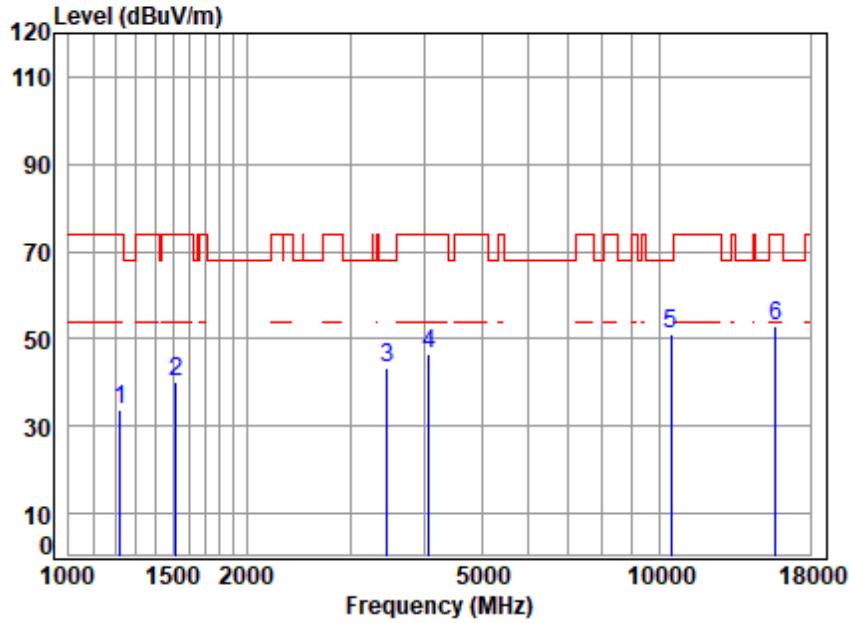


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5240 TX RSE  
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	2.94	25.03	39.83	46.70	34.84	74.00	-39.16	peak
2	1374.295	3.07	25.33	39.88	53.10	41.62	74.00	-32.38	peak
3	3465.510	5.48	31.65	41.05	48.57	44.65	68.20	-23.55	peak
4	4086.182	6.37	32.86	41.49	48.63	46.37	74.00	-27.63	peak
5	10480.000	10.54	37.71	37.36	40.45	51.34	68.20	-16.86	peak
6	15720.000	14.04	40.83	40.47	38.51	52.91	74.00	-21.09	peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High

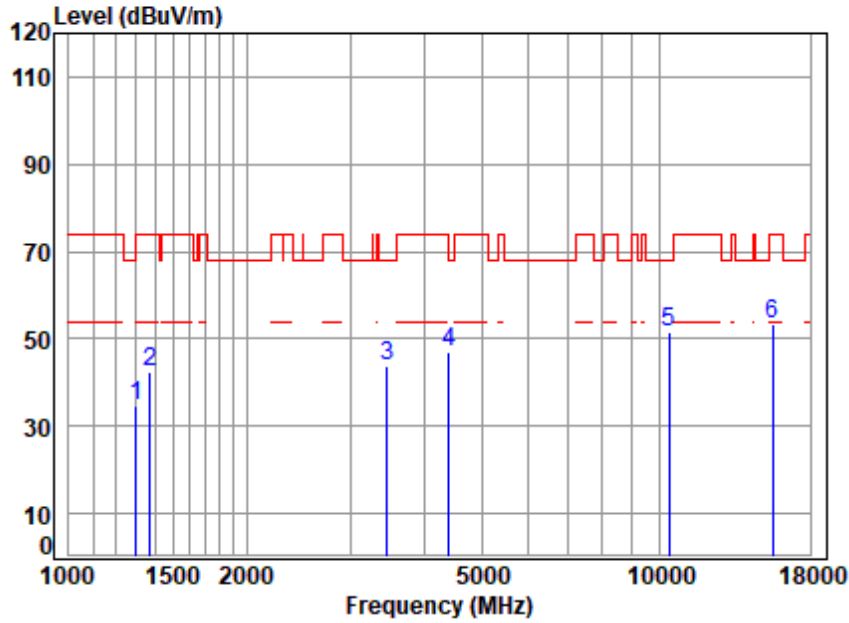


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5240 TX RSE  
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1220.714	2.80	24.68	39.77	46.26	33.97	74.00	-40.03 peak
2	1520.598	3.28	25.89	39.96	50.80	40.01	74.00	-33.99 peak
3	3465.510	5.48	31.65	41.05	47.39	43.47	68.20	-24.73 peak
4	4074.388	6.36	32.84	41.47	49.03	46.76	74.00	-27.24 peak
5	10480.000	10.54	37.71	37.36	40.20	51.09	68.20	-17.11 peak
6	15720.000	14.04	40.83	40.47	38.51	52.91	74.00	-21.09 peak



Test Mode: 03; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 40MHz; Channel: Low

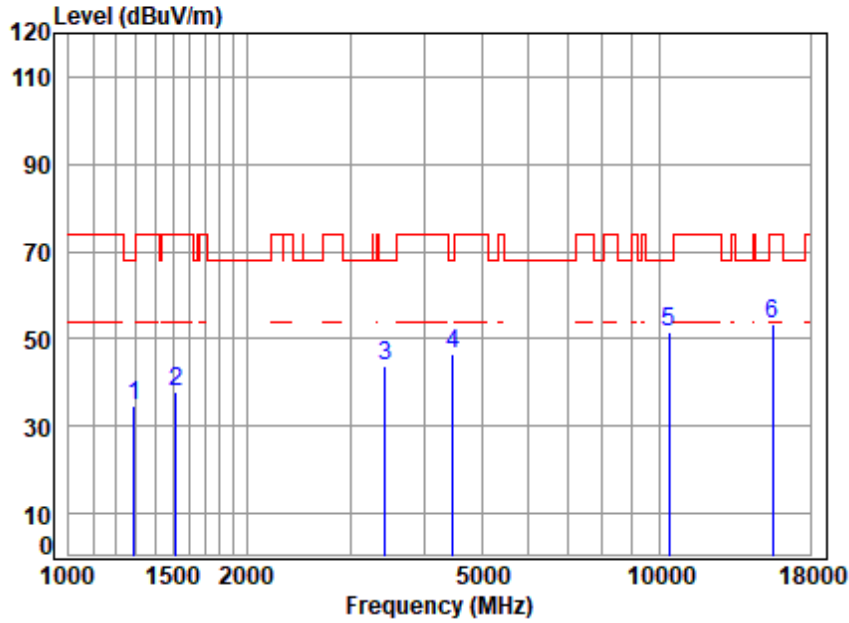


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5190 TX RSE  
Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	2.94	25.03	39.83	46.38	34.52	74.00	-39.48	peak
2	1374.295	3.07	25.33	39.88	53.79	42.31	74.00	-31.69	peak
3	3455.508	5.47	31.63	41.04	47.59	43.65	68.20	-24.55	peak
4	4405.090	6.67	33.44	41.79	48.45	46.77	68.20	-21.43	peak
5	10380.000	10.57	37.75	37.30	40.37	51.39	68.20	-16.81	peak
6	15570.000	13.98	40.74	40.40	39.02	53.34	74.00	-20.66	peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

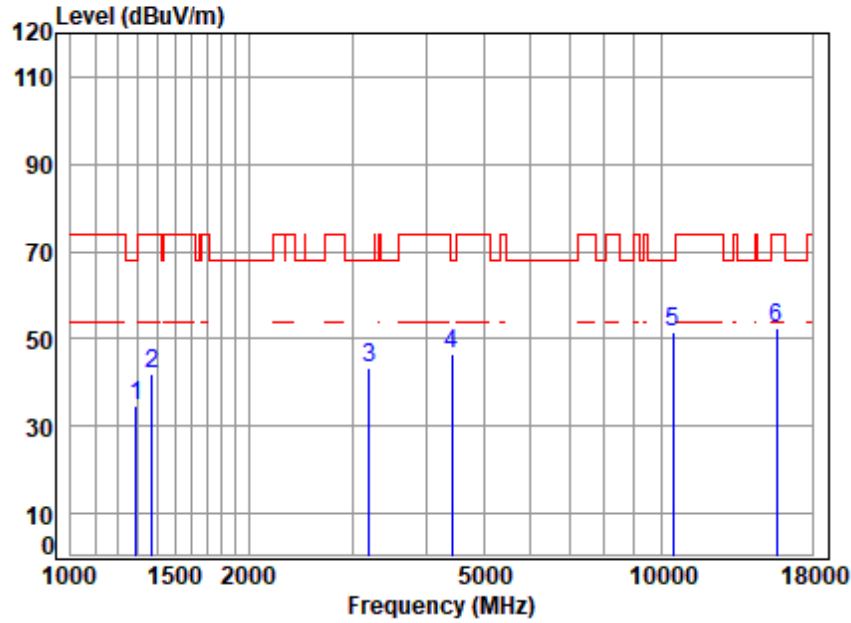


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5190 TX RSE  
Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1289.627	2.92	24.98	39.82	46.55	34.63	68.20	-33.57	peak
2	1520.598	3.28	25.89	39.96	48.73	37.94	74.00	-36.06	peak
3	3435.590	5.44	31.60	41.03	47.86	43.87	68.20	-24.33	peak
4	4469.214	6.73	33.55	41.85	48.18	46.61	68.20	-21.59	peak
5	10380.000	10.57	37.75	37.30	40.54	51.56	68.20	-16.64	peak
6	15570.000	13.98	40.74	40.40	38.84	53.16	74.00	-20.84	peak



Test Mode: 03; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 40MHz; Channel: High

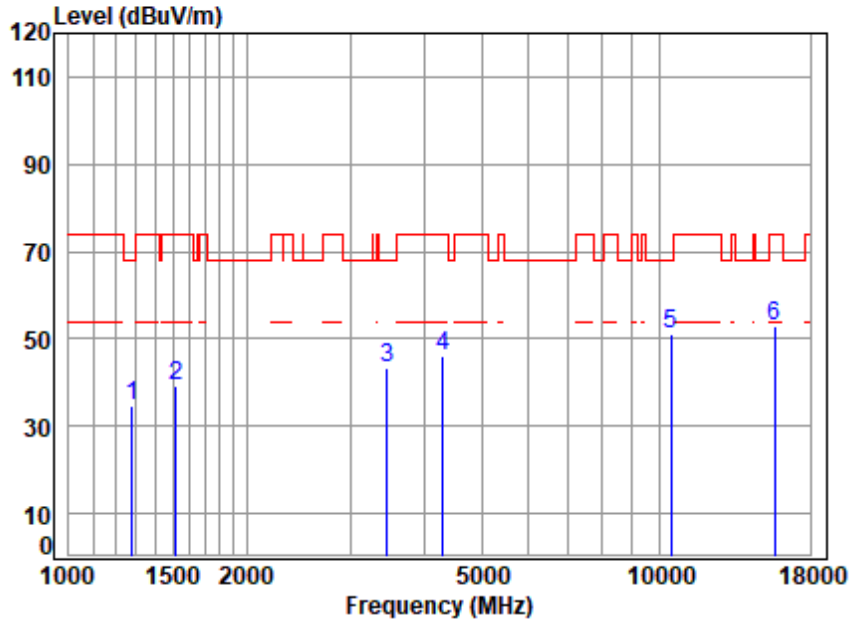


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5230 TX RSE  
Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1289.627	2.92	24.98	39.82	46.49	34.57	68.20	-33.63	peak
2	1374.295	3.07	25.33	39.88	53.67	42.19	74.00	-31.81	peak
3	3196.094	5.13	31.23	40.85	47.95	43.46	68.20	-24.74	peak
4	4417.841	6.68	33.46	41.80	48.24	46.58	68.20	-21.62	peak
5	10460.000	10.54	37.72	37.35	40.62	51.53	68.20	-16.67	peak
6	15690.000	14.03	40.82	40.45	38.28	52.68	74.00	-21.32	peak



Test Mode: 03; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 40MHz; Channel: High

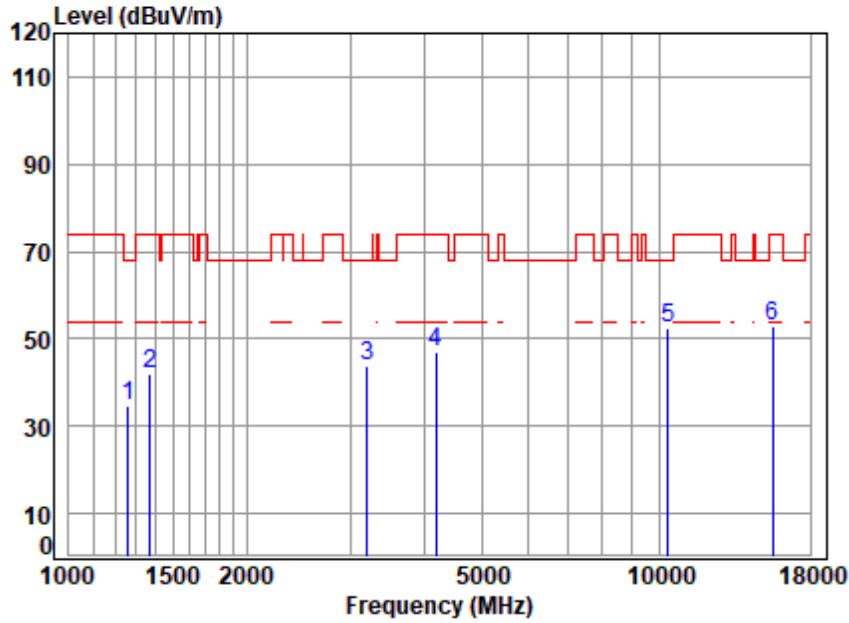


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5230 TX RSE  
Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1282.193	2.91	24.95	39.82	46.85	34.89	68.20	-33.31	peak
2	1520.598	3.28	25.89	39.96	49.92	39.13	74.00	-34.87	peak
3	3455.508	5.47	31.63	41.04	47.25	43.31	68.20	-24.89	peak
4	4304.400	6.58	33.26	41.70	48.01	46.15	74.00	-27.85	peak
5	10460.000	10.54	37.72	37.35	40.23	51.14	68.20	-17.06	peak
6	15690.000	14.03	40.82	40.45	38.33	52.73	74.00	-21.27	peak



Test Mode: 03; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low

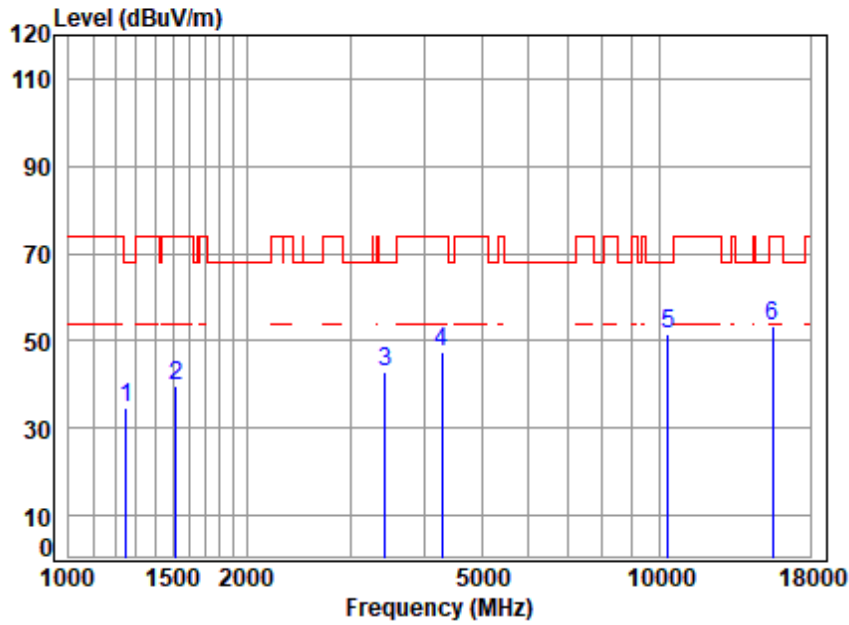


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5180 TX RSE  
Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	2.87	24.85	39.80	46.90	34.82	68.20	-33.38	peak
2	1374.295	3.07	25.33	39.88	53.37	41.89	74.00	-32.11	peak
3	3196.094	5.13	31.23	40.85	48.11	43.62	68.20	-24.58	peak
4	4181.768	6.46	33.04	41.58	48.85	46.77	74.00	-27.23	peak
5	10360.000	10.57	37.76	37.29	41.52	52.56	68.20	-15.64	peak
6	15540.000	13.97	40.72	40.38	38.58	52.89	74.00	-21.11	peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

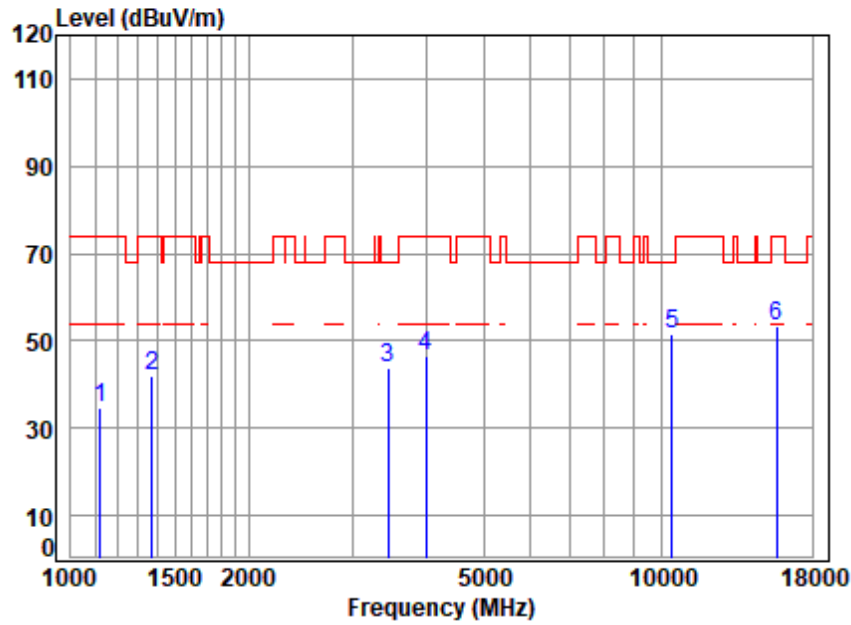


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5180 TX RSE  
Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	2.85	24.81	39.79	46.85	34.72	68.20	-33.48	peak
2	1520.598	3.28	25.89	39.96	50.46	39.67	74.00	-34.33	peak
3	3435.590	5.44	31.60	41.03	46.81	42.82	68.20	-25.38	peak
4	4279.589	6.56	33.22	41.67	49.17	47.28	74.00	-26.72	peak
5	10360.000	10.57	37.76	37.29	40.70	51.74	68.20	-16.46	peak
6	15540.000	13.97	40.72	40.38	39.08	53.39	74.00	-20.61	peak



Test Mode: 03; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: middle

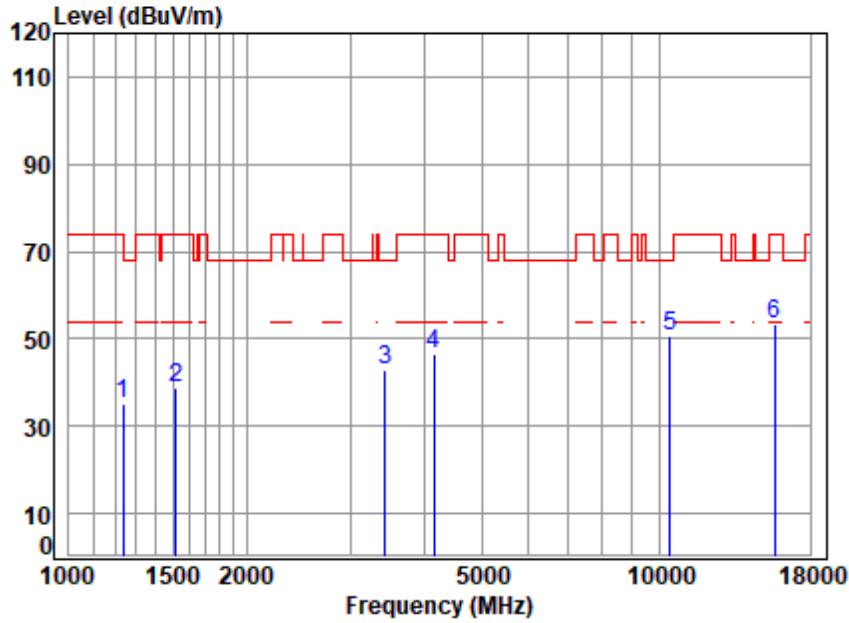


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5220 TX RSE  
Note : 5G WIFI 11AC20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1122.563	2.62	24.23	39.70	47.49	34.64	74.00 -39.36 peak
2	1374.295	3.07	25.33	39.88	53.43	41.95	74.00 -32.05 peak
3	3445.535	5.45	31.62	41.04	47.65	43.68	68.20 -24.52 peak
4	3992.781	6.27	32.69	41.40	48.94	46.50	74.00 -27.50 peak
5	10440.000	10.55	37.72	37.34	40.47	51.40	68.20 -16.80 peak
6	15660.000	14.02	40.80	40.44	38.82	53.20	74.00 -20.80 peak



Test Mode: 03; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: middle

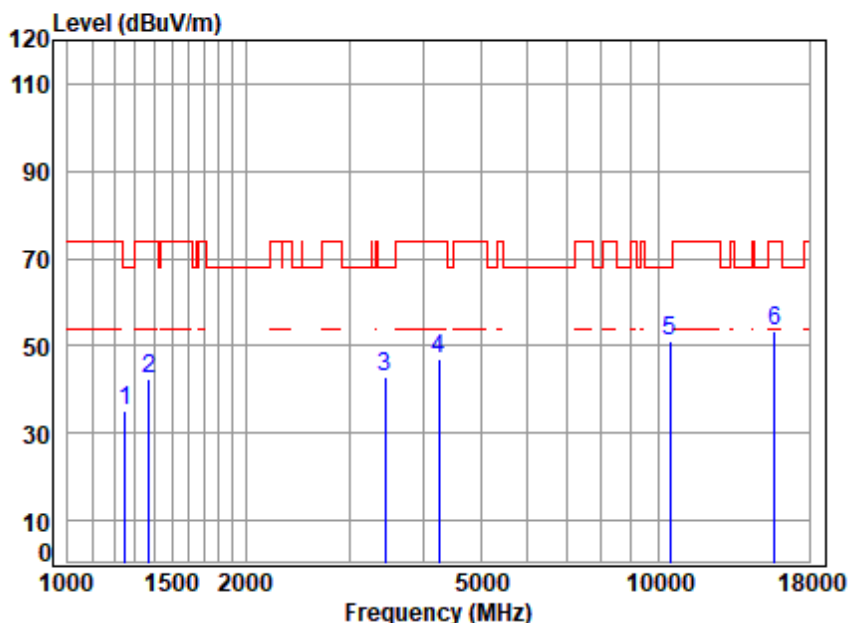


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5220 TX RSE  
Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1238.483	2.83	24.76	39.79	47.22	35.02	74.00	-38.98	peak
2	1520.598	3.28	25.89	39.96	49.77	38.98	74.00	-35.02	peak
3	3435.590	5.44	31.60	41.03	46.88	42.89	68.20	-25.31	peak
4	4145.664	6.43	32.97	41.54	48.86	46.72	74.00	-27.28	peak
5	10440.000	10.55	37.72	37.34	39.90	50.83	68.20	-17.37	peak
6	15660.000	14.02	40.80	40.44	39.05	53.43	74.00	-20.57	peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

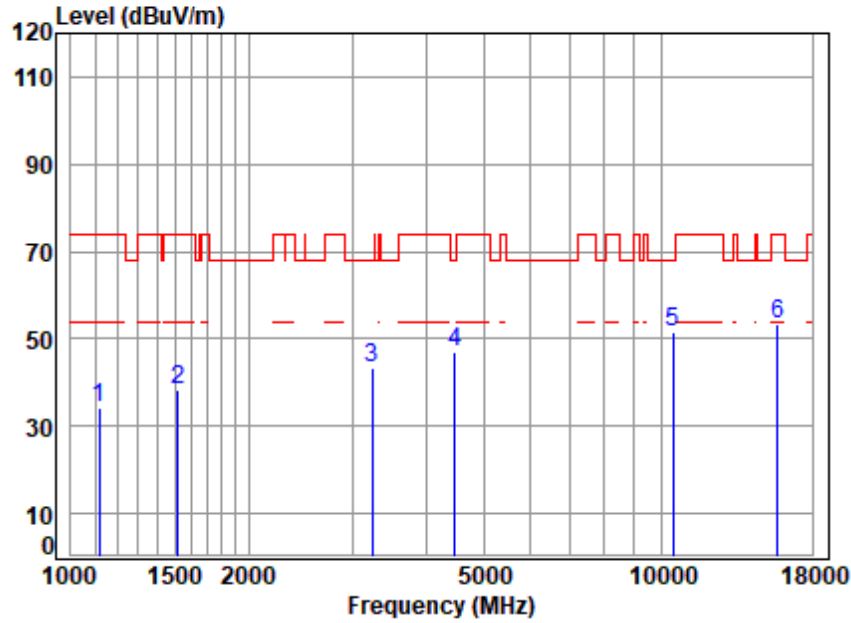


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5240 TX RSE  
Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1252.885	2.86	24.82	39.80	47.16	35.04	68.20	-33.16	peak
2	1374.295	3.07	25.33	39.88	54.11	42.63	74.00	-31.37	peak
3	3445.535	5.45	31.62	41.04	46.89	42.92	68.20	-25.28	peak
4	4254.921	6.53	33.17	41.65	49.10	47.15	74.00	-26.85	peak
5	10480.000	10.54	37.71	37.36	40.05	50.94	68.20	-17.26	peak
6	15720.000	14.04	40.83	40.47	38.98	53.38	74.00	-20.62	peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

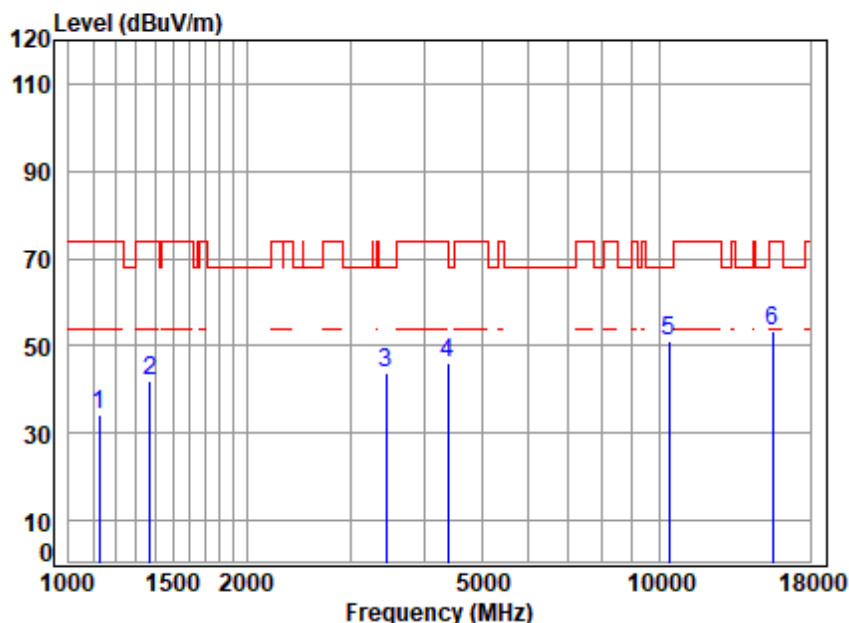


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5240 TX RSE  
Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1119.323	2.61	24.21	39.70	47.31	34.43	74.00	-39.57	peak
2	1520.598	3.28	25.89	39.96	49.22	38.43	74.00	-35.57	peak
3	3242.619	5.19	31.30	40.89	47.66	43.26	68.20	-24.94	peak
4	4469.214	6.73	33.55	41.85	48.38	46.81	68.20	-21.39	peak
5	10480.000	10.54	37.71	37.36	40.62	51.51	68.20	-16.69	peak
6	15720.000	14.04	40.83	40.47	38.90	53.30	74.00	-20.70	peak



Test Mode: 03; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low

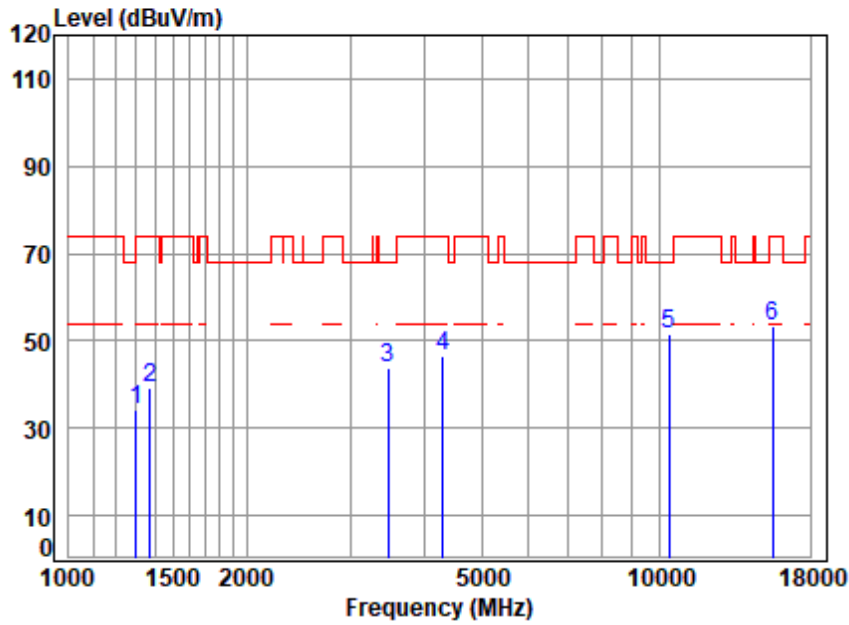


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5190 TX RSE  
Note : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1125.813	2.62	24.24	39.70	47.22	34.38	74.00	-39.62	peak
2	1374.295	3.07	25.33	39.88	53.65	42.17	74.00	-31.83	peak
3	3445.535	5.45	31.62	41.04	47.89	43.92	68.20	-24.28	peak
4	4392.376	6.66	33.42	41.78	47.81	46.11	74.00	-27.89	peak
5	10380.000	10.57	37.75	37.30	40.16	51.18	68.20	-17.02	peak
6	15570.000	13.98	40.74	40.40	39.12	53.44	74.00	-20.56	peak



Test Mode: 03; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low

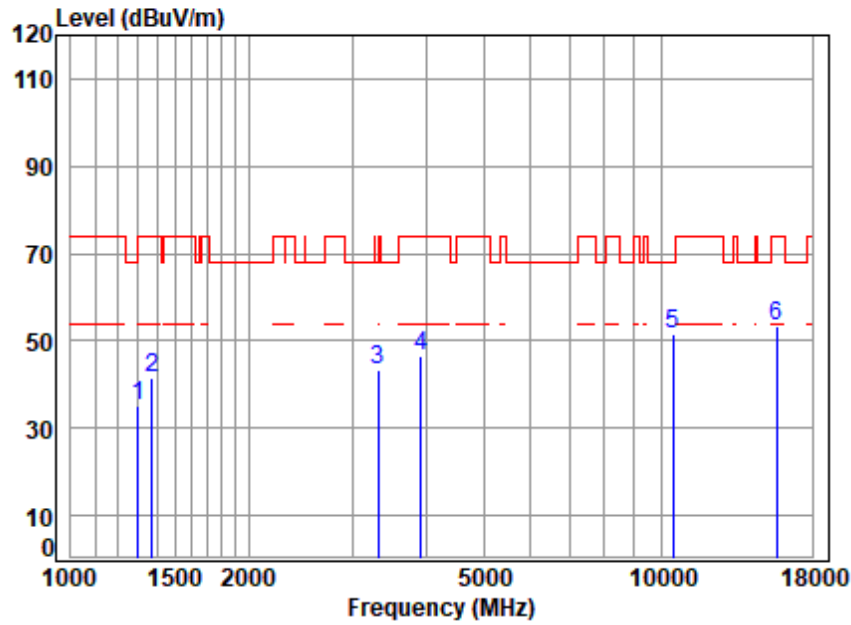


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5190 TX RSE  
Note : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	2.94	25.03	39.83	46.18	34.32	74.00	-39.68	peak
2	1374.295	3.07	25.33	39.88	50.65	39.17	74.00	-34.83	peak
3	3475.541	5.49	31.66	41.06	47.80	43.89	68.20	-24.31	peak
4	4304.400	6.58	33.26	41.70	48.40	46.54	74.00	-27.46	peak
5	10380.000	10.57	37.75	37.30	40.67	51.69	68.20	-16.51	peak
6	15570.000	13.98	40.74	40.40	39.09	53.41	74.00	-20.59	peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

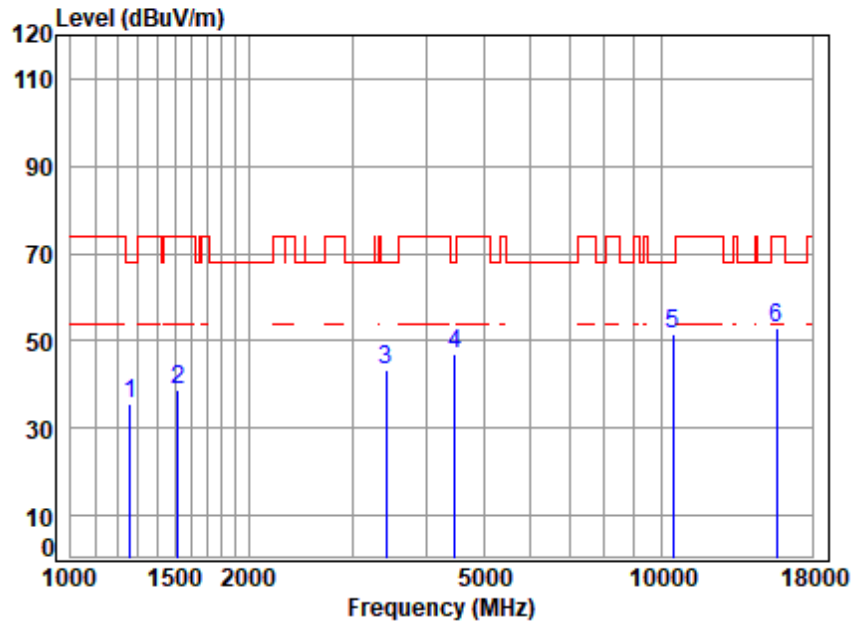


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5230 TX RSE  
Note : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	2.94	25.03	39.83	47.21	35.35	74.00	-38.65	peak
2	1374.295	3.07	25.33	39.88	53.22	41.74	74.00	-32.26	peak
3	3318.471	5.29	31.42	40.95	47.76	43.52	68.20	-24.68	peak
4	3924.135	6.17	32.56	41.35	49.00	46.38	74.00	-27.62	peak
5	10460.000	10.54	37.72	37.35	40.69	51.60	68.20	-16.60	peak
6	15690.000	14.03	40.82	40.45	39.01	53.41	74.00	-20.59	peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

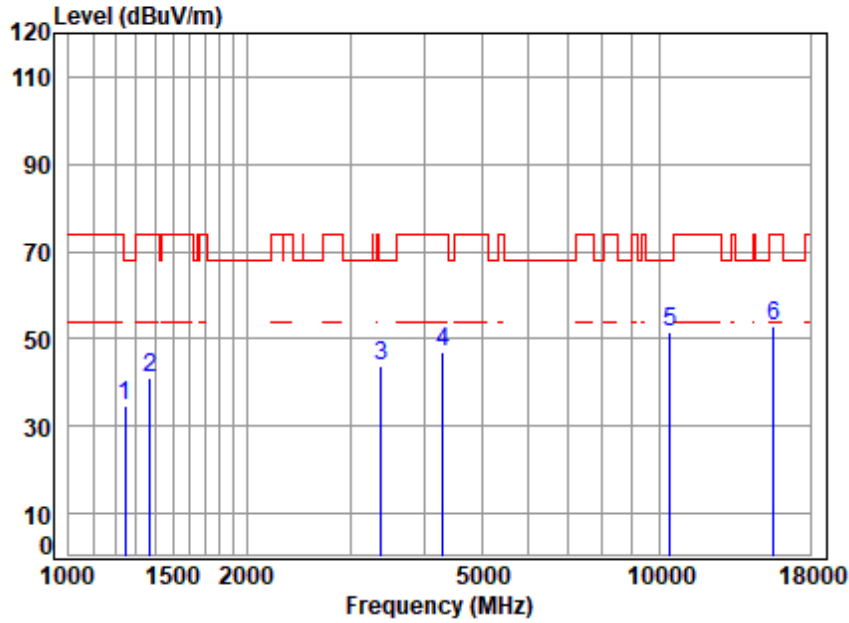


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5230 TX RSE  
Note : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	2.87	24.85	39.80	47.86	35.78	68.20	-32.42	peak
2	1520.598	3.28	25.89	39.96	49.36	38.57	74.00	-35.43	peak
3	3425.675	5.43	31.59	41.02	47.53	43.53	68.20	-24.67	peak
4	4469.214	6.73	33.55	41.85	48.34	46.77	68.20	-21.43	peak
5	10460.000	10.54	37.72	37.35	40.68	51.59	68.20	-16.61	peak
6	15690.000	14.03	40.82	40.45	38.71	53.11	74.00	-20.89	peak



Test Mode: 03; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle

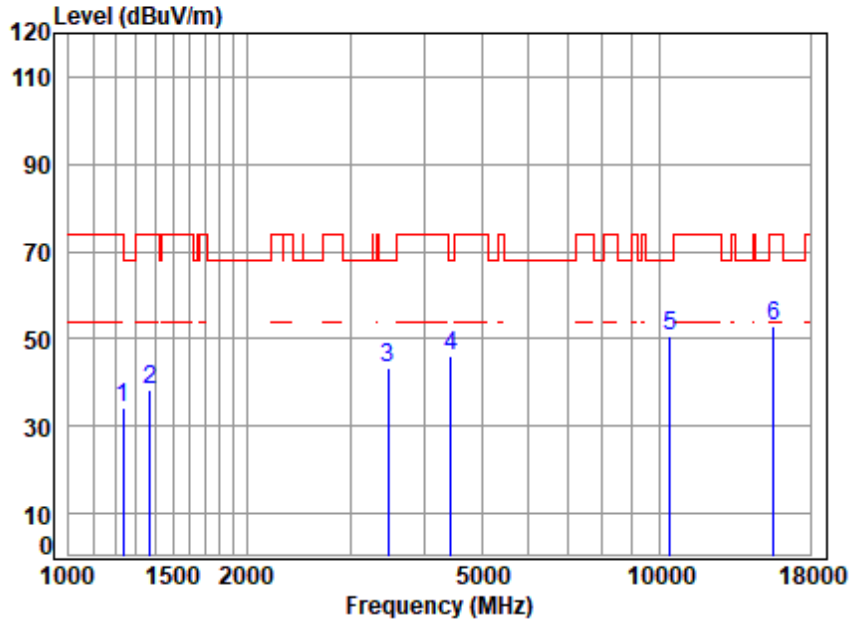


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5210 TX RSE  
Note : 5G WIFI 11AC80

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.663	2.85	24.79	39.79	46.64	34.49	68.20	-33.71 peak
2	1374.295	3.07	25.33	39.88	52.48	41.00	74.00	-33.00 peak
3	3376.523	5.37	31.51	40.99	47.77	43.66	68.20	-24.54 peak
4	4304.400	6.58	33.26	41.70	48.69	46.83	74.00	-27.17 peak
5	10420.000	10.56	37.73	37.33	40.72	51.68	68.20	-16.52 peak
6	15630.000	14.01	40.78	40.42	38.66	53.03	74.00	-20.97 peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle

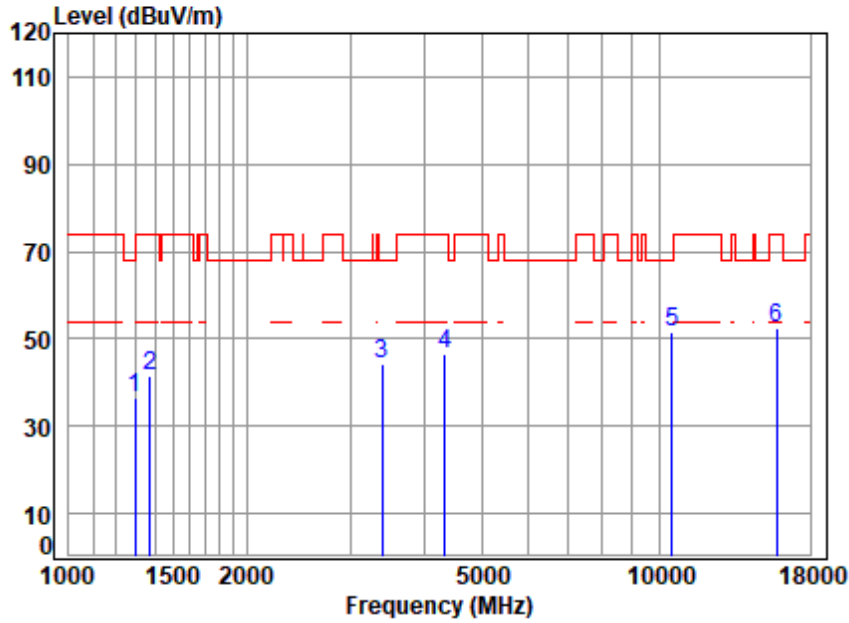


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5210 TX RSE  
Note : 5G WIFI 11AC80

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1238.483	2.83	24.76	39.79	46.31	34.11	74.00 -39.89 peak
2	1374.295	3.07	25.33	39.88	49.79	38.31	74.00 -35.69 peak
3	3475.541	5.49	31.66	41.06	47.16	43.25	68.20 -24.95 peak
4	4443.453	6.71	33.50	41.82	47.71	46.10	68.20 -22.10 peak
5	10420.000	10.56	37.73	37.33	39.55	50.51	68.20 -17.69 peak
6	15630.000	14.01	40.78	40.42	38.36	52.73	74.00 -21.27 peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

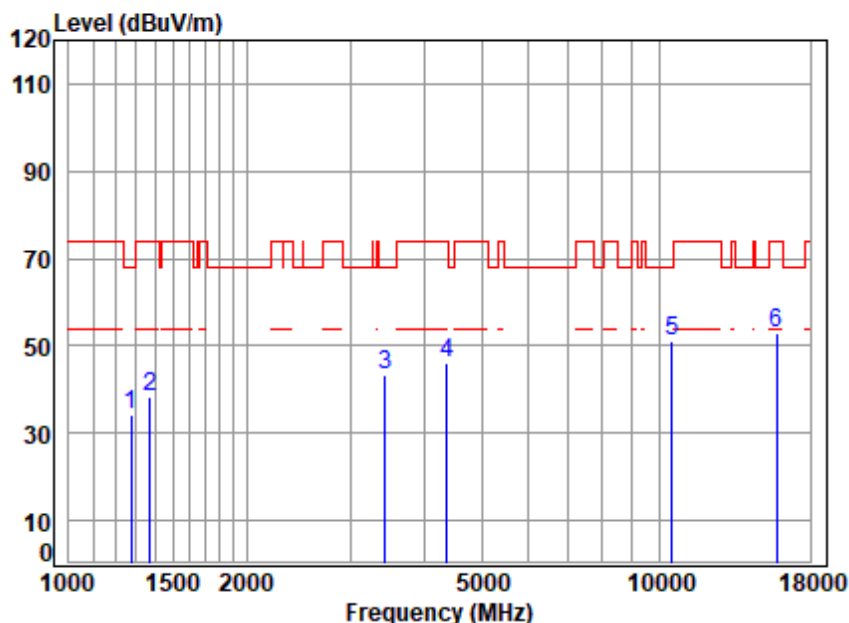


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5260 TX RSE  
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1297.103	2.94	25.01	39.83	48.23	36.35	68.20	-31.85	peak
2	1374.295	3.07	25.33	39.88	53.10	41.62	74.00	-32.38	peak
3	3396.098	5.39	31.54	41.00	48.18	44.11	68.20	-24.09	peak
4	4341.886	6.61	33.33	41.73	48.25	46.46	74.00	-27.54	peak
5	10520.000	10.55	37.70	37.38	40.70	51.57	68.20	-16.63	peak
6	15780.000	14.07	40.87	40.50	38.24	52.68	74.00	-21.32	peak



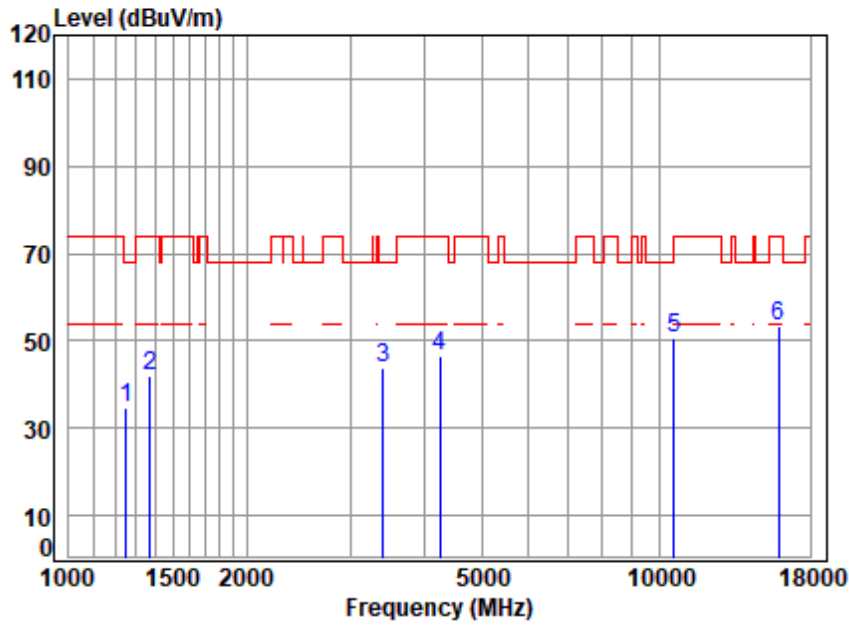
Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5260 TX RSE  
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1274.802	2.90	24.92	39.81	46.18	34.19	68.20	-34.01	peak
2	1374.295	3.07	25.33	39.88	50.03	38.55	74.00	-35.45	peak
3	3435.590	5.44	31.60	41.03	47.41	43.42	68.20	-24.78	peak
4	4367.058	6.64	33.37	41.75	47.78	46.04	74.00	-27.96	peak
5	10520.000	10.55	37.70	37.38	40.24	51.11	68.20	-17.09	peak
6	15780.000	14.07	40.87	40.50	38.37	52.81	74.00	-21.19	peak

Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle

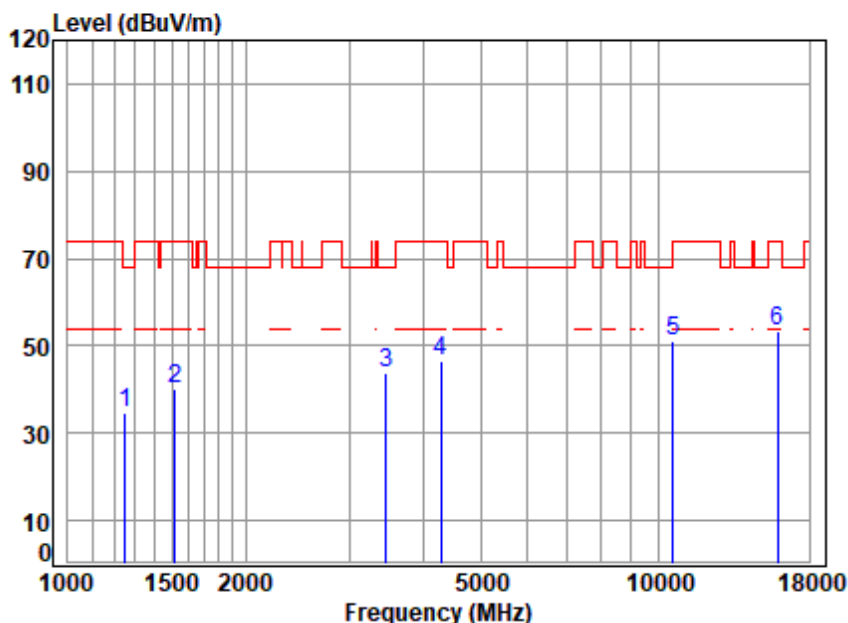


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5300 TX RSE  
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	2.85	24.81	39.79	46.77	34.64	68.20	-33.56	peak
2	1374.295	3.07	25.33	39.88	53.29	41.81	74.00	-32.19	peak
3	3405.929	5.40	31.56	41.01	48.07	44.02	68.20	-24.18	peak
4	4254.921	6.53	33.17	41.65	48.45	46.50	74.00	-27.50	peak
5	10600.000	10.62	37.72	37.42	39.62	50.54	68.20	-17.66	peak
6	15900.000	14.12	40.94	40.55	38.75	53.26	74.00	-20.74	peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle

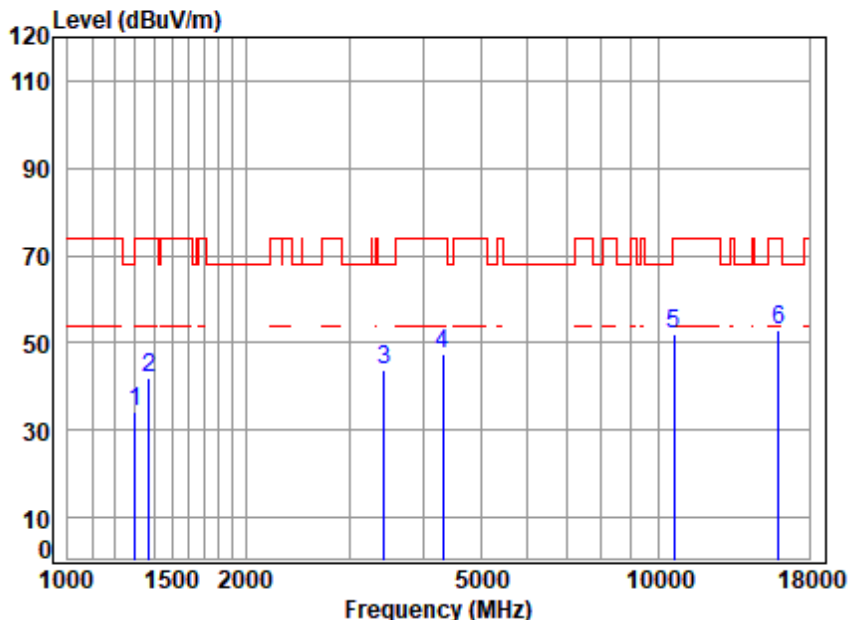


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5300 TX RSE  
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	2.85	24.81	39.79	46.94	34.81	68.20	-33.39	peak
2	1520.598	3.28	25.89	39.96	50.92	40.13	74.00	-33.87	peak
3	3455.508	5.47	31.63	41.04	47.86	43.92	68.20	-24.28	peak
4	4291.977	6.57	33.24	41.68	48.21	46.34	74.00	-27.66	peak
5	10600.000	10.62	37.72	37.42	40.24	51.16	68.20	-17.04	peak
6	15900.000	14.12	40.94	40.55	38.92	53.43	74.00	-20.57	peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High

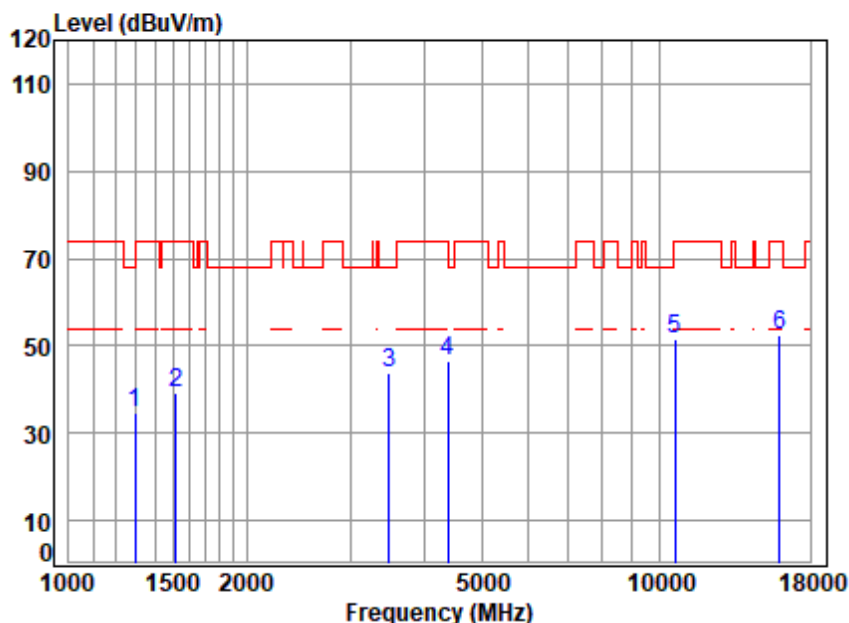


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5320 TX RSE  
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	2.94	25.03	39.83	45.85	33.99	74.00	-40.01	peak
2	1374.295	3.07	25.33	39.88	53.30	41.82	74.00	-32.18	peak
3	3435.590	5.44	31.60	41.03	48.00	44.01	68.20	-24.19	peak
4	4316.859	6.59	33.28	41.71	49.07	47.23	74.00	-26.77	peak
5	10640.000	10.66	37.73	37.44	40.88	51.83	74.00	-22.17	peak
6	15960.000	14.14	40.98	40.58	38.30	52.84	74.00	-21.16	peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

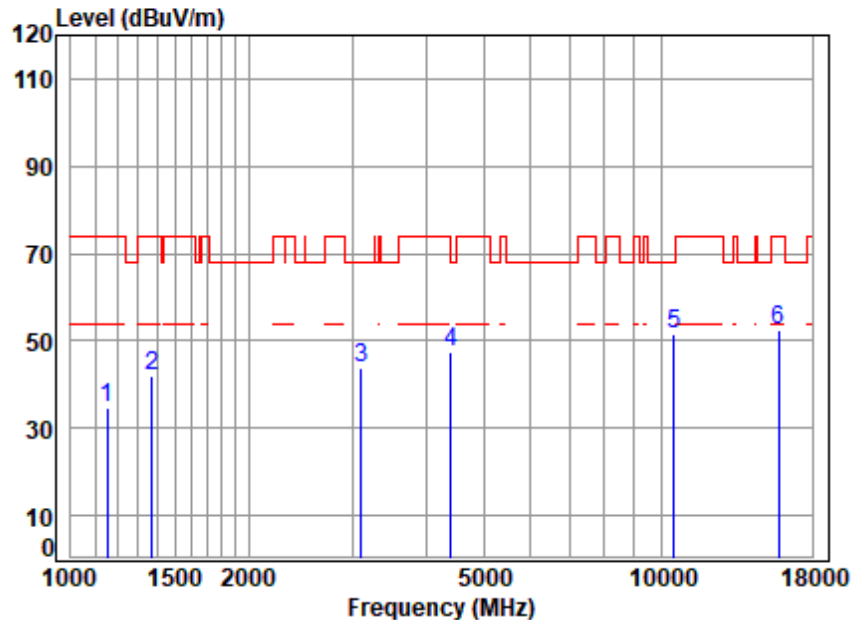


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5320 TX RSE  
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1297.103	2.94	25.01	39.83	46.54	34.66	68.20	-33.54	peak
2	1520.598	3.28	25.89	39.96	50.04	39.25	74.00	-34.75	peak
3	3485.601	5.50	31.68	41.07	47.68	43.79	68.20	-24.41	peak
4	4379.699	6.65	33.39	41.77	48.42	46.69	74.00	-27.31	peak
5	10640.000	10.66	37.73	37.44	40.78	51.73	74.00	-22.27	peak
6	15960.000	14.14	40.98	40.58	38.13	52.67	74.00	-21.33	peak



Test Mode: 04; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: Low

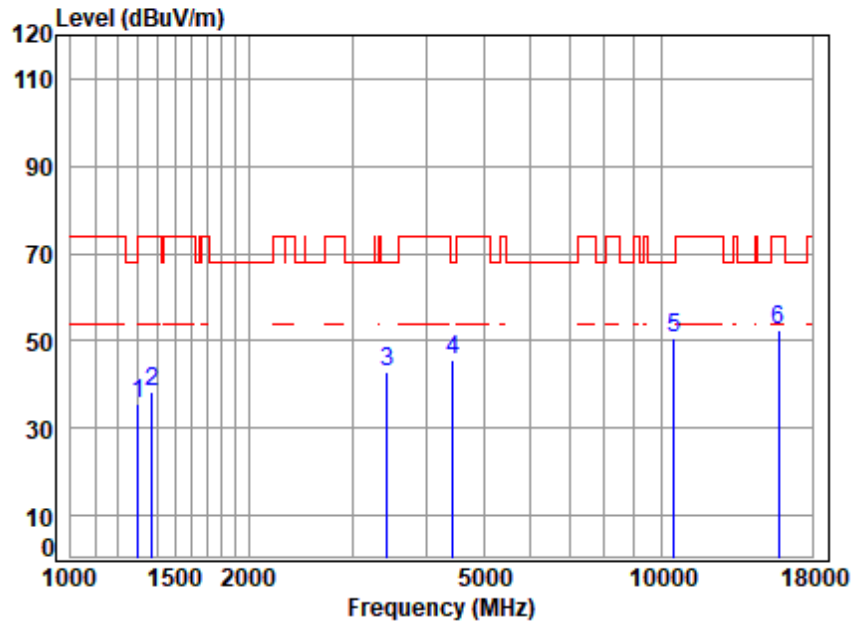


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5260 TX RSE  
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1152.148	2.67	24.37	39.72	47.46	34.78	74.00	-39.22	peak
2	1374.295	3.07	25.33	39.88	53.41	41.93	74.00	-32.07	peak
3	3105.037	5.01	31.08	40.78	48.42	43.73	68.20	-24.47	peak
4	4405.090	6.67	33.44	41.79	49.13	47.45	68.20	-20.75	peak
5	10520.000	10.55	37.70	37.38	40.90	51.77	68.20	-16.43	peak
6	15780.000	14.07	40.87	40.50	38.17	52.61	74.00	-21.39	peak



Test Mode: 04; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: Low

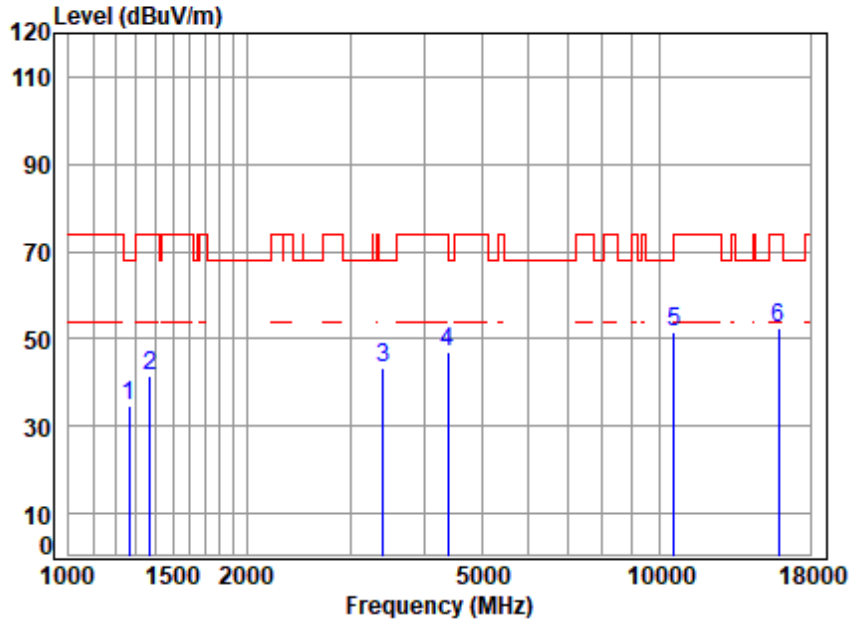


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5260 TX RSE  
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	2.94	25.03	39.83	47.28	35.42	74.00	-38.58	peak
2	1374.295	3.07	25.33	39.88	50.02	38.54	74.00	-35.46	peak
3	3435.590	5.44	31.60	41.03	47.10	43.11	68.20	-25.09	peak
4	4430.628	6.70	33.48	41.81	47.39	45.76	68.20	-22.44	peak
5	10520.000	10.55	37.70	37.38	39.93	50.80	68.20	-17.40	peak
6	15780.000	14.07	40.87	40.50	38.16	52.60	74.00	-21.40	peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle

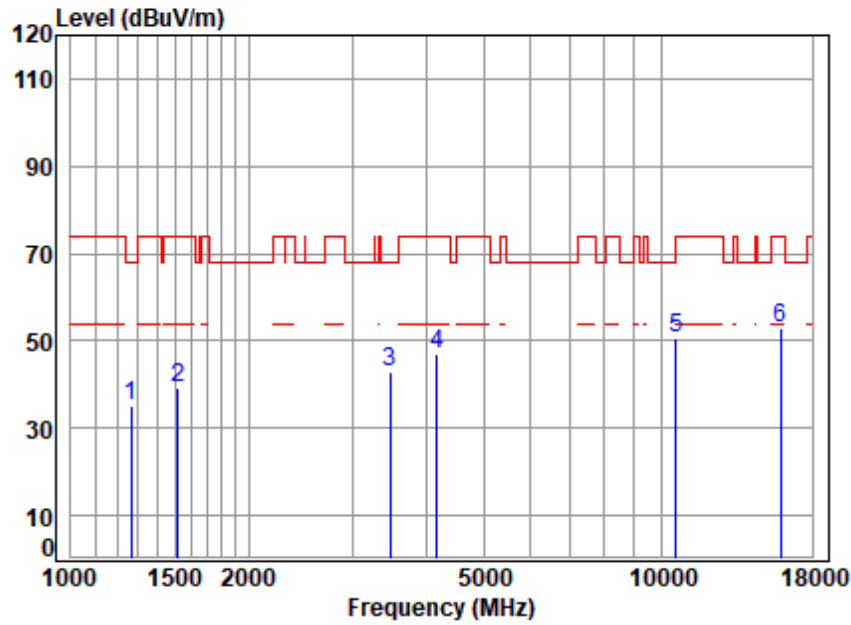


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5300 TX RSE  
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1263.796	2.88	24.87	39.80	46.52	34.47	68.20	-33.73	peak
2	1374.295	3.07	25.33	39.88	52.88	41.40	74.00	-32.60	peak
3	3405.929	5.40	31.56	41.01	47.54	43.49	68.20	-24.71	peak
4	4392.376	6.66	33.42	41.78	48.76	47.06	74.00	-26.94	peak
5	10600.000	10.62	37.72	37.42	40.75	51.67	68.20	-16.53	peak
6	15900.000	14.12	40.94	40.55	37.95	52.46	74.00	-21.54	peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle

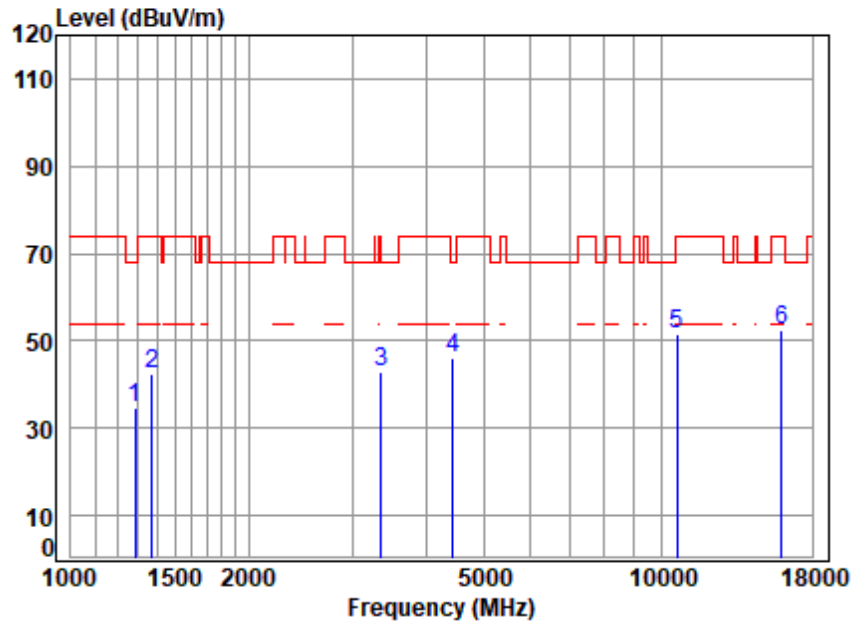


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5300 TX RSE  
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1267.454	2.89	24.89	39.81	47.32	35.29	68.20	-32.91	peak
2	1520.598	3.28	25.89	39.96	49.89	39.10	74.00	-34.90	peak
3	3475.541	5.49	31.66	41.06	46.97	43.06	68.20	-25.14	peak
4	4169.698	6.45	33.02	41.57	49.26	47.16	74.00	-26.84	peak
5	10600.000	10.62	37.72	37.42	39.55	50.47	68.20	-17.73	peak
6	15900.000	14.12	40.94	40.55	38.26	52.77	74.00	-21.23	peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

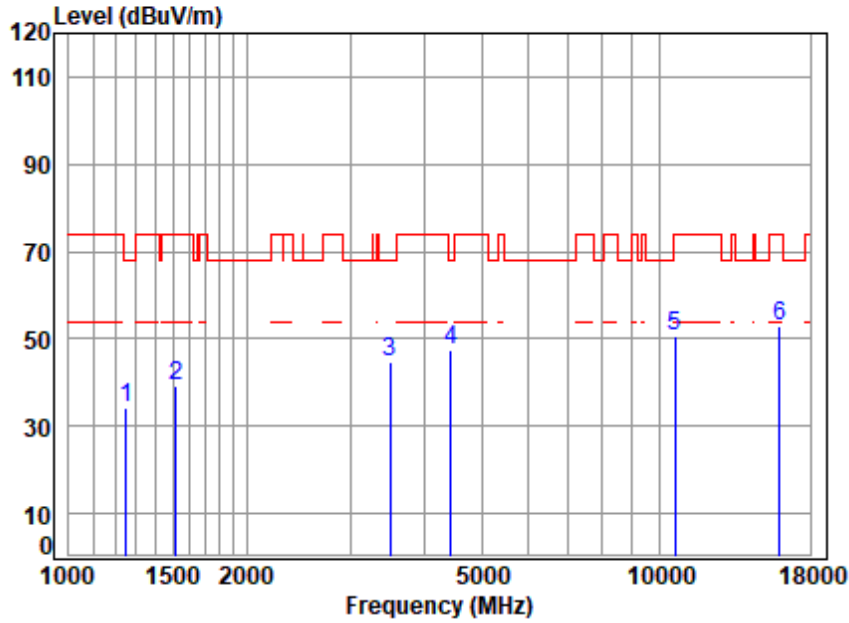


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5320 TX RSE  
Note : 5G WIFI 11N20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1285.904	2.92	24.96	39.82	46.81	34.87	68.20 -33.33 peak
2	1374.295	3.07	25.33	39.88	53.78	42.30	74.00 -31.70 peak
3	3357.061	5.34	31.48	40.97	47.21	43.06	74.00 -30.94 peak
4	4443.453	6.71	33.50	41.82	47.59	45.98	68.20 -22.22 peak
5	10640.000	10.66	37.73	37.44	40.38	51.33	74.00 -22.67 peak
6	15960.000	14.14	40.98	40.58	38.09	52.63	74.00 -21.37 peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High

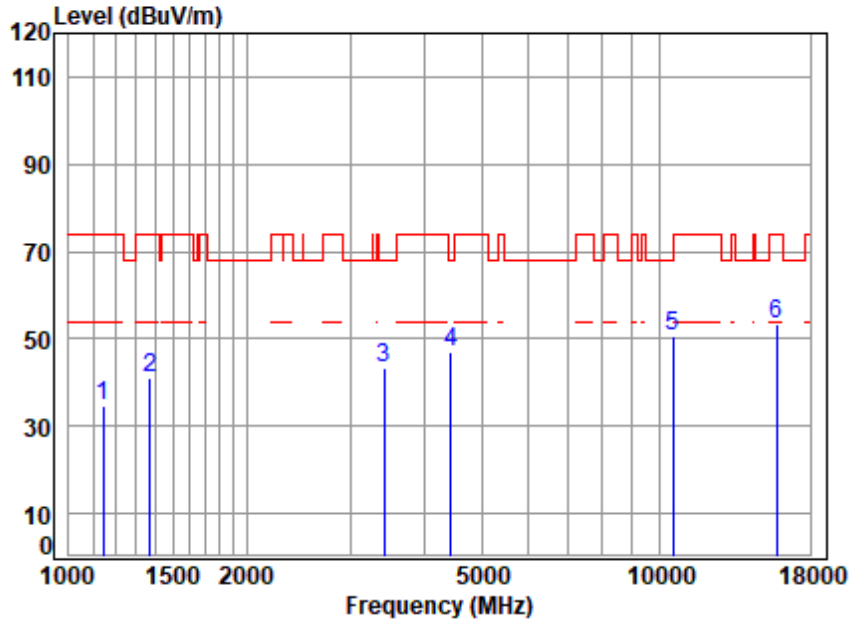


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5320 TX RSE  
Note : 5G WIFI 11N20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1249.269	2.85	24.81	39.79	46.55	34.42	68.20	-33.78 peak
2 1520.598	3.28	25.89	39.96	49.89	39.10	74.00	-34.90 peak
3 3495.691	5.51	31.69	41.07	48.45	44.58	68.20	-23.62 peak
4 4430.628	6.70	33.48	41.81	48.86	47.23	68.20	-20.97 peak
5 10640.000	10.66	37.73	37.44	39.58	50.53	74.00	-23.47 peak
6 15960.000	14.14	40.98	40.58	38.40	52.94	74.00	-21.06 peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

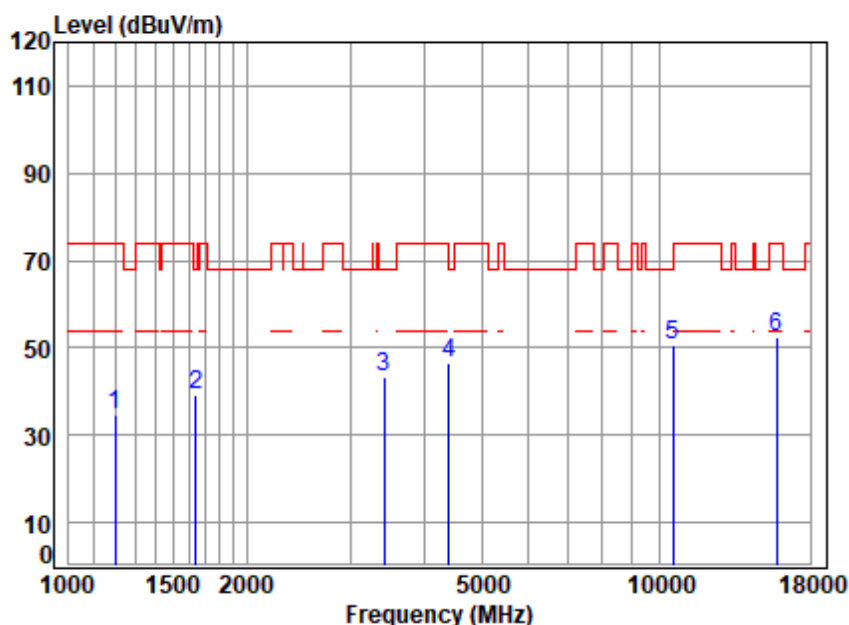


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5270 TX RSE  
Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1145.507	2.66	24.34	39.72	47.24	34.52	74.00	-39.48	peak
2	1374.295	3.07	25.33	39.88	52.74	41.26	74.00	-32.74	peak
3	3415.787	5.42	31.57	41.02	47.18	43.15	68.20	-25.05	peak
4	4443.453	6.71	33.50	41.82	48.82	47.21	68.20	-20.99	peak
5	10540.000	10.57	37.71	37.39	39.84	50.73	68.20	-17.47	peak
6	15810.000	14.08	40.89	40.51	38.92	53.38	74.00	-20.62	peak



Test Mode: 04; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 40MHz; Channel: Low

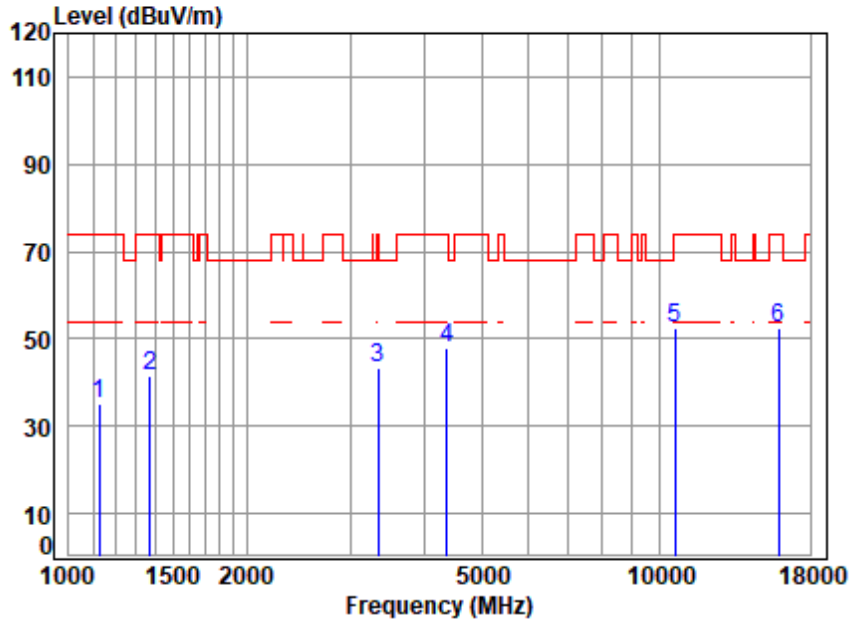


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5270 TX RSE  
Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1199.726	2.76	24.59	39.76	47.30	34.89	74.00	-39.11	peak
2	1644.019	3.38	26.44	40.03	49.32	39.11	68.20	-29.09	peak
3	3425.675	5.43	31.59	41.02	47.53	43.53	68.20	-24.67	peak
4	4405.090	6.67	33.44	41.79	48.39	46.71	68.20	-21.49	peak
5	10540.000	10.57	37.71	37.39	39.55	50.44	68.20	-17.76	peak
6	15810.000	14.08	40.89	40.51	38.22	52.68	74.00	-21.32	peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High

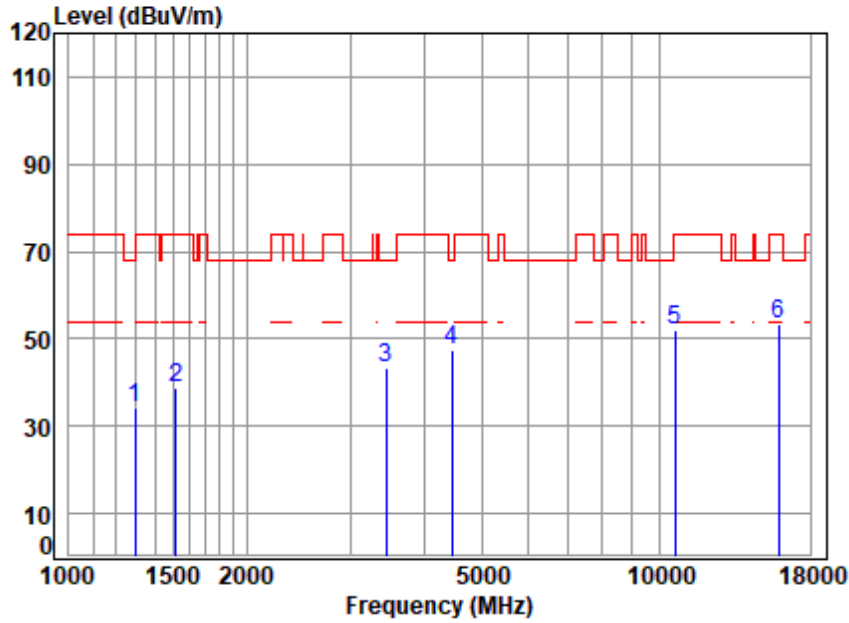


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5310 TX RSE  
Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1125.813	2.62	24.24	39.70	48.06	35.22	74.00	-38.78	peak
2	1374.295	3.07	25.33	39.88	53.13	41.65	74.00	-32.35	peak
3	3337.710	5.32	31.45	40.96	47.58	43.39	74.00	-30.61	peak
4	4367.058	6.64	33.37	41.75	49.58	47.84	74.00	-26.16	peak
5	10620.000	10.64	37.72	37.43	41.40	52.33	74.00	-21.67	peak
6	15930.000	14.13	40.96	40.57	38.08	52.60	74.00	-21.40	peak



Test Mode: 04; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 40MHz; Channel: High

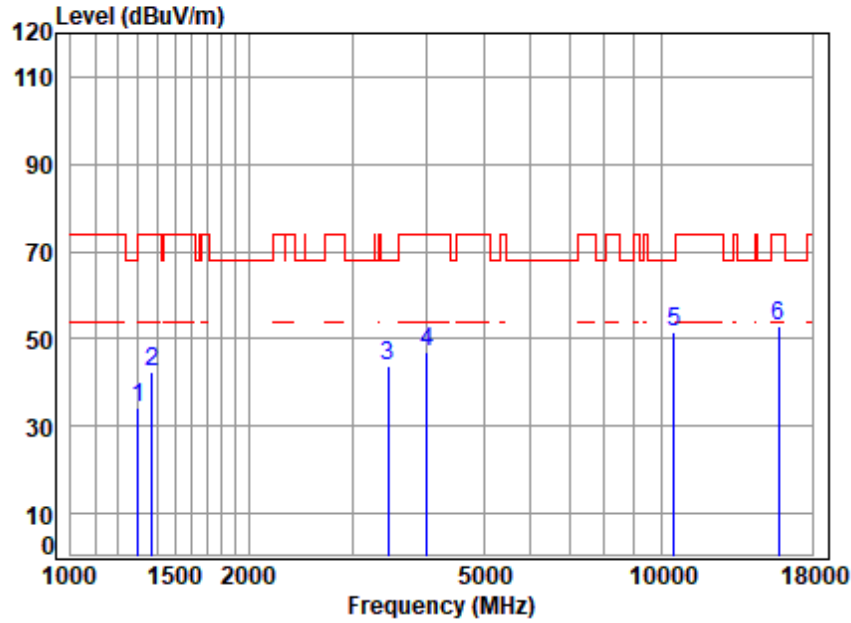


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5310 TX RSE  
Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1293.359	2.93	25.00	39.82	46.10	34.21	68.20	-33.99	peak
2	1520.598	3.28	25.89	39.96	49.50	38.71	74.00	-35.29	peak
3	3445.535	5.45	31.62	41.04	47.29	43.32	68.20	-24.88	peak
4	4456.315	6.72	33.53	41.84	48.82	47.23	68.20	-20.97	peak
5	10620.000	10.64	37.72	37.43	41.25	52.18	74.00	-21.82	peak
6	15930.000	14.13	40.96	40.57	38.83	53.35	74.00	-20.65	peak



Test Mode: 04; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low

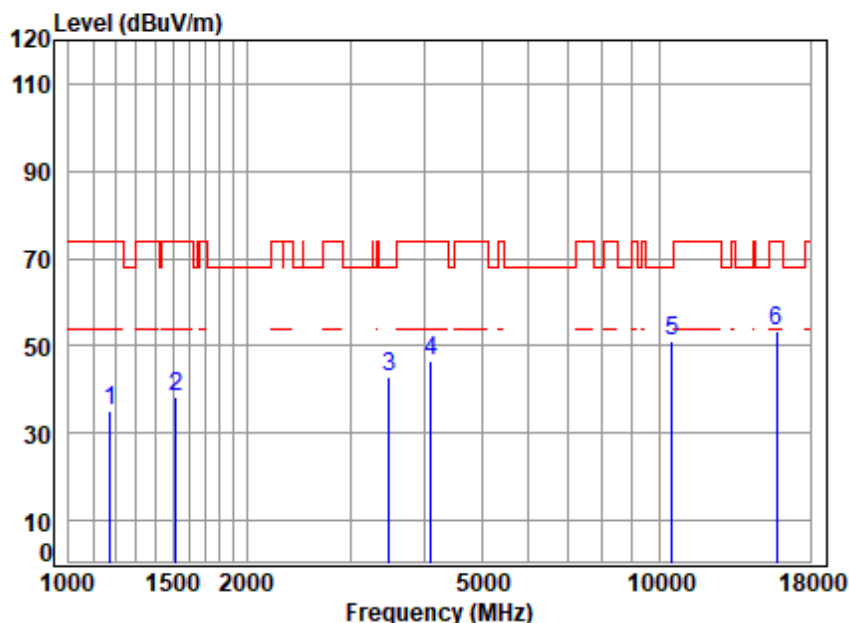


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5260 TX RSE  
Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	2.94	25.03	39.83	46.20	34.34	74.00	-39.66	peak
2	1374.295	3.07	25.33	39.88	53.81	42.33	74.00	-31.67	peak
3	3445.535	5.45	31.62	41.04	47.76	43.79	68.20	-24.41	peak
4	4004.339	6.28	32.71	41.40	49.25	46.84	74.00	-27.16	peak
5	10520.000	10.55	37.70	37.38	40.47	51.34	68.20	-16.86	peak
6	15780.000	14.07	40.87	40.50	38.50	52.94	74.00	-21.06	peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

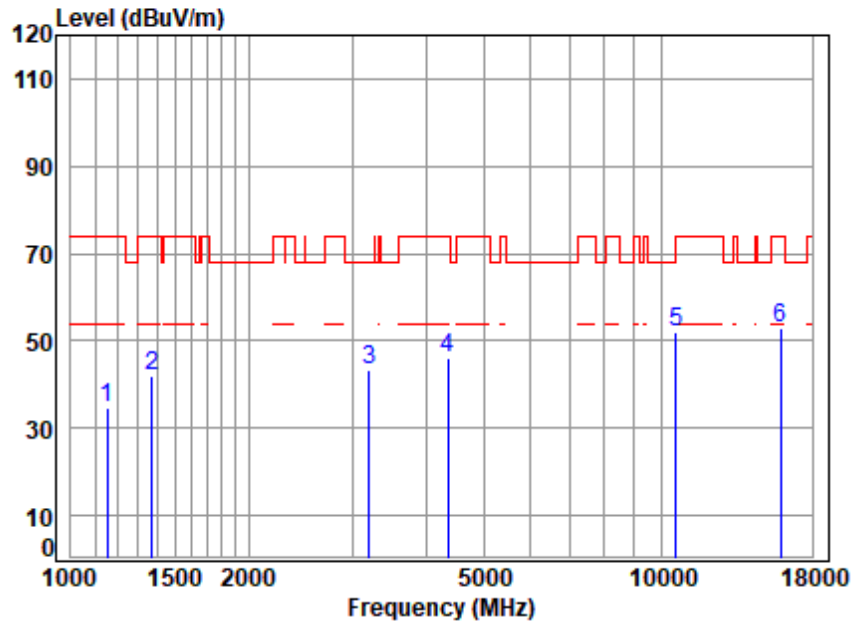


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5260 TX RSE  
Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1175.697	2.72	24.48	39.74	47.77	35.23	74.00	-38.77	peak
2	1520.598	3.28	25.89	39.96	49.04	38.25	74.00	-35.75	peak
3	3485.601	5.50	31.68	41.07	46.88	42.99	68.20	-25.21	peak
4	4109.872	6.39	32.91	41.51	48.72	46.51	74.00	-27.49	peak
5	10520.000	10.55	37.70	37.38	40.31	51.18	68.20	-17.02	peak
6	15780.000	14.07	40.87	40.50	38.86	53.30	74.00	-20.70	peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle

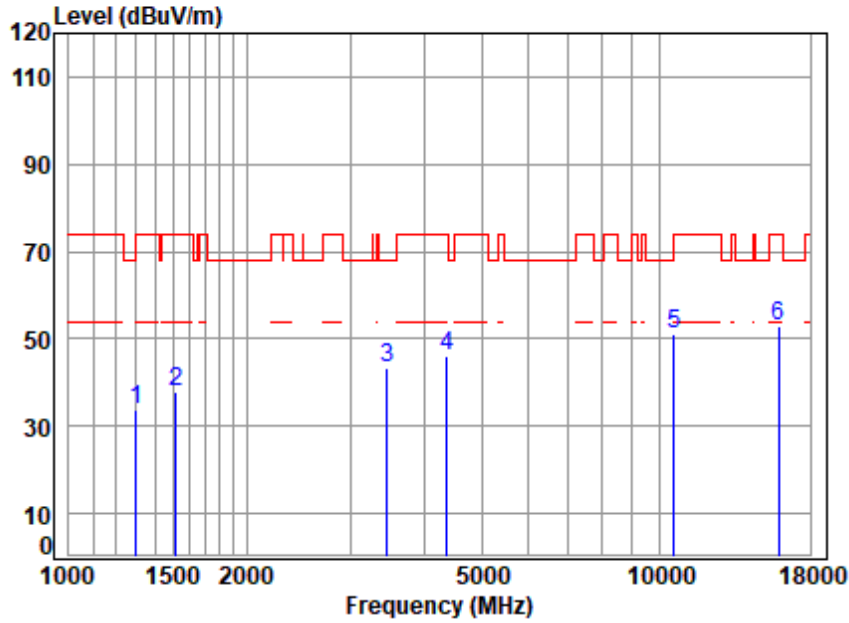


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5300 TX RSE  
Note : 5G WIFI 11AC20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1152.148	2.67	24.37	39.72	47.27	34.59	74.00 -39.41 peak
2	1374.295	3.07	25.33	39.88	53.54	42.06	74.00 -31.94 peak
3	3196.094	5.13	31.23	40.85	48.06	43.57	68.20 -24.63 peak
4	4354.454	6.63	33.35	41.74	47.68	45.92	74.00 -28.08 peak
5	10600.000	10.62	37.72	37.42	40.90	51.82	68.20 -16.38 peak
6	15900.000	14.12	40.94	40.55	38.53	53.04	74.00 -20.96 peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle

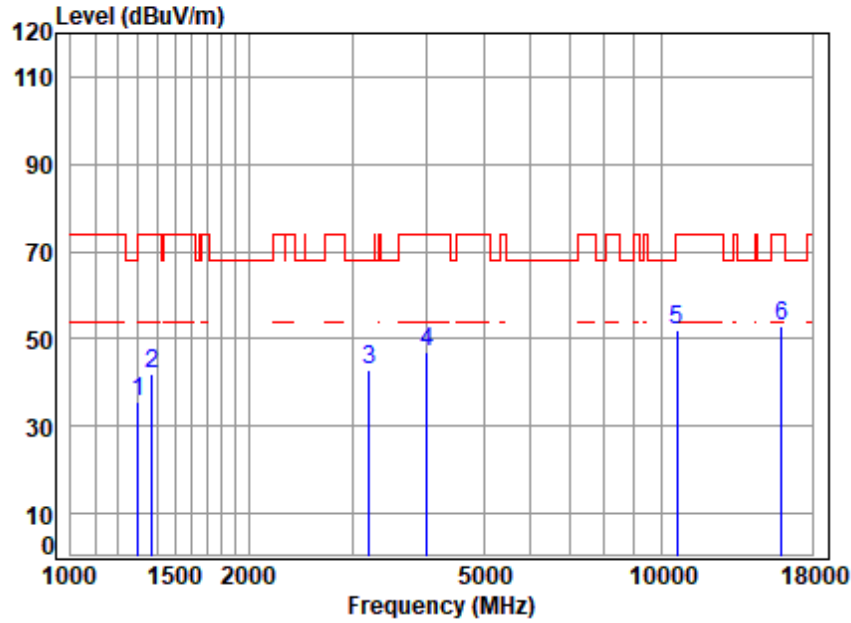


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5300 TX RSE  
Note : 5G WIFI 11AC20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	2.94	25.03	39.83	45.72	33.86	74.00	-40.14 peak
2	1520.598	3.28	25.89	39.96	48.89	38.10	74.00	-35.90 peak
3	3465.510	5.48	31.65	41.05	47.22	43.30	68.20	-24.90 peak
4	4367.058	6.64	33.37	41.75	47.90	46.16	74.00	-27.84 peak
5	10600.000	10.62	37.72	37.42	40.37	51.29	68.20	-16.91 peak
6	15900.000	14.12	40.94	40.55	38.29	52.80	74.00	-21.20 peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

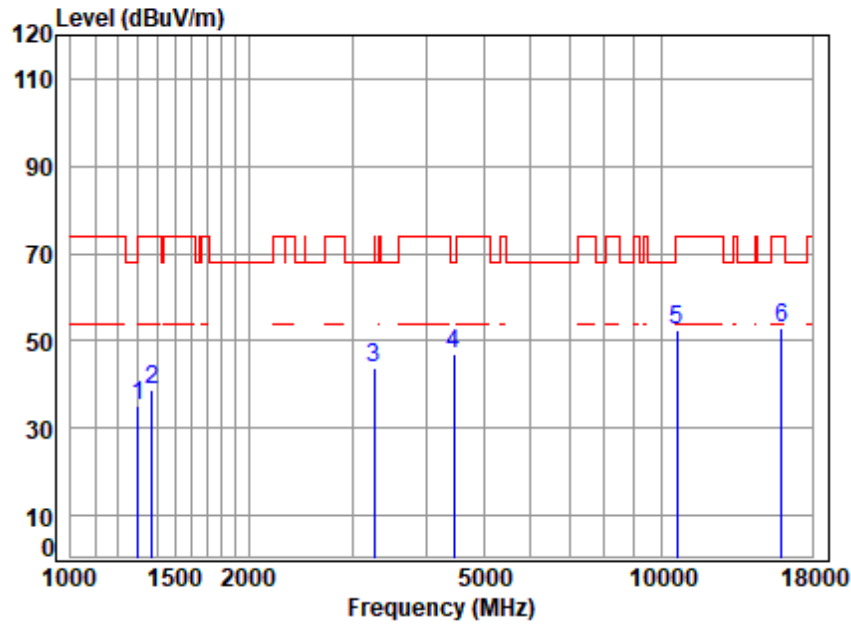


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5320 TX RSE  
Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	2.94	25.03	39.83	47.32	35.46	74.00	-38.54	peak
2	1374.295	3.07	25.33	39.88	53.35	41.87	74.00	-32.13	peak
3	3205.345	5.14	31.24	40.86	47.51	43.03	68.20	-25.17	peak
4	4004.339	6.28	32.71	41.40	49.56	47.15	74.00	-26.85	peak
5	10640.000	10.66	37.73	37.44	41.07	52.02	74.00	-21.98	peak
6	15960.000	14.14	40.98	40.58	38.60	53.14	74.00	-20.86	peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

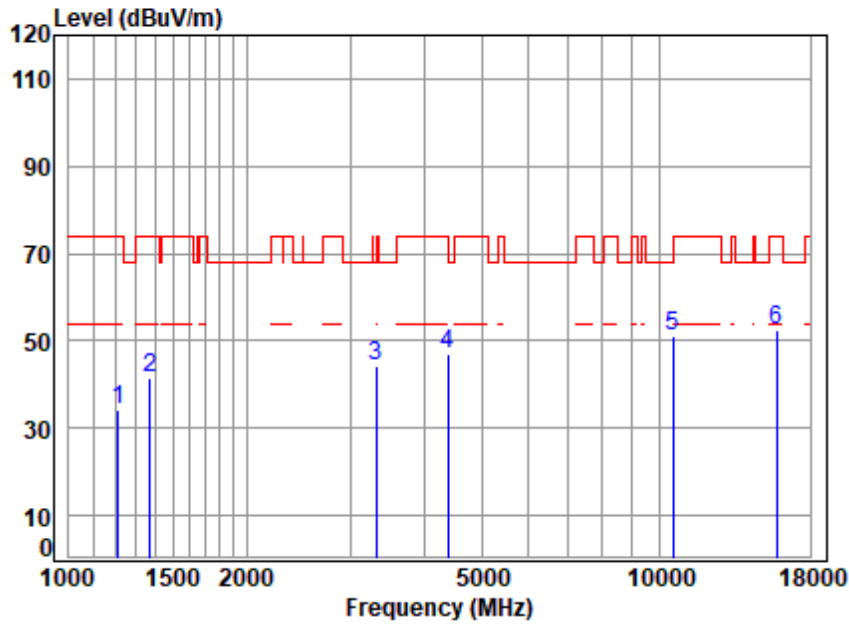


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5320 TX RSE  
Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	2.94	25.03	39.83	46.85	34.99	74.00	-39.01	peak
2	1374.295	3.07	25.33	39.88	50.43	38.95	74.00	-35.05	peak
3	3261.418	5.22	31.33	40.90	47.97	43.62	74.00	-30.38	peak
4	4456.315	6.72	33.53	41.84	48.41	46.82	68.20	-21.38	peak
5	10640.000	10.66	37.73	37.44	41.47	52.42	74.00	-21.58	peak
6	15960.000	14.14	40.98	40.58	38.32	52.86	74.00	-21.14	peak



Test Mode: 04; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low

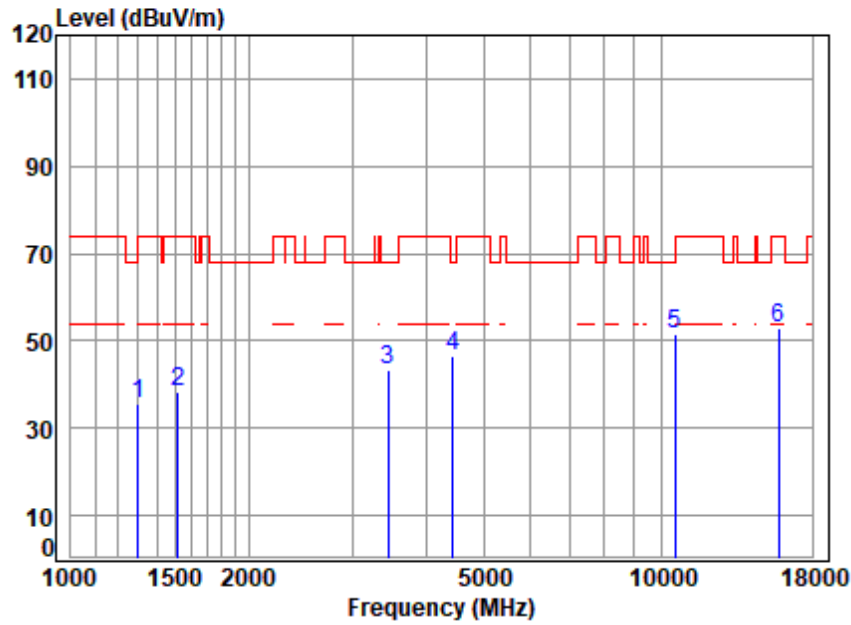


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5270 TX RSE  
Note : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1213.677	2.79	24.65	39.77	46.41	34.08	74.00	-39.92	peak
2	1374.295	3.07	25.33	39.88	53.05	41.57	74.00	-32.43	peak
3	3318.471	5.29	31.42	40.95	48.56	44.32	68.20	-23.88	peak
4	4392.376	6.66	33.42	41.78	48.91	47.21	74.00	-26.79	peak
5	10540.000	10.57	37.71	37.39	40.04	50.93	68.20	-17.27	peak
6	15810.000	14.08	40.89	40.51	38.14	52.60	74.00	-21.40	peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

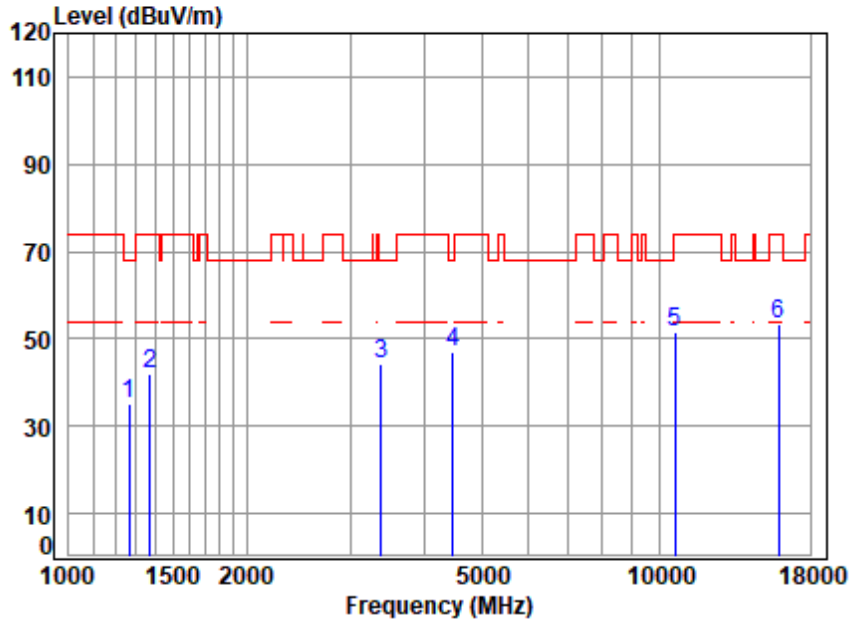


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5270 TX RSE  
Note : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	2.94	25.03	39.83	47.67	35.81	74.00	-38.19	peak
2	1520.598	3.28	25.89	39.96	49.24	38.45	74.00	-35.55	peak
3	3445.535	5.45	31.62	41.04	47.27	43.30	68.20	-24.90	peak
4	4443.453	6.71	33.50	41.82	47.97	46.36	68.20	-21.84	peak
5	10540.000	10.57	37.71	37.39	40.86	51.75	68.20	-16.45	peak
6	15810.000	14.08	40.89	40.51	38.69	53.15	74.00	-20.85	peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

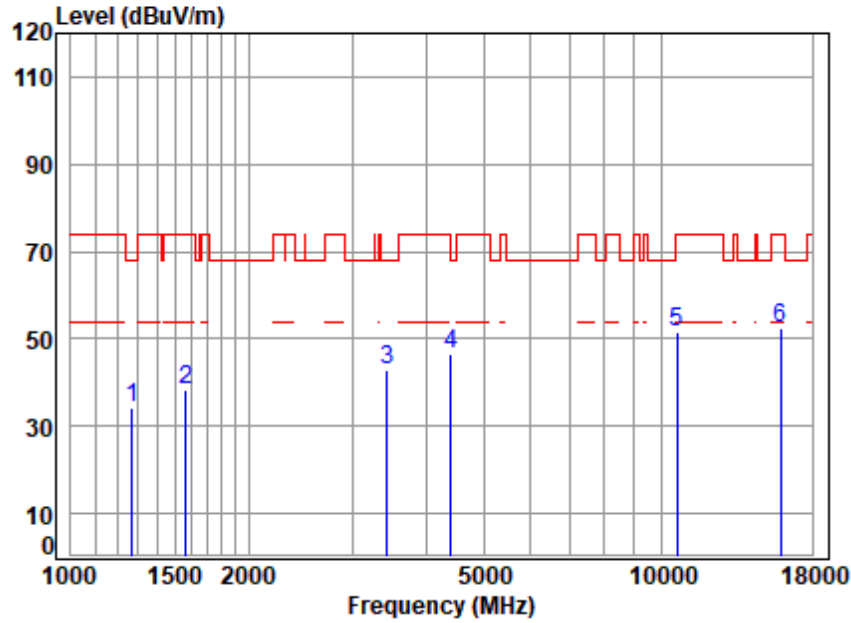


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5310 TX RSE  
Note : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1267.454	2.89	24.89	39.81	47.16	35.13	68.20	-33.07	peak
2	1374.295	3.07	25.33	39.88	53.35	41.87	74.00	-32.13	peak
3	3386.297	5.38	31.53	40.99	48.47	44.39	68.20	-23.81	peak
4	4469.214	6.73	33.55	41.85	48.43	46.86	68.20	-21.34	peak
5	10620.000	10.64	37.72	37.43	40.85	51.78	74.00	-22.22	peak
6	15930.000	14.13	40.96	40.57	38.91	53.43	74.00	-20.57	peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

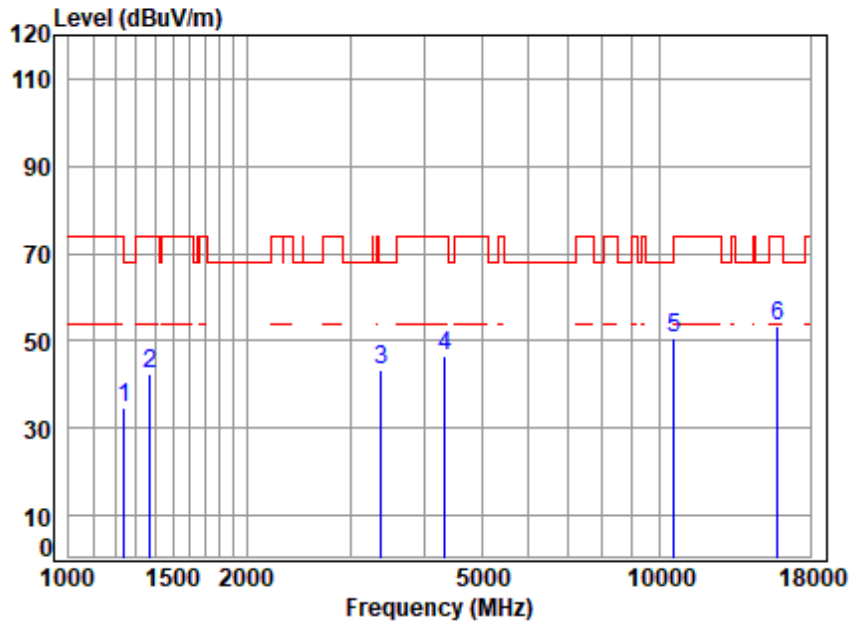


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5310 TX RSE  
Note : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1271.123	2.89	24.90	39.81	46.40	34.38	68.20	-33.82	peak
2	1565.191	3.32	26.10	39.99	48.80	38.23	74.00	-35.77	peak
3	3435.590	5.44	31.60	41.03	46.92	42.93	68.20	-25.27	peak
4	4405.090	6.67	33.44	41.79	48.15	46.47	68.20	-21.73	peak
5	10620.000	10.64	37.72	37.43	40.59	51.52	74.00	-22.48	peak
6	15930.000	14.13	40.96	40.57	38.01	52.53	74.00	-21.47	peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle

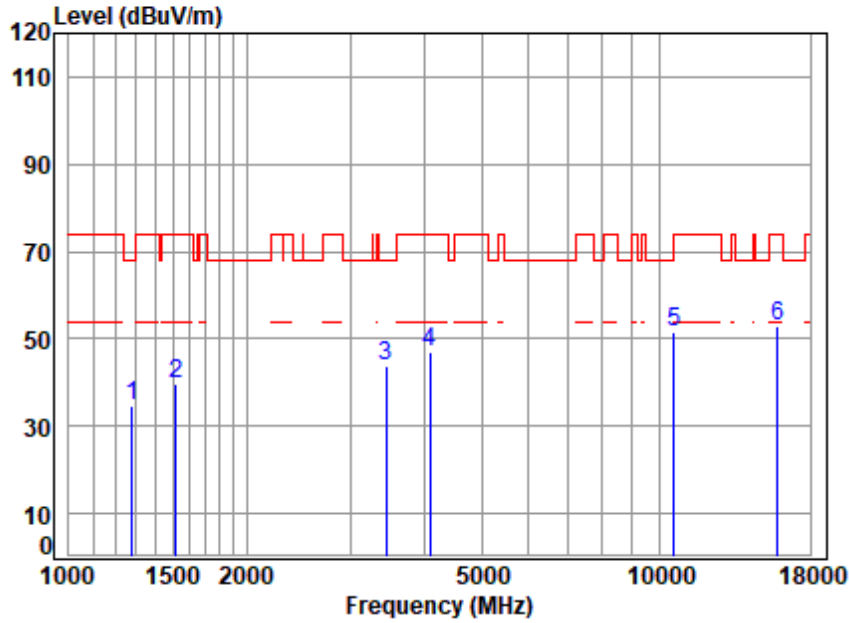


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5290 TX RSE  
Note : 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1242.068	2.84	24.78	39.79	47.06	34.89	68.20	-33.31	peak
2	1374.295	3.07	25.33	39.88	54.05	42.57	74.00	-31.43	peak
3	3386.297	5.38	31.53	40.99	47.50	43.42	68.20	-24.78	peak
4	4329.354	6.60	33.30	41.72	48.27	46.45	74.00	-27.55	peak
5	10580.000	10.60	37.72	37.41	39.62	50.53	68.20	-17.67	peak
6	15870.000	14.11	40.92	40.54	38.70	53.19	74.00	-20.81	peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle

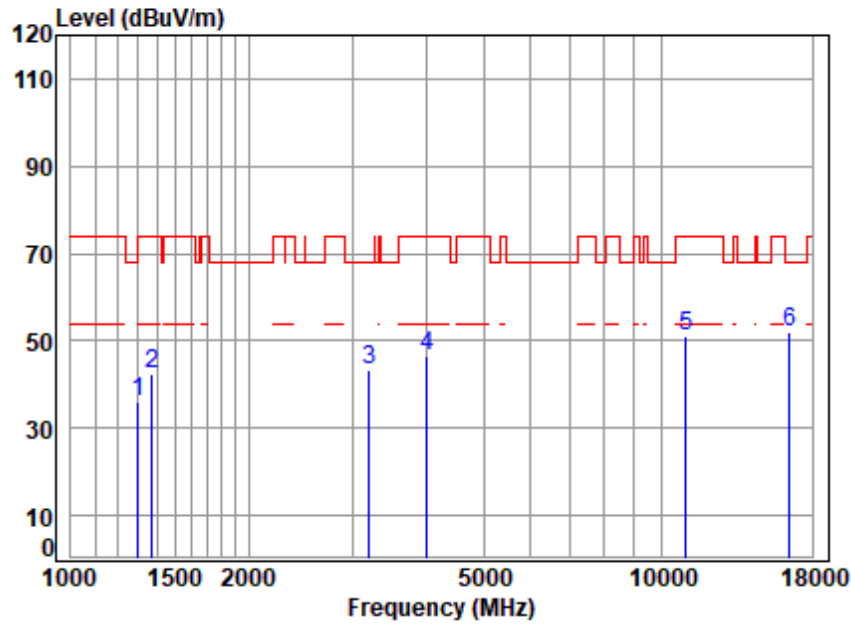


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5290 TX RSE  
Note : 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1282.193	2.91	24.95	39.82	46.77	34.81	68.20	-33.39	peak
2	1520.598	3.28	25.89	39.96	50.44	39.65	74.00	-34.35	peak
3	3445.535	5.45	31.62	41.04	47.92	43.95	68.20	-24.25	peak
4	4086.182	6.37	32.86	41.49	49.20	46.94	74.00	-27.06	peak
5	10580.000	10.60	37.72	37.41	40.43	51.34	68.20	-16.86	peak
6	15870.000	14.11	40.92	40.54	38.30	52.79	74.00	-21.21	peak



Test Mode: 05; Polarity: Horizontal; Modulation: 802.11a; Bandwidth: 20MHz; Channel: Low

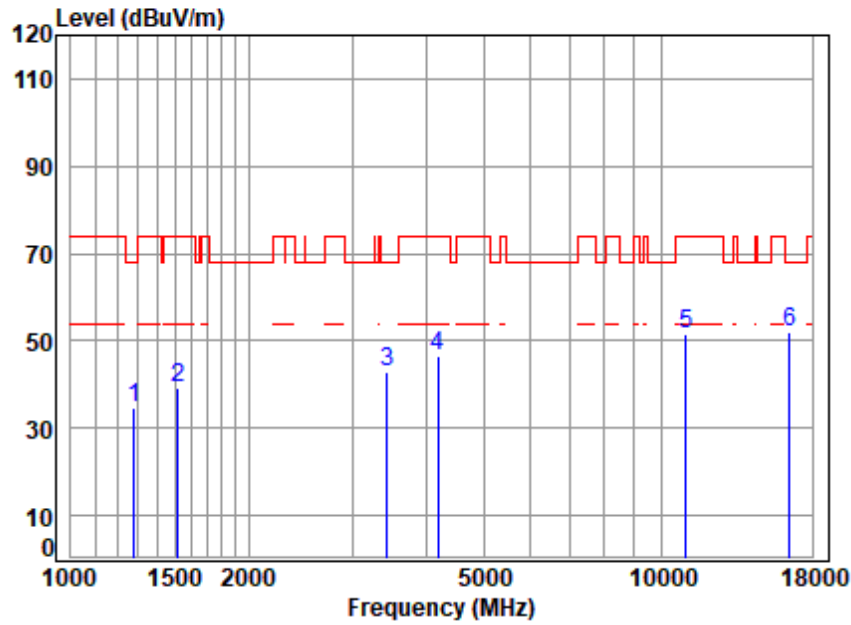


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5500 TX RSE  
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	2.94	25.03	39.83	48.08	36.22	74.00	-37.78	peak
2	1374.295	3.07	25.33	39.88	54.03	42.55	74.00	-31.45	peak
3	3196.094	5.13	31.23	40.85	47.66	43.17	68.20	-25.03	peak
4	4004.339	6.28	32.71	41.40	48.75	46.34	74.00	-27.66	peak
5	11000.000	10.97	37.80	37.62	39.89	51.04	74.00	-22.96	peak
6	16500.000	14.82	42.20	40.47	35.48	52.03	68.20	-16.17	peak



Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

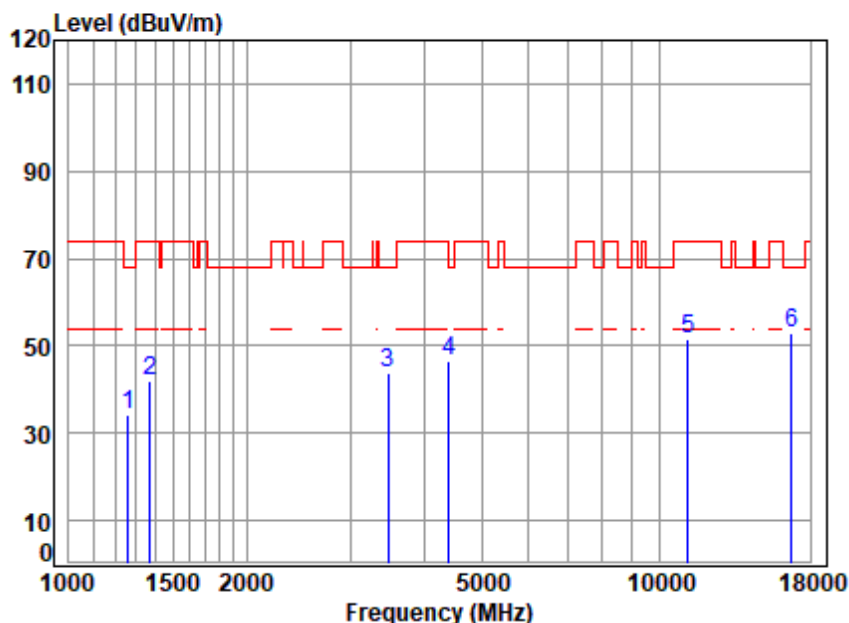


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5500 TX RSE  
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1278.492	2.91	24.93	39.81	46.84	34.87	68.20	-33.33	peak
2	1520.598	3.28	25.89	39.96	49.83	39.04	74.00	-34.96	peak
3	3435.590	5.44	31.60	41.03	46.92	42.93	68.20	-25.27	peak
4	4181.768	6.46	33.04	41.58	48.43	46.35	74.00	-27.65	peak
5	11000.000	10.97	37.80	37.62	40.54	51.69	74.00	-22.31	peak
6	16500.000	14.82	42.20	40.47	35.58	52.13	68.20	-16.07	peak



Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle

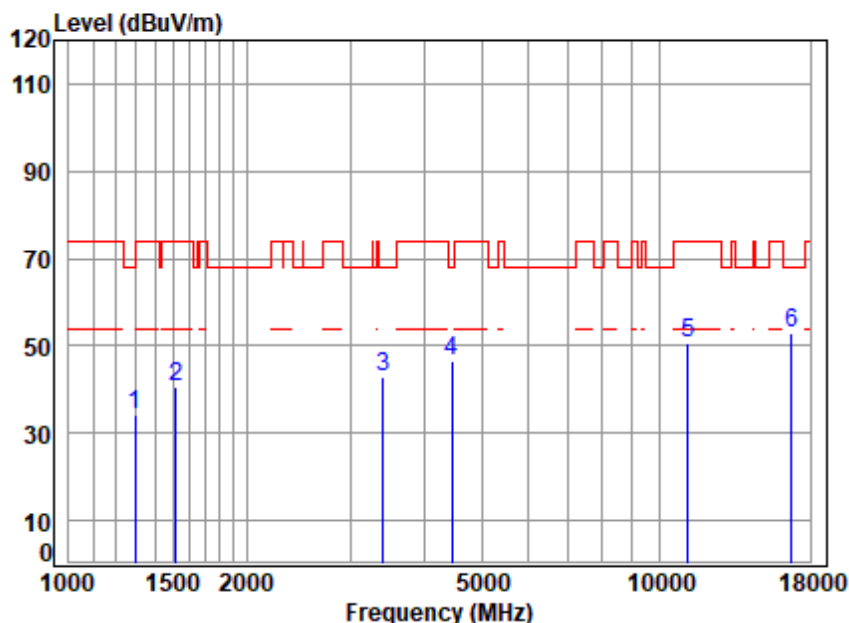


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5580 TX RSE  
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	2.87	24.85	39.80	46.45	34.37	68.20	-33.83	peak
2	1374.295	3.07	25.33	39.88	53.36	41.88	74.00	-32.12	peak
3	3475.541	5.49	31.66	41.06	47.76	43.85	68.20	-24.35	peak
4	4405.090	6.67	33.44	41.79	48.35	46.67	68.20	-21.53	peak
5	11160.000	11.18	37.83	37.70	40.21	51.52	74.00	-22.48	peak
6	16740.000	14.51	42.39	40.41	36.32	52.81	68.20	-15.39	peak



Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5580 TX RSE  
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1297.103	2.94	25.01	39.83	46.28	34.40	68.20	-33.80	peak
2	1520.598	3.28	25.89	39.96	51.54	40.75	74.00	-33.25	peak
3	3405.929	5.40	31.56	41.01	47.01	42.96	68.20	-25.24	peak
4	4456.315	6.72	33.53	41.84	48.26	46.67	68.20	-21.53	peak
5	11160.000	11.18	37.83	37.70	39.19	50.50	74.00	-23.50	peak
6	16740.000	14.51	42.39	40.41	36.40	52.89	68.20	-15.31	peak



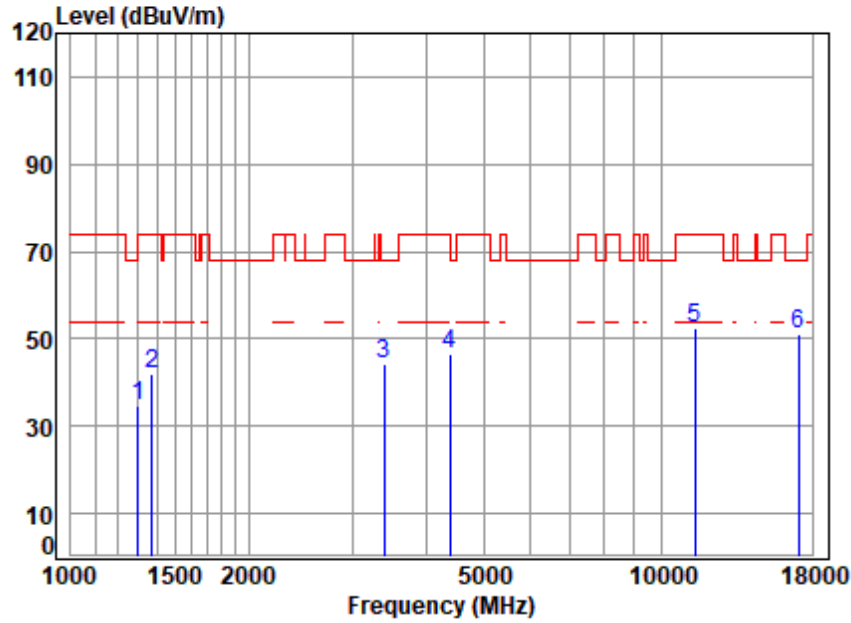
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

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

Test Mode: 05; Polarity: Horizontal; Modulation: 802.11a; Bandwidth: 20MHz; Channel: High

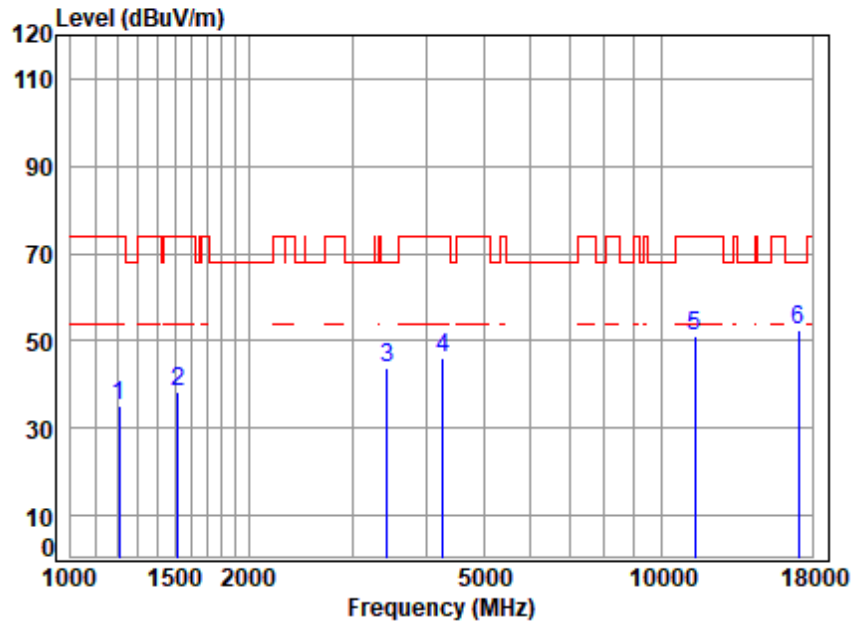


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5700 TX RSE  
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	2.94	25.03	39.83	46.76	34.90	74.00	-39.10	peak
2	1374.295	3.07	25.33	39.88	53.23	41.75	74.00	-32.25	peak
3	3396.098	5.39	31.54	41.00	48.27	44.20	68.20	-24.00	peak
4	4392.376	6.66	33.42	41.78	48.28	46.58	74.00	-27.42	peak
5	11400.000	11.50	37.88	37.82	40.99	52.55	74.00	-21.45	peak
6	17100.000	14.14	42.66	40.32	34.74	51.22	68.20	-16.98	peak



Test Mode: 05; Polarity: Vertical; Modulation: 802.11a; Bandwidth: 20MHz; Channel: High

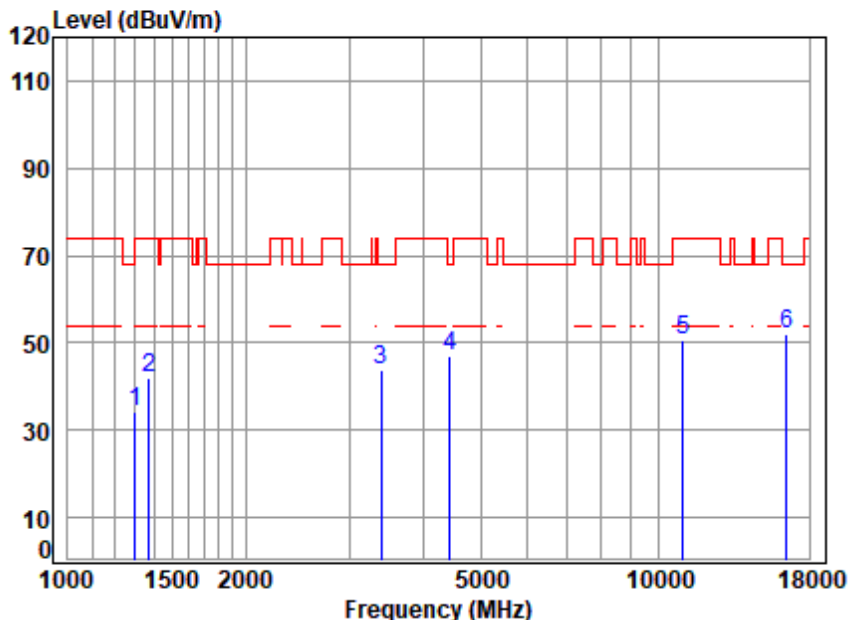


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5700 TX RSE  
Note : 5G WIFI 11A

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1206.682	2.78	24.62	39.76	47.67	35.31	74.00 -38.69 peak
2	1520.598	3.28	25.89	39.96	49.23	38.44	74.00 -35.56 peak
3	3435.590	5.44	31.60	41.03	47.62	43.63	68.20 -24.57 peak
4	4267.237	6.54	33.19	41.66	48.23	46.30	74.00 -27.70 peak
5	11400.000	11.50	37.88	37.82	39.77	51.33	74.00 -22.67 peak
6	17100.000	14.14	42.66	40.32	36.04	52.52	68.20 -15.68 peak



Test Mode: 05; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: Low

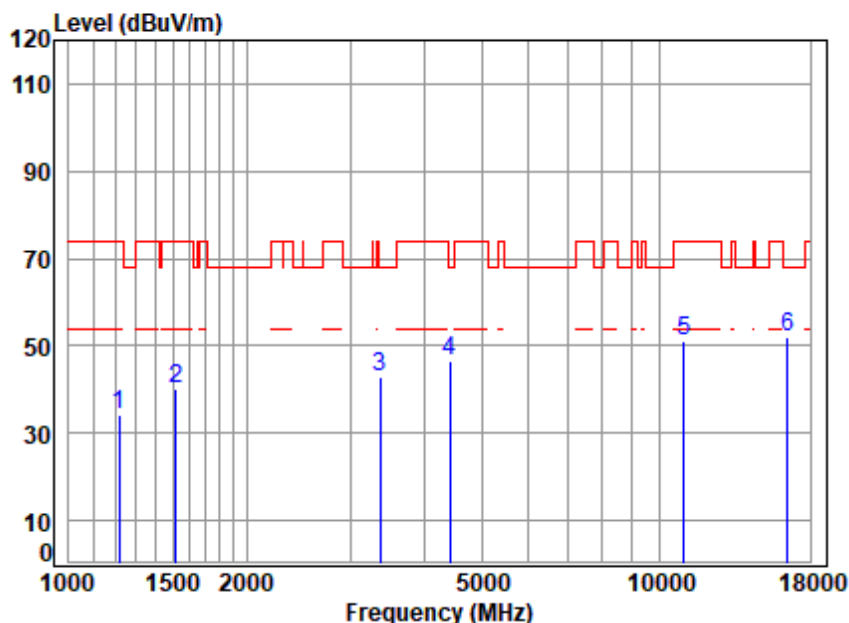


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5500 TX RSE  
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	2.94	25.03	39.83	46.18	34.32	74.00	-39.68	peak
2	1374.295	3.07	25.33	39.88	53.61	42.13	74.00	-31.87	peak
3	3396.098	5.39	31.54	41.00	47.90	43.83	68.20	-24.37	peak
4	4443.453	6.71	33.50	41.82	48.66	47.05	68.20	-21.15	peak
5	11000.000	10.97	37.80	37.62	39.69	50.84	74.00	-23.16	peak
6	16500.000	14.82	42.20	40.47	35.68	52.23	68.20	-15.97	peak



Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

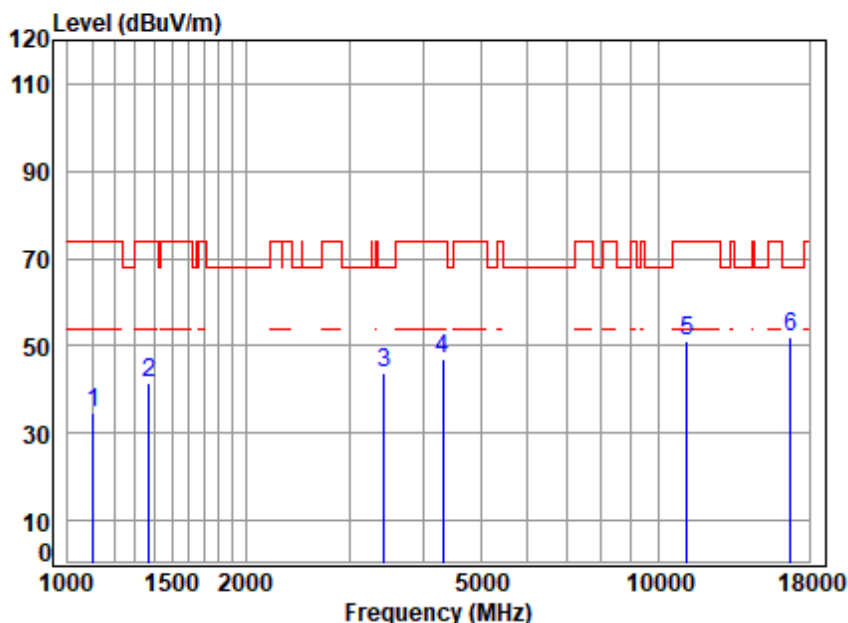


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5500 TX RSE  
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1217.190	2.80	24.67	39.77	46.71	34.41	74.00	-39.59	peak
2	1520.598	3.28	25.89	39.96	50.83	40.04	74.00	-33.96	peak
3	3366.778	5.35	31.50	40.98	46.97	42.84	68.20	-25.36	peak
4	4417.841	6.68	33.46	41.80	48.02	46.36	68.20	-21.84	peak
5	11000.000	10.97	37.80	37.62	39.81	50.96	74.00	-23.04	peak
6	16500.000	14.82	42.20	40.47	35.40	51.95	68.20	-16.25	peak



Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle

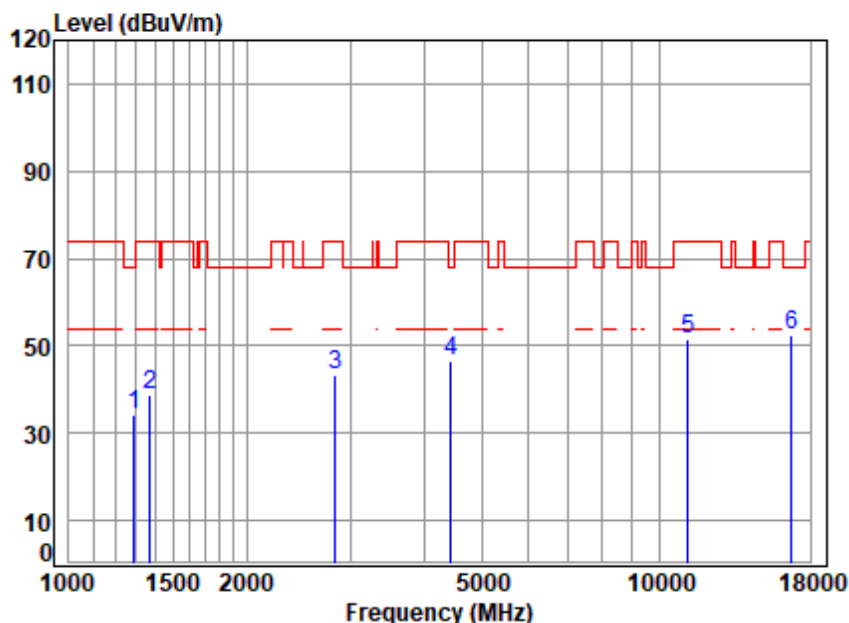


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5580 TX RSE  
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1106.457	2.58	24.15	39.69	47.55	34.59	74.00	-39.41	peak
2	1374.295	3.07	25.33	39.88	52.84	41.36	74.00	-32.64	peak
3	3435.590	5.44	31.60	41.03	47.96	43.97	68.20	-24.23	peak
4	4316.859	6.59	33.28	41.71	49.01	47.17	74.00	-26.83	peak
5	11160.000	11.18	37.83	37.70	39.66	50.97	74.00	-23.03	peak
6	16740.000	14.51	42.39	40.41	35.30	51.79	68.20	-16.41	peak



Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5580 TX RSE  
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1289.627	2.92	24.98	39.82	46.32	34.40	68.20	-33.80	peak
2	1374.295	3.07	25.33	39.88	50.14	38.66	74.00	-35.34	peak
3	2830.728	4.75	30.20	40.63	49.16	43.48	74.00	-30.52	peak
4	4443.453	6.71	33.50	41.82	48.04	46.43	68.20	-21.77	peak
5	11160.000	11.18	37.83	37.70	40.24	51.55	74.00	-22.45	peak
6	16740.000	14.51	42.39	40.41	35.89	52.38	68.20	-15.82	peak



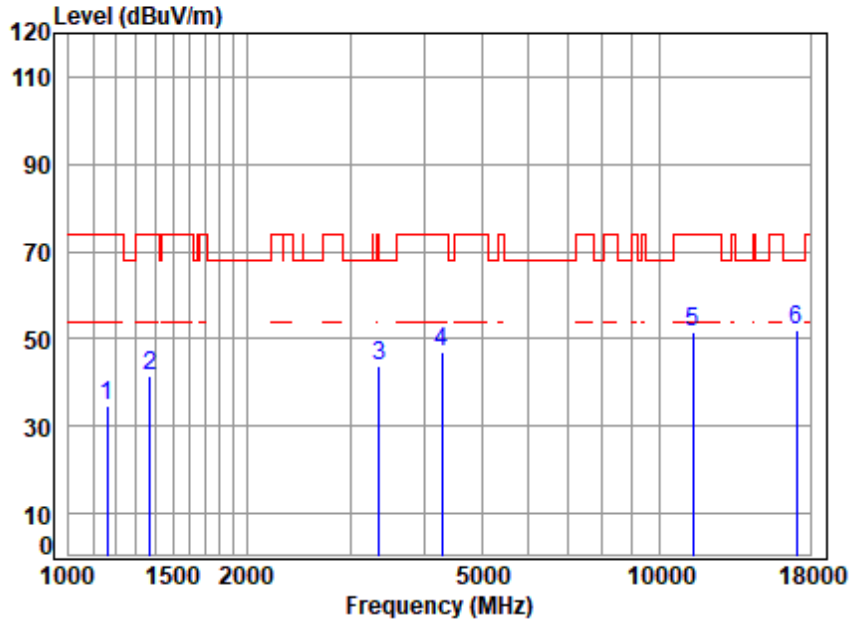
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

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

Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

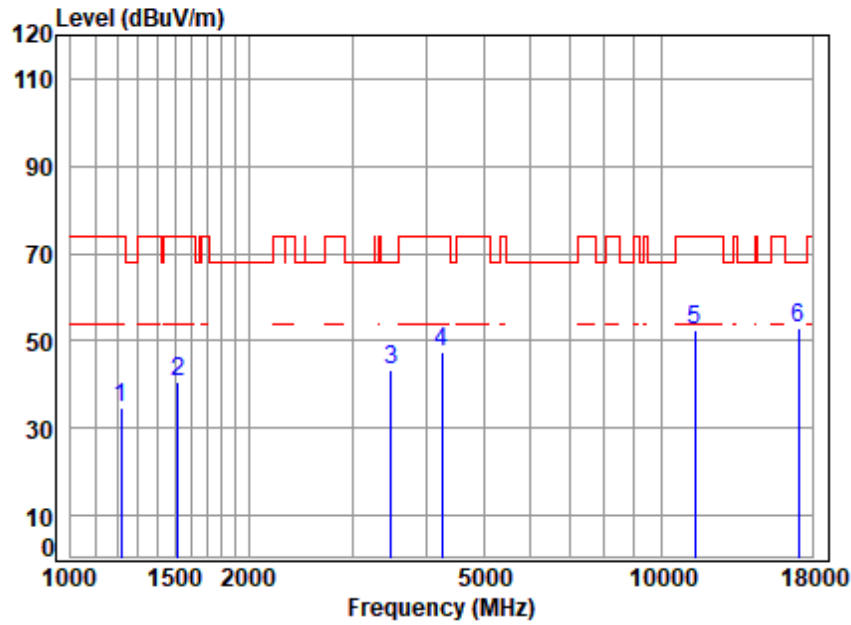


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5700 TX RSE  
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1162.182	2.69	24.42	39.73	47.33	34.71	74.00	-39.29	peak
2	1374.295	3.07	25.33	39.88	52.97	41.49	74.00	-32.51	peak
3	3357.061	5.34	31.48	40.97	47.88	43.73	74.00	-30.27	peak
4	4291.977	6.57	33.24	41.68	49.01	47.14	74.00	-26.86	peak
5	11400.000	11.50	37.88	37.82	40.00	51.56	74.00	-22.44	peak
6	17100.000	14.14	42.66	40.32	35.68	52.16	68.20	-16.04	peak



Test Mode: 05; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: High

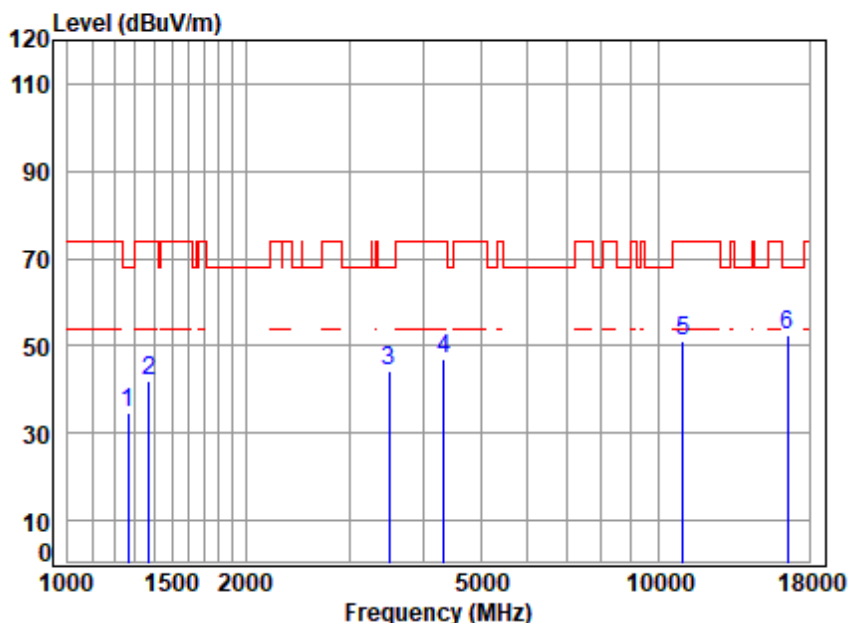


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5700 TX RSE  
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1217.190	2.80	24.67	39.77	46.92	34.62	74.00	-39.38	peak
2	1520.598	3.28	25.89	39.96	51.30	40.51	74.00	-33.49	peak
3	3485.601	5.50	31.68	41.07	47.07	43.18	68.20	-25.02	peak
4	4242.641	6.52	33.15	41.64	49.47	47.50	74.00	-26.50	peak
5	11400.000	11.50	37.88	37.82	41.11	52.67	74.00	-21.33	peak
6	17100.000	14.14	42.66	40.32	36.23	52.71	68.20	-15.49	peak



Test Mode: 05; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 40MHz; Channel: Low

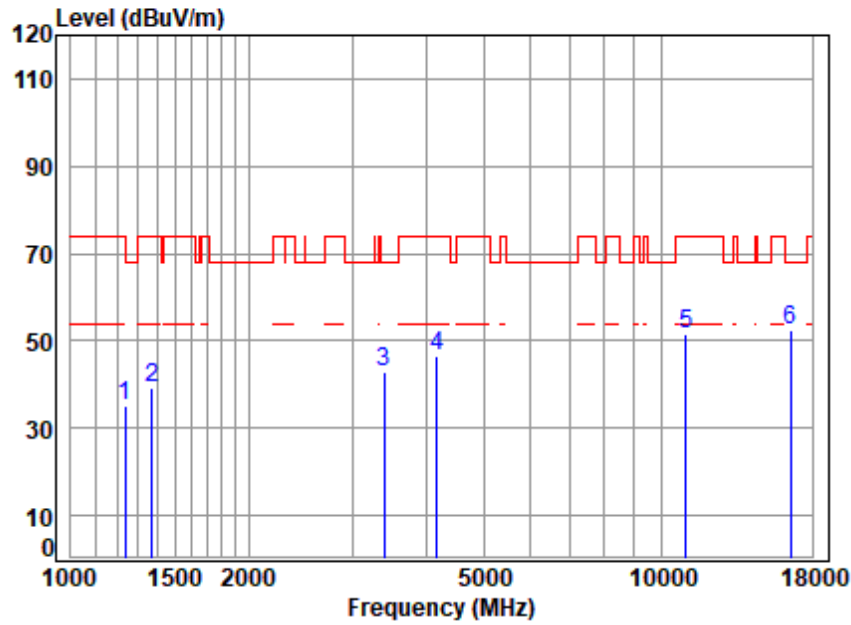


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5510 TX RSE  
Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1263.796	2.88	24.87	39.80	46.60	34.55	68.20	-33.65	peak
2	1374.295	3.07	25.33	39.88	53.68	42.20	74.00	-31.80	peak
3	3495.691	5.51	31.69	41.07	48.35	44.48	68.20	-23.72	peak
4	4329.354	6.60	33.30	41.72	48.81	46.99	74.00	-27.01	peak
5	11020.000	11.00	37.80	37.63	40.09	51.26	74.00	-22.74	peak
6	16530.000	14.78	42.22	40.46	35.84	52.38	68.20	-15.82	peak



Test Mode: 05; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 40MHz; Channel: Low

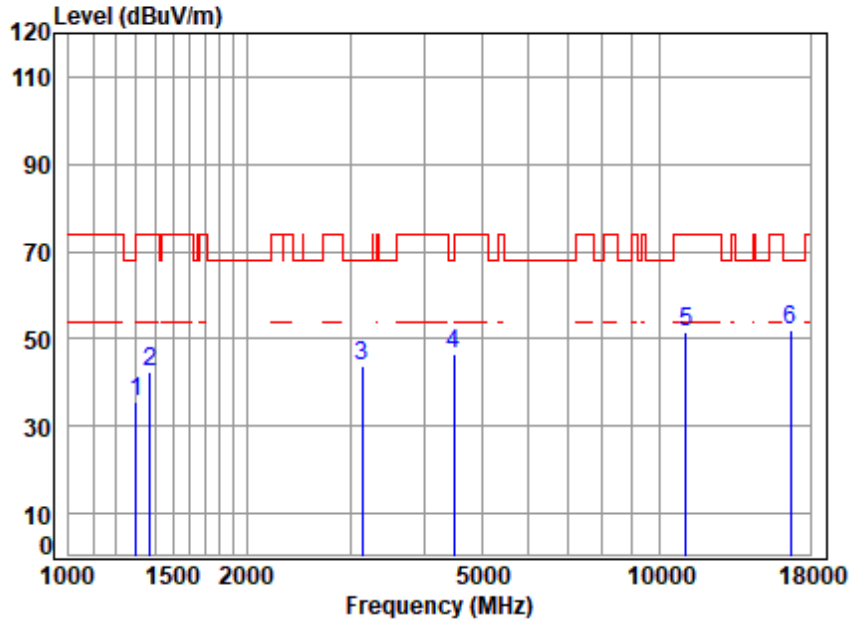


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5510 TX RSE  
Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1238.483	2.83	24.76	39.79	47.45	35.25	74.00	-38.75	peak
2	1374.295	3.07	25.33	39.88	50.69	39.21	74.00	-34.79	peak
3	3396.098	5.39	31.54	41.00	46.94	42.87	68.20	-25.33	peak
4	4169.698	6.45	33.02	41.57	48.58	46.48	74.00	-27.52	peak
5	11020.000	11.00	37.80	37.63	40.38	51.55	74.00	-22.45	peak
6	16530.000	14.78	42.22	40.46	35.86	52.40	68.20	-15.80	peak



Test Mode: 05; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 40MHz; Channel: middle

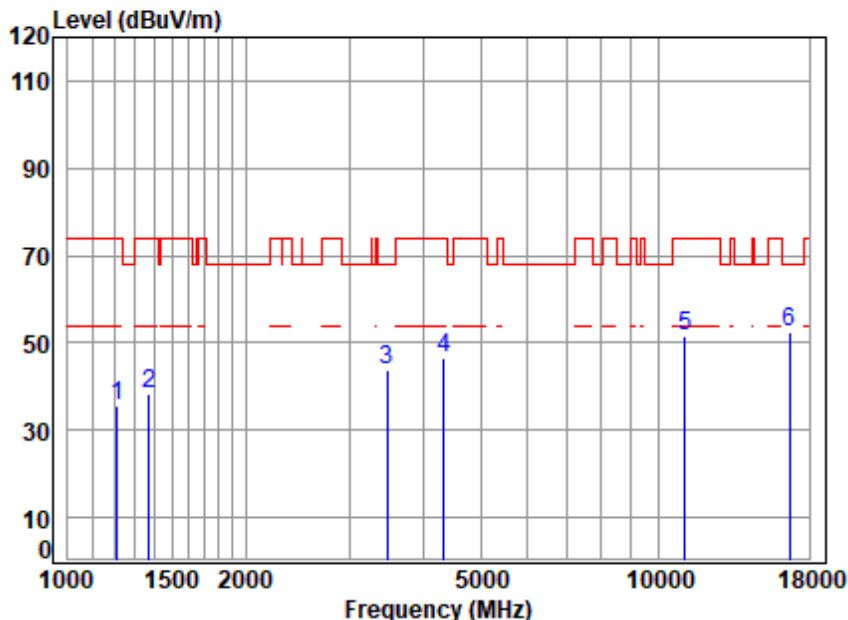


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5550 TX RSE  
Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	2.94	25.03	39.83	47.24	35.38	74.00	-38.62	peak
2	1374.295	3.07	25.33	39.88	53.77	42.29	74.00	-31.71	peak
3	3141.145	5.06	31.14	40.81	48.27	43.66	68.20	-24.54	peak
4	4482.150	6.74	33.57	41.86	48.03	46.48	68.20	-21.72	peak
5	11100.000	11.10	37.82	37.67	40.51	51.76	74.00	-22.24	peak
6	16650.000	14.62	42.32	40.43	35.61	52.12	68.20	-16.08	peak



Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle

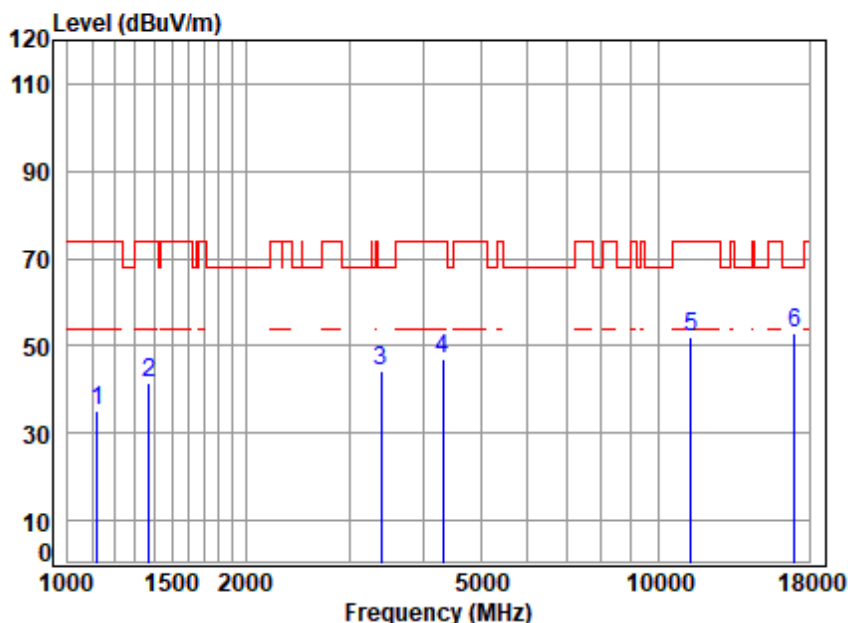


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5550 TX RSE  
Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1210.174	2.78	24.64	39.77	47.72	35.37	74.00	-38.63	peak
2	1374.295	3.07	25.33	39.88	49.86	38.38	74.00	-35.62	peak
3	3475.541	5.49	31.66	41.06	47.93	44.02	68.20	-24.18	peak
4	4329.354	6.60	33.30	41.72	48.43	46.61	74.00	-27.39	peak
5	11100.000	11.10	37.82	37.67	40.16	51.41	74.00	-22.59	peak
6	16650.000	14.62	42.32	40.43	36.11	52.62	68.20	-15.58	peak



Test Mode: 05; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 40MHz; Channel: High

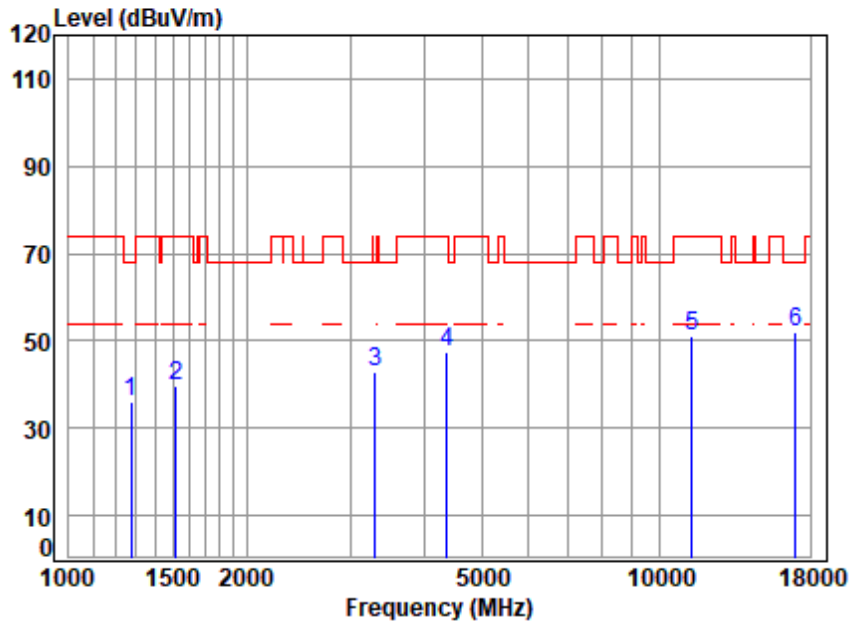


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5670 TX RSE  
Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1122.563	2.62	24.23	39.70	48.06	35.21	74.00	-38.79	peak
2	1374.295	3.07	25.33	39.88	52.97	41.49	74.00	-32.51	peak
3	3396.098	5.39	31.54	41.00	48.12	44.05	68.20	-24.15	peak
4	4316.859	6.59	33.28	41.71	49.06	47.22	74.00	-26.78	peak
5	11340.000	11.42	37.87	37.79	40.51	52.01	74.00	-21.99	peak
6	17010.000	14.17	42.61	40.34	36.59	53.03	68.20	-15.17	peak



Test Mode: 05; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 40MHz; Channel: High

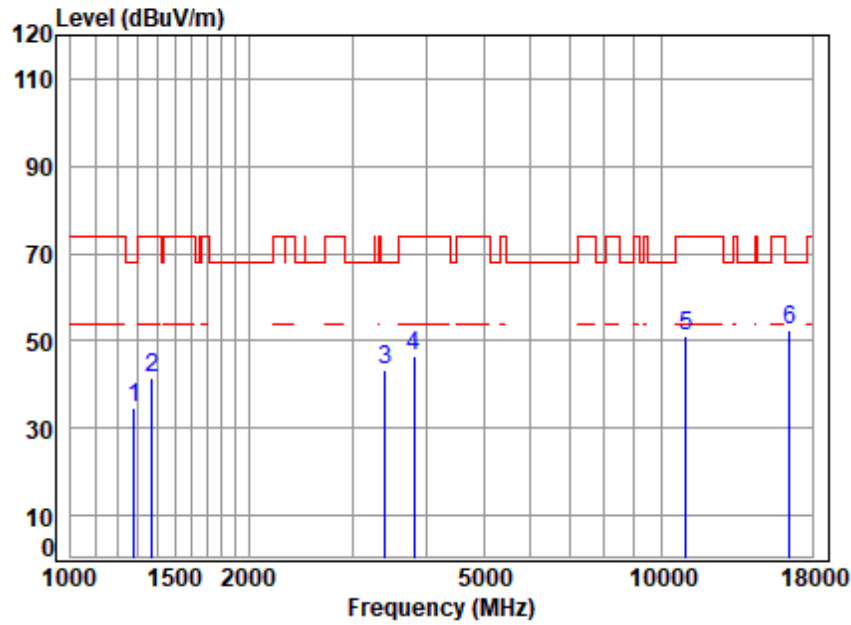


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5670 TX RSE  
Note : 5G WIFI 11N40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1274.802	2.90	24.92	39.81	47.83	35.84	68.20 -32.36 peak
2	1520.598	3.28	25.89	39.96	50.45	39.66	74.00 -34.34 peak
3	3299.344	5.27	31.39	40.93	47.05	42.78	68.20 -25.42 peak
4	4367.058	6.64	33.37	41.75	49.16	47.42	74.00 -26.58 peak
5	11340.000	11.42	37.87	37.79	39.39	50.89	74.00 -23.11 peak
6	17010.000	14.17	42.61	40.34	35.52	51.96	68.20 -16.24 peak



Test Mode: 05; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low

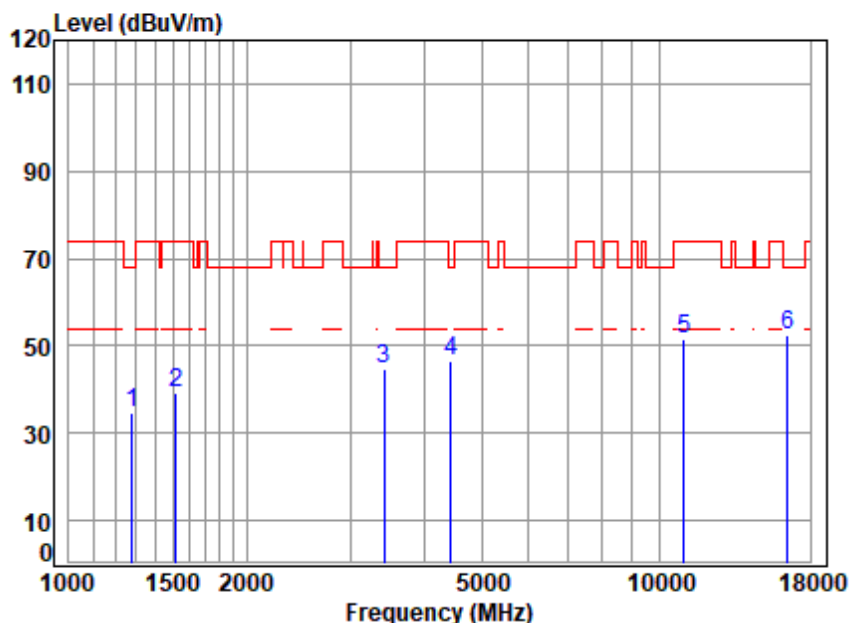


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5500 TX RSE  
Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1278.492	2.91	24.93	39.81	46.57	34.60	68.20	-33.60	peak
2	1374.295	3.07	25.33	39.88	53.06	41.58	74.00	-32.42	peak
3	3405.929	5.40	31.56	41.01	47.38	43.33	68.20	-24.87	peak
4	3812.336	6.01	32.34	41.28	49.28	46.35	74.00	-27.65	peak
5	11000.000	10.97	37.80	37.62	39.80	50.95	74.00	-23.05	peak
6	16500.000	14.82	42.20	40.47	35.85	52.40	68.20	-15.80	peak



Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5500 TX RSE  
Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1282.193	2.91	24.95	39.82	46.62	34.66	68.20	-33.54	peak
2	1520.598	3.28	25.89	39.96	49.93	39.14	74.00	-34.86	peak
3	3415.787	5.42	31.57	41.02	48.58	44.55	68.20	-23.65	peak
4	4430.628	6.70	33.48	41.81	48.36	46.73	68.20	-21.47	peak
5	11000.000	10.97	37.80	37.62	40.20	51.35	74.00	-22.65	peak
6	16500.000	14.82	42.20	40.47	36.12	52.67	68.20	-15.53	peak



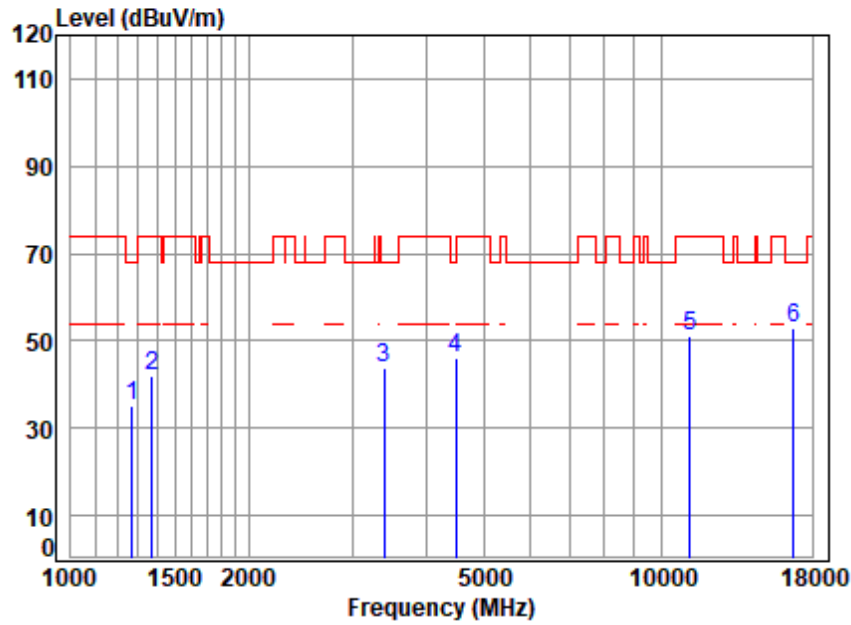
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

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

Test Mode: 05; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: middle

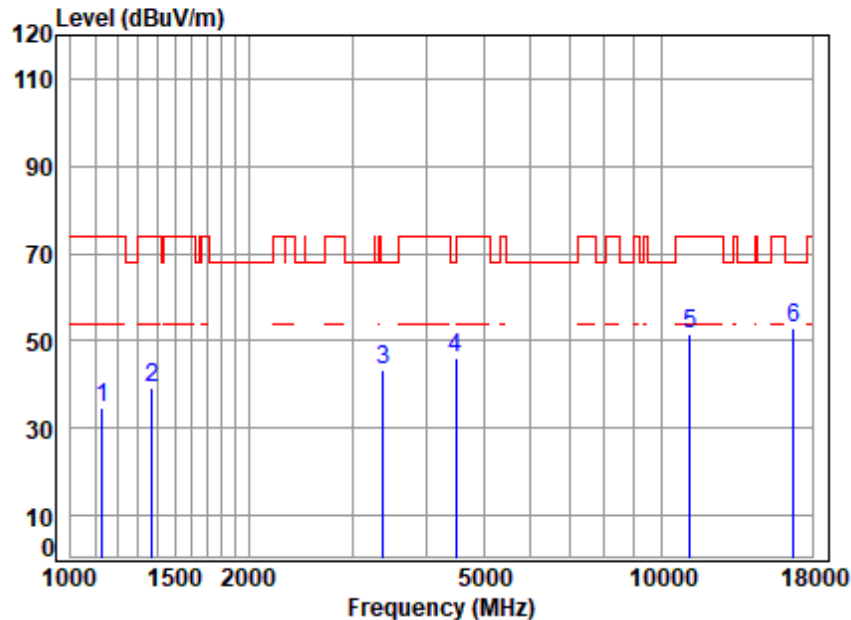


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5580 TX RSE  
Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1271.123	2.89	24.90	39.81	47.03	35.01	68.20	-33.19	peak
2	1374.295	3.07	25.33	39.88	53.61	42.13	74.00	-31.87	peak
3	3396.098	5.39	31.54	41.00	47.91	43.84	68.20	-24.36	peak
4	4495.125	6.76	33.59	41.87	47.75	46.23	68.20	-21.97	peak
5	11160.000	11.18	37.83	37.70	39.65	50.96	74.00	-23.04	peak
6	16740.000	14.51	42.39	40.41	36.37	52.86	68.20	-15.34	peak



Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



```
Site      : chamber
Condition: 3m VERTICAL
Job No    : 20011AT/20012AT
Mode      : 5580 TX RSE
Note      : 5G WIFI 11AC20
```

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1129.072	2.63	24.26	39.71	47.43	34.61	74.00	-39.39	peak
1374.295	3.07	25.33	39.88	50.53	39.05	74.00	-34.95	peak
3386.297	5.38	31.53	40.99	47.49	43.41	68.20	-24.79	peak
4482.150	6.74	33.57	41.86	47.71	46.16	68.20	-22.04	peak
11160.000	11.18	37.83	37.70	40.32	51.63	74.00	-22.37	peak
16740.000	14.51	42.39	40.41	36.46	52.95	68.20	-15.25	peak



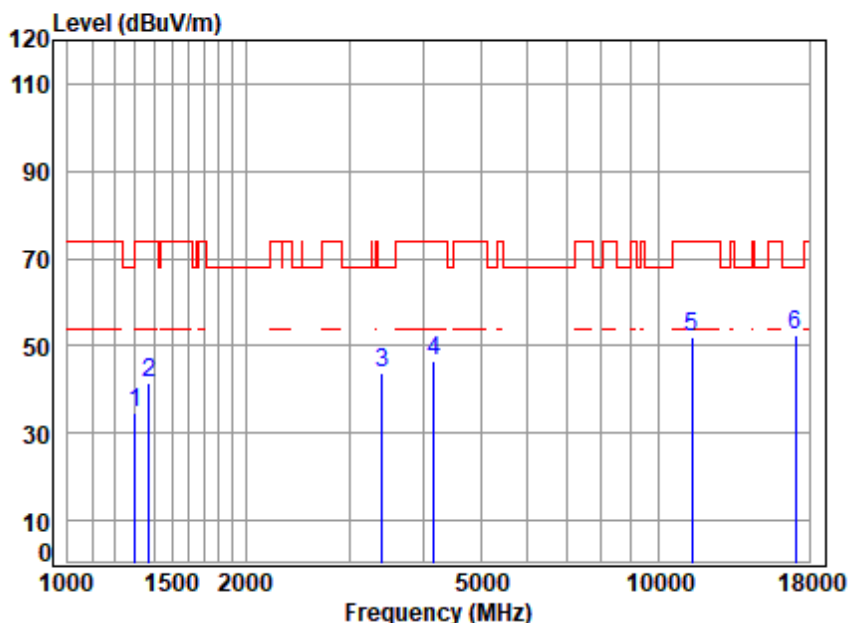
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed hereon, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and for electronic documents subject to Terms and Conditions for Electronic Documents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

SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Testing Center EEC Laboratory.

中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sqs.china@sqs.com

Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5700 TX RSE  
Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	2.94	25.03	39.83	46.45	34.59	74.00	-39.41	peak
2	1374.295	3.07	25.33	39.88	52.95	41.47	74.00	-32.53	peak
3	3405.929	5.40	31.56	41.01	47.63	43.58	68.20	-24.62	peak
4	4169.698	6.45	33.02	41.57	48.56	46.46	74.00	-27.54	peak
5	11400.000	11.50	37.88	37.82	40.41	51.97	74.00	-22.03	peak
6	17100.000	14.14	42.66	40.32	35.94	52.42	68.20	-15.78	peak



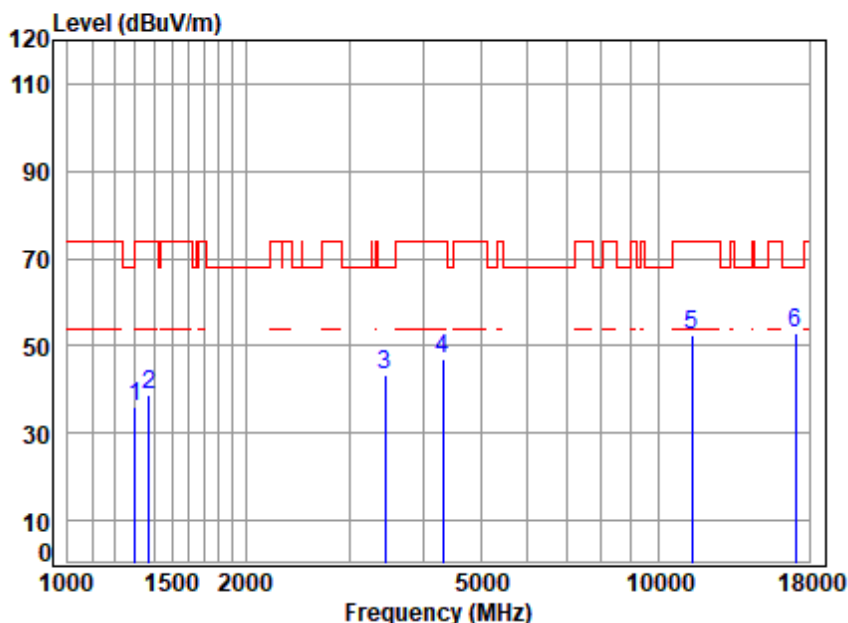
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

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

Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

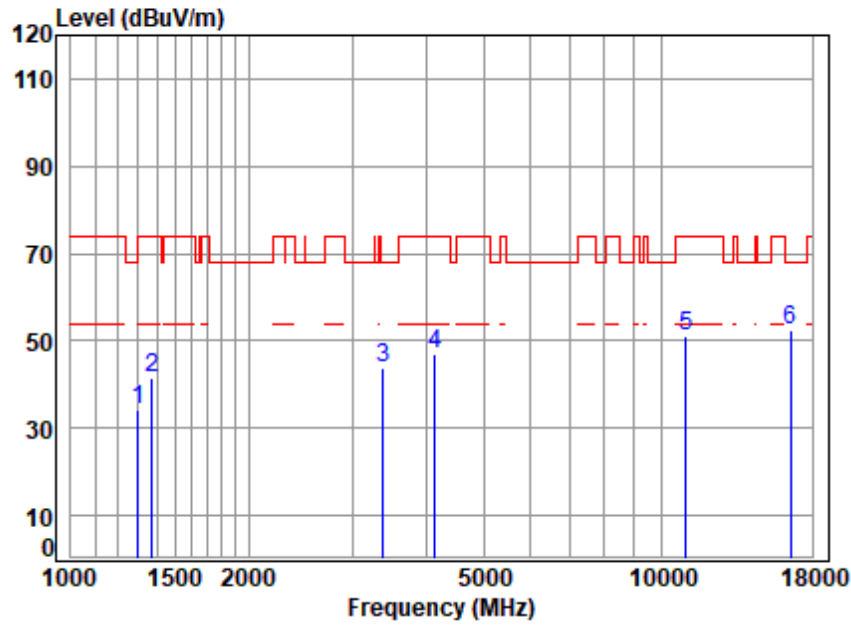


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5700 TX RSE  
Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	2.94	25.03	39.83	47.68	35.82	74.00	-38.18	peak
2	1374.295	3.07	25.33	39.88	50.08	38.60	74.00	-35.40	peak
3	3445.535	5.45	31.62	41.04	47.49	43.52	68.20	-24.68	peak
4	4316.859	6.59	33.28	41.71	48.81	46.97	74.00	-27.03	peak
5	11400.000	11.50	37.88	37.82	40.93	52.49	74.00	-21.51	peak
6	17100.000	14.14	42.66	40.32	36.44	52.92	68.20	-15.28	peak



Test Mode: 05; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low

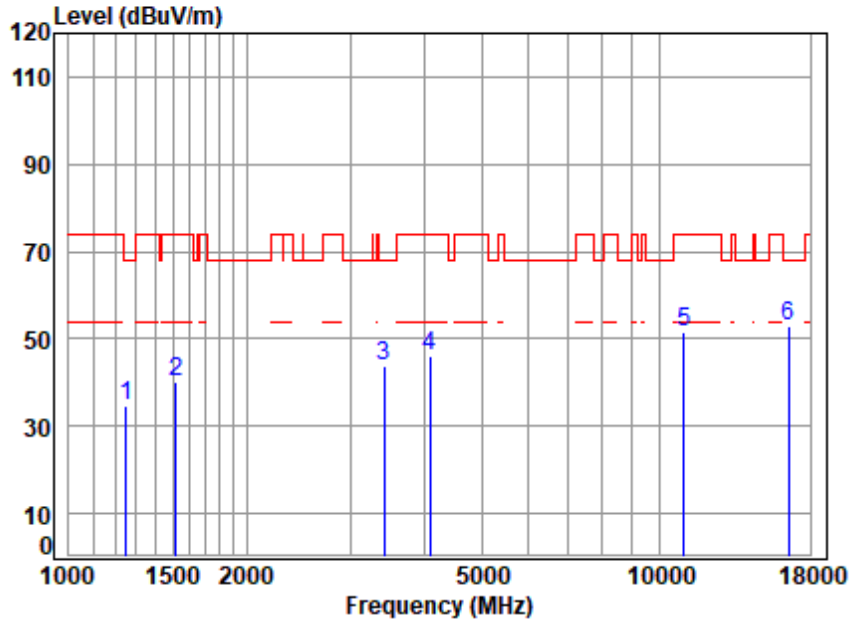


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5510 TX RSE  
Note : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	2.94	25.03	39.83	46.15	34.29	74.00	-39.71	peak
2	1374.295	3.07	25.33	39.88	53.16	41.68	74.00	-32.32	peak
3	3376.523	5.37	31.51	40.99	47.89	43.78	68.20	-24.42	peak
4	4133.699	6.41	32.95	41.53	48.96	46.79	74.00	-27.21	peak
5	11020.000	11.00	37.80	37.63	39.85	51.02	74.00	-22.98	peak
6	16530.000	14.78	42.22	40.46	36.03	52.57	68.20	-15.63	peak



Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

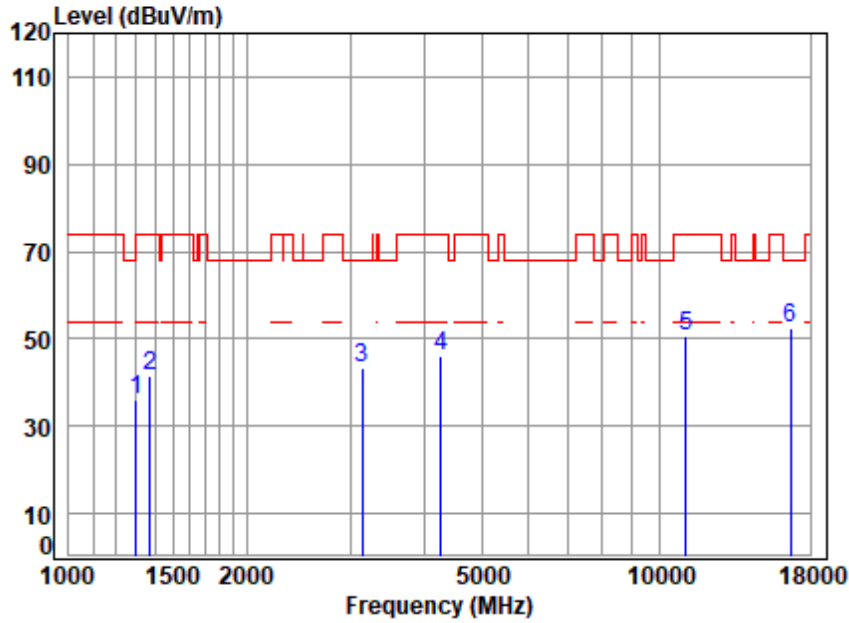


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5510 TX RSE  
Note : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	2.85	24.81	39.79	46.72	34.59	68.20	-33.61	peak
2	1520.598	3.28	25.89	39.96	50.76	39.97	74.00	-34.03	peak
3	3415.787	5.42	31.57	41.02	48.03	44.00	68.20	-24.20	peak
4	4086.182	6.37	32.86	41.49	48.49	46.23	74.00	-27.77	peak
5	11020.000	11.00	37.80	37.63	40.46	51.63	74.00	-22.37	peak
6	16530.000	14.78	42.22	40.46	36.18	52.72	68.20	-15.48	peak



Test Mode: 05; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: middle

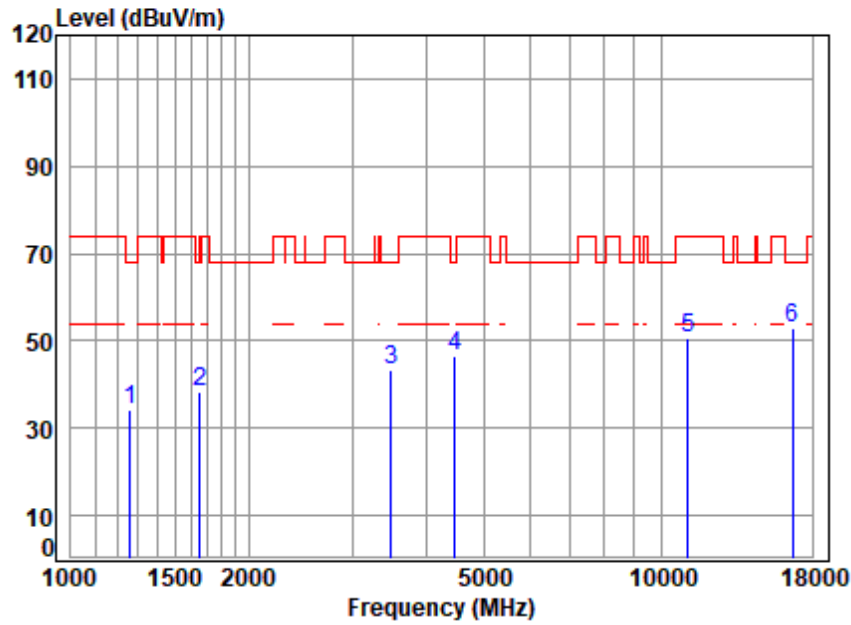


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5550 TX RSE  
Note : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	2.94	25.03	39.83	47.75	35.89	74.00	-38.11	peak
2	1374.295	3.07	25.33	39.88	53.12	41.64	74.00	-32.36	peak
3	3141.145	5.06	31.14	40.81	47.85	43.24	68.20	-24.96	peak
4	4267.237	6.54	33.19	41.66	48.15	46.22	74.00	-27.78	peak
5	11100.000	11.10	37.82	37.67	39.62	50.87	74.00	-23.13	peak
6	16650.000	14.62	42.32	40.43	35.85	52.36	68.20	-15.84	peak



Test Mode: 05; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: middle

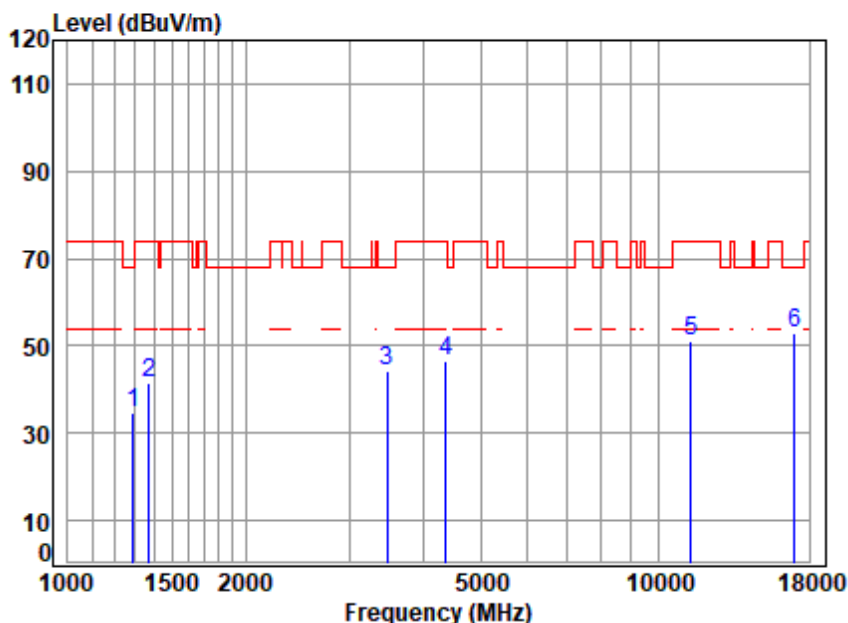


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5550 TX RSE  
Note : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	2.87	24.85	39.80	46.49	34.41	68.20	-33.79	peak
2	1653.550	3.39	26.48	40.04	48.43	38.26	68.20	-29.94	peak
3	3485.601	5.50	31.68	41.07	47.38	43.49	68.20	-24.71	peak
4	4469.214	6.73	33.55	41.85	48.03	46.46	68.20	-21.74	peak
5	11100.000	11.10	37.82	37.67	39.59	50.84	74.00	-23.16	peak
6	16650.000	14.62	42.32	40.43	36.44	52.95	68.20	-15.25	peak



Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

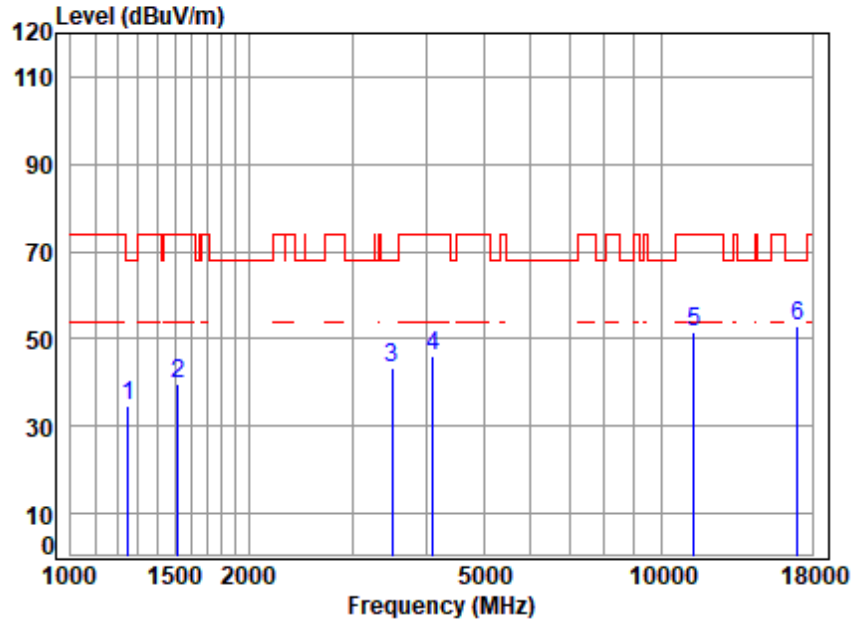


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5670 TX RSE  
Note : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1289.627	2.92	24.98	39.82	46.72	34.80	68.20	-33.40	peak
2	1374.295	3.07	25.33	39.88	52.87	41.39	74.00	-32.61	peak
3	3475.541	5.49	31.66	41.06	47.95	44.04	68.20	-24.16	peak
4	4367.058	6.64	33.37	41.75	48.38	46.64	74.00	-27.36	peak
5	11340.000	11.42	37.87	37.79	39.79	51.29	74.00	-22.71	peak
6	17010.000	14.17	42.61	40.34	36.63	53.07	68.20	-15.13	peak



Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

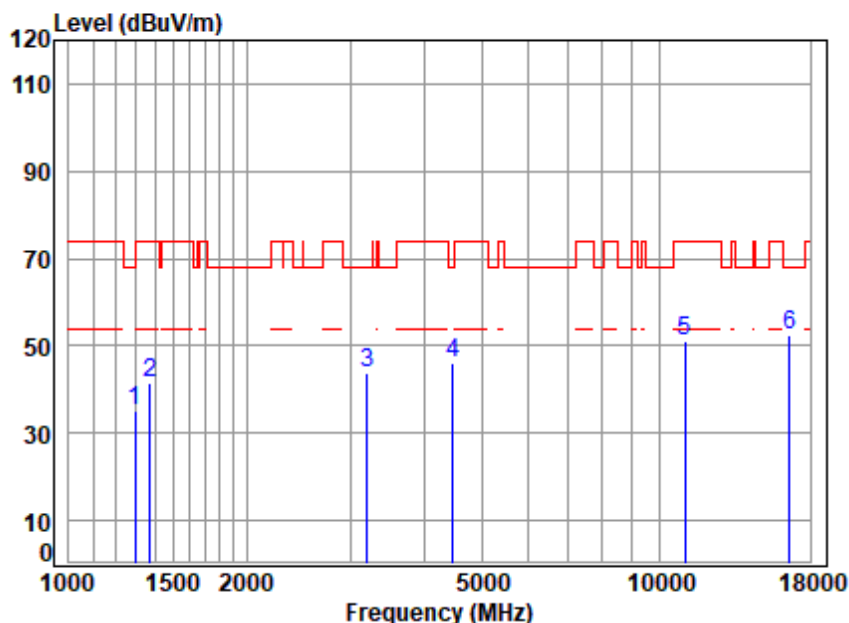


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5670 TX RSE  
Note : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	2.85	24.81	39.79	47.02	34.89	68.20	-33.31	peak
2	1520.598	3.28	25.89	39.96	50.30	39.51	74.00	-34.49	peak
3	3495.691	5.51	31.69	41.07	47.08	43.21	68.20	-24.99	peak
4	4109.872	6.39	32.91	41.51	48.33	46.12	74.00	-27.88	peak
5	11340.000	11.42	37.87	37.79	39.88	51.38	74.00	-22.62	peak
6	17010.000	14.17	42.61	40.34	36.33	52.77	68.20	-15.43	peak



Test Mode: 05; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: Low

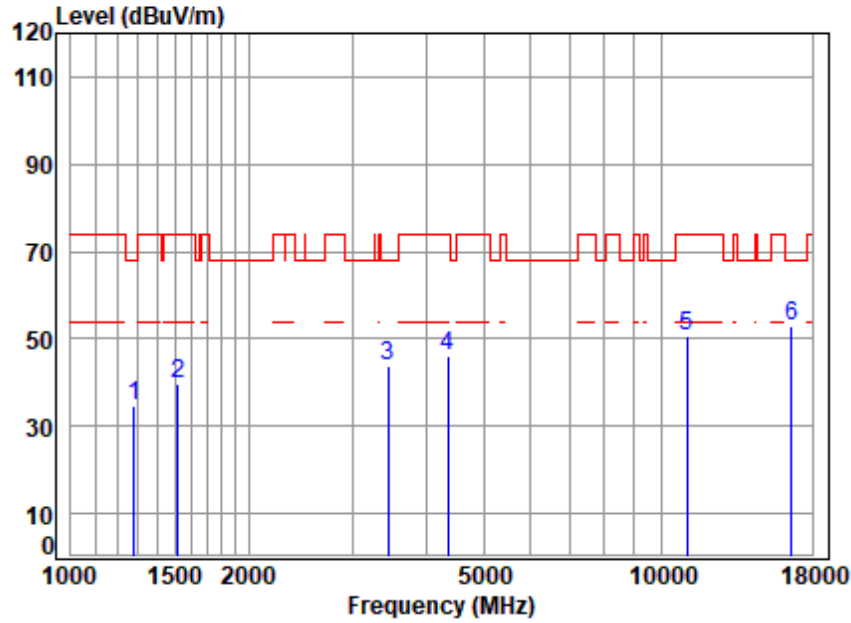


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5530 TX RSE  
Note : 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1293.359	2.93	25.00	39.82	47.06	35.17	68.20	-33.03	peak
2	1374.295	3.07	25.33	39.88	53.00	41.52	74.00	-32.48	peak
3	3196.094	5.13	31.23	40.85	48.44	43.95	68.20	-24.25	peak
4	4469.214	6.73	33.55	41.85	47.79	46.22	68.20	-21.98	peak
5	11060.000	11.05	37.81	37.65	40.00	51.21	74.00	-22.79	peak
6	16590.000	14.70	42.27	40.45	36.05	52.57	68.20	-15.63	peak



Test Mode: 05; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: Low

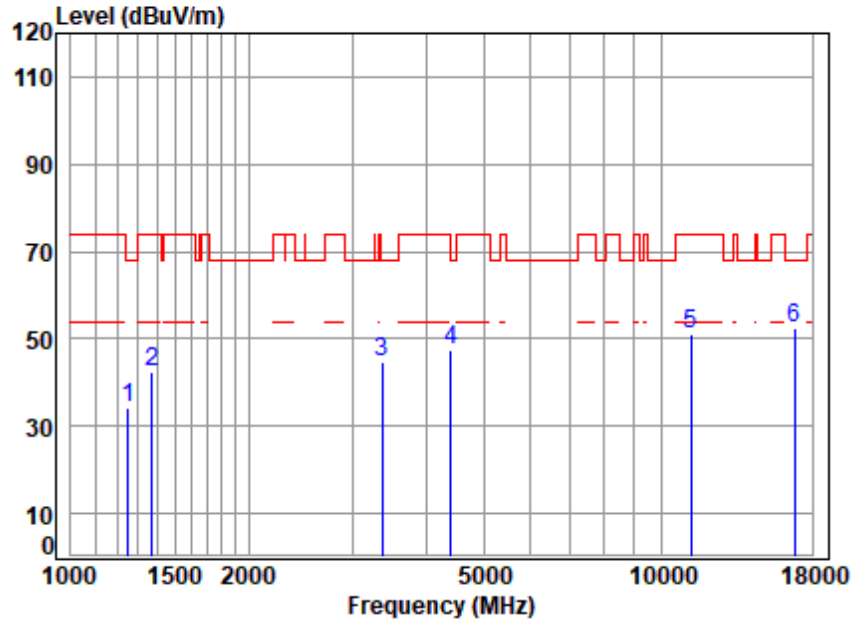


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5530 TX RSE  
Note : 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1278.492	2.91	24.93	39.81	46.56	34.59	68.20	-33.61	peak
2	1520.598	3.28	25.89	39.96	50.36	39.57	74.00	-34.43	peak
3	3445.535	5.45	31.62	41.04	47.67	43.70	68.20	-24.50	peak
4	4354.454	6.63	33.35	41.74	47.68	45.92	74.00	-28.08	peak
5	11060.000	11.05	37.81	37.65	39.62	50.83	74.00	-23.17	peak
6	16590.000	14.70	42.27	40.45	36.50	53.02	68.20	-15.18	peak



Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High

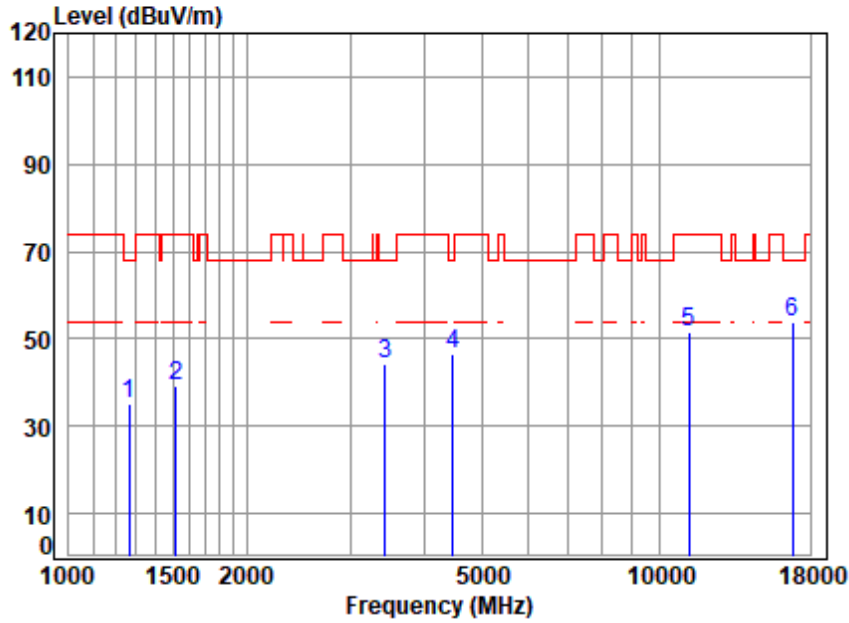


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5610 TX RSE  
Note : 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	2.85	24.81	39.79	46.55	34.42	68.20	-33.78	peak
2	1374.295	3.07	25.33	39.88	53.81	42.33	74.00	-31.67	peak
3	3366.778	5.35	31.50	40.98	48.64	44.51	68.20	-23.69	peak
4	4405.090	6.67	33.44	41.79	48.91	47.23	68.20	-20.97	peak
5	11220.000	11.26	37.84	37.73	39.67	51.04	74.00	-22.96	peak
6	16830.000	14.39	42.47	40.39	36.06	52.53	68.20	-15.67	peak



Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High

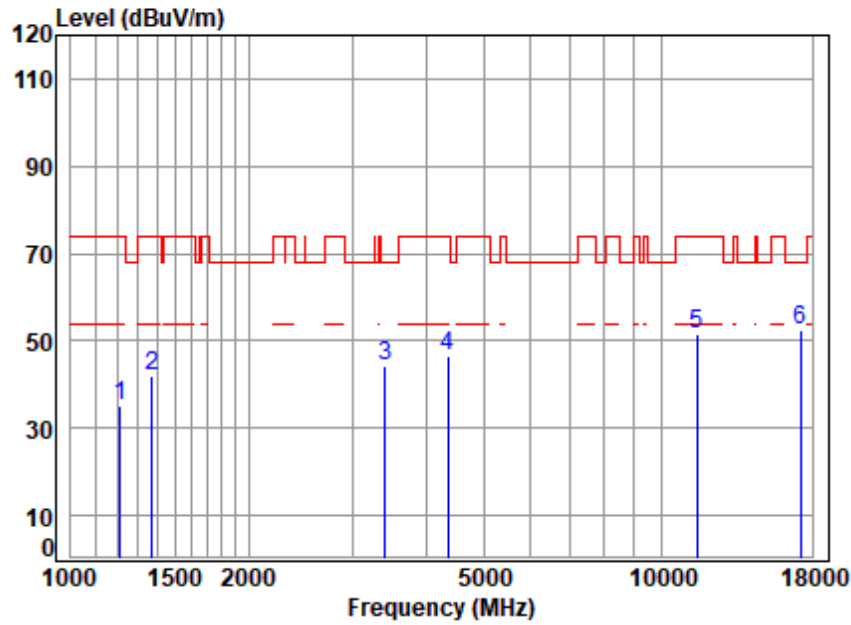


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5610 TX RSE  
Note : 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1267.454	2.89	24.89	39.81	47.01	34.98	68.20	-33.22	peak
2	1520.598	3.28	25.89	39.96	49.96	39.17	74.00	-34.83	peak
3	3435.590	5.44	31.60	41.03	48.08	44.09	68.20	-24.11	peak
4	4469.214	6.73	33.55	41.85	48.25	46.68	68.20	-21.52	peak
5	11220.000	11.26	37.84	37.73	40.04	51.41	74.00	-22.59	peak
6	16830.000	14.39	42.47	40.39	37.21	53.68	68.20	-14.52	peak



Test Mode: 06; Polarity: Horizontal; Modulation: 802.11a; Bandwidth: 20MHz; Channel: Low

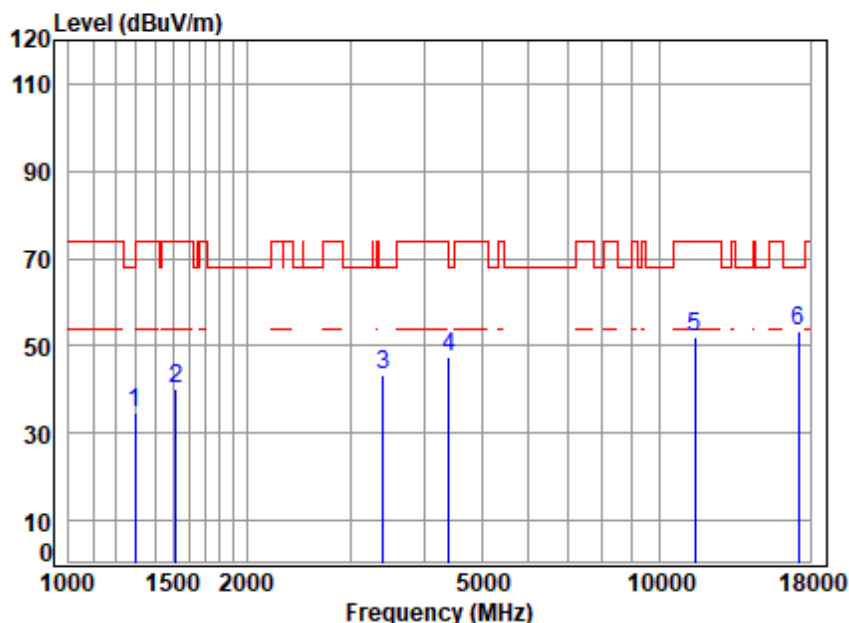


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5745 TX RSE  
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1213.677	2.79	24.65	39.77	47.66	35.33	74.00	-38.67	peak
2	1374.295	3.07	25.33	39.88	53.54	42.06	74.00	-31.94	peak
3	3405.929	5.40	31.56	41.01	48.50	44.45	68.20	-23.75	peak
4	4354.454	6.63	33.35	41.74	48.44	46.68	74.00	-27.32	peak
5	11490.000	11.62	37.90	37.86	39.73	51.39	74.00	-22.61	peak
6	17235.000	14.09	42.74	40.28	36.05	52.60	68.20	-15.60	peak



Test Mode: 06; Polarity: Vertical; Modulation: 802.11a; Bandwidth: 20MHz; Channel: Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5745 TX RSE  
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1297.103	2.94	25.01	39.83	46.57	34.69	68.20	-33.51	peak
2	1520.598	3.28	25.89	39.96	50.73	39.94	74.00	-34.06	peak
3	3405.929	5.40	31.56	41.01	47.24	43.19	68.20	-25.01	peak
4	4405.090	6.67	33.44	41.79	49.08	47.40	68.20	-20.80	peak
5	11490.000	11.62	37.90	37.86	40.28	51.94	74.00	-22.06	peak
6	17235.000	14.09	42.74	40.28	36.62	53.17	68.20	-15.03	peak



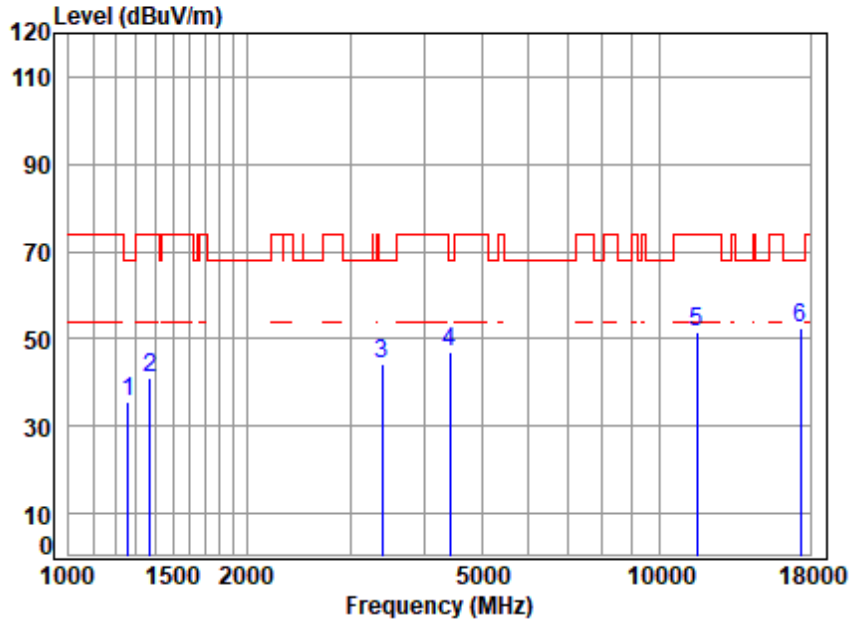
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

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

Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle

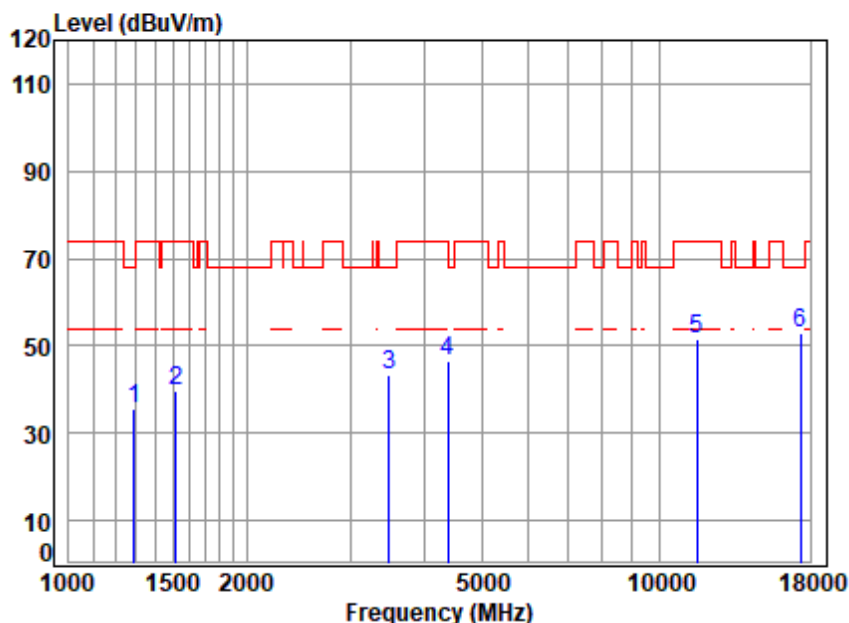


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5785 TX RSE  
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	2.87	24.85	39.80	47.63	35.55	68.20	-32.65	peak
2	1374.295	3.07	25.33	39.88	52.71	41.23	74.00	-32.77	peak
3	3396.098	5.39	31.54	41.00	48.41	44.34	68.20	-23.86	peak
4	4417.841	6.68	33.46	41.80	48.62	46.96	68.20	-21.24	peak
5	11570.000	11.72	37.87	37.90	39.67	51.36	74.00	-22.64	peak
6	17355.000	14.06	42.81	40.25	35.66	52.28	68.20	-15.92	peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5785 TX RSE  
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1289.627	2.92	24.98	39.82	47.70	35.78	68.20	-32.42	peak
2	1520.598	3.28	25.89	39.96	50.29	39.50	74.00	-34.50	peak
3	3485.601	5.50	31.68	41.07	47.04	43.15	68.20	-25.05	peak
4	4392.376	6.66	33.42	41.78	48.08	46.38	74.00	-27.62	peak
5	11570.000	11.72	37.87	37.90	39.82	51.51	74.00	-22.49	peak
6	17355.000	14.06	42.81	40.25	36.35	52.97	68.20	-15.23	peak



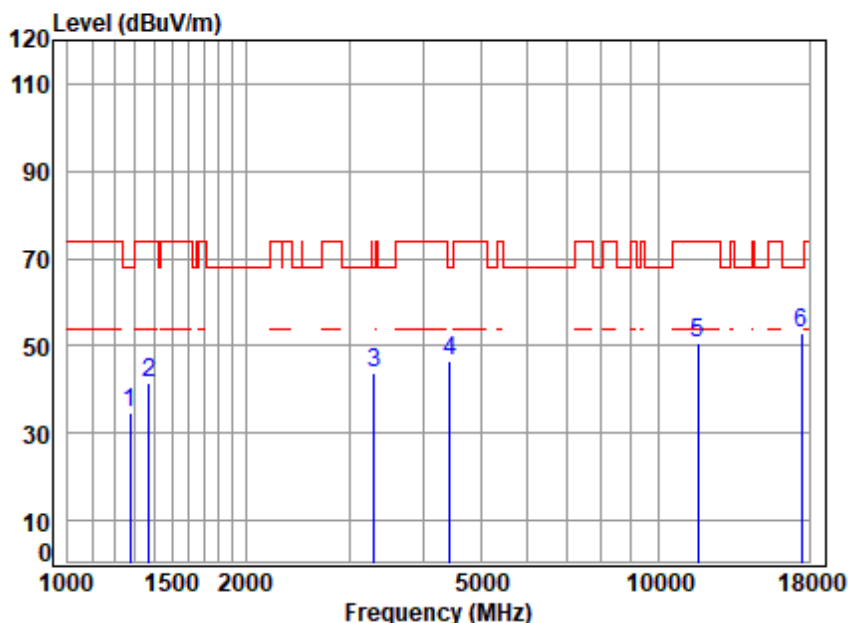
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

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

Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High

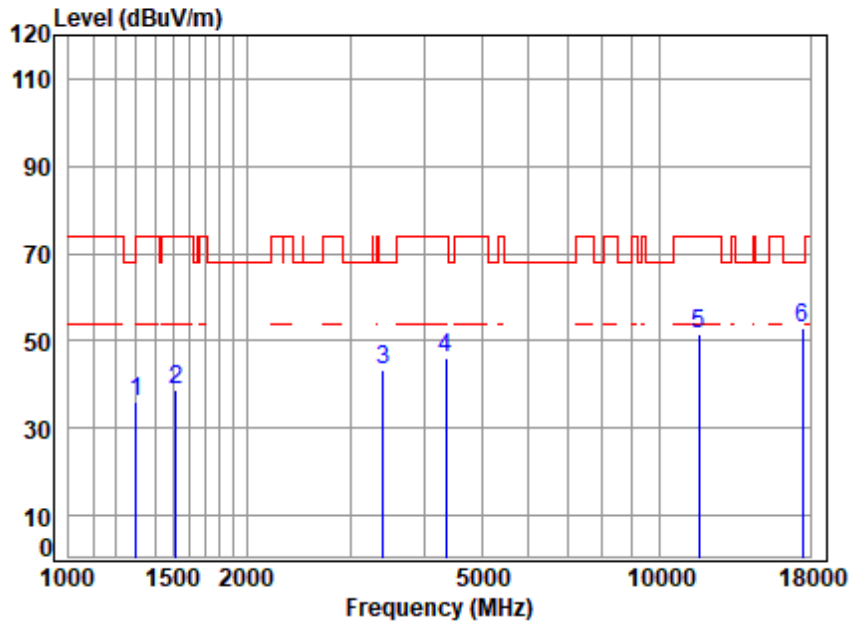


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5825 TX RSE  
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1274.802	2.90	24.92	39.81	46.78	34.79	68.20	-33.41	peak
2	1374.295	3.07	25.33	39.88	53.07	41.59	74.00	-32.41	peak
3	3308.894	5.28	31.41	40.94	48.19	43.94	68.20	-24.26	peak
4	4443.453	6.71	33.50	41.82	48.05	46.44	68.20	-21.76	peak
5	11650.000	11.82	37.84	37.94	39.14	50.86	74.00	-23.14	peak
6	17475.000	14.02	42.89	40.23	36.25	52.93	68.20	-15.27	peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

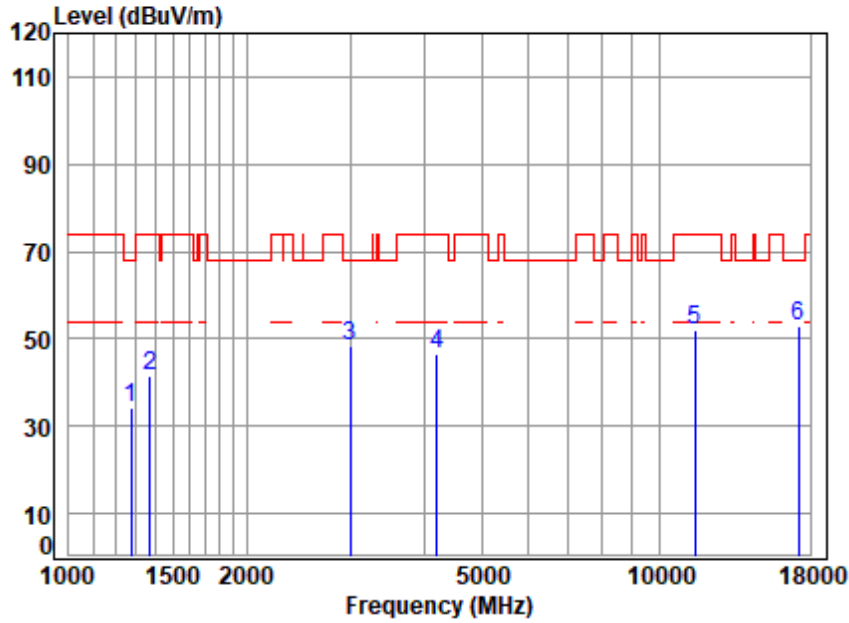


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5825 TX RSE  
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	2.94	25.03	39.83	47.73	35.87	74.00	-38.13	peak
2	1520.598	3.28	25.89	39.96	49.36	38.57	74.00	-35.43	peak
3	3405.929	5.40	31.56	41.01	47.30	43.25	68.20	-24.95	peak
4	4354.454	6.63	33.35	41.74	47.90	46.14	74.00	-27.86	peak
5	11650.000	11.82	37.84	37.94	40.05	51.77	74.00	-22.23	peak
6	17475.000	14.02	42.89	40.23	36.44	53.12	68.20	-15.08	peak



Test Mode: 06; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: Low

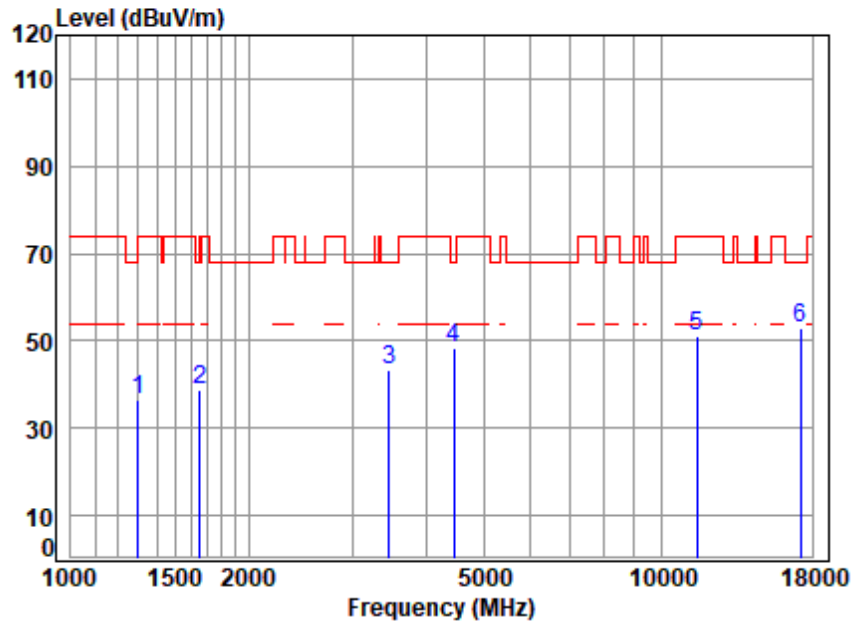


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5745 TX RSE  
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1274.802	2.90	24.92	39.81	46.10	34.11	68.20	-34.09	peak
2	1374.295	3.07	25.33	39.88	52.86	41.38	74.00	-32.62	peak
3	2999.187	4.86	30.90	40.70	53.25	48.31	68.20	-19.89	peak
4	4206.011	6.48	33.08	41.60	48.55	46.51	74.00	-27.49	peak
5	11490.000	11.62	37.90	37.86	40.27	51.93	74.00	-22.07	peak
6	17235.000	14.09	42.74	40.28	36.17	52.72	68.20	-15.48	peak



Test Mode: 06; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: Low

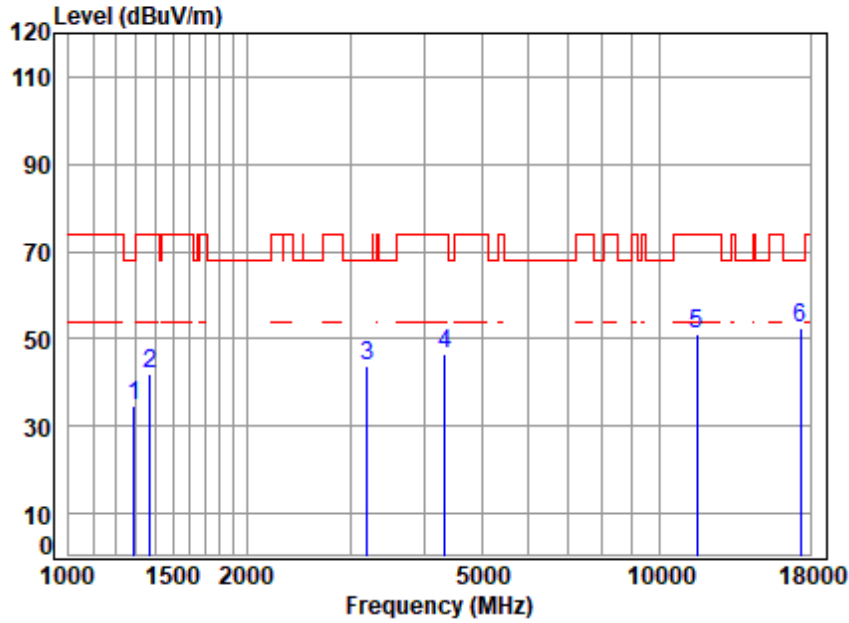


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5745 TX RSE  
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	2.94	25.03	39.83	48.43	36.57	74.00	-37.43	peak
2	1653.550	3.39	26.48	40.04	48.95	38.78	68.20	-29.42	peak
3	3455.508	5.47	31.63	41.04	47.25	43.31	68.20	-24.89	peak
4	4456.315	6.72	33.53	41.84	49.99	48.40	68.20	-19.80	peak
5	11490.000	11.62	37.90	37.86	39.37	51.03	74.00	-22.97	peak
6	17235.000	14.09	42.74	40.28	36.44	52.99	68.20	-15.21	peak



Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle

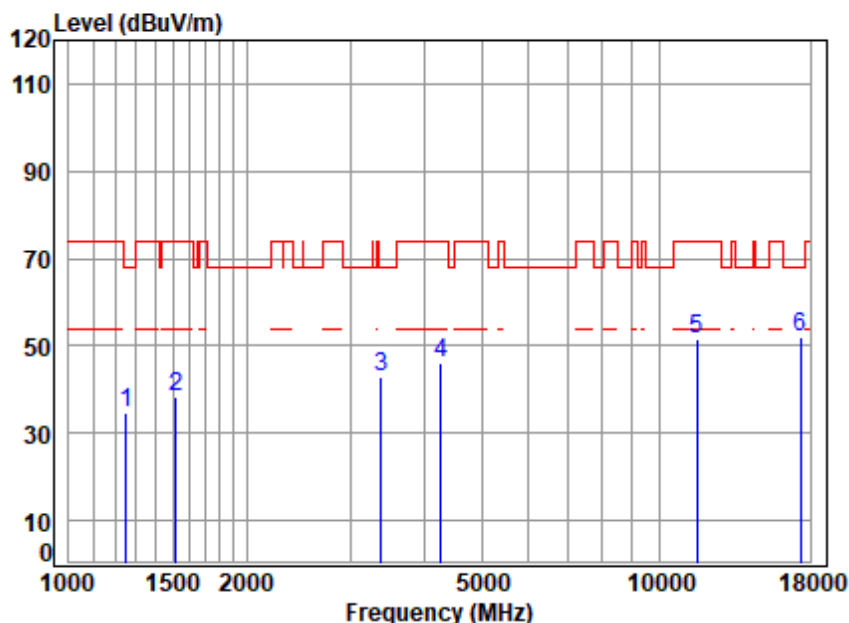


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5785 TX RSE  
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1289.627	2.92	24.98	39.82	46.56	34.64	68.20	-33.56	peak
2	1374.295	3.07	25.33	39.88	53.26	41.78	74.00	-32.22	peak
3	3196.094	5.13	31.23	40.85	48.13	43.64	68.20	-24.56	peak
4	4329.354	6.60	33.30	41.72	48.42	46.60	74.00	-27.40	peak
5	11570.000	11.72	37.87	37.90	39.27	50.96	74.00	-23.04	peak
6	17355.000	14.06	42.81	40.25	36.07	52.69	68.20	-15.51	peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle

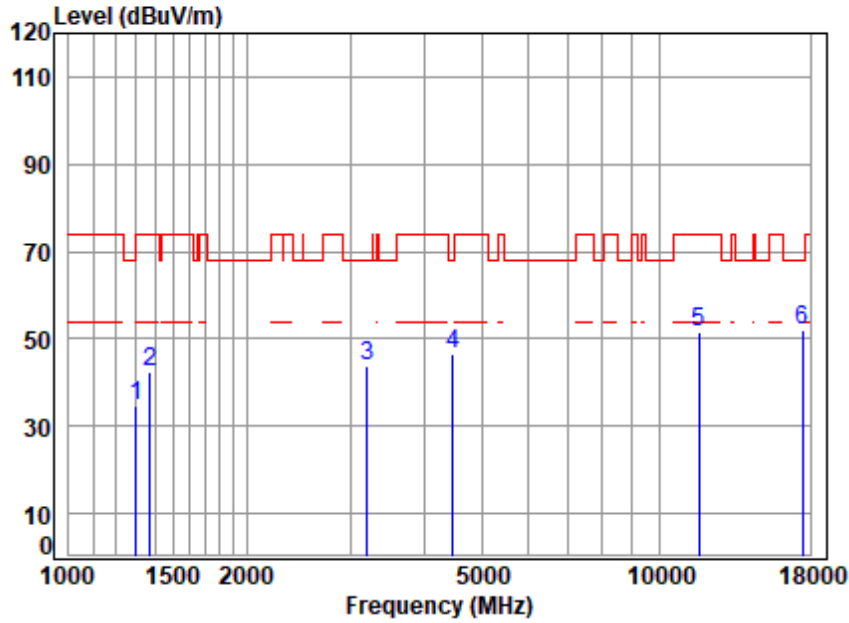


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5785 TX RSE  
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	2.85	24.81	39.79	46.67	34.54	68.20	-33.66	peak
2	1520.598	3.28	25.89	39.96	48.90	38.11	74.00	-35.89	peak
3	3376.523	5.37	31.51	40.99	47.15	43.04	68.20	-25.16	peak
4	4267.237	6.54	33.19	41.66	47.98	46.05	74.00	-27.95	peak
5	11570.000	11.72	37.87	37.90	39.96	51.65	74.00	-22.35	peak
6	17355.000	14.06	42.81	40.25	35.52	52.14	68.20	-16.06	peak



Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

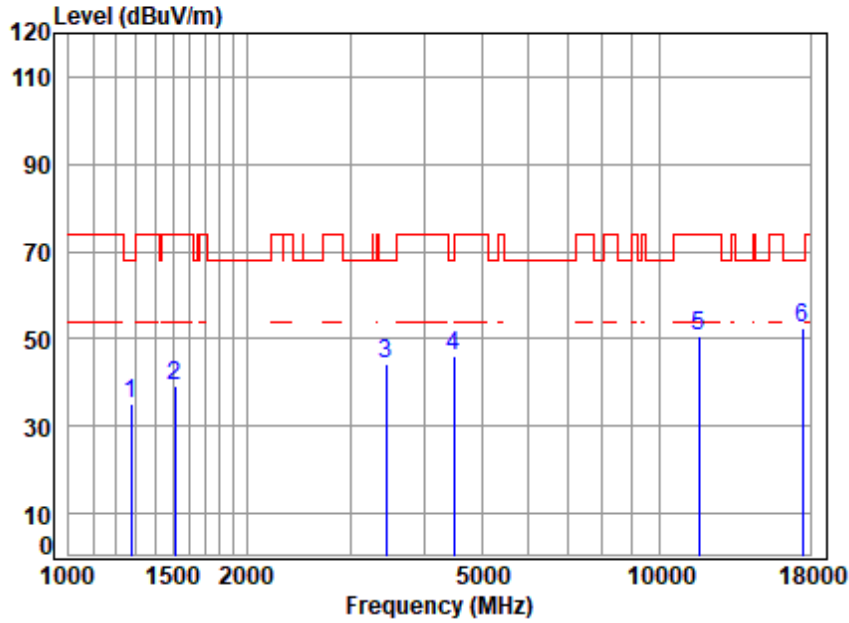


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5825 TX RSE  
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	2.94	25.03	39.83	46.47	34.61	74.00	-39.39	peak
2	1374.295	3.07	25.33	39.88	53.69	42.21	74.00	-31.79	peak
3	3196.094	5.13	31.23	40.85	48.27	43.78	68.20	-24.42	peak
4	4469.214	6.73	33.55	41.85	48.18	46.61	68.20	-21.59	peak
5	11650.000	11.82	37.84	37.94	39.68	51.40	74.00	-22.60	peak
6	17475.000	14.02	42.89	40.23	35.33	52.01	68.20	-16.19	peak



Test Mode: 06; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: High

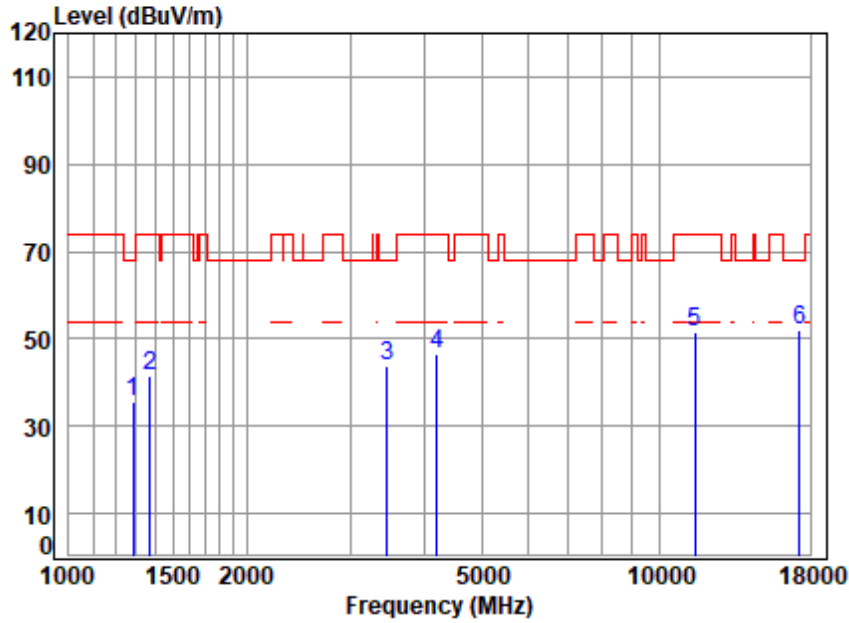


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5825 TX RSE  
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1274.802	2.90	24.92	39.81	46.94	34.95	68.20	-33.25	peak
2	1511.833	3.27	25.85	39.96	49.88	39.04	74.00	-34.96	peak
3	3445.535	5.45	31.62	41.04	48.39	44.42	68.20	-23.78	peak
4	4482.150	6.74	33.57	41.86	47.58	46.03	68.20	-22.17	peak
5	11650.000	11.82	37.84	37.94	39.09	50.81	74.00	-23.19	peak
6	17475.000	14.02	42.89	40.23	35.87	52.55	68.20	-15.65	peak



Test Mode: 06; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 40MHz; Channel: Low

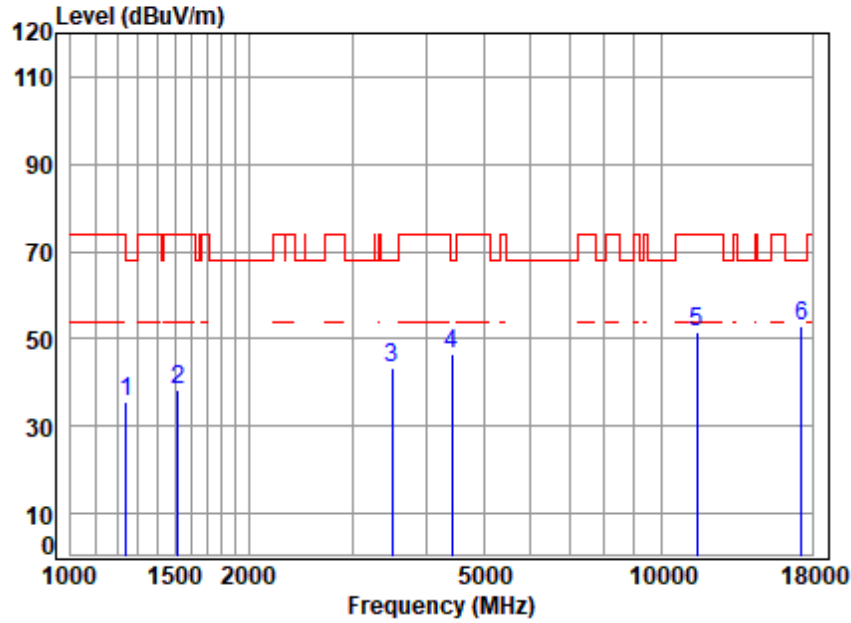


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5755 TX RSE  
Note : 5G WIFI 11N40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1285.904	2.92	24.96	39.82	47.63	35.69	68.20 -32.51 peak
2	1374.295	3.07	25.33	39.88	52.87	41.39	74.00 -32.61 peak
3	3465.510	5.48	31.65	41.05	47.84	43.92	68.20 -24.28 peak
4	4206.011	6.48	33.08	41.60	48.70	46.66	74.00 -27.34 peak
5	11510.000	11.64	37.90	37.87	39.95	51.62	74.00 -22.38 peak
6	17265.000	14.08	42.76	40.28	35.60	52.16	68.20 -16.04 peak



Test Mode: 06; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 40MHz; Channel: Low

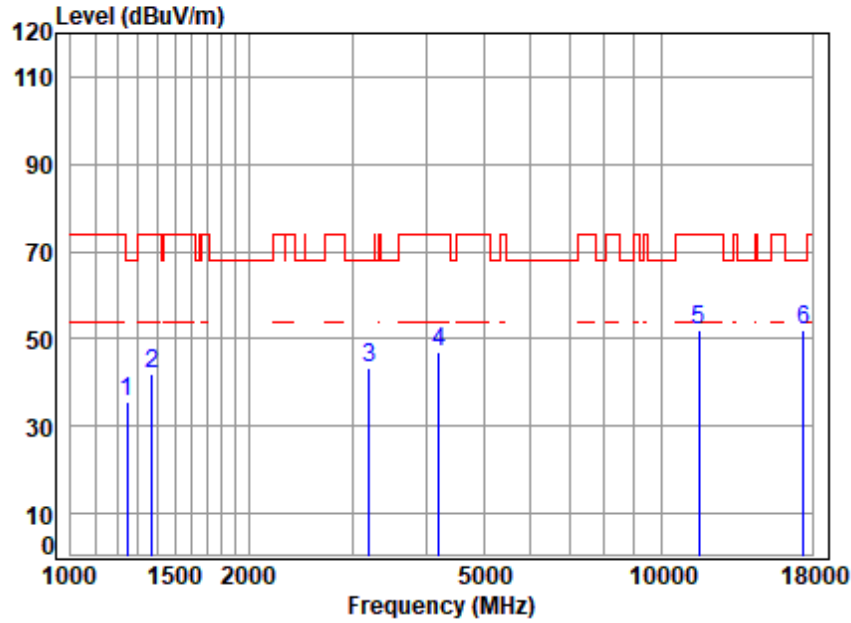


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5755 TX RSE  
Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1242.068	2.84	24.78	39.79	47.61	35.44	68.20	-32.76	peak
2	1520.598	3.28	25.89	39.96	48.98	38.19	74.00	-35.81	peak
3	3495.691	5.51	31.69	41.07	47.05	43.18	68.20	-25.02	peak
4	4417.841	6.68	33.46	41.80	48.15	46.49	68.20	-21.71	peak
5	11510.000	11.64	37.90	37.87	39.93	51.60	74.00	-22.40	peak
6	17265.000	14.08	42.76	40.28	36.28	52.84	68.20	-15.36	peak



Test Mode: 06; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 40MHz; Channel: High

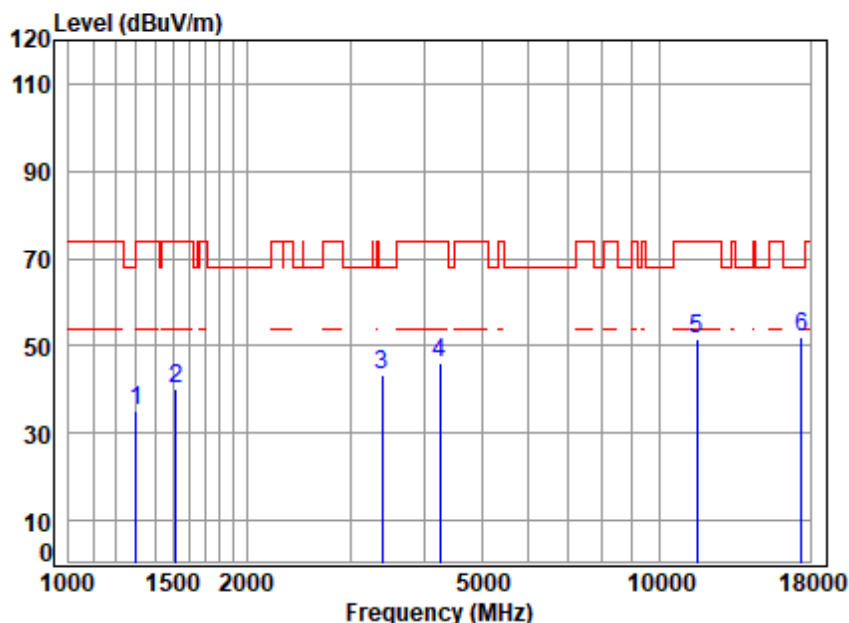


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5795 TX RSE  
Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.663	2.85	24.79	39.79	47.90	35.75	68.20	-32.45	peak
2	1374.295	3.07	25.33	39.88	53.51	42.03	74.00	-31.97	peak
3	3196.094	5.13	31.23	40.85	47.91	43.42	68.20	-24.78	peak
4	4206.011	6.48	33.08	41.60	48.86	46.82	74.00	-27.18	peak
5	11590.000	11.74	37.86	37.91	40.16	51.85	74.00	-22.15	peak
6	17385.000	14.05	42.83	40.25	35.57	52.20	68.20	-16.00	peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5795 TX RSE  
Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	2.94	25.03	39.83	46.77	34.91	74.00	-39.09	peak
2	1520.598	3.28	25.89	39.96	50.75	39.96	74.00	-34.04	peak
3	3396.098	5.39	31.54	41.00	47.35	43.28	68.20	-24.92	peak
4	4242.641	6.52	33.15	41.64	47.98	46.01	74.00	-27.99	peak
5	11590.000	11.74	37.86	37.91	39.86	51.55	74.00	-22.45	peak
6	17385.000	14.05	42.83	40.25	35.47	52.10	68.20	-16.10	peak



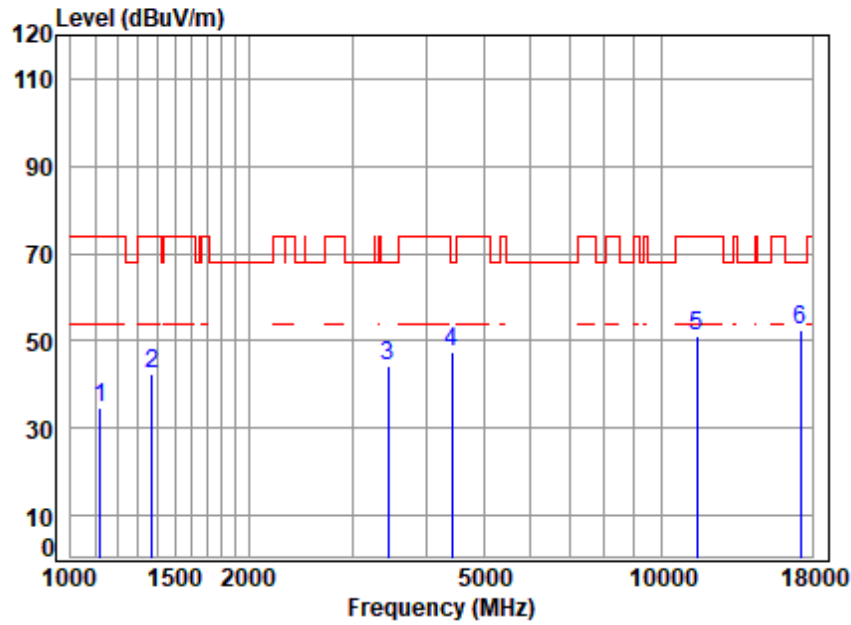
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

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

Test Mode: 06; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low

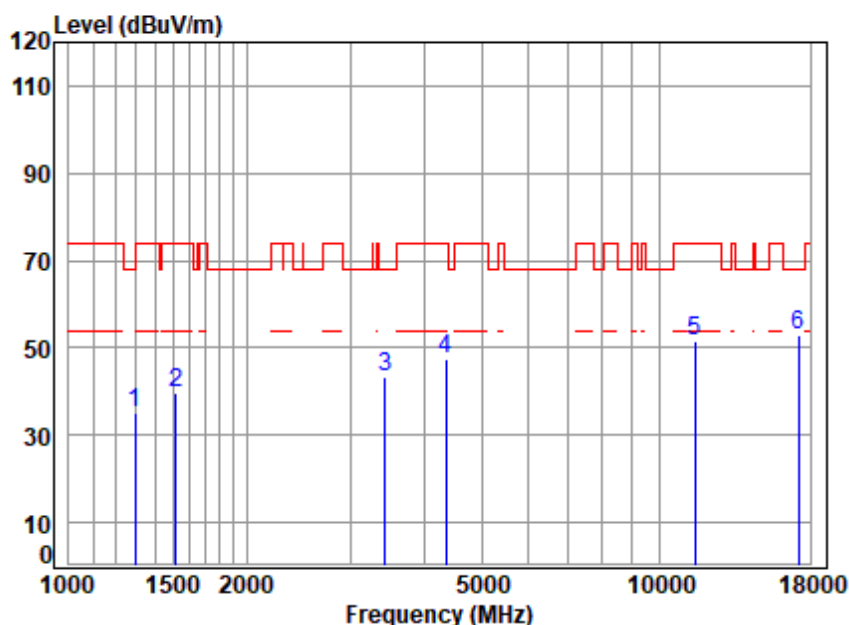


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5745 TX RSE  
Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1122.563	2.62	24.23	39.70	47.65	34.80	74.00	-39.20	peak
2	1374.295	3.07	25.33	39.88	53.86	42.38	74.00	-31.62	peak
3	3445.535	5.45	31.62	41.04	48.14	44.17	68.20	-24.03	peak
4	4417.841	6.68	33.46	41.80	49.24	47.58	68.20	-20.62	peak
5	11490.000	11.62	37.90	37.86	39.52	51.18	74.00	-22.82	peak
6	17235.000	14.09	42.74	40.28	35.79	52.34	68.20	-15.86	peak



Test Mode: 06; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5745 TX RSE  
Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1297.103	2.94	25.01	39.83	46.81	34.93	68.20	-33.27	peak
2	1520.598	3.28	25.89	39.96	50.58	39.79	74.00	-34.21	peak
3	3435.590	5.44	31.60	41.03	47.51	43.52	68.20	-24.68	peak
4	4354.454	6.63	33.35	41.74	49.08	47.32	74.00	-26.68	peak
5	11490.000	11.62	37.90	37.86	40.03	51.69	74.00	-22.31	peak
6	17235.000	14.09	42.74	40.28	36.23	52.78	68.20	-15.42	peak



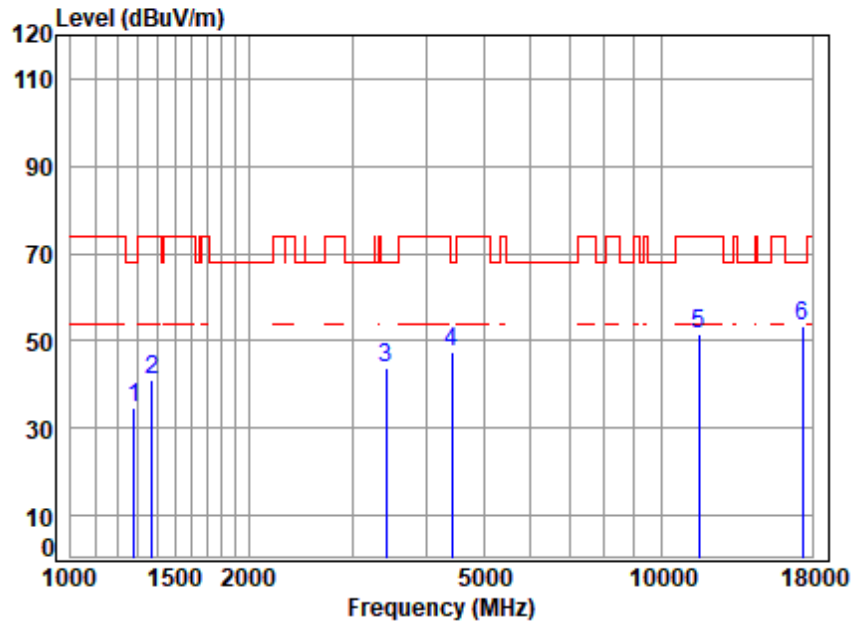
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

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

Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle

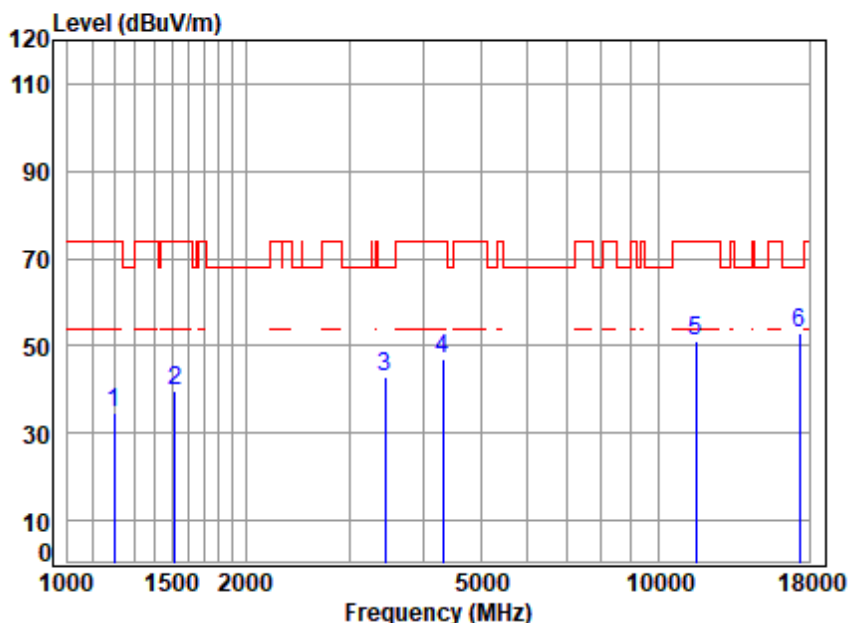


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5785 TX RSE  
Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1278.492	2.91	24.93	39.81	46.82	34.85	68.20	-33.35	peak
2	1374.295	3.07	25.33	39.88	52.71	41.23	74.00	-32.77	peak
3	3415.787	5.42	31.57	41.02	47.97	43.94	68.20	-24.26	peak
4	4417.841	6.68	33.46	41.80	49.11	47.45	68.20	-20.75	peak
5	11570.000	11.72	37.87	37.90	39.75	51.44	74.00	-22.56	peak
6	17355.000	14.06	42.81	40.25	36.61	53.23	68.20	-14.97	peak



Test Mode: 06; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5785 TX RSE  
Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1199.726	2.76	24.59	39.76	47.02	34.61	74.00	-39.39	peak
2	1520.598	3.28	25.89	39.96	50.58	39.79	74.00	-34.21	peak
3	3445.535	5.45	31.62	41.04	46.97	43.00	68.20	-25.20	peak
4	4316.859	6.59	33.28	41.71	48.88	47.04	74.00	-26.96	peak
5	11570.000	11.72	37.87	37.90	39.55	51.24	74.00	-22.76	peak
6	17355.000	14.06	42.81	40.25	36.29	52.91	68.20	-15.29	peak

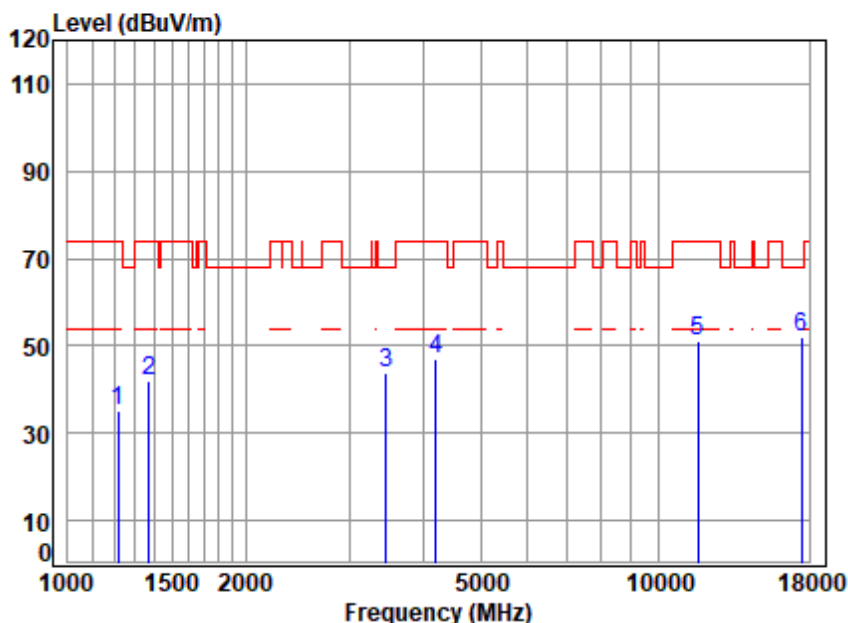


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

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

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

Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

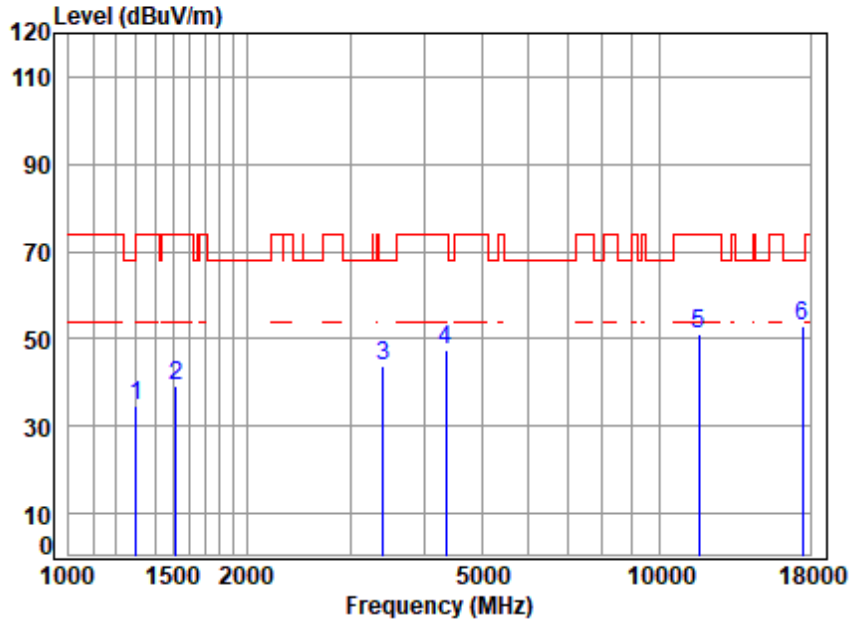


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5825 TX RSE  
Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1217.190	2.80	24.67	39.77	47.30	35.00	74.00	-39.00	peak
2	1374.295	3.07	25.33	39.88	53.25	41.77	74.00	-32.23	peak
3	3455.508	5.47	31.63	41.04	47.65	43.71	68.20	-24.49	peak
4	4193.872	6.47	33.06	41.59	48.91	46.85	74.00	-27.15	peak
5	11650.000	11.82	37.84	37.94	39.30	51.02	74.00	-22.98	peak
6	17475.000	14.02	42.89	40.23	35.52	52.20	68.20	-16.00	peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

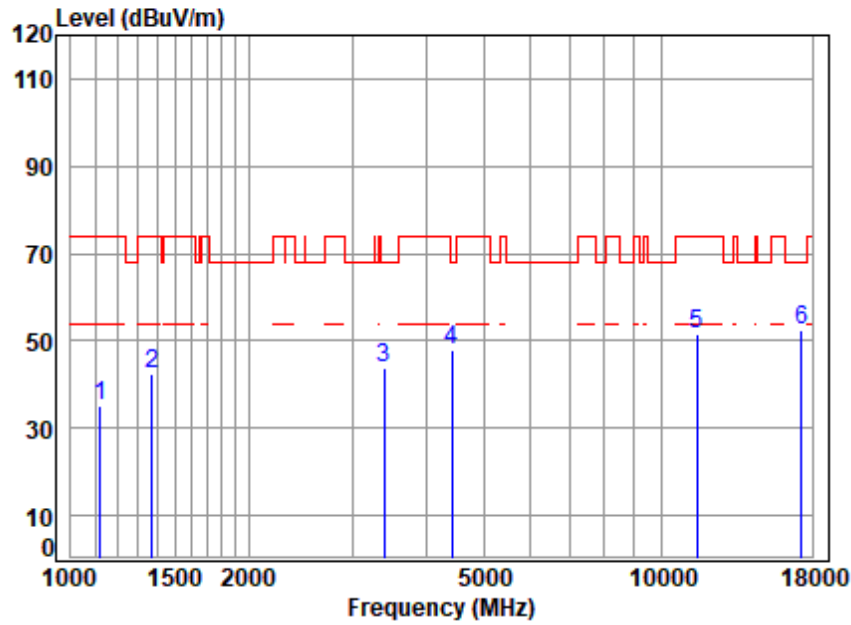


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5825 TX RSE  
Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	2.94	25.03	39.83	46.32	34.46	74.00	-39.54	peak
2	1520.598	3.28	25.89	39.96	49.96	39.17	74.00	-34.83	peak
3	3405.929	5.40	31.56	41.01	47.91	43.86	68.20	-24.34	peak
4	4354.454	6.63	33.35	41.74	49.19	47.43	74.00	-26.57	peak
5	11650.000	11.82	37.84	37.94	39.22	50.94	74.00	-23.06	peak
6	17475.000	14.02	42.89	40.23	36.16	52.84	68.20	-15.36	peak



Test Mode: 06; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low

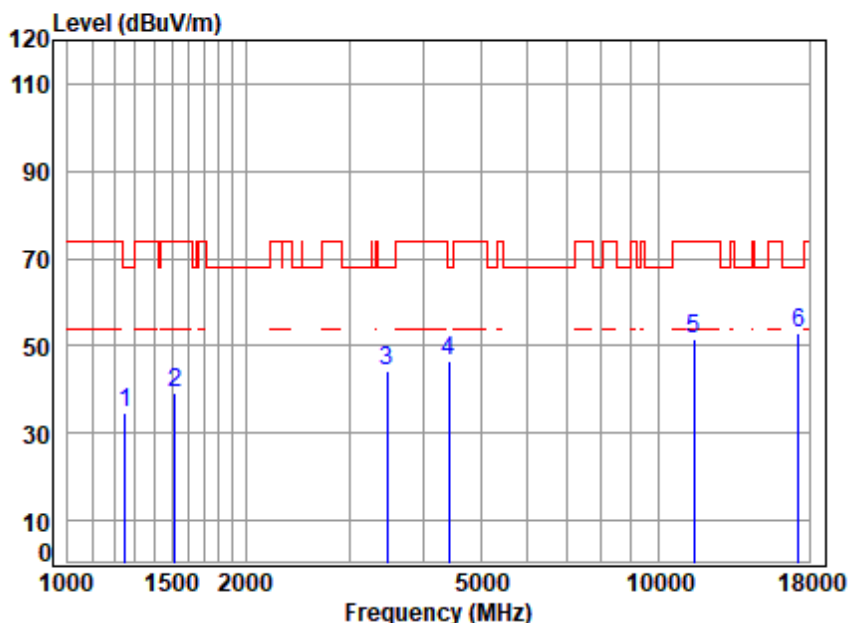


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5755 TX RSE  
Note : 5G WIFI 11AC40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1122.563	2.62	24.23	39.70	47.92	35.07	74.00 -38.93 peak
2	1374.295	3.07	25.33	39.88	54.10	42.62	74.00 -31.38 peak
3	3396.098	5.39	31.54	41.00	47.68	43.61	68.20 -24.59 peak
4	4417.841	6.68	33.46	41.80	49.40	47.74	68.20 -20.46 peak
5	11510.000	11.64	37.90	37.87	39.73	51.40	74.00 -22.60 peak
6	17265.000	14.08	42.76	40.28	35.72	52.28	68.20 -15.92 peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

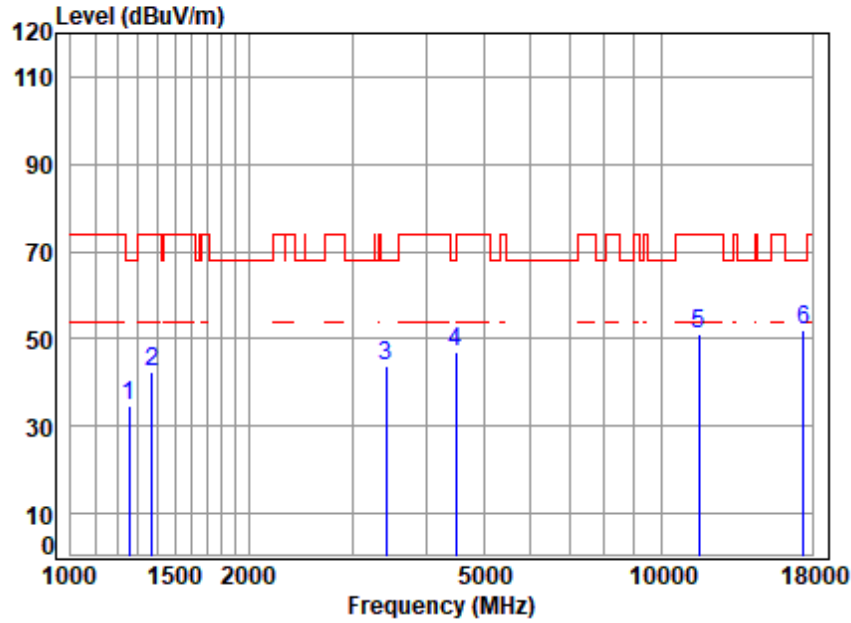


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5755 TX RSE  
Note : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	2.85	24.81	39.79	46.68	34.55	68.20	-33.65	peak
2	1520.598	3.28	25.89	39.96	50.03	39.24	74.00	-34.76	peak
3	3475.541	5.49	31.66	41.06	47.96	44.05	68.20	-24.15	peak
4	4417.841	6.68	33.46	41.80	48.19	46.53	68.20	-21.67	peak
5	11510.000	11.64	37.90	37.87	39.77	51.44	74.00	-22.56	peak
6	17265.000	14.08	42.76	40.28	36.22	52.78	68.20	-15.42	peak



Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

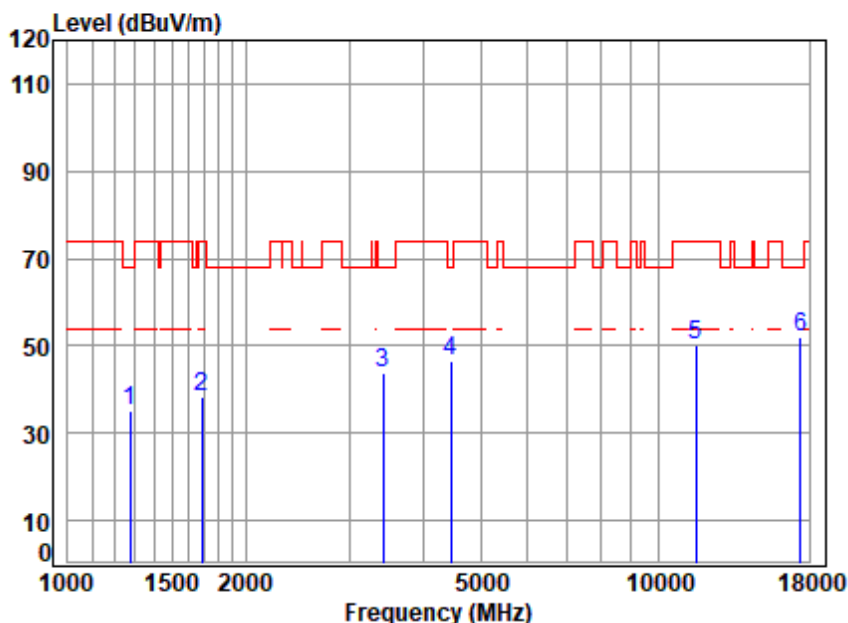


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5795 TX RSE  
Note : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1256.512	2.87	24.84	39.80	46.68	34.59	68.20	-33.61	peak
2	1374.295	3.07	25.33	39.88	53.69	42.21	74.00	-31.79	peak
3	3425.675	5.43	31.59	41.02	47.80	43.80	68.20	-24.40	peak
4	4482.150	6.74	33.57	41.86	48.37	46.82	68.20	-21.38	peak
5	11590.000	11.74	37.86	37.91	39.47	51.16	74.00	-22.84	peak
6	17385.000	14.05	42.83	40.25	35.47	52.10	68.20	-16.10	peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

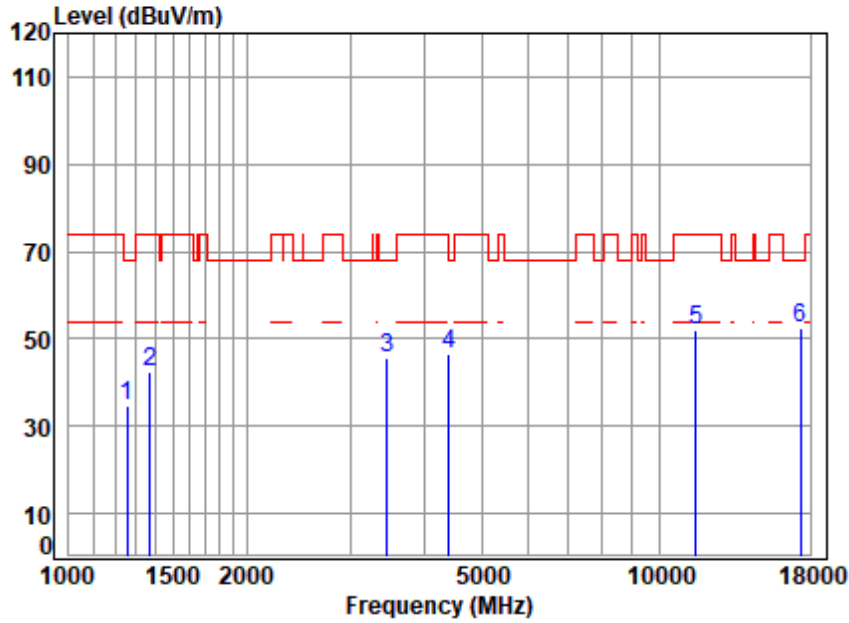


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5795 TX RSE  
Note : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1274.802	2.90	24.92	39.81	47.03	35.04	68.20	-33.16	peak
2	1687.347	3.42	26.62	40.05	48.12	38.11	74.00	-35.89	peak
3	3415.787	5.42	31.57	41.02	47.80	43.77	68.20	-24.43	peak
4	4456.315	6.72	33.53	41.84	48.04	46.45	68.20	-21.75	peak
5	11590.000	11.74	37.86	37.91	38.62	50.31	74.00	-23.69	peak
6	17385.000	14.05	42.83	40.25	35.60	52.23	68.20	-15.97	peak



Test Mode: 06; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle

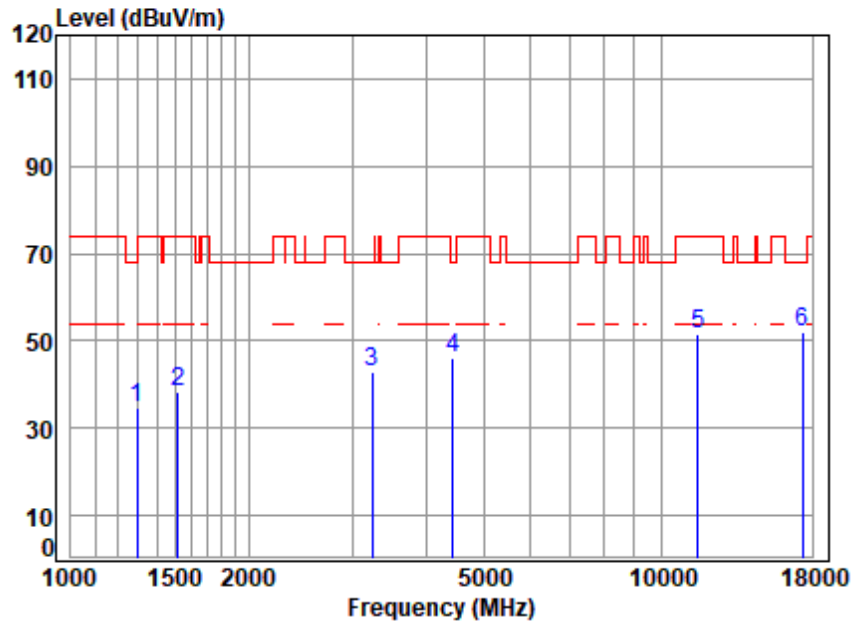


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5775 TX RSE  
Note : 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1256.512	2.87	24.84	39.80	46.95	34.86	68.20	-33.34	peak
2	1374.295	3.07	25.33	39.88	54.05	42.57	74.00	-31.43	peak
3	3465.510	5.48	31.65	41.05	49.52	45.60	68.20	-22.60	peak
4	4405.090	6.67	33.44	41.79	48.25	46.57	68.20	-21.63	peak
5	11550.000	11.69	37.88	37.89	40.32	52.00	74.00	-22.00	peak
6	17325.000	14.07	42.80	40.26	35.99	52.60	68.20	-15.60	peak



Test Mode: 06; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5775 TX RSE  
Note : 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1297.103	2.94	25.01	39.83	46.72	34.84	68.20	-33.36	peak
2	1520.598	3.28	25.89	39.96	49.08	38.29	74.00	-35.71	peak
3	3242.619	5.19	31.30	40.89	47.42	43.02	68.20	-25.18	peak
4	4443.453	6.71	33.50	41.82	47.80	46.19	68.20	-22.01	peak
5	11550.000	11.69	37.88	37.89	39.79	51.47	74.00	-22.53	peak
6	17325.000	14.07	42.80	40.26	35.41	52.02	68.20	-16.18	peak



## 7.9 Radiated Emissions which fall in the restricted bands

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

Test Method: KDB 789033 D02 II G

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.

### 7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C

Humidity: 52.3 % RH

Atmospheric Pressure: 1010 mbar

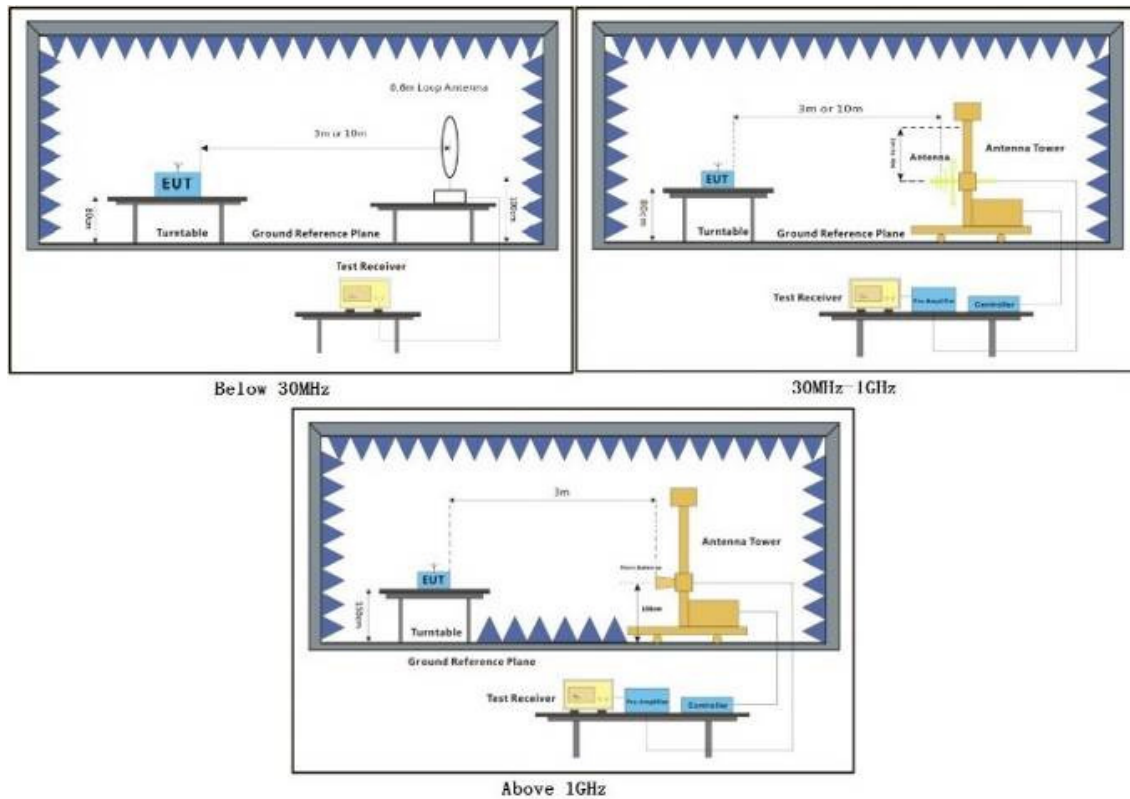


### 7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	04	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	05	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	06	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



### 7.9.3 Test Setup Diagram



#### 7.9.4 Measurement Procedure and Data

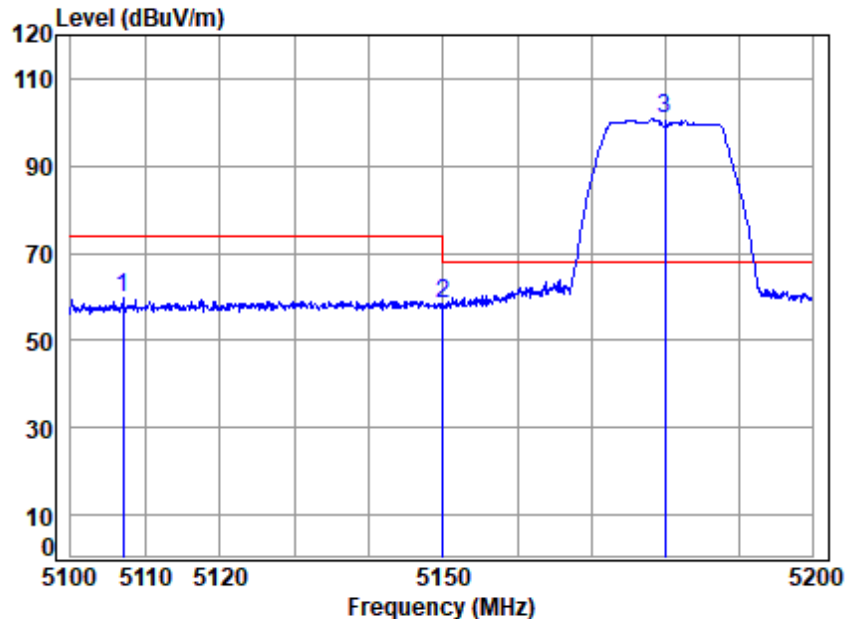
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 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: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



Antenna 1 & 2 were tested for Modulation: 802.11a. Only the worst case(Antenna 1) was recorded in the report.  
Antenna 1, 2 & 1+2, were tested for Modulation: 802.11n(HT20),n(HT40),ac(HT20), ac(HT40), ac(HT80). Only the worst case(Antenna 1+2) was recorded in the report.

Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

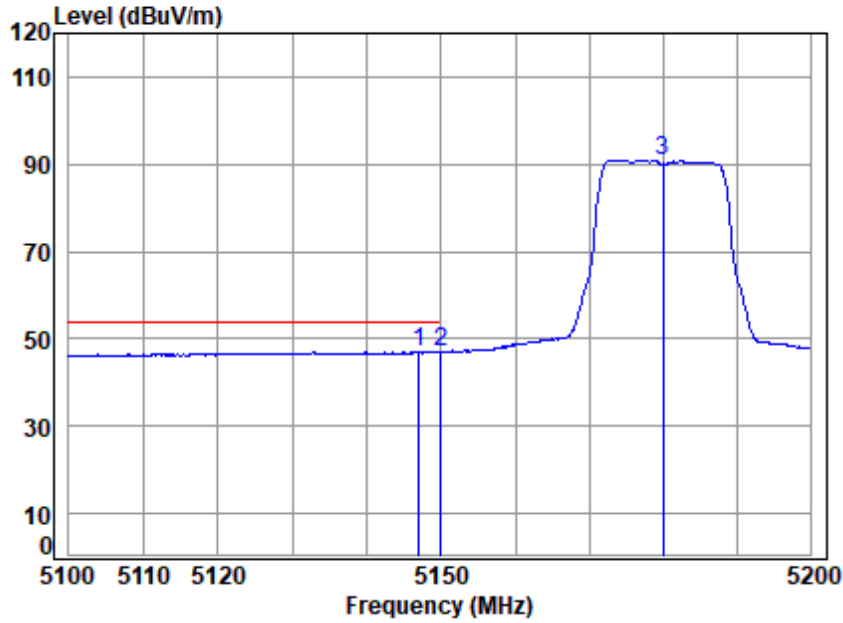


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5180 Band edge  
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5107.036	7.50	34.29	42.31	60.19	59.67	74.00	-14.33 peak
2	5149.980	7.57	34.32	42.32	59.03	58.60	74.00	-15.40 peak
3 *	5180.000	7.63	34.35	42.32	101.10	100.76	68.20	32.56 peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

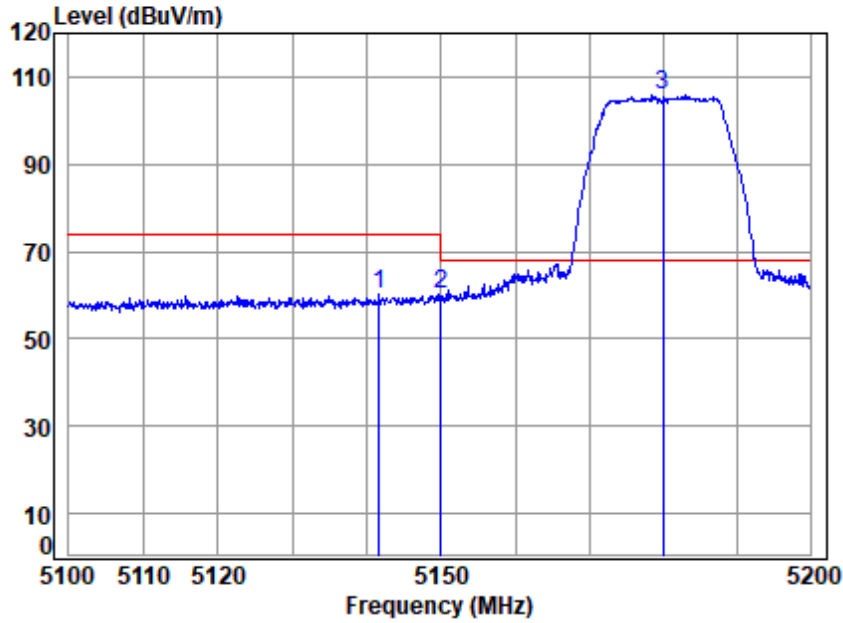


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5180 Band edge  
: 5G WIFI 11A

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5147.058	7.57	34.32	42.32	47.44	47.01	54.00	-6.99	Average
2 5149.980	7.57	34.32	42.32	47.41	46.98	54.00	-7.02	Average
3 5180.000	7.63	34.35	42.32	91.34	91.00	-----	-----	Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

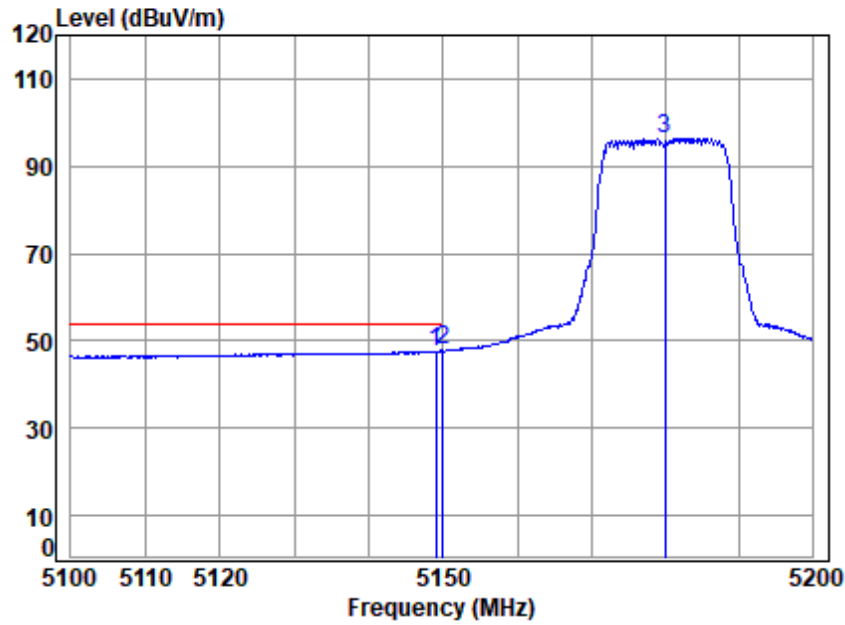


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5180 Band edge  
: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5141.664	7.56	34.32	42.32	60.45	60.01	74.00	-13.99	peak
2	5149.980	7.57	34.32	42.32	60.78	60.35	74.00	-13.65	peak
3 *	5180.000	7.63	34.35	42.32	106.08	105.74	68.20	37.54	peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

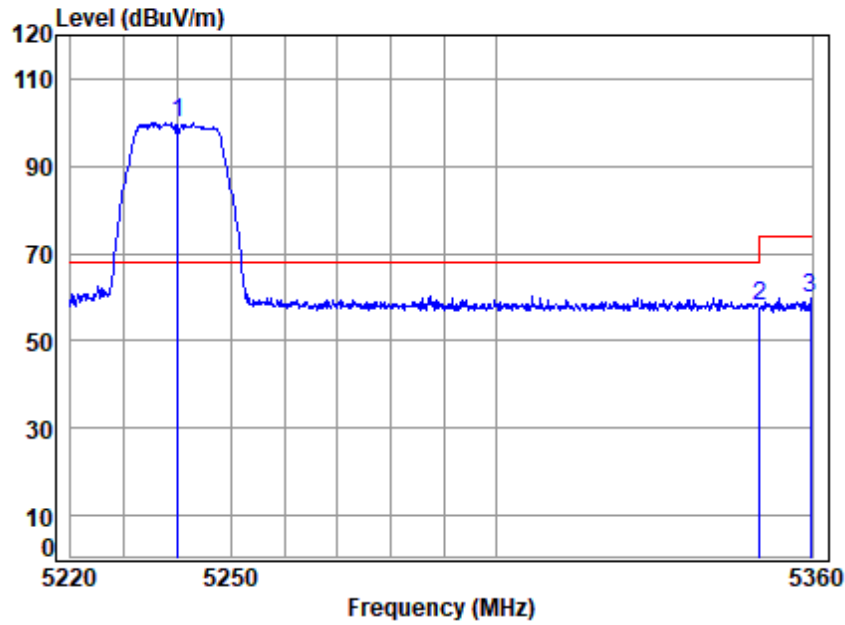


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5180 Band edge  
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.958	7.57	34.32	42.32	48.05	47.62	54.00	-6.38 Average
2	5149.980	7.57	34.32	42.32	48.13	47.70	54.00	-6.30 Average
3	5180.000	7.63	34.35	42.32	96.78	96.44	-----	----- Average



Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5240 Band edge  
: 5G WIFI 11A

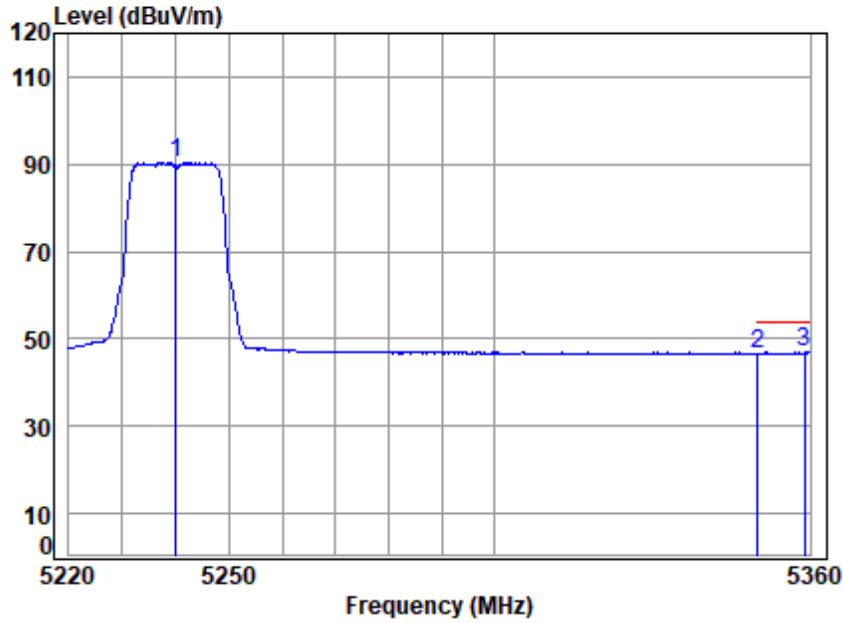
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5240.000	7.73	34.40	42.33	100.28	100.08	68.20	31.88	peak
2 5350.020	7.92	34.48	42.34	57.84	57.90	74.00	-16.10	peak
3 5359.716	7.94	34.49	42.34	59.90	59.99	74.00	-14.01	peak



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

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

Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High

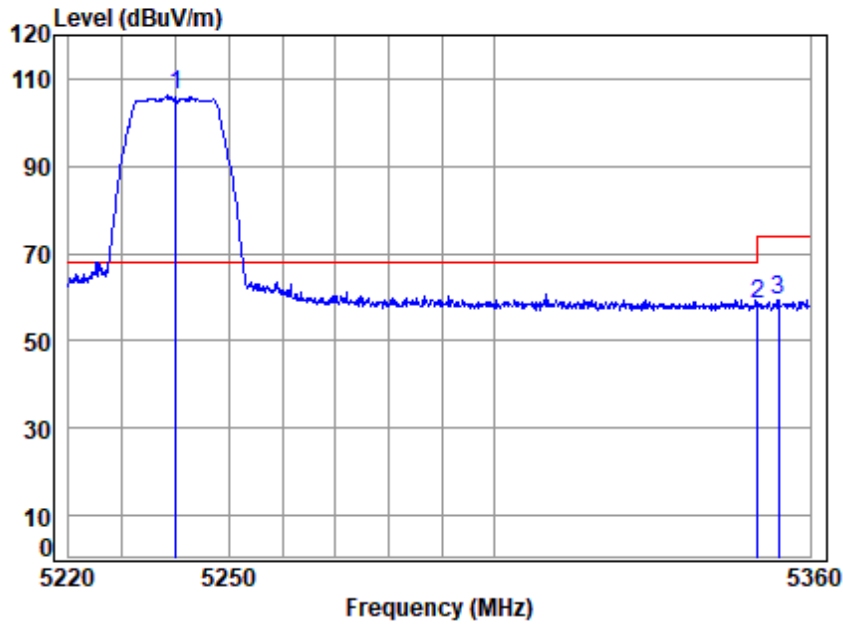


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5240 Band edge  
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	7.73	34.40	42.33	90.61	90.41	-----	----- Average
2	5350.020	7.92	34.48	42.34	46.57	46.63	54.00	-7.37 Average
3	5358.865	7.94	34.49	42.34	46.80	46.89	54.00	-7.11 Average



Test Mode: 03; Polarity: Vertical; Modulation: 802.11a; Bandwidth: 20MHz; Channel: High

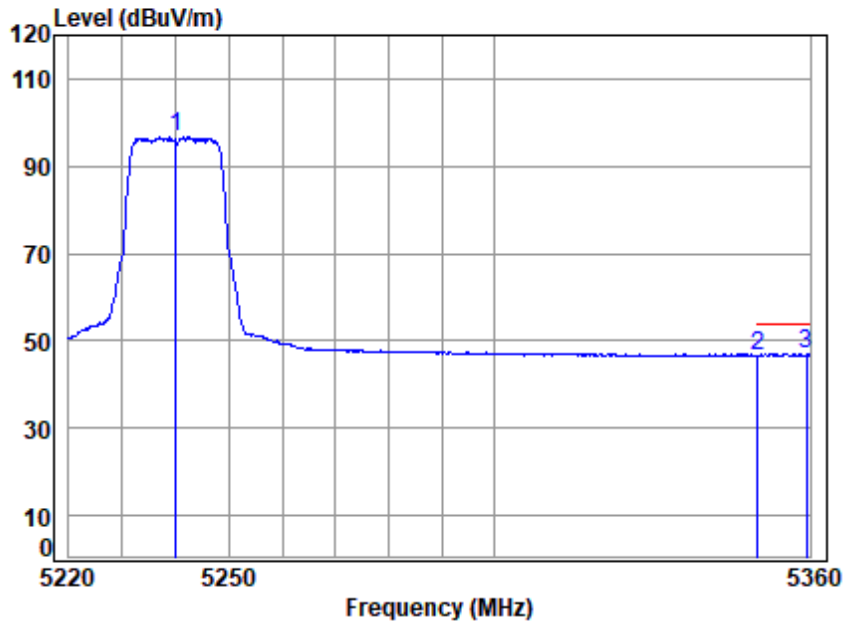


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5240 Band edge  
: 5G WIFI 11A

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5240.000	7.73	34.40	42.33	106.43	106.23	68.20	38.03	peak
2 5350.020	7.92	34.48	42.34	58.32	58.38	74.00	-15.62	peak
3 5353.903	7.93	34.49	42.34	59.21	59.29	74.00	-14.71	peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

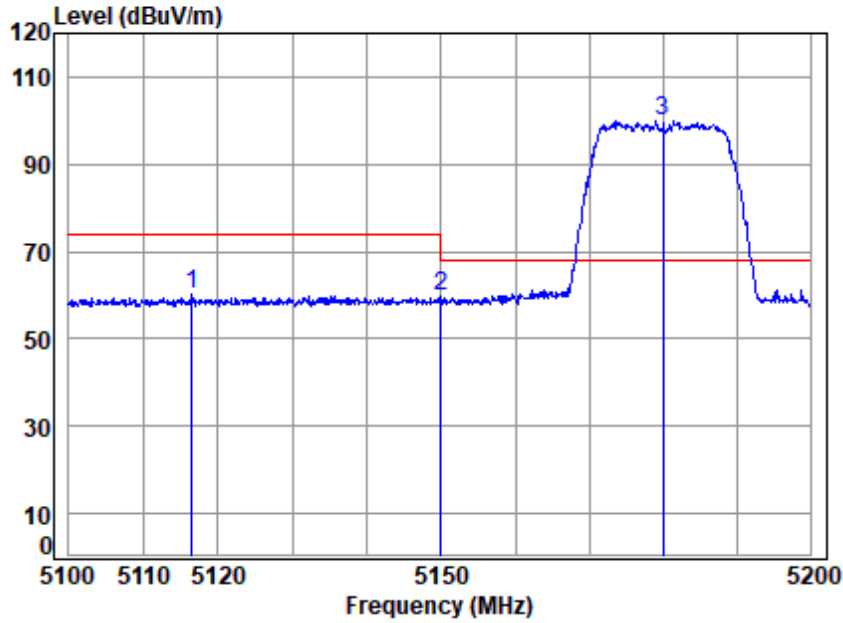


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5240 Band edge  
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	7.73	34.40	42.33	96.86	96.66	-----	Average
2	5350.020	7.92	34.48	42.34	46.70	46.76	54.00	-7.24 Average
3	5359.291	7.94	34.49	42.34	46.77	46.86	54.00	-7.14 Average



Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

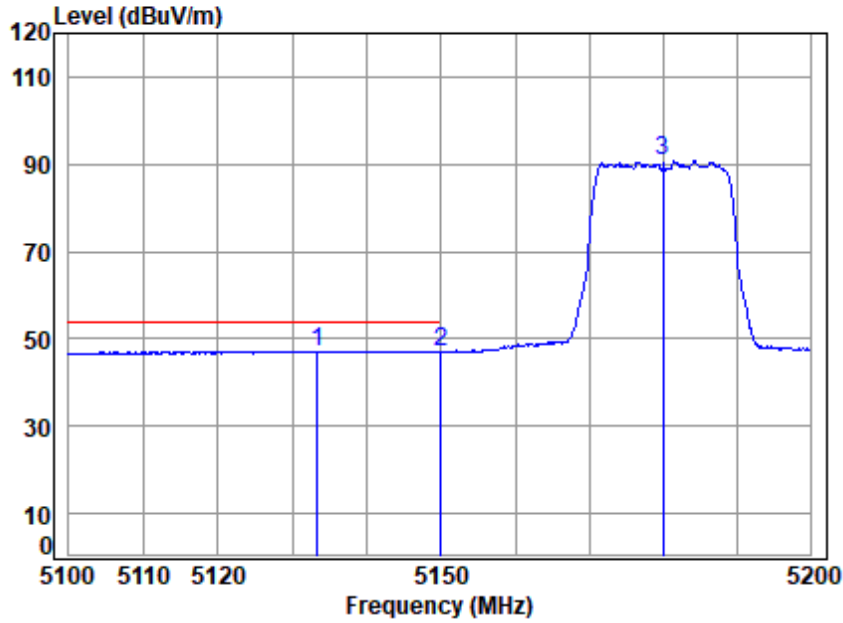


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5180 Band edge  
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5116.466	7.51	34.30	42.31	60.65	60.15	74.00	-13.85	peak
2	5149.980	7.57	34.32	42.32	60.26	59.83	74.00	-14.17	peak
3 *	5180.000	7.63	34.35	42.32	100.31	99.97	68.20	31.77	peak



Test Mode: 03; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: Low

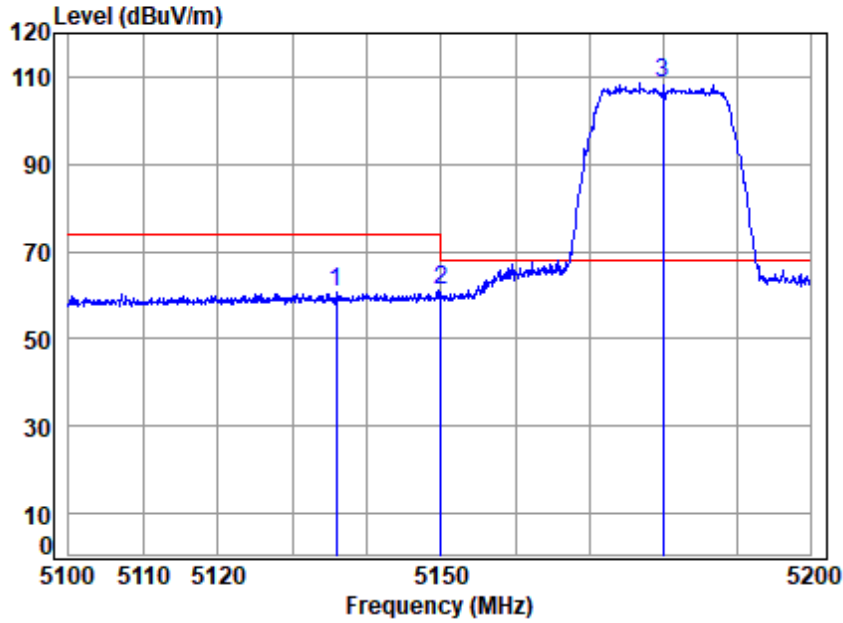


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5180 Band edge  
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5133.384	7.54	34.31	42.31	47.65	47.19	54.00	-6.81	Average
2	5149.980	7.57	34.32	42.32	47.52	47.09	54.00	-6.91	Average
3	5180.000	7.63	34.35	42.32	91.01	90.67	-----	-----	Average



Test Mode: 03; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5180 Band edge  
: 5G WIFI 11N20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5135.876	7.55	34.31	42.31	61.00	60.55	74.00	-13.45	Peak
2 5149.980	7.57	34.32	42.32	61.43	61.00	74.00	-13.00	Peak
3 * 5180.000	7.63	34.35	42.32	108.78	108.44	68.20	40.24	Peak

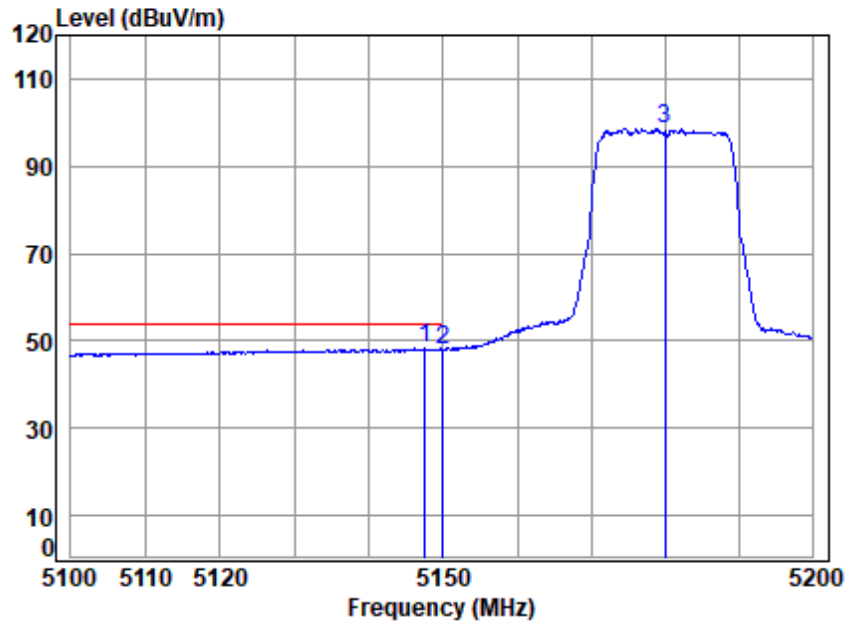


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

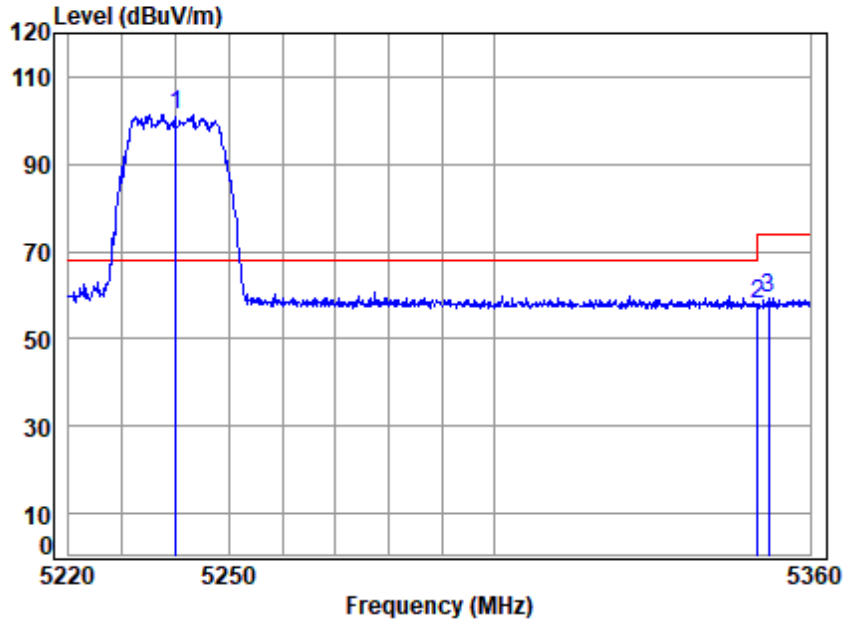


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5180 Band edge  
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5147.558	7.57	34.32	42.32	48.60	48.17	54.00	-5.83 Average
2	5149.980	7.57	34.32	42.32	48.55	48.12	54.00	-5.88 Average
3	5180.000	7.63	34.35	42.32	98.85	98.51	-----	----- Average



Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5240 Band edge  
: 5G WIFI 11N20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5240.000	7.73	34.40	42.33	101.28	101.08	68.20	32.88	peak
2 5350.020	7.92	34.48	42.34	58.01	58.07	74.00	-15.93	peak
3 5352.062	7.93	34.49	42.34	59.28	59.36	74.00	-14.64	peak

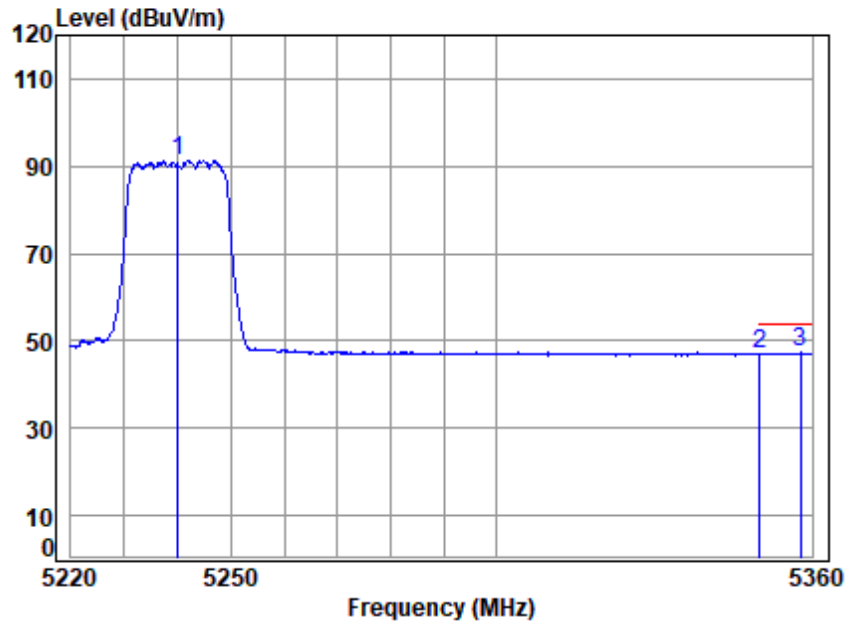


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

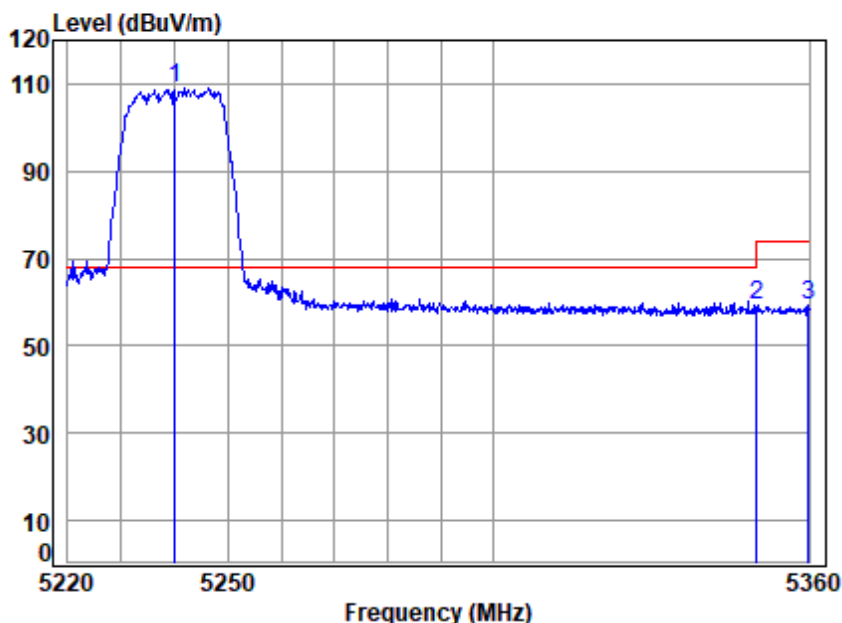


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5240 Band edge  
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	7.73	34.40	42.33	91.60	91.40	-----	----- Average
2	5350.020	7.92	34.48	42.34	46.96	47.02	54.00	-6.98 Average
3	5357.730	7.94	34.49	42.34	47.22	47.31	54.00	-6.69 Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5240 Band edge  
: 5G WIFI 11N20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5240.000	7.73	34.40	42.33	109.05	108.85	68.20	40.65	peak
2 5350.020	7.92	34.48	42.34	59.33	59.39	74.00	-14.61	peak
3 5359.858	7.94	34.49	42.34	59.00	59.09	74.00	-14.91	peak

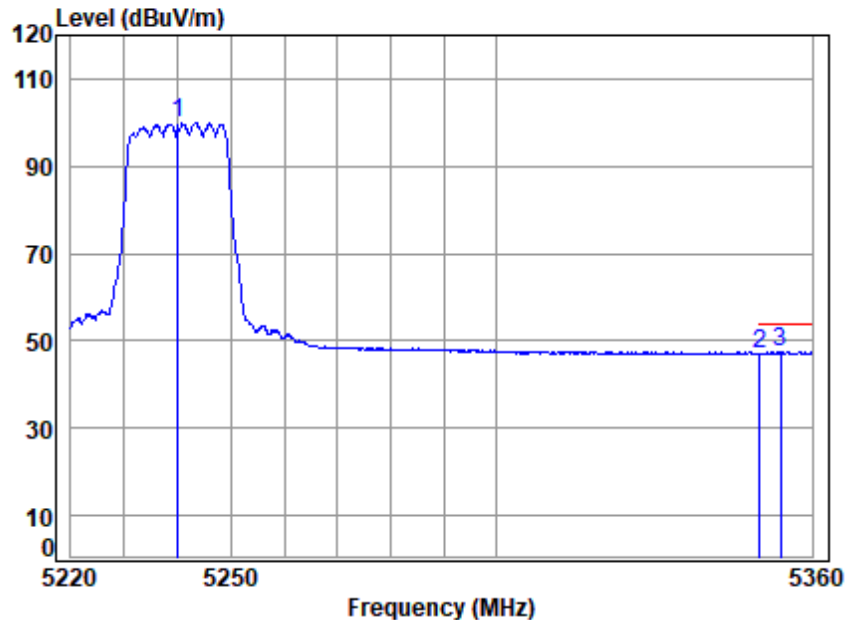


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

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

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

Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High

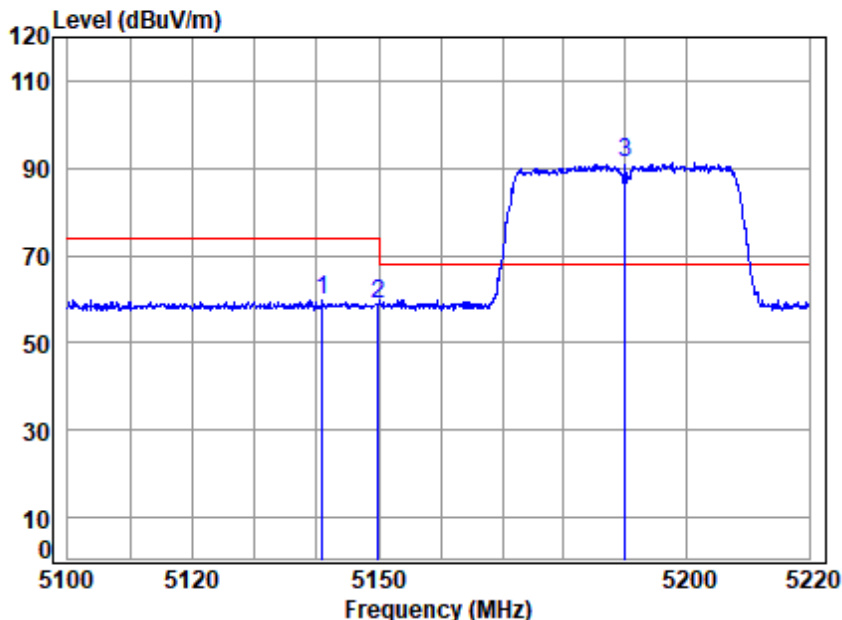


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5240 Band edge  
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	7.73	34.40	42.33	100.15	99.95	-----	----- Average
2	5350.020	7.92	34.48	42.34	47.07	47.13	54.00	-6.87 Average
3	5353.903	7.93	34.49	42.34	47.34	47.42	54.00	-6.58 Average



Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

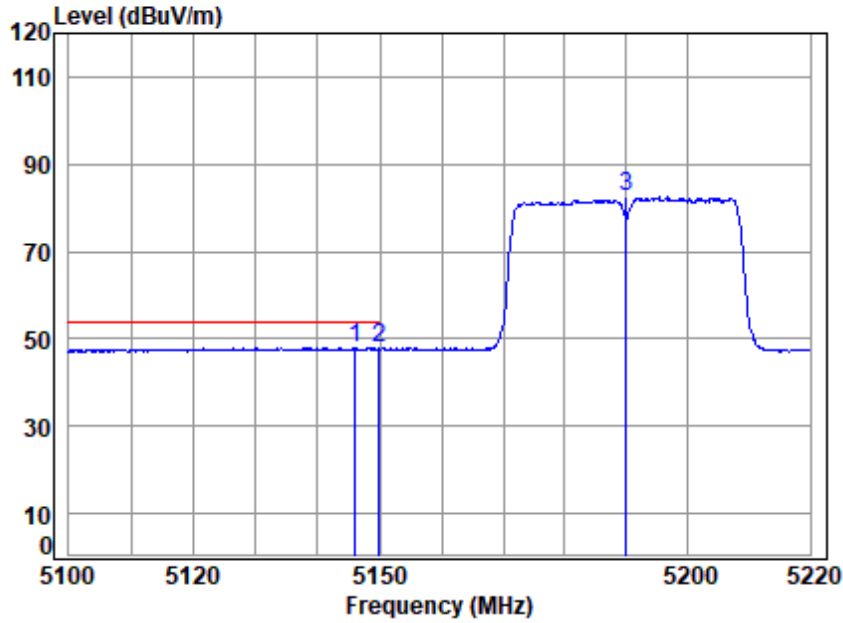


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5190 Band edge  
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5140.965	7.56	34.32	42.32	60.25	59.81	74.00	-14.19 peak
2	5149.980	7.57	34.32	42.32	59.31	58.88	74.00	-15.12 peak
3 *	5190.000	7.64	34.36	42.32	91.50	91.18	68.20	22.98 peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

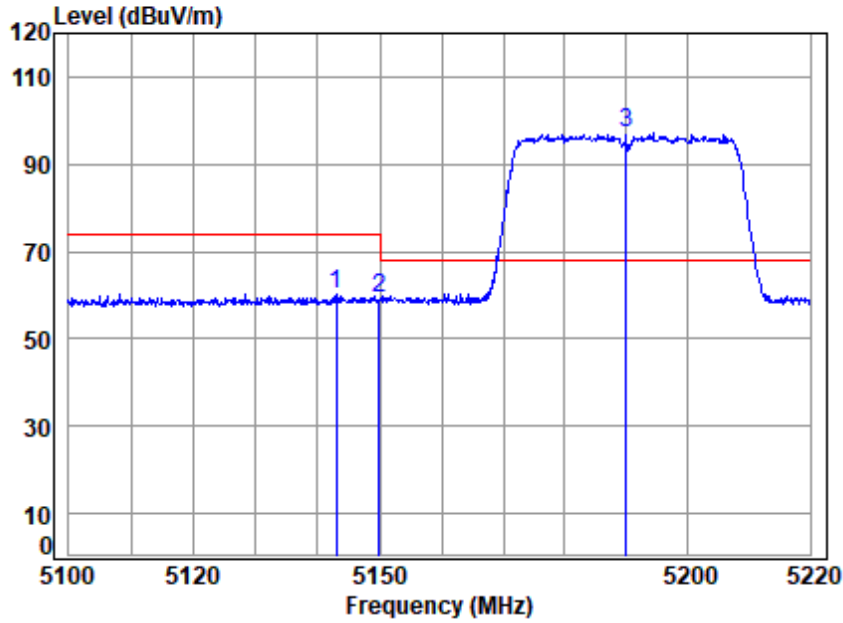


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5190 Band edge  
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5146.109	7.57	34.32	42.32	48.46	48.03	54.00	-5.97 Average
2	5149.980	7.57	34.32	42.32	48.19	47.76	54.00	-6.24 Average
3	5190.000	7.64	34.36	42.32	82.86	82.54	-----	----- Average



Test Mode: 03; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 40MHz; Channel: Low

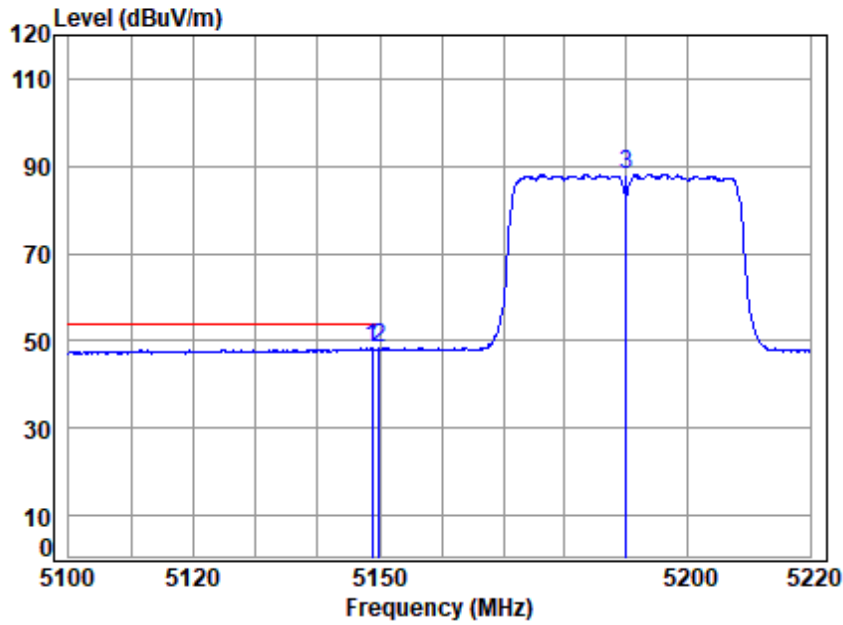


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5190 Band edge  
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5142.999	7.56	34.32	42.32	60.77	60.33	74.00	-13.67 Peak
2	5149.980	7.57	34.32	42.32	59.56	59.13	74.00	-14.87 Peak
3 *	5190.000	7.64	34.36	42.32	97.40	97.08	68.20	28.88 Peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

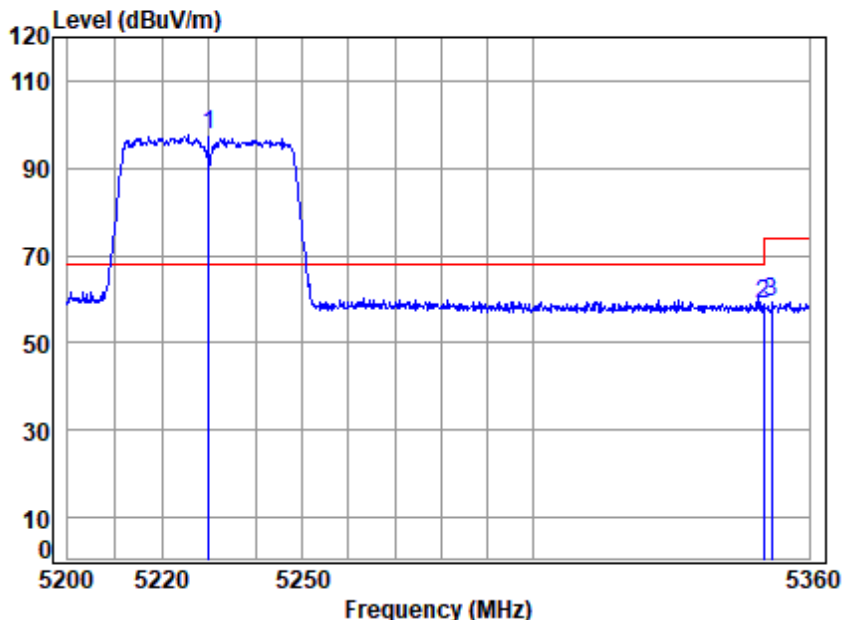


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5190 Band edge  
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5148.743	7.57	34.32	42.32	48.87	48.44	54.00	-5.56 Average
2	5149.980	7.57	34.32	42.32	48.59	48.16	54.00	-5.84 Average
3	5190.000	7.64	34.36	42.32	88.57	88.25	-----	----- Average



Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High

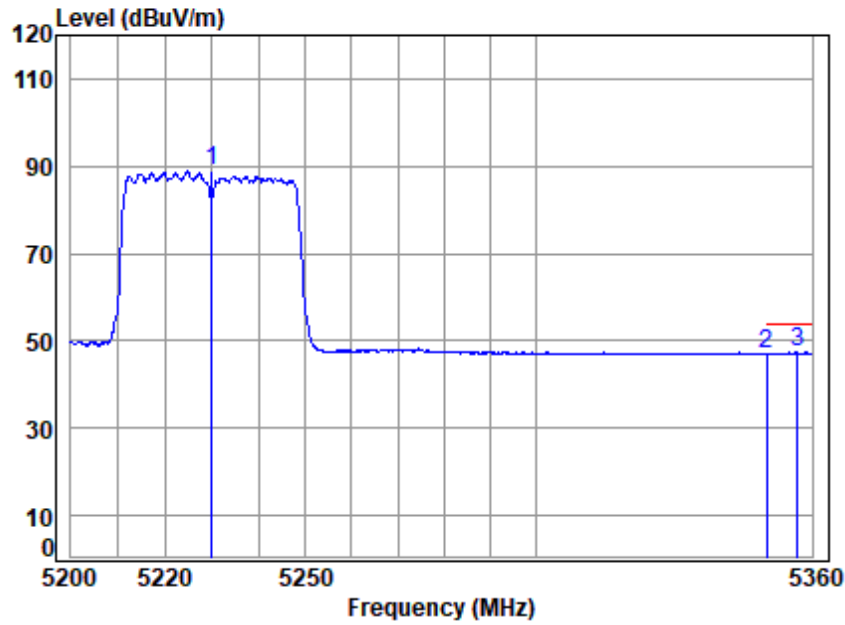


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5230 Band edge  
: 5G WIFI 11N40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5230.000	7.72	34.39	42.32	97.85	97.64	68.20	29.44	peak
2 5350.020	7.92	34.48	42.34	58.65	58.71	74.00	-15.29	peak
3 5351.884	7.93	34.49	42.34	59.41	59.49	74.00	-14.51	peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High

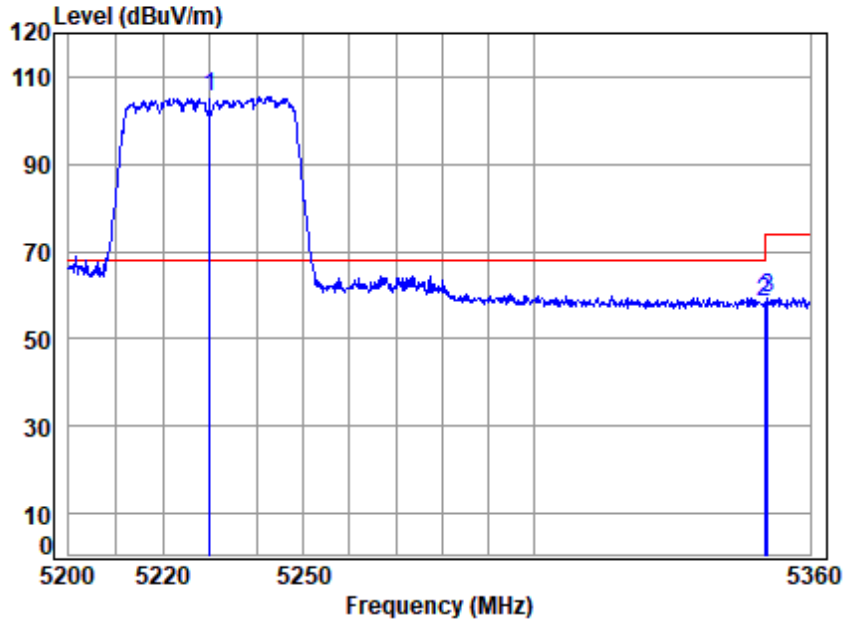


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5230 Band edge  
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5230.000	7.72	34.39	42.32	88.99	88.78	-----	-----	Average
2	5350.020	7.92	34.48	42.34	47.08	47.14	54.00	-6.86	Average
3	5356.752	7.94	34.49	42.34	47.20	47.29	54.00	-6.71	Average



Test Mode: 03; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 40MHz; Channel: High

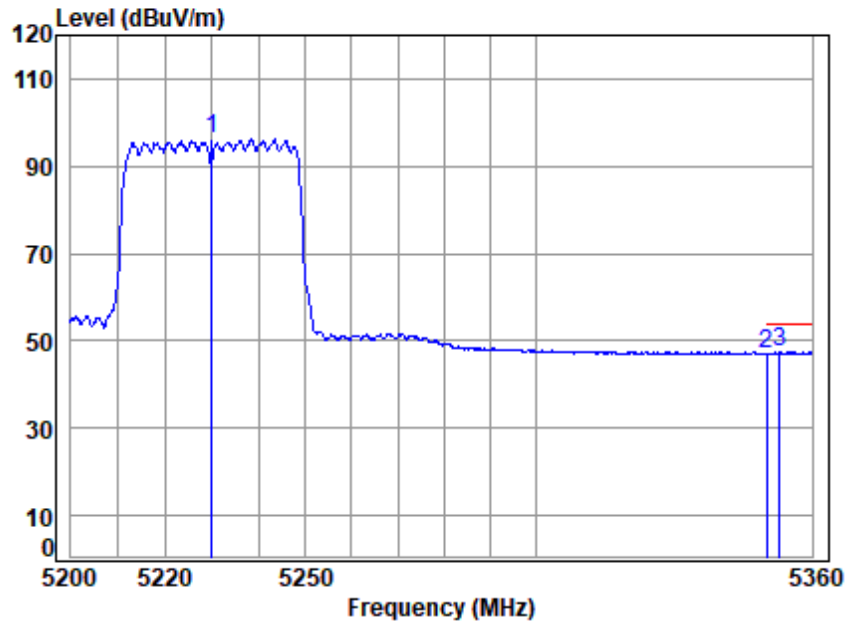


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5230 Band edge  
: 5G WIFI 11N40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5230.000	7.72	34.39	42.32	105.65	105.44	68.20	37.24	peak
2 5350.020	7.92	34.48	42.34	58.38	58.44	74.00	-15.56	peak
3 5350.749	7.93	34.48	42.34	59.27	59.34	74.00	-14.66	peak



Test Mode: 03; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 40MHz; Channel: High

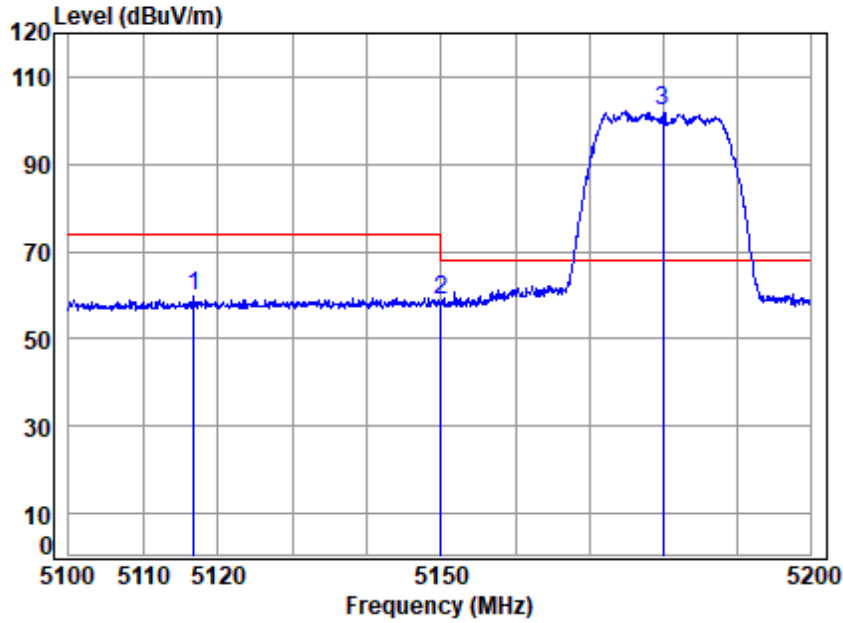


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5230 Band edge  
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5230.000	7.72	34.39	42.32	96.37	96.16	-----	----- Average
2	5350.020	7.92	34.48	42.34	47.14	47.20	54.00	-6.80 Average
3	5352.857	7.93	34.49	42.34	47.37	47.45	54.00	-6.55 Average



Test Mode: 03; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low

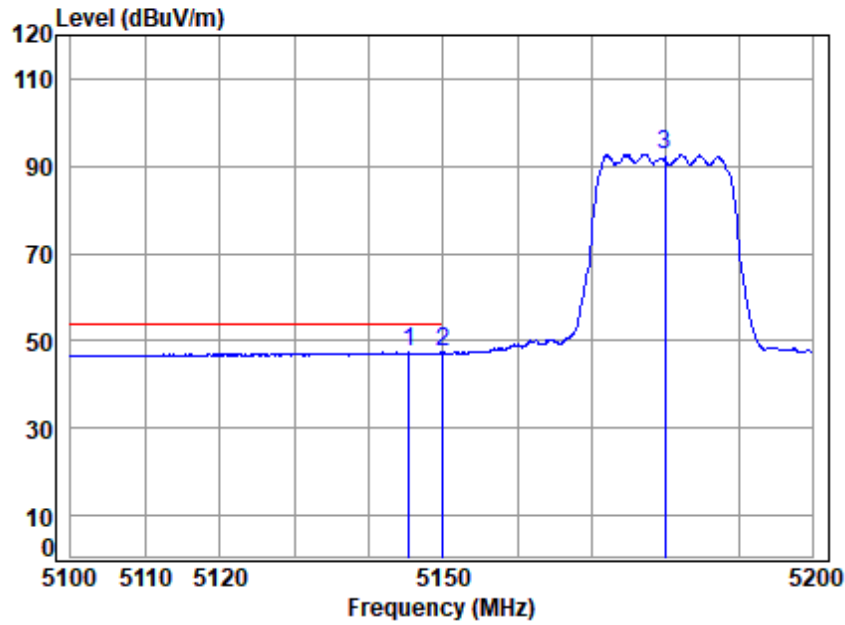


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5180 Band edge  
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5116.764	7.51	34.30	42.31	60.06	59.56	74.00	-14.44	peak
2	5149.980	7.57	34.32	42.32	59.26	58.83	74.00	-15.17	peak
3 *	5180.000	7.63	34.35	42.32	102.33	101.99	68.20	33.79	peak



Test Mode: 03; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low

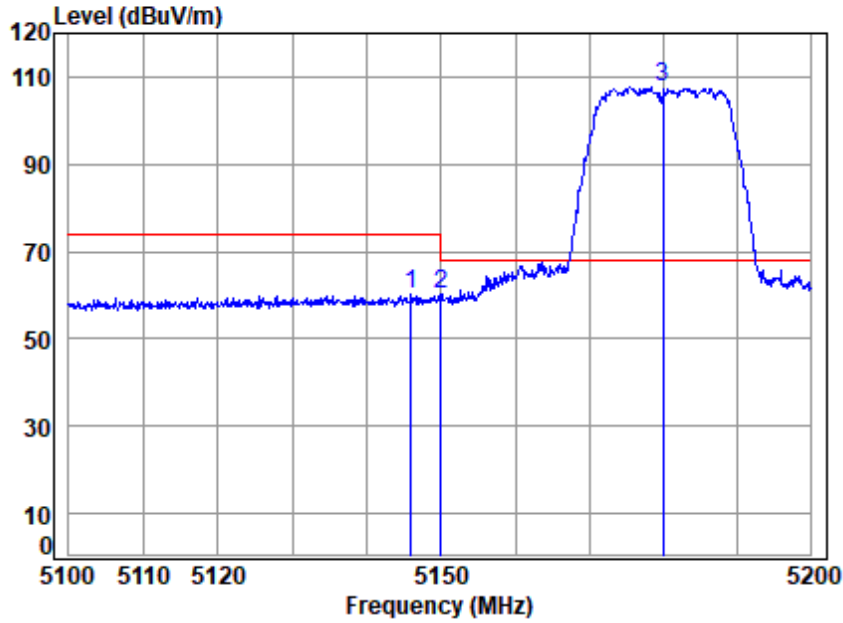


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5180 Band edge  
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5145.459	7.56	34.32	42.32	47.87	47.43	54.00	-6.57 Average
2	5149.980	7.57	34.32	42.32	47.73	47.30	54.00	-6.70 Average
3	5180.000	7.63	34.35	42.32	93.04	92.70	-----	----- Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5180 Band edge  
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5145.958	7.57	34.32	42.32	60.56	60.13	74.00	-13.87	peak
2	5149.980	7.57	34.32	42.32	60.76	60.33	74.00	-13.67	peak
3 *	5180.000	7.63	34.35	42.32	108.04	107.70	68.20	39.50	peak

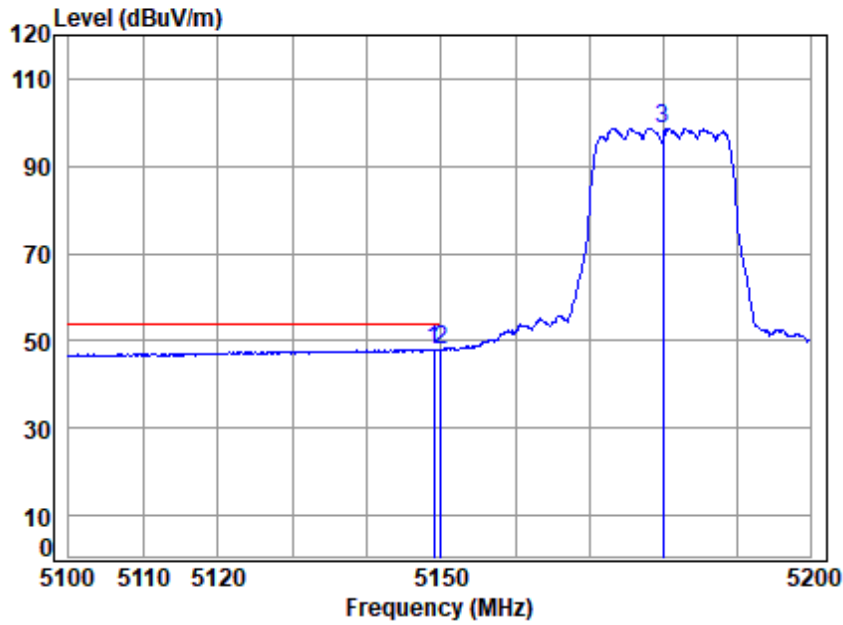


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

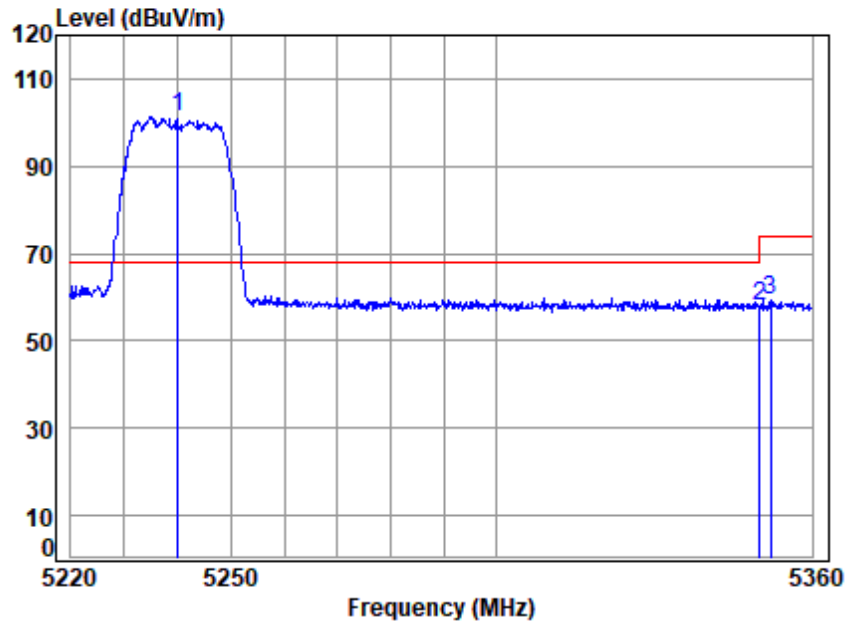


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5180 Band edge  
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.958	7.57	34.32	42.32	48.56	48.13	54.00	-5.87	Average
2	5149.980	7.57	34.32	42.32	48.45	48.02	54.00	-5.98	Average
3	5180.000	7.63	34.35	42.32	99.12	98.78	-----	-----	Average



Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

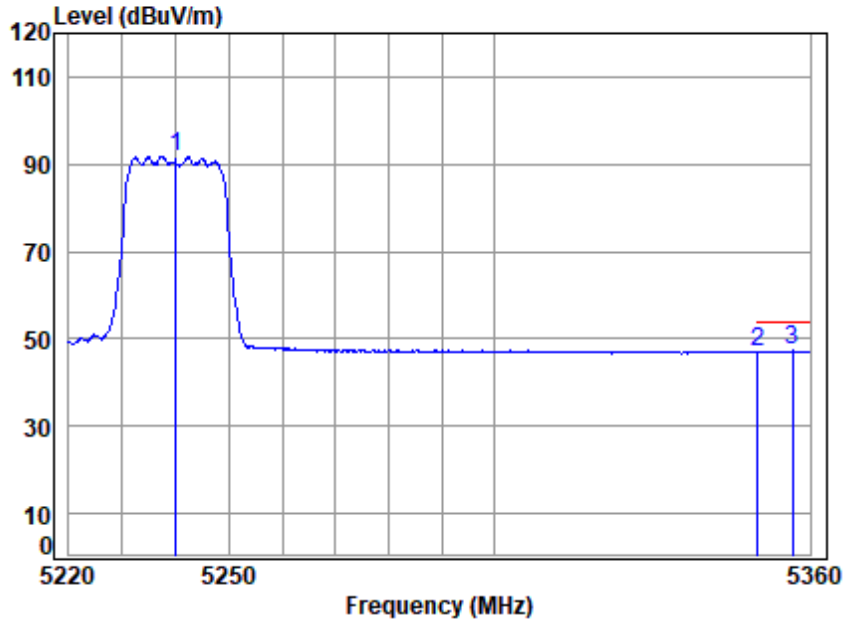


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5240 Band edge  
: 5G WIFI 11AC20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5240.000	7.73	34.40	42.33	101.59	101.39	68.20	33.19	peak
2 5350.020	7.92	34.48	42.34	57.89	57.95	74.00	-16.05	peak
3 5352.062	7.93	34.49	42.34	59.15	59.23	74.00	-14.77	peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

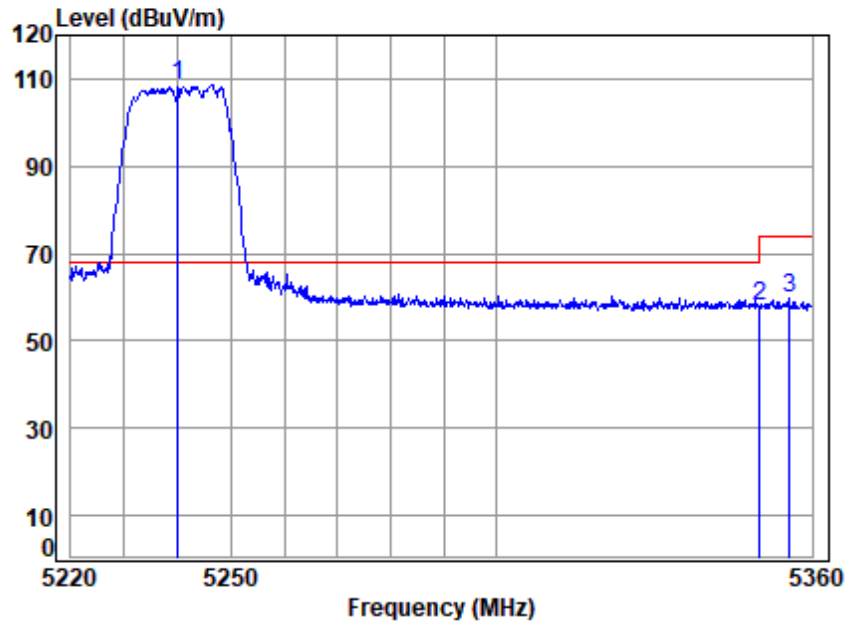


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5240 Band edge  
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	7.73	34.40	42.33	92.12	91.92	-----	----- Average
2	5350.020	7.92	34.48	42.34	46.98	47.04	54.00	-6.96 Average
3	5356.596	7.94	34.49	42.34	47.25	47.34	54.00	-6.66 Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

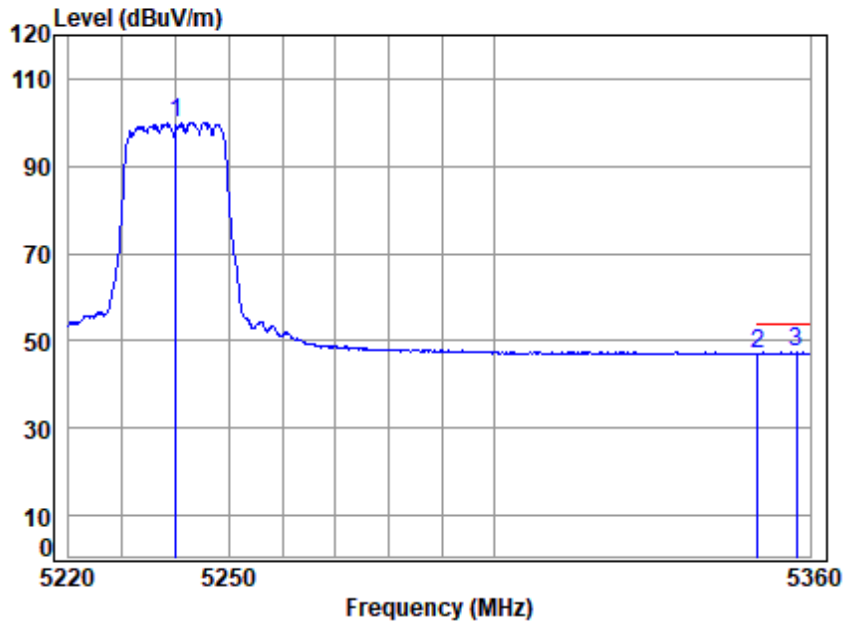


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5240 Band edge  
: 5G WIFI 11AC20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5240.000	7.73	34.40	42.33	108.97	108.77	68.20	40.57	peak
2 5350.020	7.92	34.48	42.34	57.98	58.04	74.00	-15.96	peak
3 5355.604	7.93	34.49	42.34	59.68	59.76	74.00	-14.24	peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

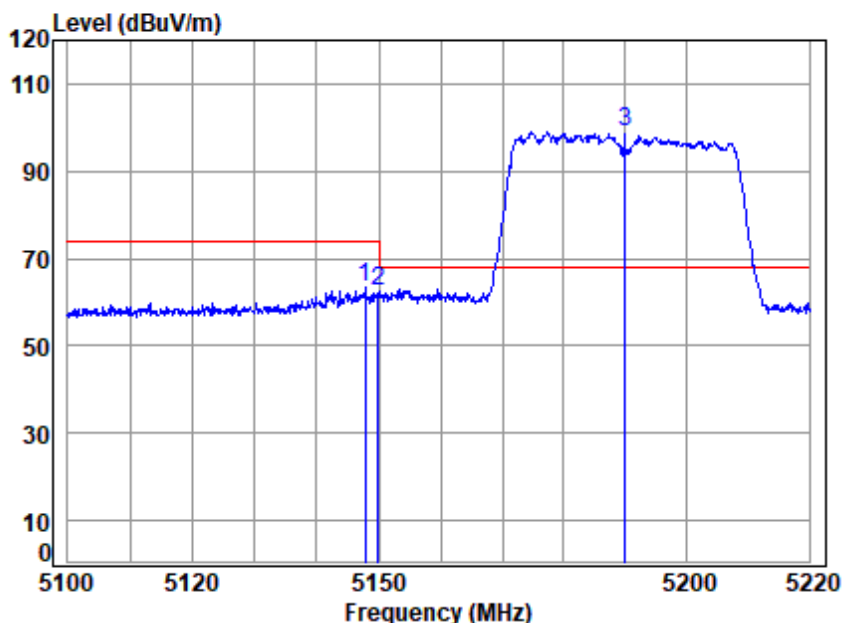


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5240 Band edge  
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	7.73	34.40	42.33	100.22	100.02	-----	-----	Average
2	5350.020	7.92	34.48	42.34	47.07	47.13	54.00	-6.87	Average
3	5357.447	7.94	34.49	42.34	47.24	47.33	54.00	-6.67	Average



Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

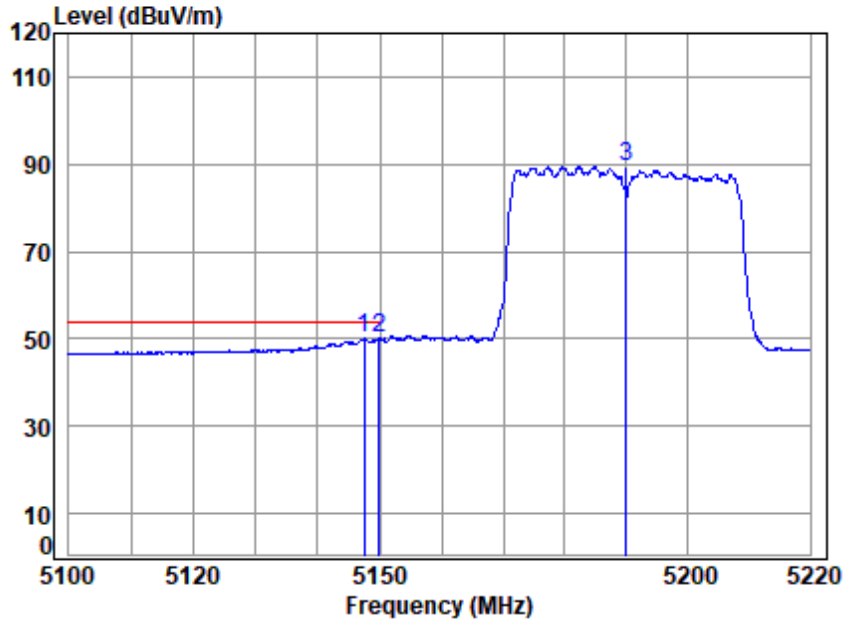


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5190 Band edge  
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5147.785	7.57	34.32	42.32	63.88	63.45	74.00	-10.55 peak
2	5149.980	7.57	34.32	42.32	63.10	62.67	74.00	-11.33 peak
3 *	5190.000	7.64	34.36	42.32	99.19	98.87	68.20	30.67 peak



Test Mode: 03; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low

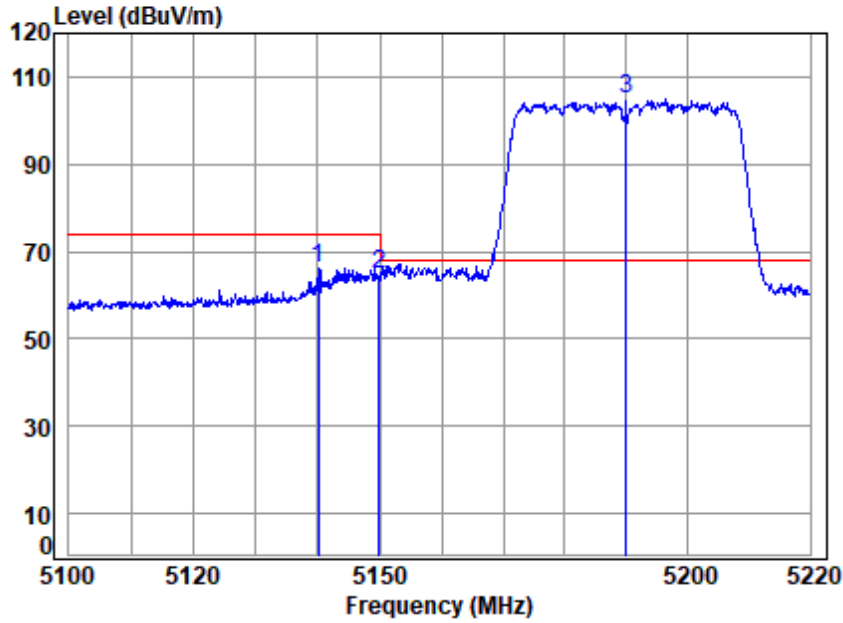


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5190 Band edge  
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5147.545	7.57	34.32	42.32	50.45	50.02	54.00	-3.98 Average
2	5149.980	7.57	34.32	42.32	50.61	50.18	54.00	-3.82 Average
3	5190.000	7.64	34.36	42.32	89.78	89.46	-----	----- Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

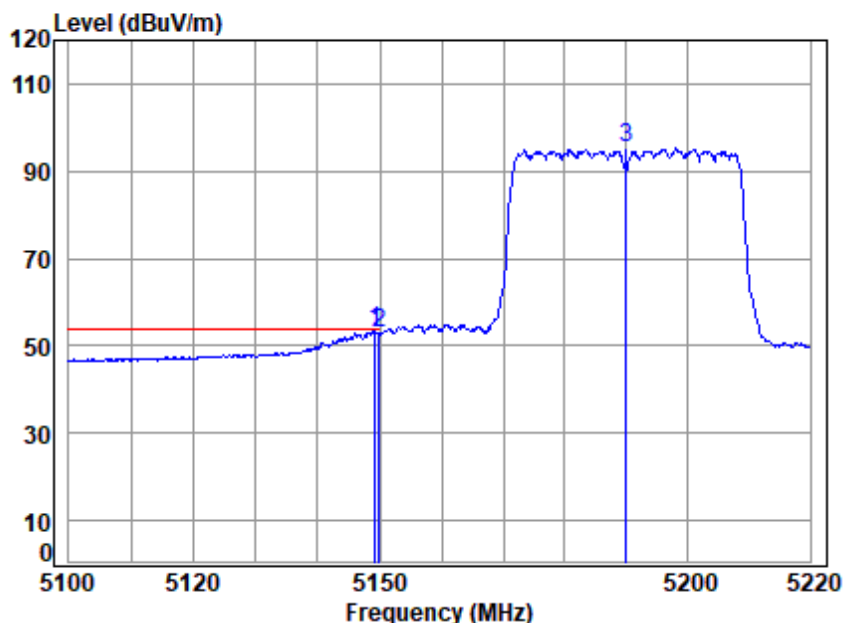


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5190 Band edge  
: 5G WIFI 11AC40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5140.128	7.56	34.32	42.32	66.47	66.03	74.00	-7.97 peak
2 5149.980	7.57	34.32	42.32	65.04	64.61	74.00	-9.39 peak
3 * 5190.000	7.64	34.36	42.32	105.04	104.72	68.20	36.52 peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

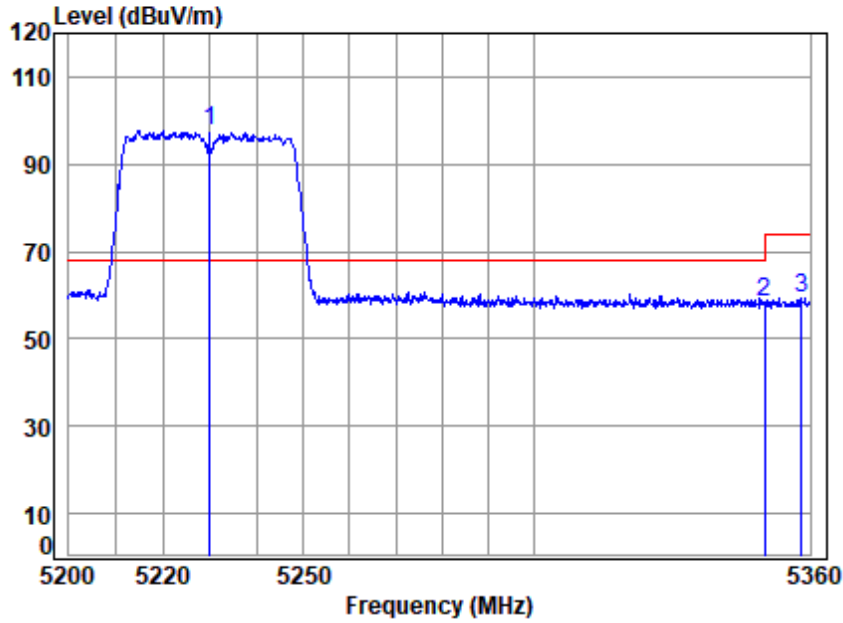


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5190 Band edge  
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.342	7.57	34.32	42.32	53.71	53.28	54.00	-0.72 Average
2	5149.980	7.57	34.32	42.32	53.37	52.94	54.00	-1.06 Average
3	5190.000	7.64	34.36	42.32	95.73	95.41	-----	----- Average



Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

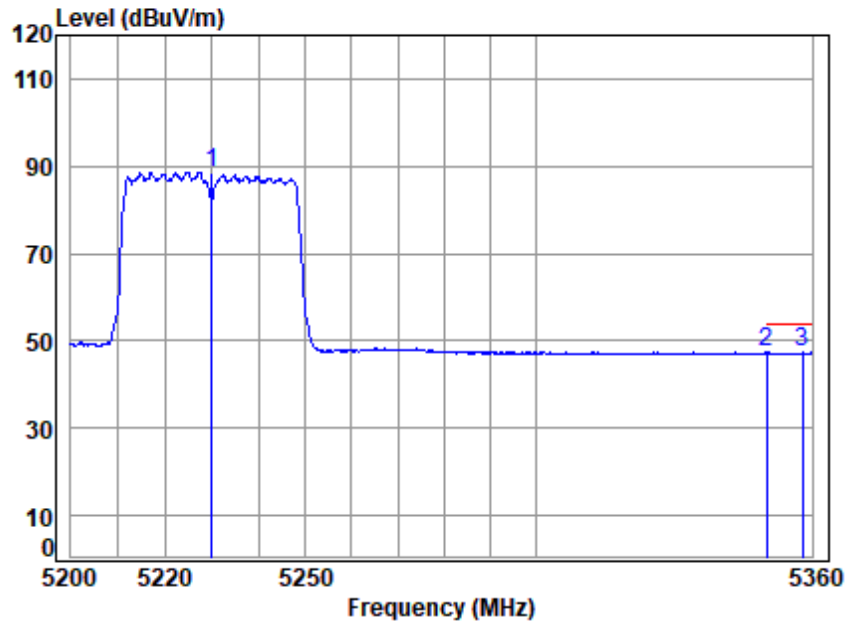


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5230 Band edge  
: 5G WIFI 11AC40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5230.000	7.72	34.39	42.32	97.75	97.54	68.20	29.34	peak
2 5350.020	7.92	34.48	42.34	58.55	58.61	74.00	-15.39	peak
3 5358.213	7.94	34.49	42.34	59.43	59.52	74.00	-14.48	peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

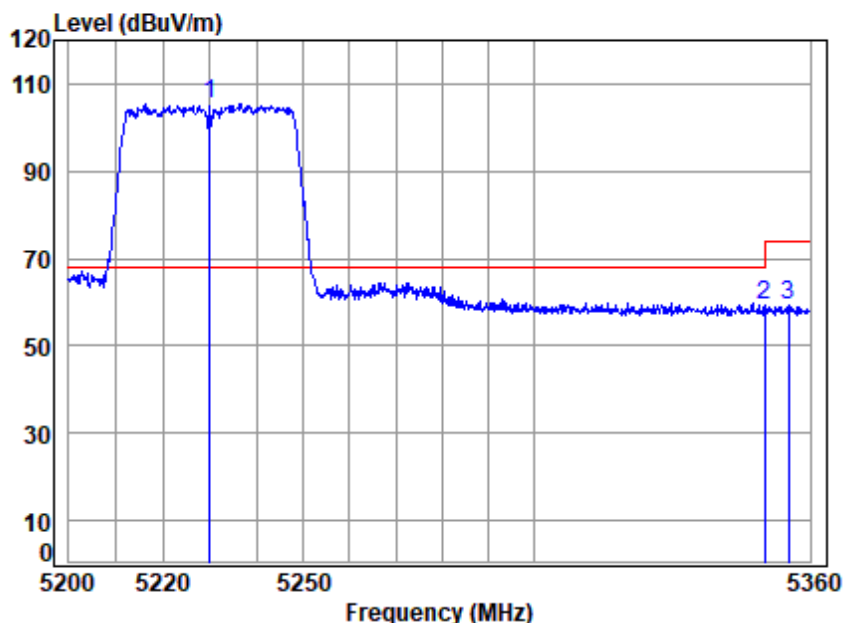


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5230 Band edge  
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5230.000	7.72	34.39	42.32	88.87	88.66	-----	-----	Average
2	5350.020	7.92	34.48	42.34	47.25	47.31	54.00	-6.69	Average
3	5357.889	7.94	34.49	42.34	47.26	47.35	54.00	-6.65	Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

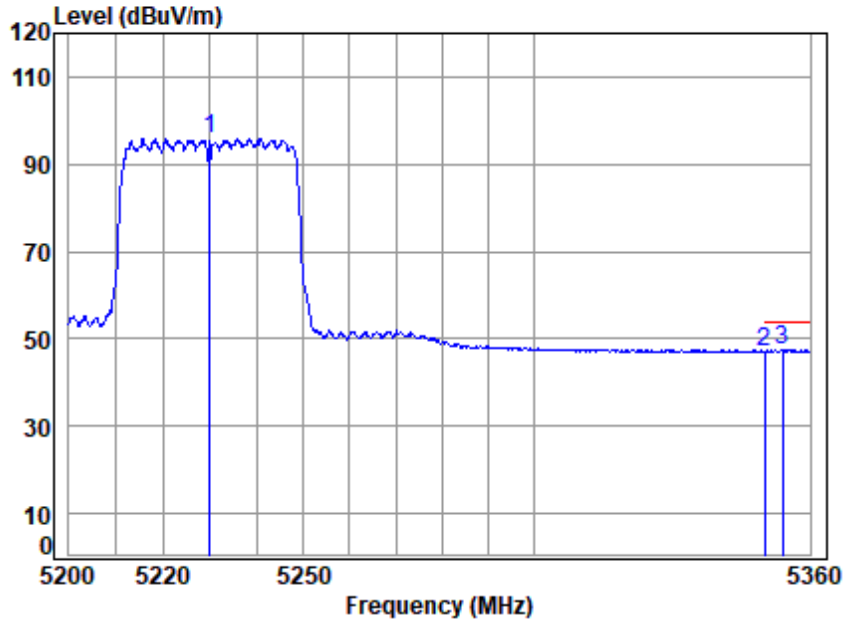


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5230 Band edge  
: 5G WIFI 11AC40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5230.000	7.72	34.39	42.32	105.69	105.48	68.20	37.28	peak
2 5350.020	7.92	34.48	42.34	59.15	59.21	74.00	-14.79	peak
3 5355.292	7.93	34.49	42.34	59.15	59.23	74.00	-14.77	peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

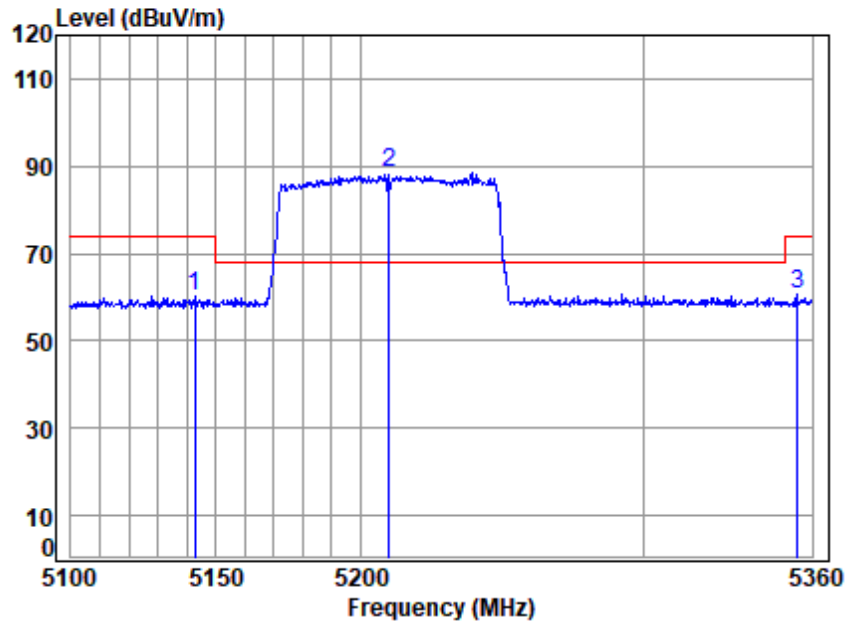


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5230 Band edge  
: 5G WIFI 11AC40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5230.000	7.72	34.39	42.32	96.03	95.82	-----	-----	Average
2 5350.020	7.92	34.48	42.34	47.15	47.21	54.00	-6.79	Average
3 5353.993	7.93	34.49	42.34	47.33	47.41	54.00	-6.59	Average



Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle

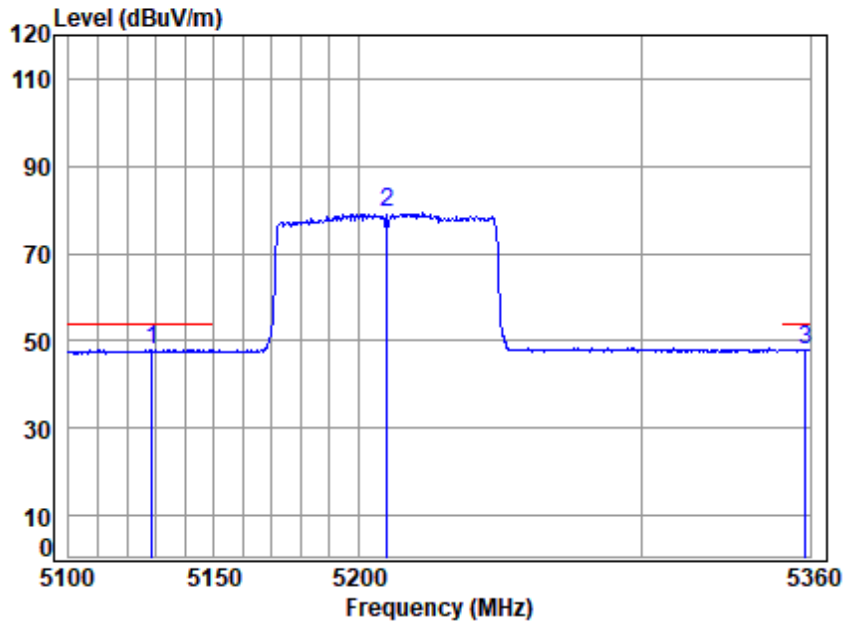


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5210 Band edge  
: 5G WIFI 11AC80

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5142.526	7.56	34.32	42.32	60.76	60.32	74.00	-13.68 peak
2 * 5210.000	7.68	34.37	42.32	88.62	88.35	68.20	20.15 peak
3 5354.672	7.93	34.49	42.34	60.82	60.90	74.00	-13.10 peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle

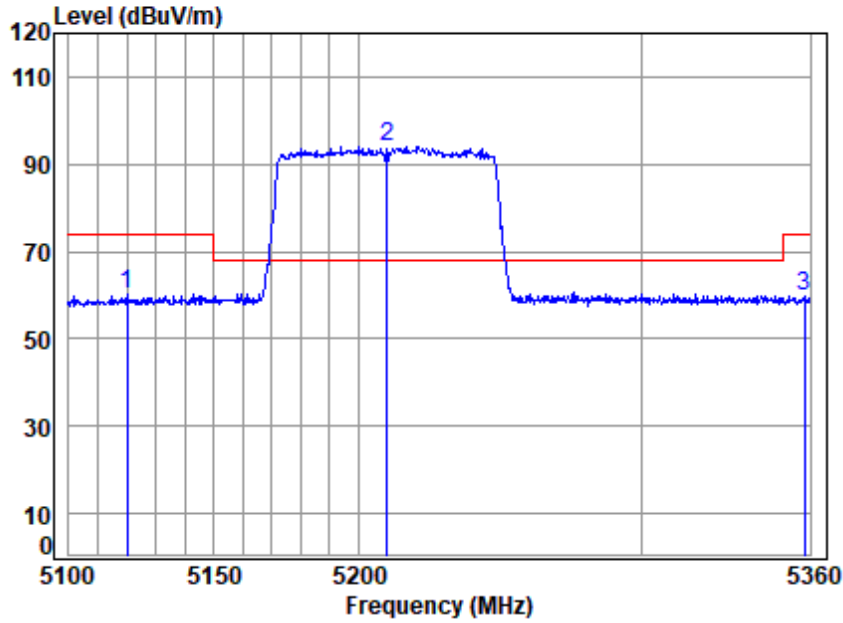


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5210 Band edge  
: 5G WIFI 11AC80

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5128.736	7.53	34.31	42.31	48.41	47.94	54.00	-6.06	Average
2 5210.000	7.68	34.37	42.32	79.50	79.23	-----	-----	Average
3 5358.401	7.94	34.49	42.34	48.03	48.12	54.00	-5.88	Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle

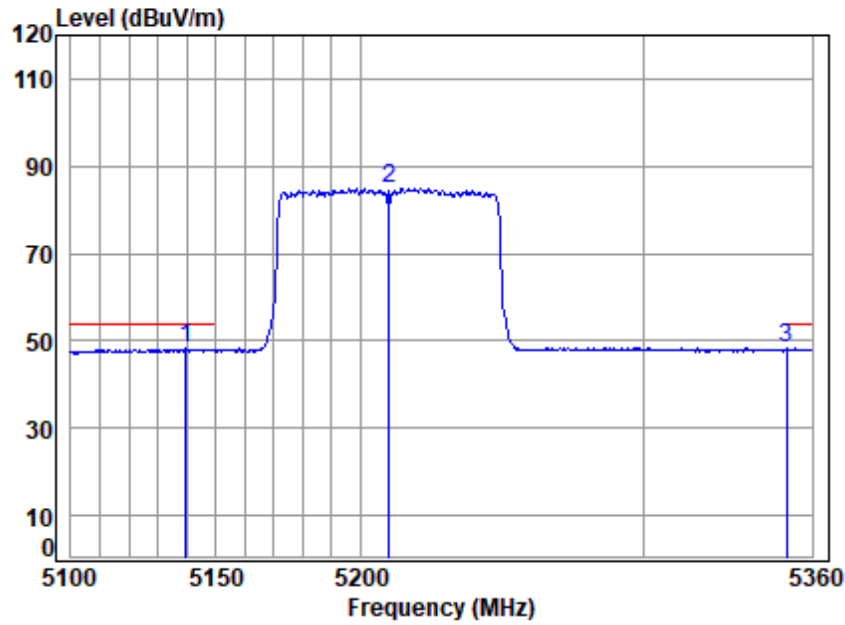


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5210 Band edge  
: 5G WIFI 11AC80

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5120.073	7.52	34.30	42.31	60.68	60.19	74.00	-13.81	Peak
2 * 5210.000	7.68	34.37	42.32	94.32	94.05	68.20	25.85	Peak
3 5357.868	7.94	34.49	42.34	59.54	59.63	74.00	-14.37	Peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle

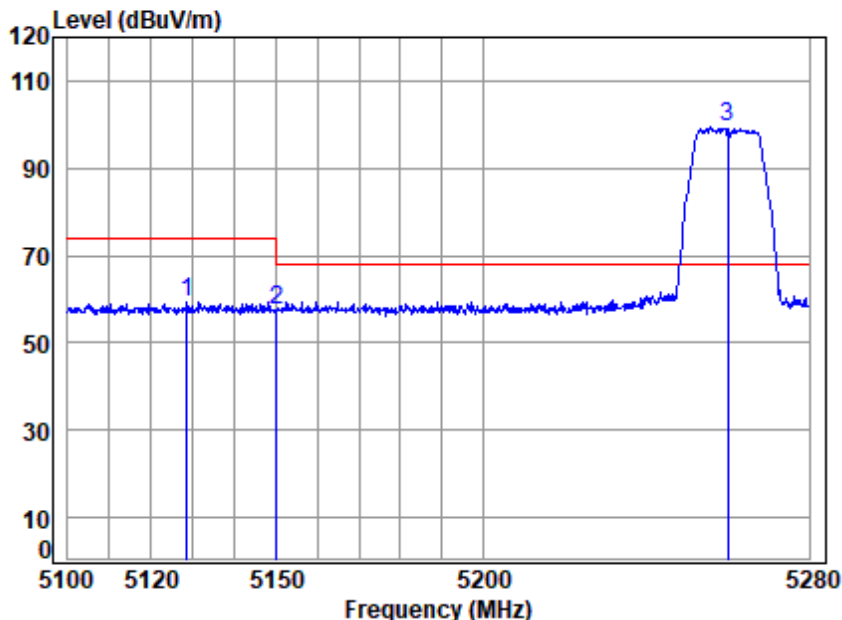


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5210 Band edge  
: 5G WIFI 11AC80

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5139.458	7.55	34.32	42.32	48.59	48.14	54.00	-5.86 Average
2 5210.000	7.68	34.37	42.32	85.14	84.87	-----	----- Average
3 5350.680	7.93	34.48	42.34	48.14	48.21	54.00	-5.79 Average



Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

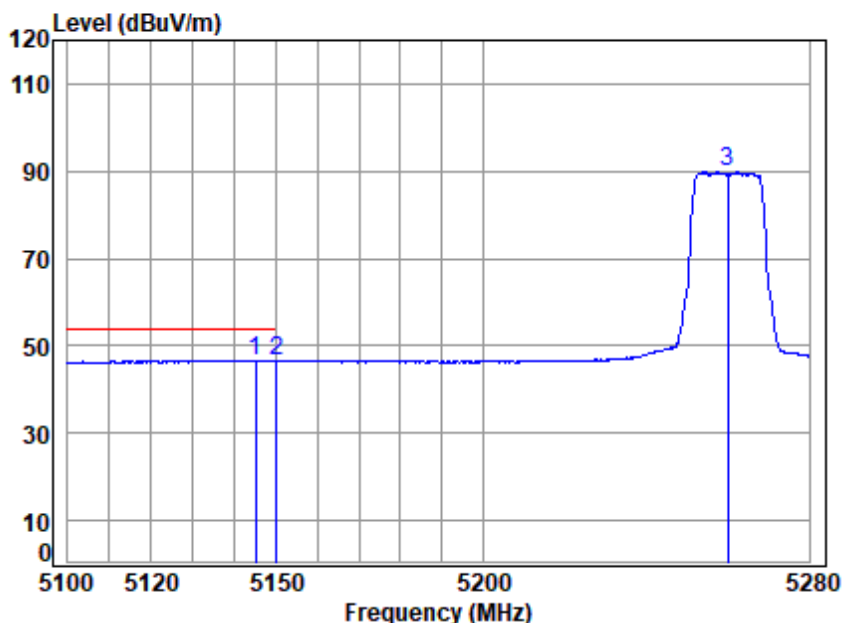


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5260 Band edge  
: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5128.560	7.53	34.31	42.31	59.94	59.47	74.00	-14.53	peak
2	5149.980	7.57	34.32	42.32	58.00	57.57	74.00	-16.43	peak
3 *	5260.000	7.77	34.41	42.33	99.46	99.31	68.20	31.11	peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

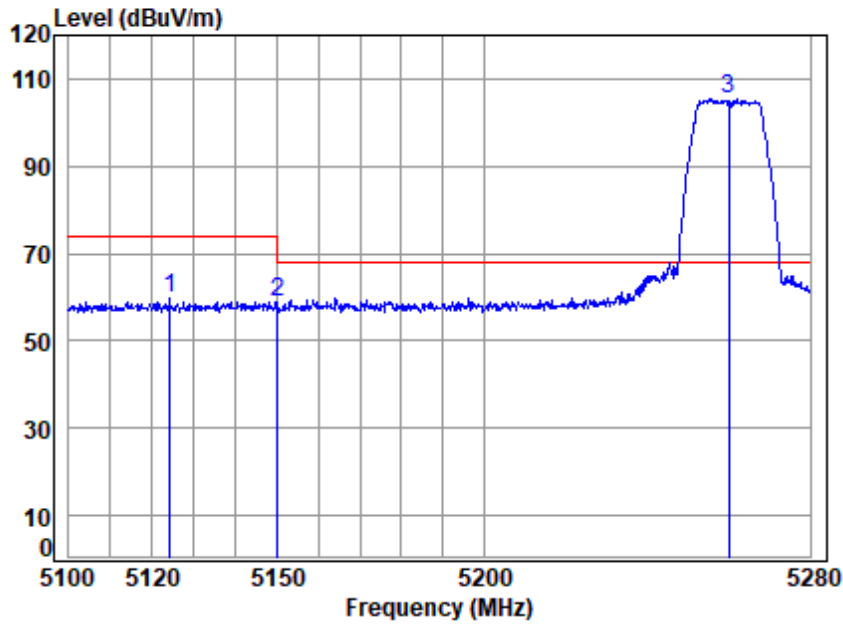


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5260 Band edge  
: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5144.952	7.56	34.32	42.32	47.05	46.61	54.00	-7.39	Average
2	5149.980	7.57	34.32	42.32	46.94	46.51	54.00	-7.49	Average
3	5260.000	7.77	34.41	42.33	90.03	89.88	-----	-----	Average



Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

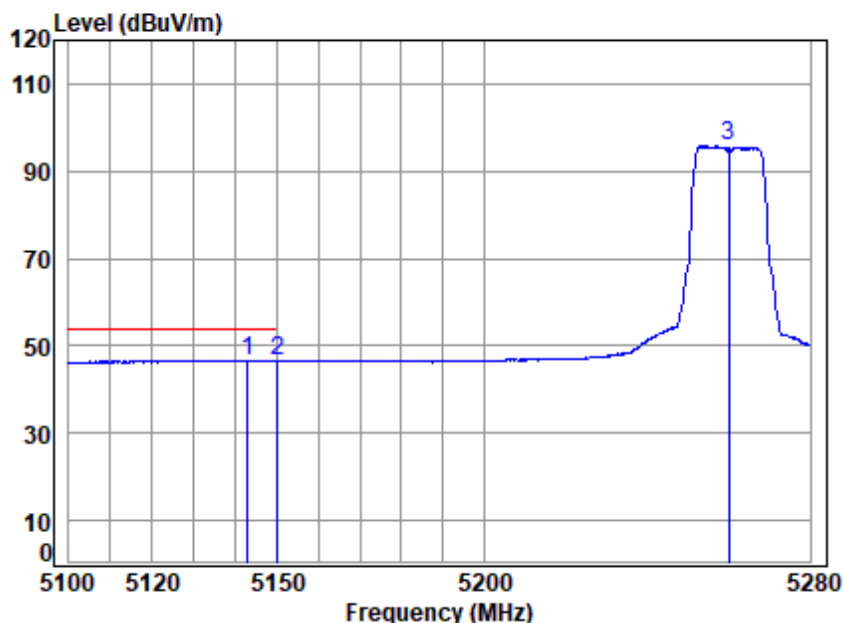


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5260 Band edge  
: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5124.115	7.53	34.30	42.31	60.25	59.77	74.00	-14.23	peak
2	5149.980	7.57	34.32	42.32	59.27	58.84	74.00	-15.16	peak
3 *	5260.000	7.77	34.41	42.33	105.77	105.62	68.20	37.42	peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

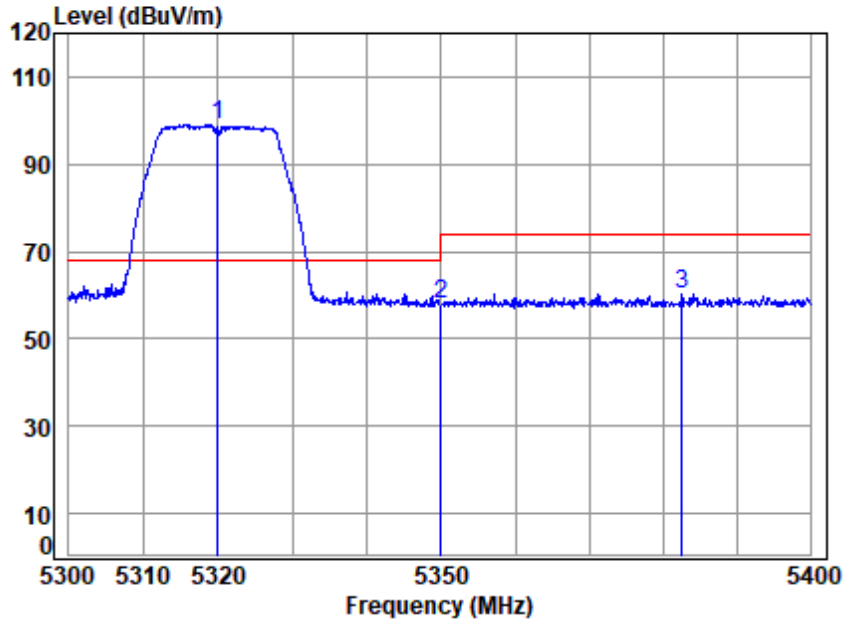


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5260 Band edge  
: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5142.811	7.56	34.32	42.32	47.12	46.68	54.00	-7.32	Average
2	5149.980	7.57	34.32	42.32	46.96	46.53	54.00	-7.47	Average
3	5260.000	7.77	34.41	42.33	95.83	95.68	-----	-----	Average



Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High

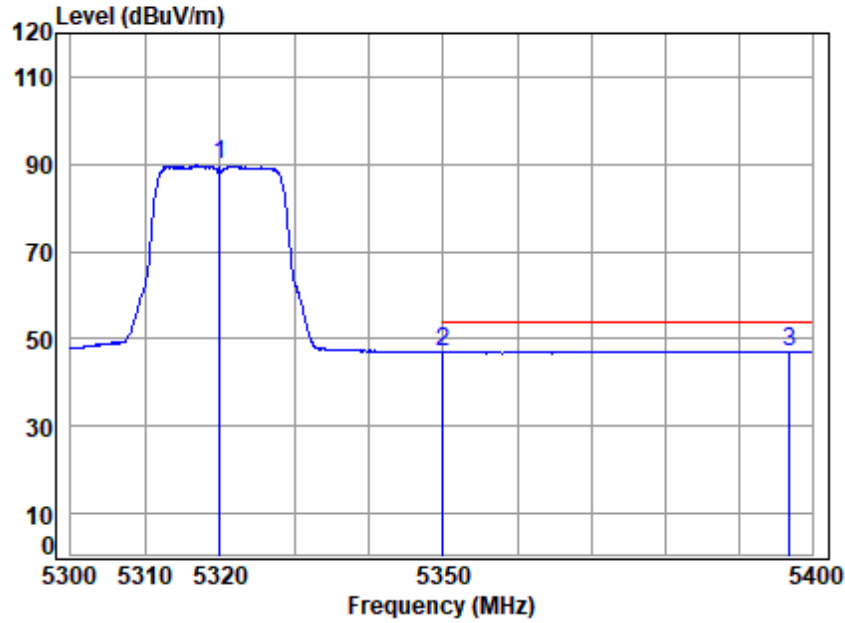


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5320 Band edge  
: 5G WIFI 11A

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5320.000	7.87	34.46	42.33	99.11	99.11	68.20	30.91	peak
2 5350.020	7.92	34.48	42.34	57.80	57.86	74.00	-16.14	peak
3 5382.566	7.98	34.51	42.34	60.25	60.40	74.00	-13.60	peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High

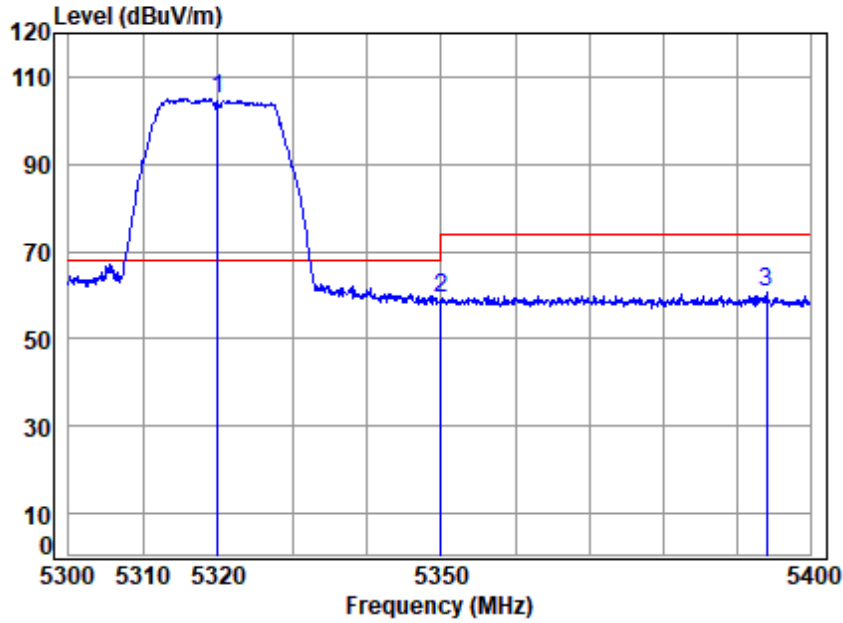


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5320 Band edge  
: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	7.87	34.46	42.33	89.79	89.79	-----	-----	Average
2	5350.020	7.92	34.48	42.34	46.84	46.90	54.00	-7.10	Average
3	5396.872	8.01	34.52	42.34	46.96	47.15	54.00	-6.85	Average



Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5320 Band edge  
: 5G WIFI 11A

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5320.000	7.87	34.46	42.33	104.99	104.99	68.20	36.79	peak
2 5350.020	7.92	34.48	42.34	59.03	59.09	74.00	-14.91	peak
3 5394.048	8.00	34.52	42.34	60.29	60.47	74.00	-13.53	peak

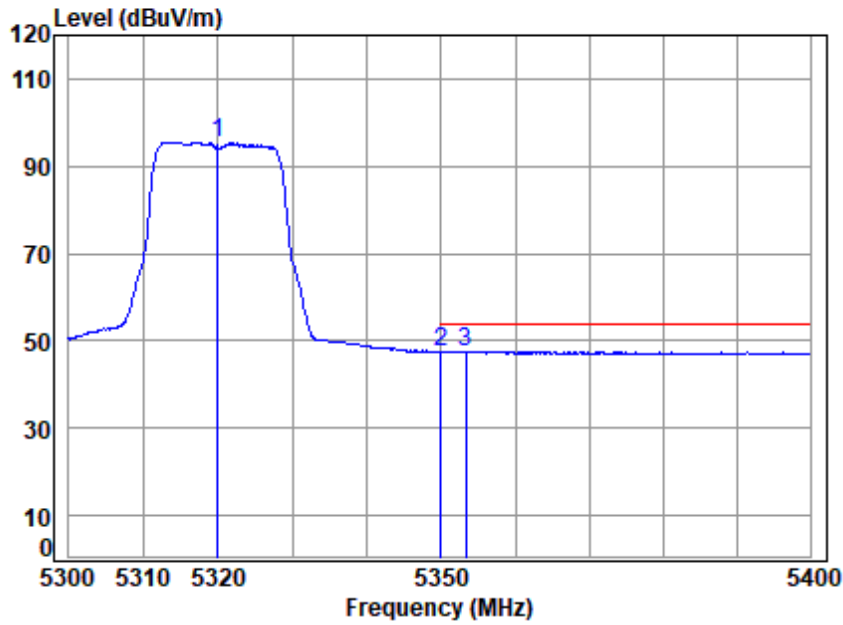


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
Attention: To check the authenticity of testing / inspection report and certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

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

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

Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



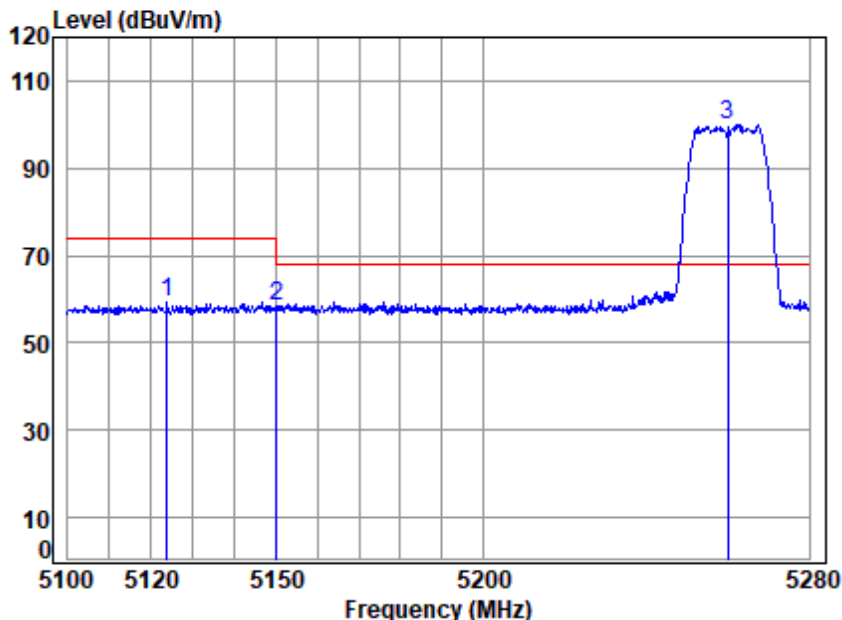
Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5320 Band edge  
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5320.000	7.87	34.46	42.33	95.56	95.56	-----	Average
2	5350.020	7.92	34.48	42.34	47.54	47.60	54.00	-6.40 Average
3	5353.268	7.93	34.49	42.34	47.47	47.55	54.00	-6.45 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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

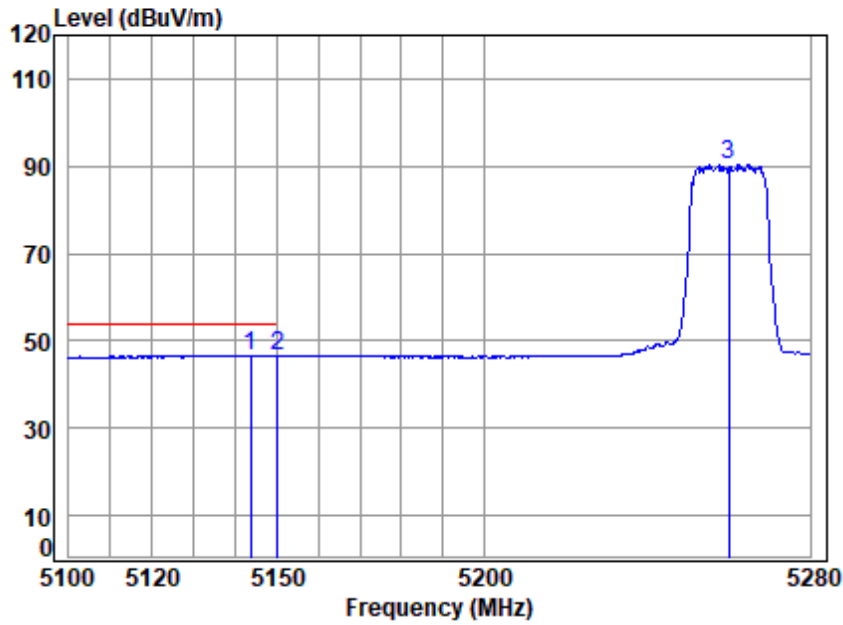


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5260 Band edge  
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5123.759	7.53	34.30	42.31	59.97	59.49	74.00	-14.51 peak
2	5149.980	7.57	34.32	42.32	58.97	58.54	74.00	-15.46 peak
3 *	5260.000	7.77	34.41	42.33	100.00	99.85	68.20	31.65 peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

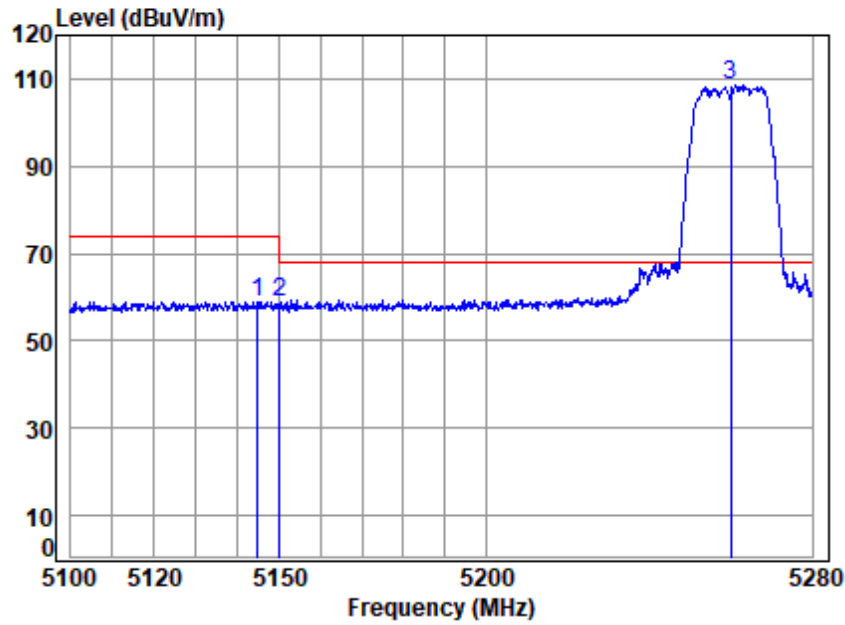


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5260 Band edge  
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5143.524	7.56	34.32	42.32	47.05	46.61	54.00	-7.39	Average
2	5149.980	7.57	34.32	42.32	46.95	46.52	54.00	-7.48	Average
3	5260.000	7.77	34.41	42.33	90.70	90.55	-----	-----	Average



Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

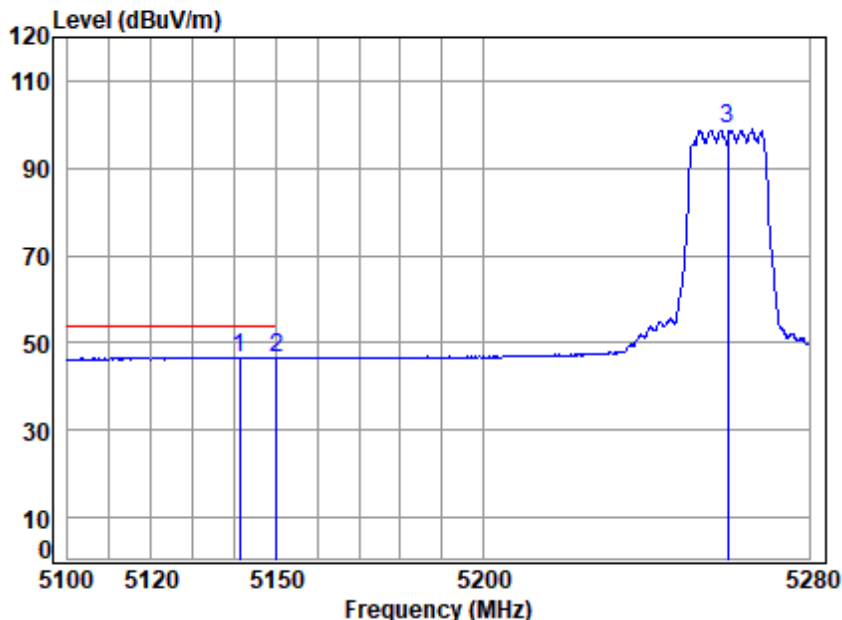


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5260 Band edge  
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5144.773	7.56	34.32	42.32	59.43	58.99	74.00	-15.01	peak
2	5149.980	7.57	34.32	42.32	59.27	58.84	74.00	-15.16	peak
3 *	5260.000	7.77	34.41	42.33	108.80	108.65	68.20	40.45	peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

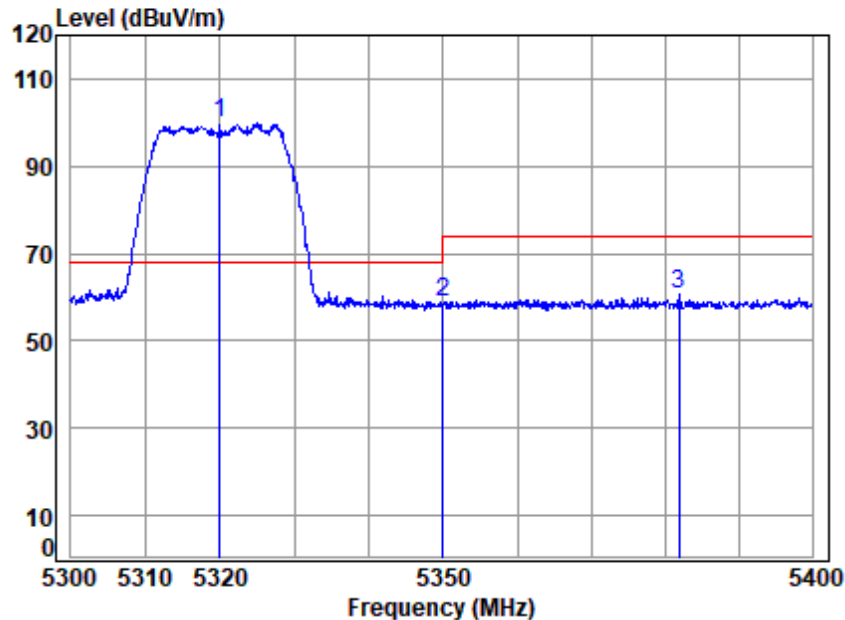


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5260 Band edge  
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5141.206	7.56	34.32	42.32	47.11	46.67	54.00	-7.33 Average
2	5149.980	7.57	34.32	42.32	46.99	46.56	54.00	-7.44 Average
3	5260.000	7.77	34.41	42.33	98.94	98.79	-----	----- Average



Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

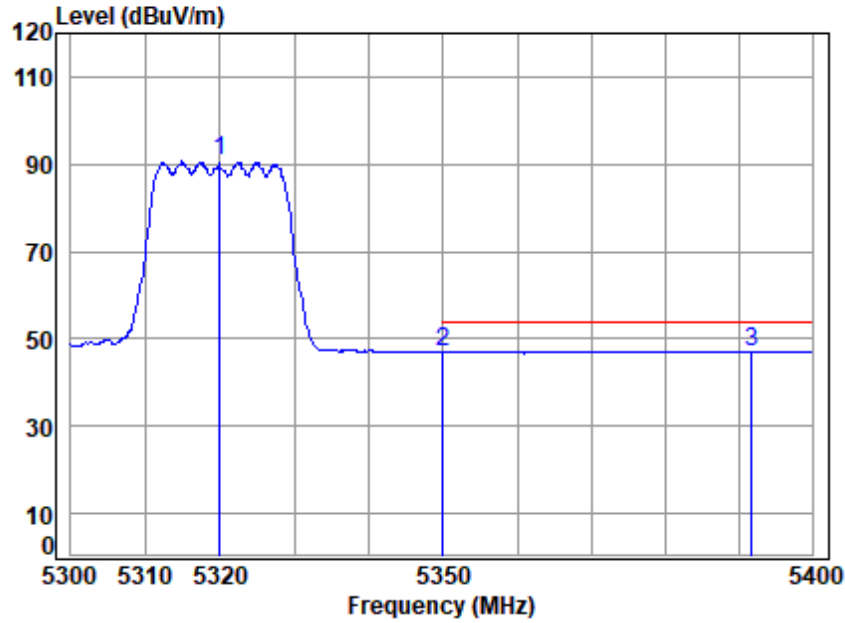


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5320 Band edge  
: 5G WIFI 11N20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5320.000	7.87	34.46	42.33	99.76	99.76	68.20	31.56	peak
2 5350.020	7.92	34.48	42.34	58.80	58.86	74.00	-15.14	peak
3 5381.862	7.98	34.51	42.34	60.37	60.52	74.00	-13.48	peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5320 Band edge  
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	7.87	34.46	42.33	90.61	90.61	-----	-----	Average
2	5350.020	7.92	34.48	42.34	46.88	46.94	54.00	-7.06	Average
3	5391.729	8.00	34.52	42.34	46.97	47.15	54.00	-6.85	Average

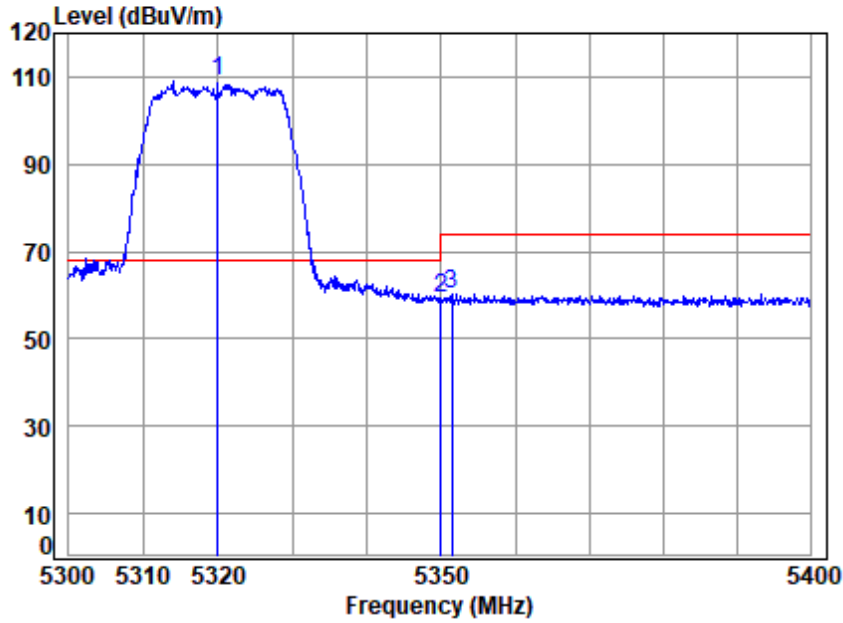


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
Attention: To check the authenticity of testing / inspection report and certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

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

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

Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5320 Band edge  
: 5G WIFI 11N20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5320.000	7.87	34.46	42.33	108.82	108.82	68.20	40.62	peak
2 5350.020	7.92	34.48	42.34	59.35	59.41	74.00	-14.59	peak
3 5351.467	7.93	34.49	42.34	60.22	60.30	74.00	-13.70	peak

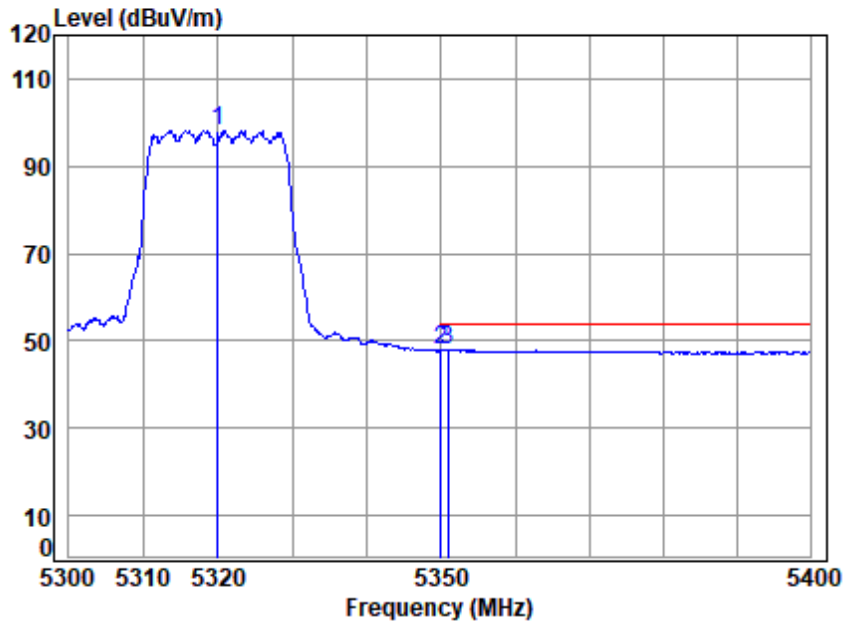


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

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

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

Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5320 Band edge  
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5320.000	7.87	34.46	42.33	98.18	98.18	-----	----- Average
2	5350.020	7.92	34.48	42.34	47.77	47.83	54.00	-6.17 Average
3	5350.866	7.93	34.48	42.34	47.97	48.04	54.00	-5.96 Average

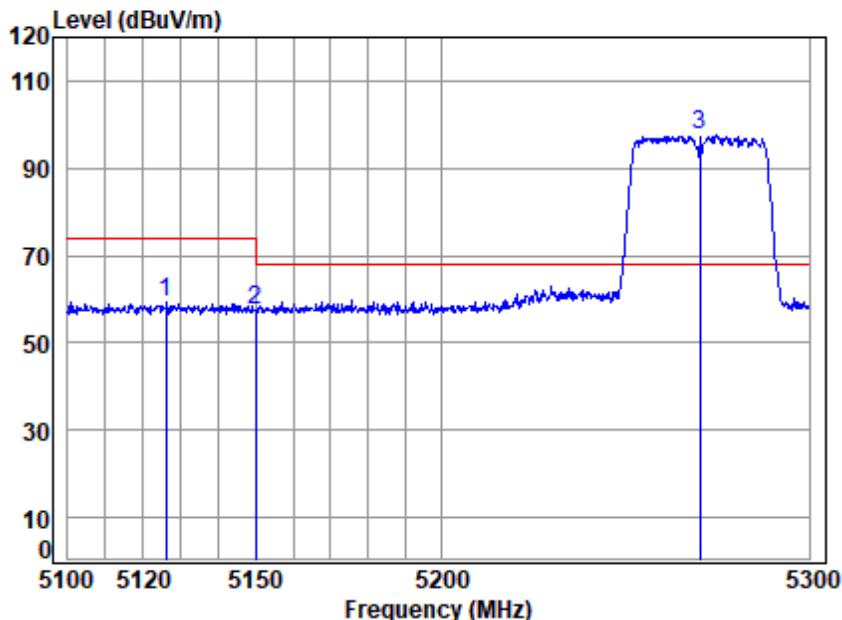


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
Attention: To check the authenticity of testing / inspection report and certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

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

Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

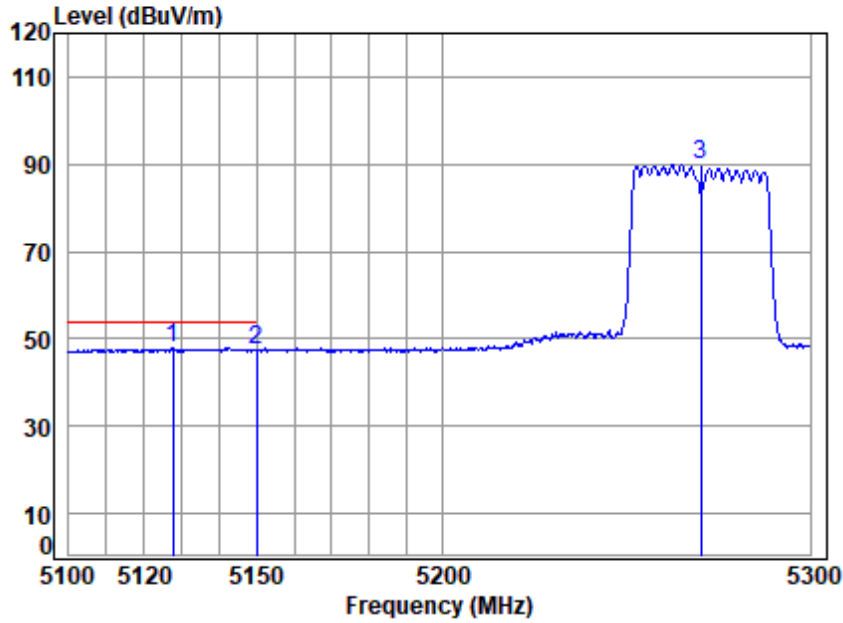


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5270 Band edge  
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5126.159	7.53	34.30	42.31	59.70	59.22	74.00	-14.78	peak
2	5149.980	7.57	34.32	42.32	58.13	57.70	74.00	-16.30	peak
3 *	5270.000	7.79	34.42	42.33	97.66	97.54	68.20	29.34	peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

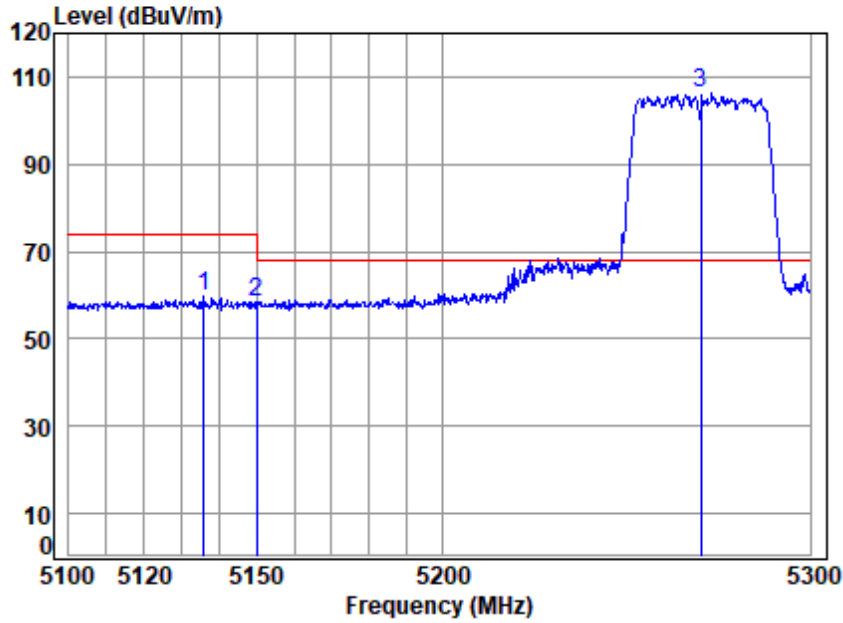


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5270 Band edge  
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5127.539	7.53	34.31	42.31	48.33	47.86	54.00	-6.14	Average
2	5149.980	7.57	34.32	42.32	47.79	47.36	54.00	-6.64	Average
3	5270.000	7.79	34.42	42.33	90.06	89.94	-----	-----	Average



Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

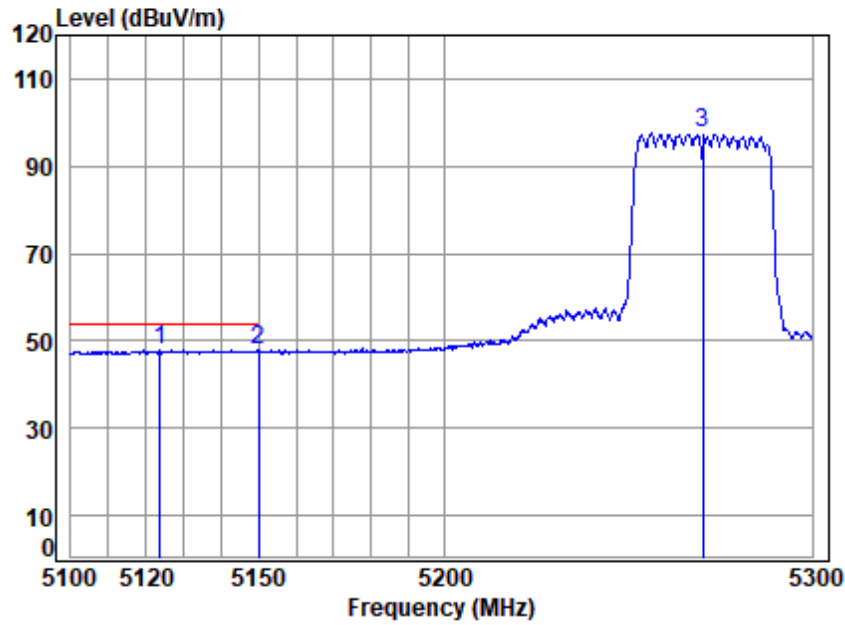


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5270 Band edge  
: 5G WIFI 11N40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5135.830	7.55	34.31	42.31	60.18	59.73	74.00	-14.27	peak
2 5149.980	7.57	34.32	42.32	58.89	58.46	74.00	-15.54	peak
3 * 5270.000	7.79	34.42	42.33	106.29	106.17	68.20	37.97	peak



Test Mode: 04; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 40MHz; Channel: Low

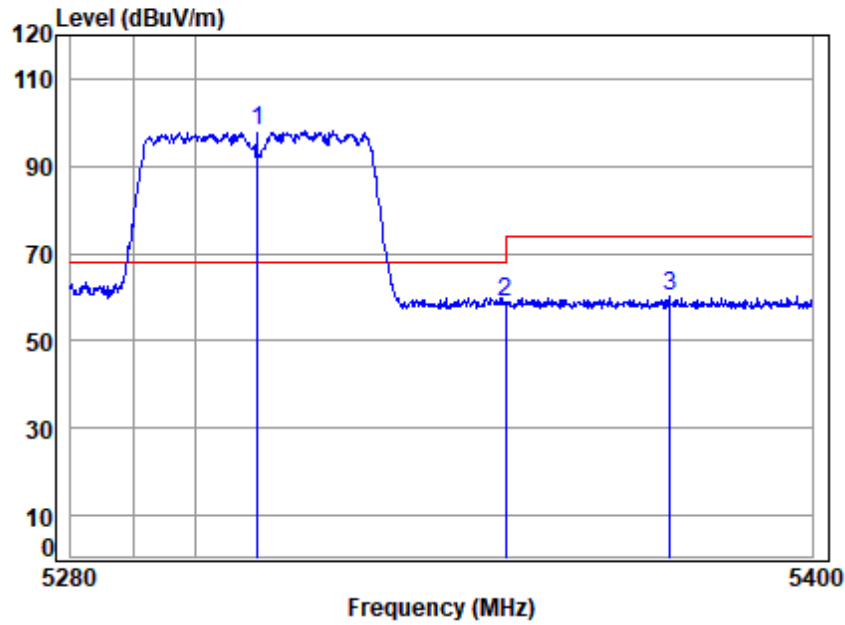


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5270 Band edge  
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5123.793	7.53	34.30	42.31	48.39	47.91	54.00	-6.09	Average
2	5149.980	7.57	34.32	42.32	48.27	47.84	54.00	-6.16	Average
3	5270.000	7.79	34.42	42.33	97.82	97.70	-----	-----	Average



Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High

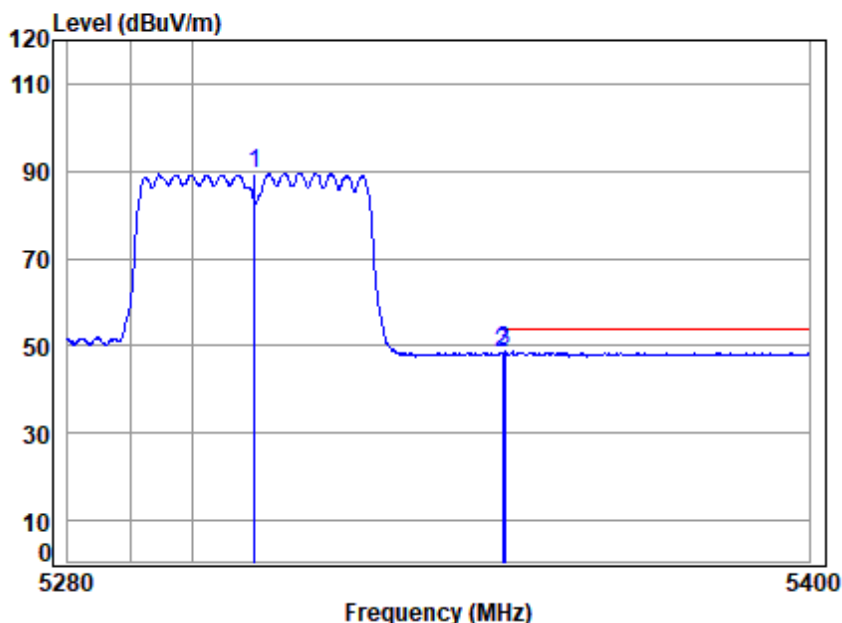


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5310 Band edge  
: 5G WIFI 11N40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5310.000	7.86	34.45	42.33	98.06	98.04	68.20	29.84	peak
2 5350.020	7.92	34.48	42.34	58.95	59.01	74.00	-14.99	peak
3 5376.750	7.97	34.50	42.34	60.23	60.36	74.00	-13.64	peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High

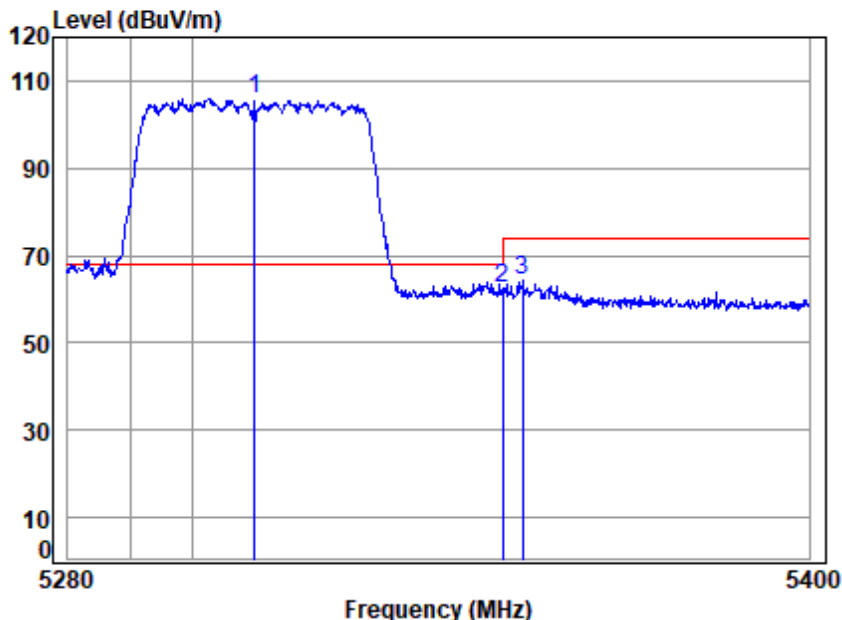


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5310 Band edge  
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5310.000	7.86	34.45	42.33	89.59	89.57	-----	----- Average
2	5350.020	7.92	34.48	42.34	48.28	48.34	54.00	-5.66 Average
3	5350.474	7.93	34.48	42.34	48.55	48.62	54.00	-5.38 Average



Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High

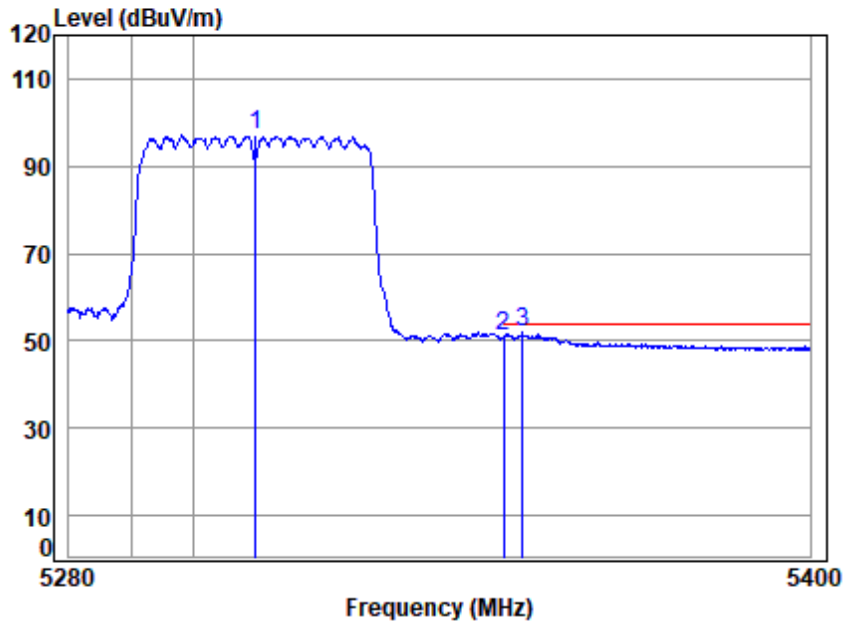


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5310 Band edge  
: 5G WIFI 11N40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5310.000	7.86	34.45	42.33	106.00	105.98	68.20	37.78	peak
2 5350.020	7.92	34.48	42.34	62.46	62.52	74.00	-11.48	peak
3 5353.360	7.93	34.49	42.34	64.13	64.21	74.00	-9.79	peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High

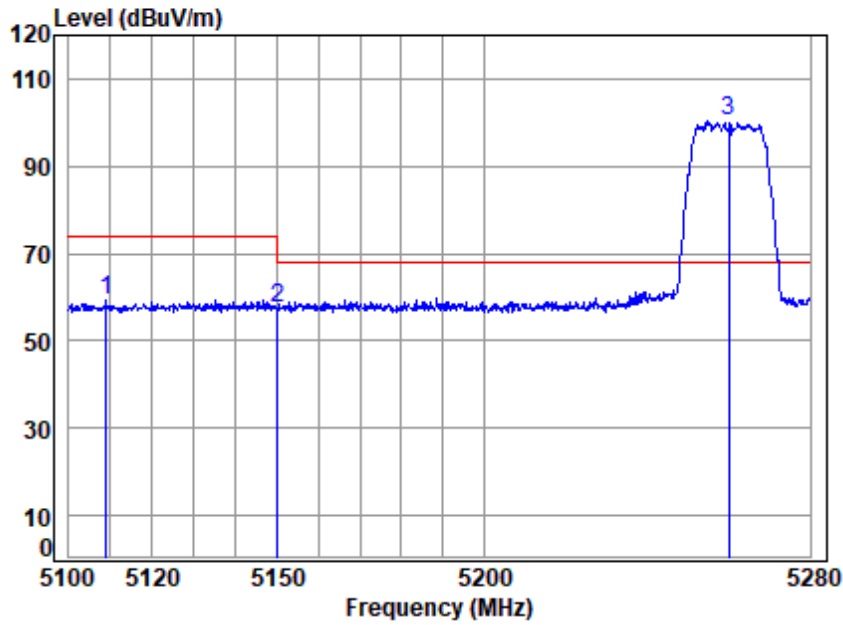


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5310 Band edge  
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5310.000	7.86	34.45	42.33	97.07	97.05	-----	-----	Average
2	5350.020	7.92	34.48	42.34	51.18	51.24	54.00	-2.76	Average
3	5353.120	7.93	34.49	42.34	51.81	51.89	54.00	-2.11	Average



Test Mode: 04; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low

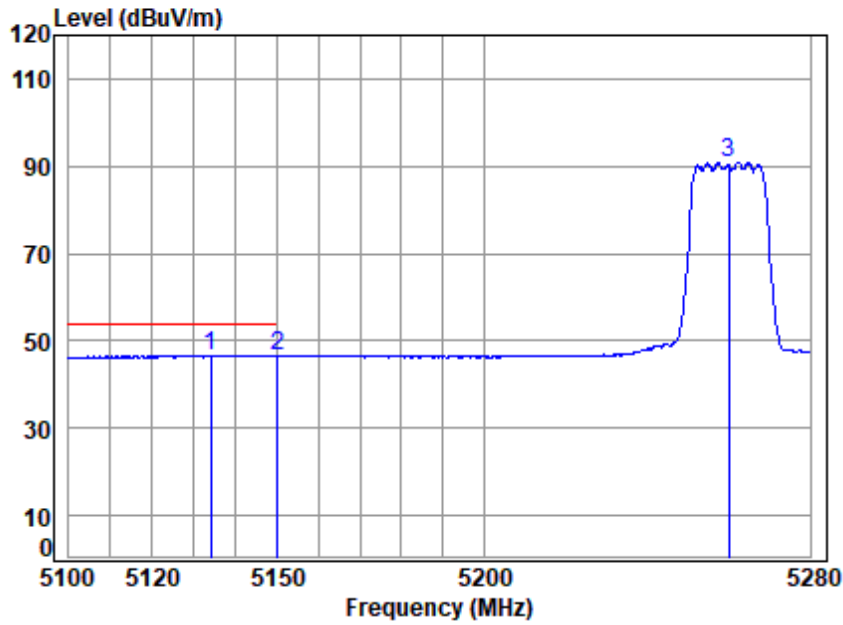


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5260 Band edge  
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5109.030	7.50	34.29	42.31	60.00	59.48	74.00	-14.52	peak
2	5149.980	7.57	34.32	42.32	58.09	57.66	74.00	-16.34	peak
3 *	5260.000	7.77	34.41	42.33	100.61	100.46	68.20	32.26	peak



Test Mode: 04; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low

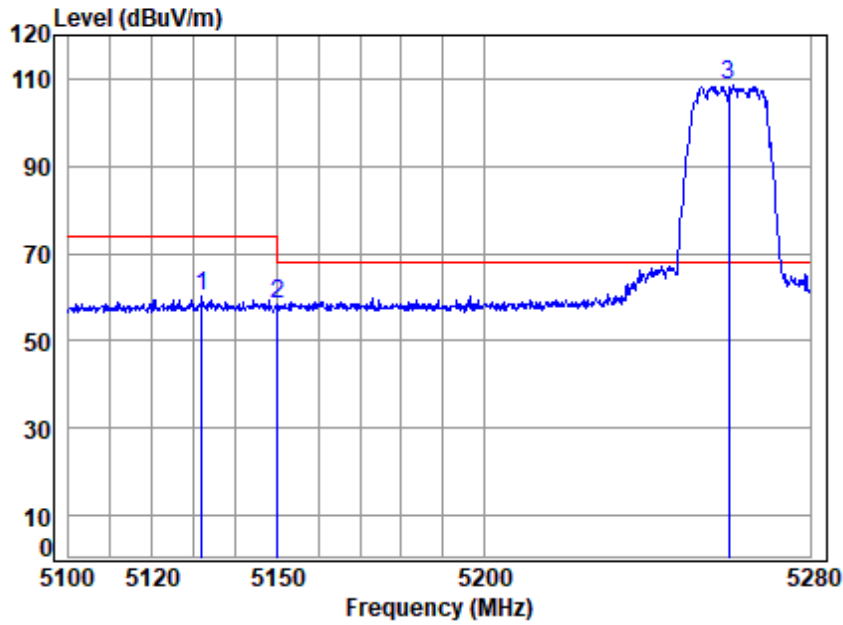


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5260 Band edge  
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5134.078	7.54	34.31	42.31	47.13	46.67	54.00	-7.33	Average
2	5149.980	7.57	34.32	42.32	46.98	46.55	54.00	-7.45	Average
3	5260.000	7.77	34.41	42.33	90.91	90.76	-----	-----	Average



Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

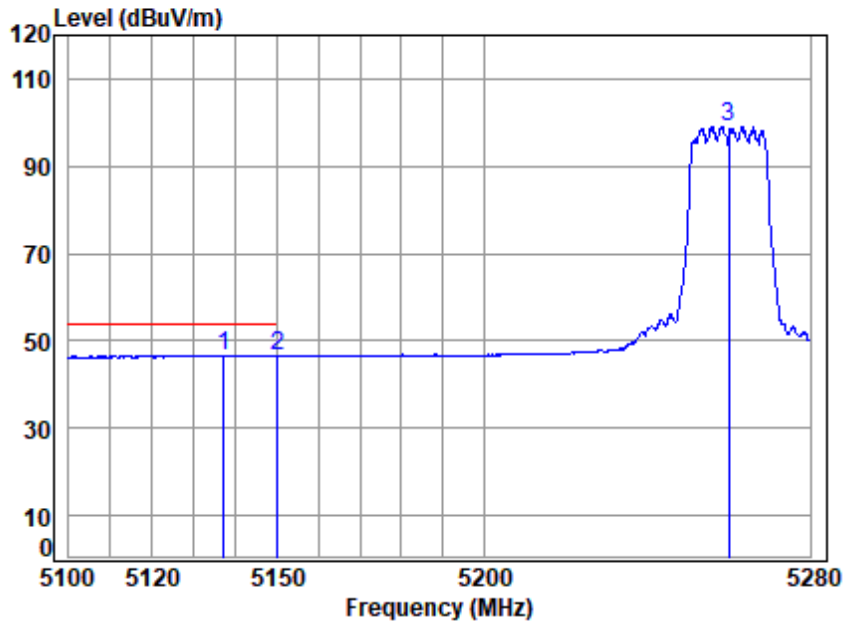


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5260 Band edge  
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5131.941	7.54	34.31	42.31	60.90	60.44	74.00	-13.56	peak
2	5149.980	7.57	34.32	42.32	59.05	58.62	74.00	-15.38	peak
3 *	5260.000	7.77	34.41	42.33	108.96	108.81	68.20	40.61	peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

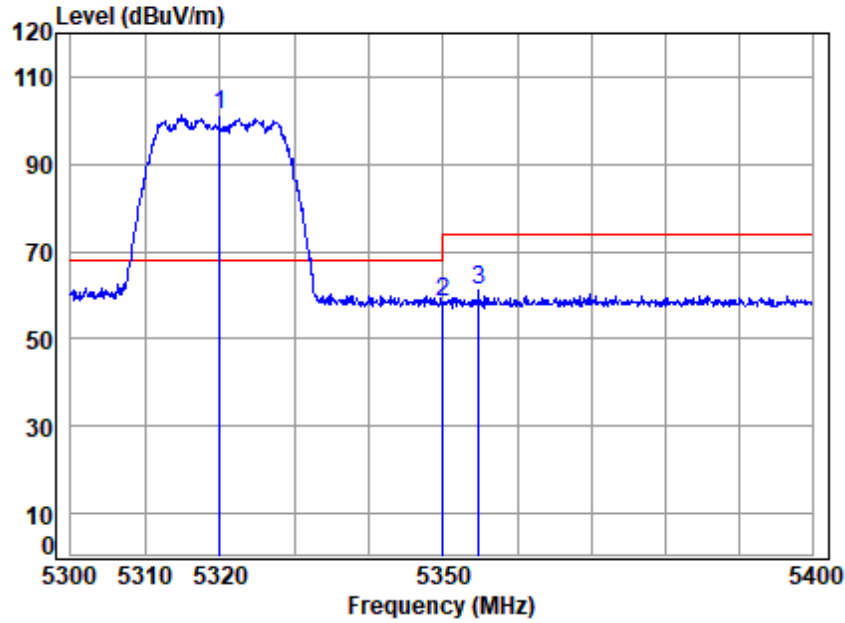


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5260 Band edge  
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5137.105	7.55	34.31	42.31	47.16	46.71	54.00	-7.29	Average
2	5149.980	7.57	34.32	42.32	47.01	46.58	54.00	-7.42	Average
3	5260.000	7.77	34.41	42.33	99.27	99.12	-----	-----	Average



Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5320 Band edge  
: 5G WIFI 11AC20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5320.000	7.87	34.46	42.33	101.13	101.13	68.20	32.93	peak
2 5350.020	7.92	34.48	42.34	58.46	58.52	74.00	-15.48	peak
3 5354.769	7.93	34.49	42.34	61.13	61.21	74.00	-12.79	peak

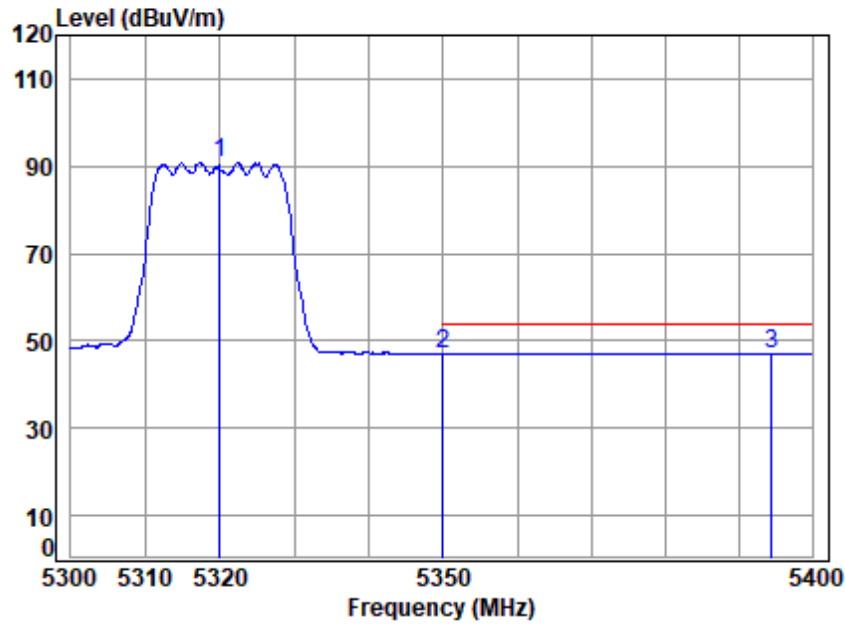


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

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

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

Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

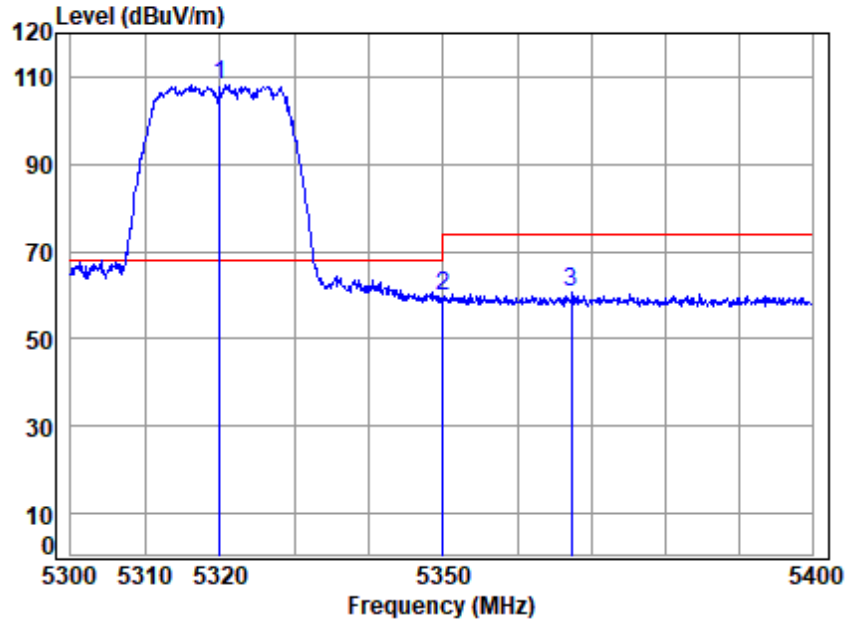


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5320 Band edge  
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5320.000	7.87	34.46	42.33	90.88	90.88	-----	----- Average
2	5350.020	7.92	34.48	42.34	46.93	46.99	54.00	-7.01 Average
3	5394.451	8.00	34.52	42.34	46.97	47.15	54.00	-6.85 Average



Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5320 Band edge  
: 5G WIFI 11AC20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5320.000	7.87	34.46	42.33	108.22	108.22	68.20	40.02	peak
2 5350.020	7.92	34.48	42.34	59.60	59.66	74.00	-14.34	peak
3 5367.395	7.95	34.50	42.34	60.46	60.57	74.00	-13.43	peak

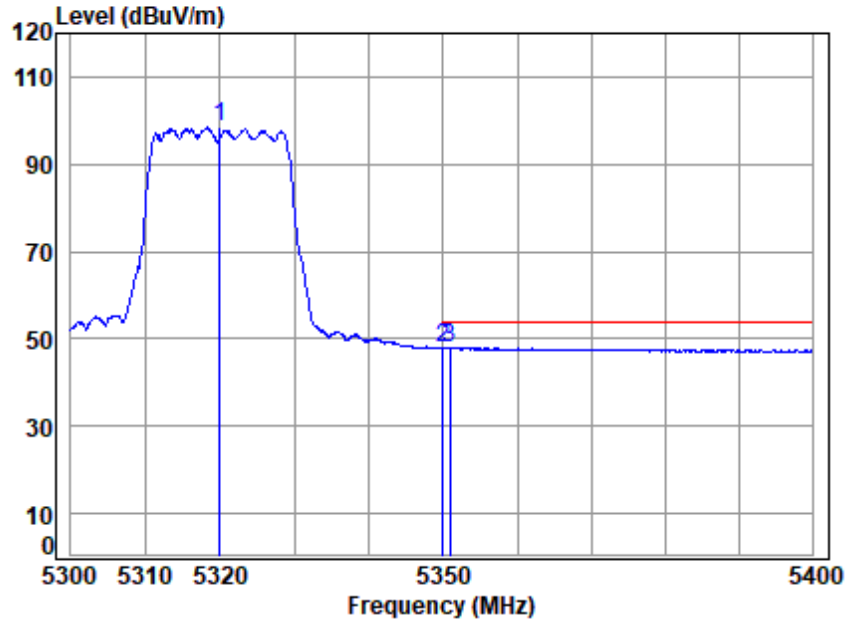


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

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

Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



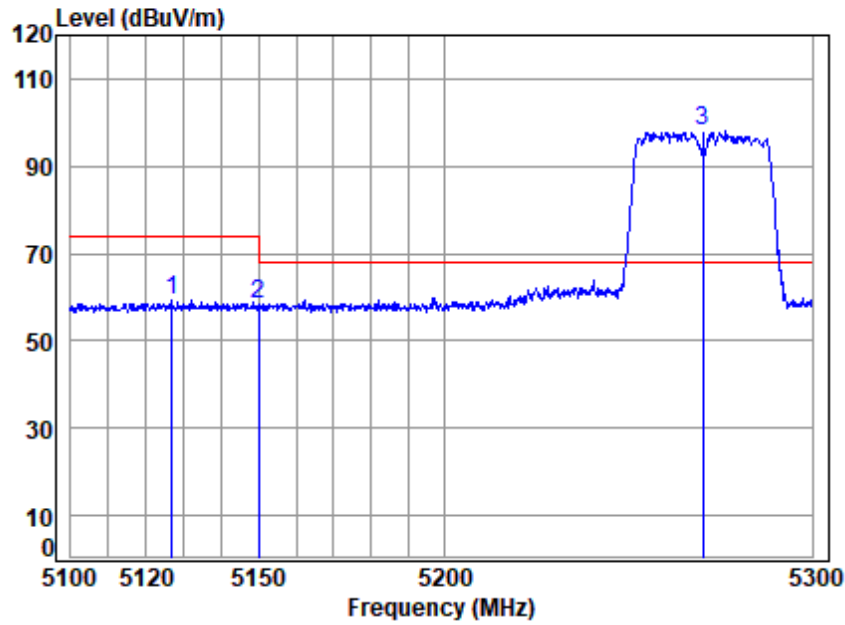
Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5320 Band edge  
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	7.87	34.46	42.33	98.34	98.34	-----	-----	Average
2	5350.020	7.92	34.48	42.34	47.86	47.92	54.00	-6.08	Average
3	5350.866	7.93	34.48	42.34	47.93	48.00	54.00	-6.00	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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
Attention: To check the authenticity of testing / inspection report and certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

Test Mode: 04; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low

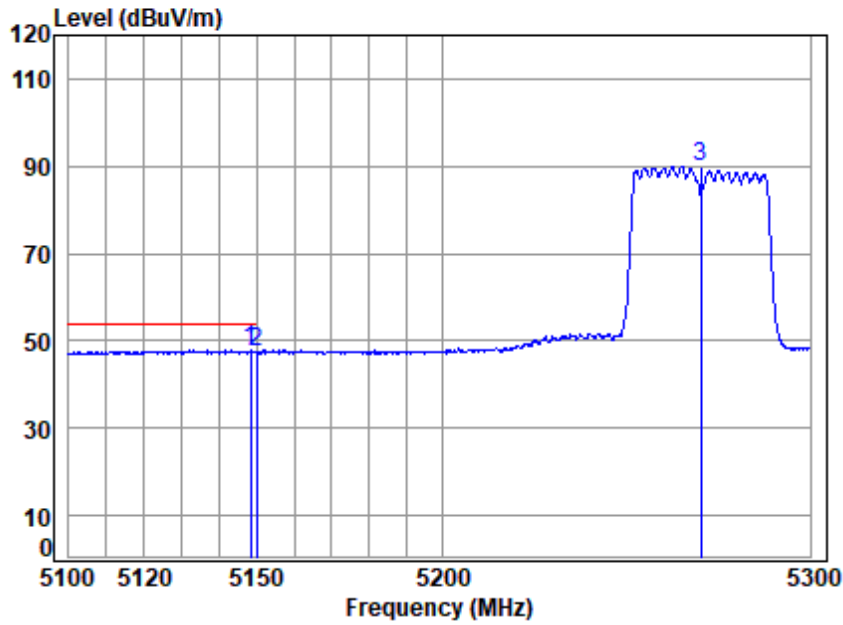


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5270 Band edge  
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5126.947	7.53	34.31	42.31	59.78	59.31	74.00	-14.69 peak
2	5149.980	7.57	34.32	42.32	58.71	58.28	74.00	-15.72 peak
3 *	5270.000	7.79	34.42	42.33	98.20	98.08	68.20	29.88 peak



Test Mode: 04; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low

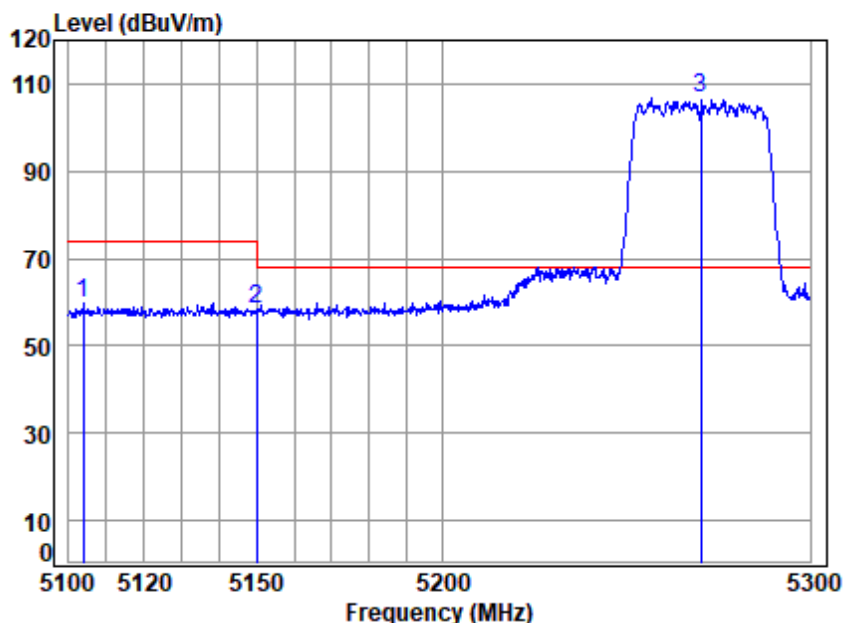


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5270 Band edge  
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5148.291	7.57	34.32	42.32	48.26	47.83	54.00	-6.17 Average
2	5149.980	7.57	34.32	42.32	47.98	47.55	54.00	-6.45 Average
3	5270.000	7.79	34.42	42.33	89.92	89.80	-----	----- Average



Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

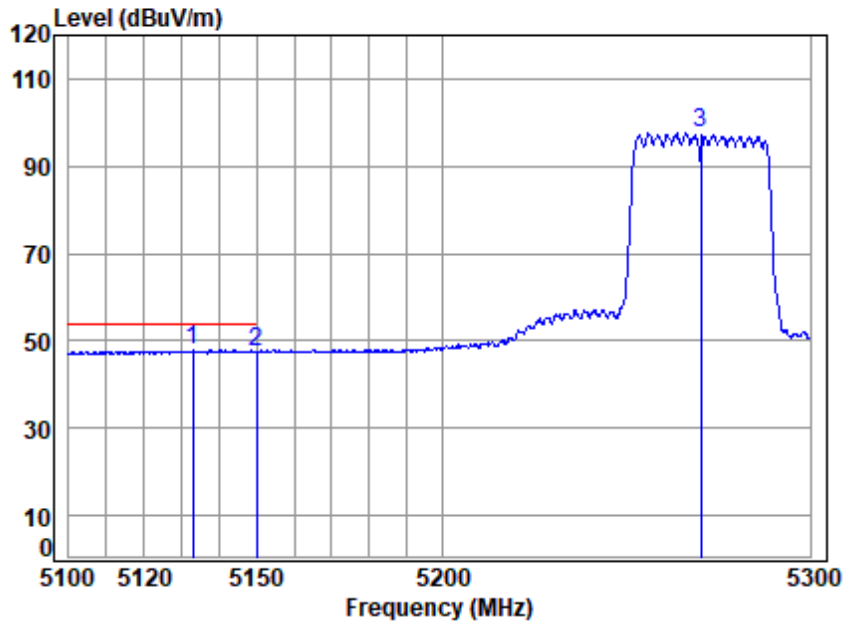


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5270 Band edge  
: 5G WIFI 11AC40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5103.729	7.49	34.29	42.31	60.19	59.66	74.00	-14.34	peak
2 5149.980	7.57	34.32	42.32	58.64	58.21	74.00	-15.79	peak
3 * 5270.000	7.79	34.42	42.33	106.83	106.71	68.20	38.51	peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

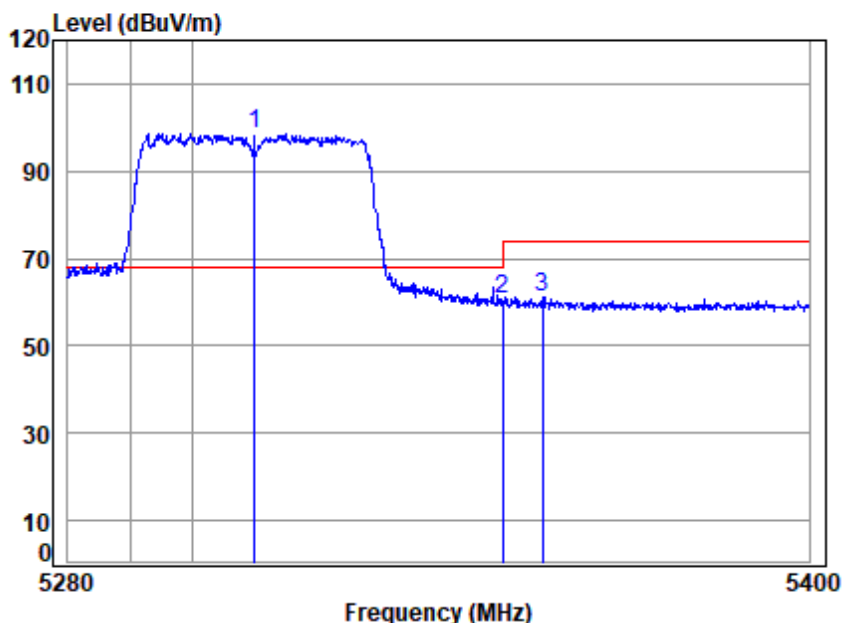


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5270 Band edge  
: 5G WIFI 11AC40

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5133.064	7.54	34.31	42.31	48.37	47.91	54.00	-6.09	Average
2 5149.980	7.57	34.32	42.32	47.91	47.48	54.00	-6.52	Average
3 5270.000	7.79	34.42	42.33	97.93	97.81	-----	-----	Average



Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

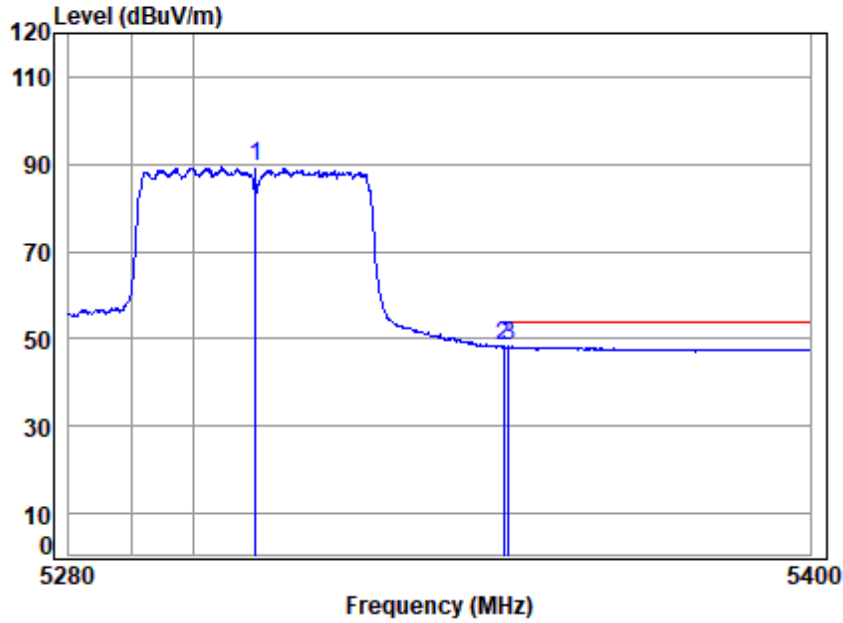


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5310 Band edge  
: 5G WIFI 11AC40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5310.000	7.86	34.45	42.33	98.79	98.77	68.20	30.57	peak
2 5350.020	7.92	34.48	42.34	60.79	60.85	74.00	-13.15	peak
3 5356.609	7.94	34.49	42.34	61.23	61.32	74.00	-12.68	peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

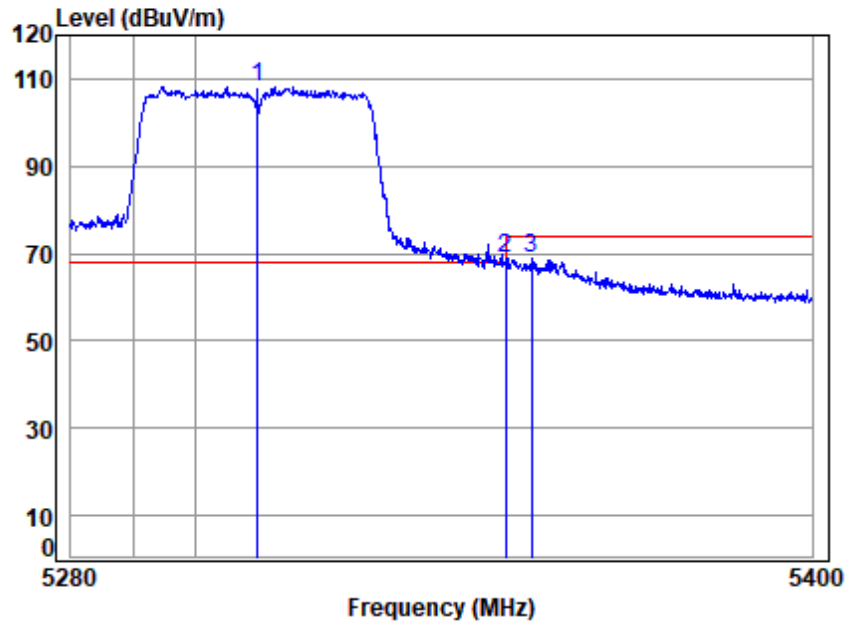


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5310 Band edge  
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5310.000	7.86	34.45	42.33	89.30	89.28	-----	-----	Average
2	5350.020	7.92	34.48	42.34	48.33	48.39	54.00	-5.61	Average
3	5350.955	7.93	34.48	42.34	48.16	48.23	54.00	-5.77	Average



Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

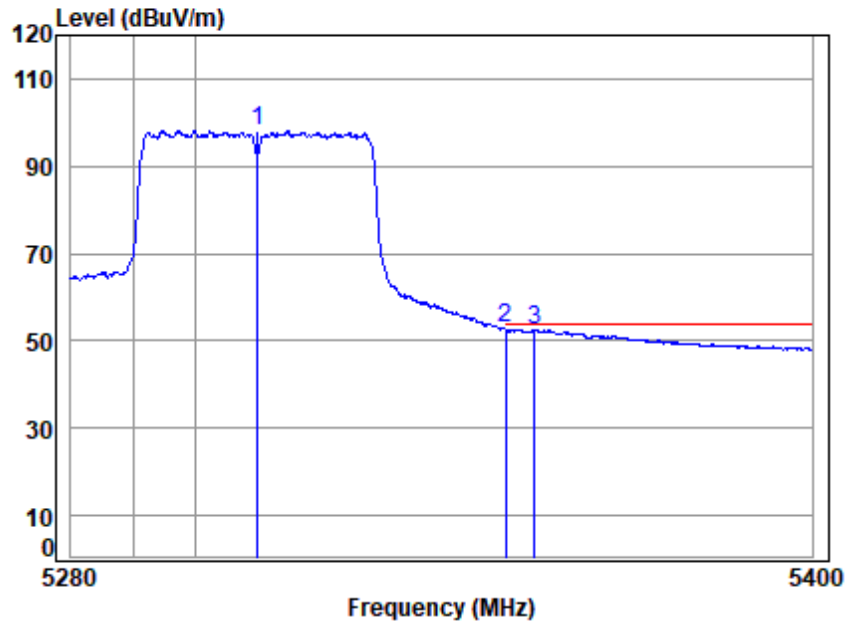


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5310 Band edge  
: 5G WIFI 11AC40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5310.000	7.86	34.45	42.33	108.06	108.04	68.20	39.84	Peak
2 5350.020	7.92	34.48	42.34	68.95	69.01	74.00	-4.99	Peak
3 5354.202	7.93	34.49	42.34	68.96	69.04	74.00	-4.96	Peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

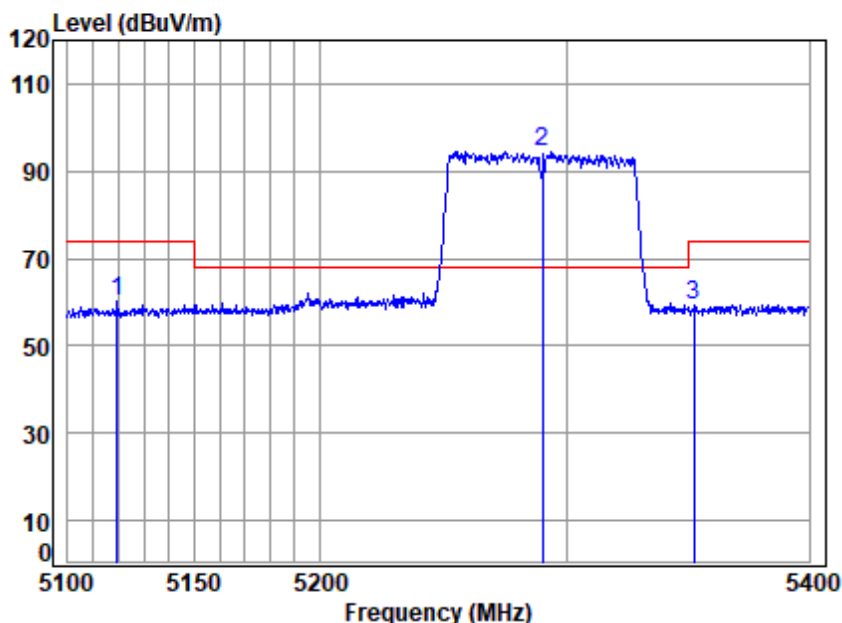


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5310 Band edge  
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5310.000	7.86	34.45	42.33	98.15	98.13	-----	----- Average
2	5350.020	7.92	34.48	42.34	52.93	52.99	54.00	-1.01 Average
3	5354.804	7.93	34.49	42.34	52.49	52.57	54.00	-1.43 Average



Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle

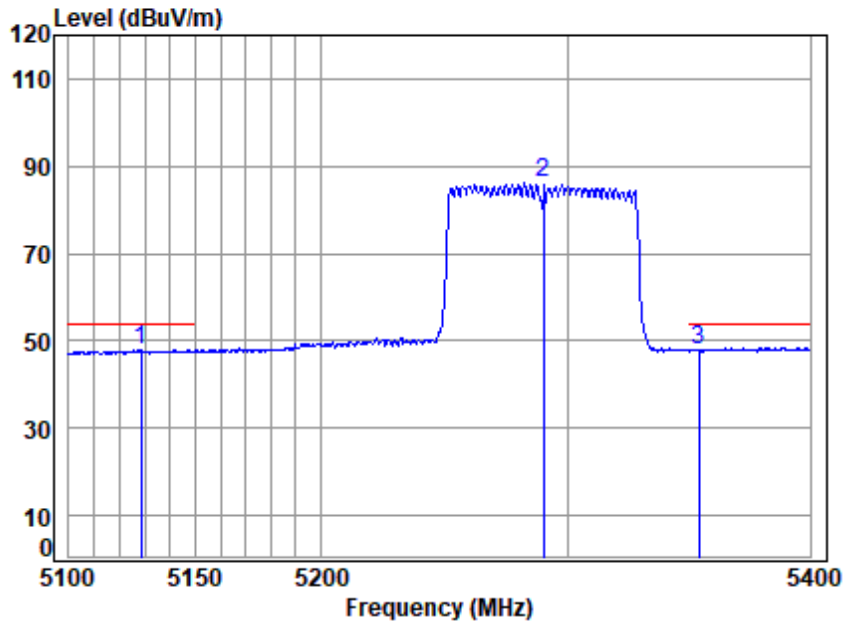


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5290 Band edge  
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5119.276	7.52	34.30	42.31	60.59	60.10	74.00	-13.90	peak
2 *	5290.000	7.82	34.44	42.33	94.58	94.51	68.20	26.31	peak
3	5352.370	7.93	34.49	42.34	59.05	59.13	74.00	-14.87	peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle

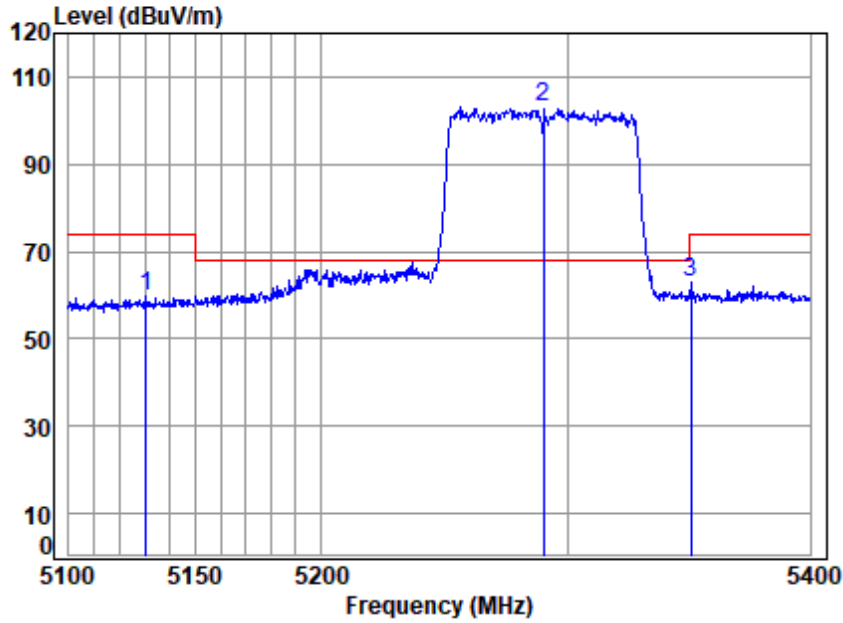


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5290 Band edge  
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dB	
1	5128.355	7.53	34.31	42.31	48.43	47.96	54.00	-6.04 Average
2	5290.000	7.82	34.44	42.33	86.11	86.04	-----	----- Average
3	5353.899	7.93	34.49	42.34	48.02	48.10	54.00	-5.90 Average



Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle

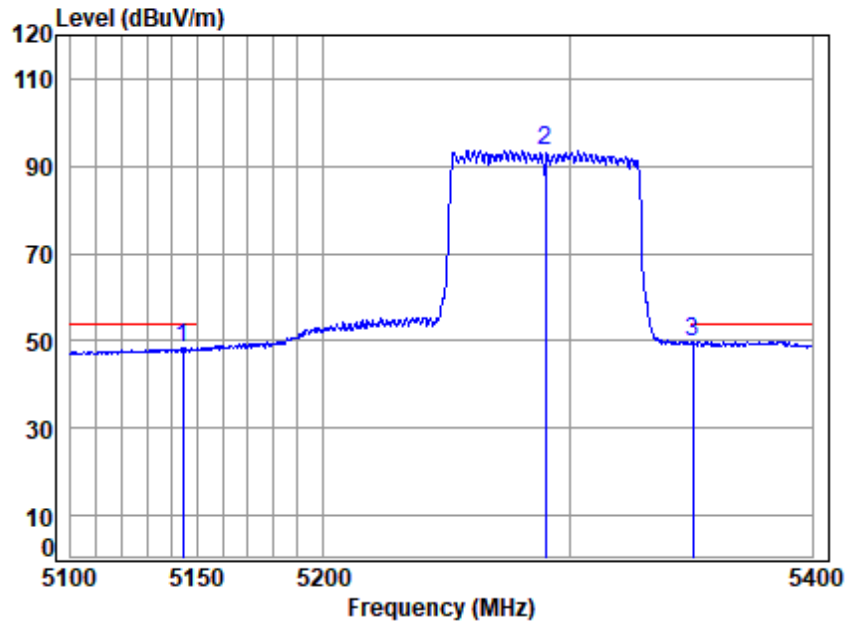


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5290 Band edge  
: 5G WIFI 11AC80

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5130.407	7.54	34.31	42.31	60.25	59.79	74.00	-14.21 peak
2 * 5290.000	7.82	34.44	42.33	103.03	102.96	68.20	34.76 peak
3 5350.535	7.93	34.48	42.34	62.74	62.81	74.00	-11.19 peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle

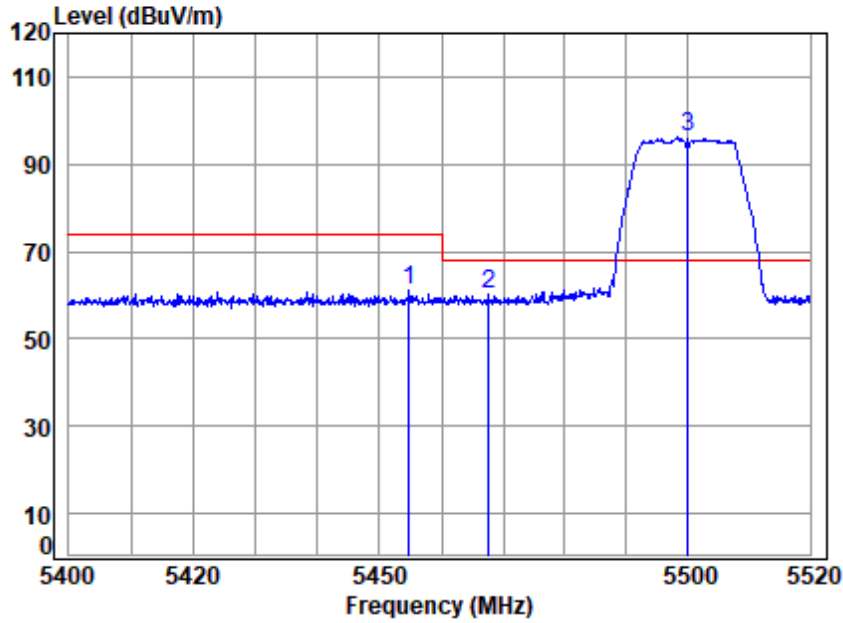


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5290 Band edge  
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dB	
1	5144.208	7.56	34.32	42.32	48.71	48.27	54.00	-5.73 Average
2	5290.000	7.82	34.44	42.33	93.73	93.66	-----	----- Average
3	5350.535	7.93	34.48	42.34	49.78	49.85	54.00	-4.15 Average



Test Mode: 05; Polarity: Horizontal; Modulation: 802.11a; Bandwidth: 20MHz; Channel: Low

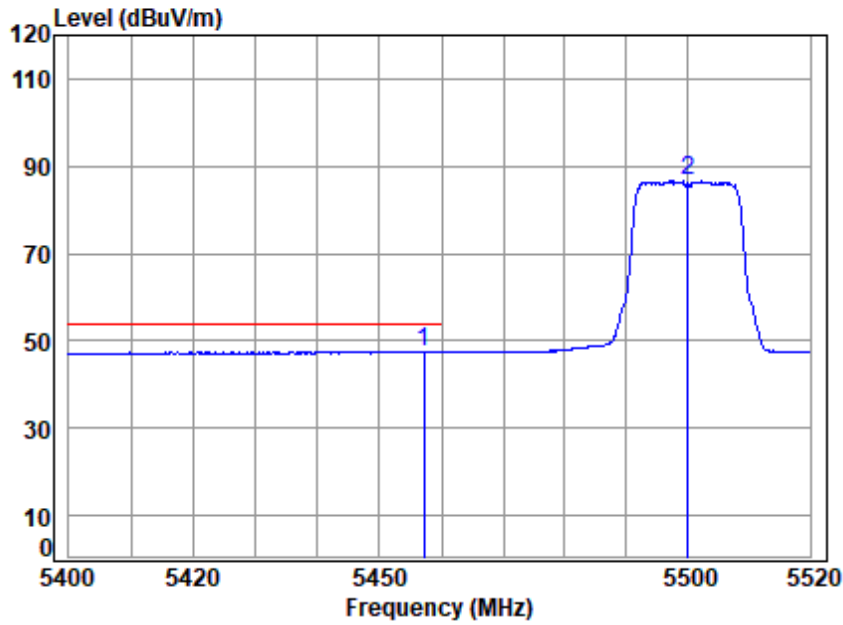


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5500 Band edge  
: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5454.752	8.10	34.57	42.35	61.01	61.33	74.00	-12.67	peak
2	5467.596	8.13	34.58	42.35	59.91	60.27	68.20	-7.93	peak
3 *	5500.000	8.18	34.60	42.35	95.68	96.11	68.20	27.91	peak



Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

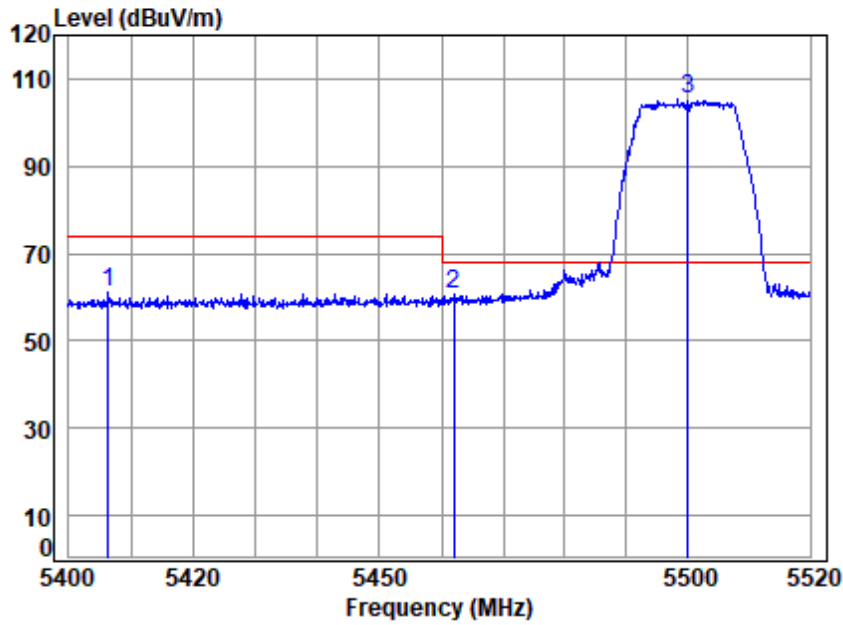


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5500 Band edge  
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5457.151	8.11	34.57	42.35	47.19	47.52	54.00	-6.48 Average
2	5500.000	8.18	34.60	42.35	86.21	86.64	-----	----- Average



Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

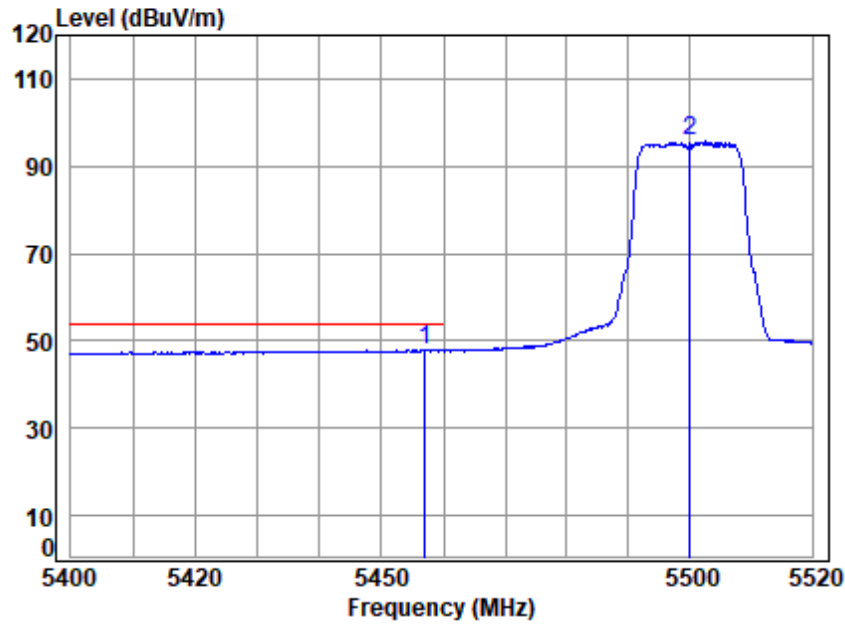


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5500 Band edge  
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5406.294	8.02	34.53	42.34	60.92	61.13	74.00	-12.87 peak
2	5462.071	8.12	34.57	42.35	60.47	60.81	68.20	-7.39 peak
3 *	5500.000	8.18	34.60	42.35	104.94	105.37	68.20	37.17 peak



Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

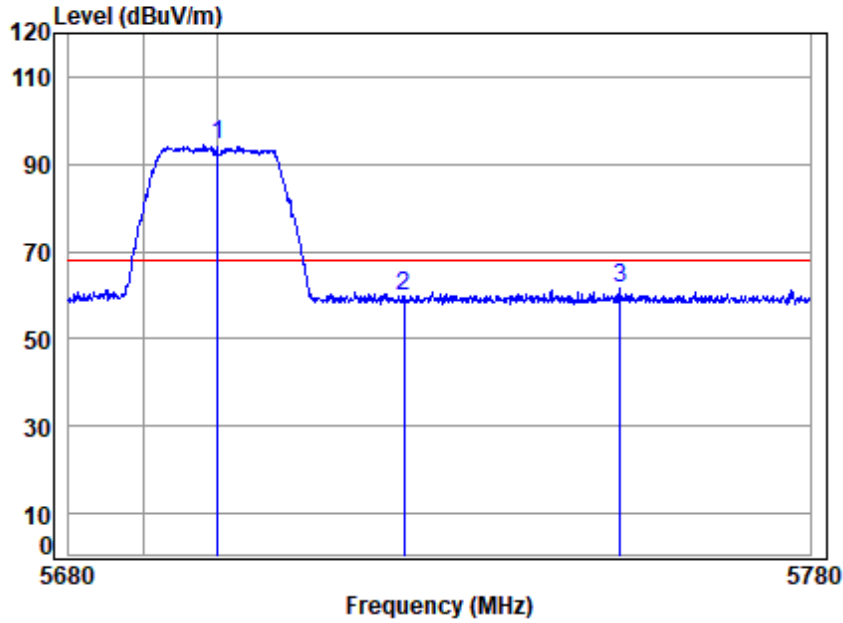


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5500 Band edge  
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5457.031	8.11	34.57	42.35	47.53	47.86	54.00	-6.14 Average
2	5500.000	8.18	34.60	42.35	95.25	95.68	-----	----- Average



Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High

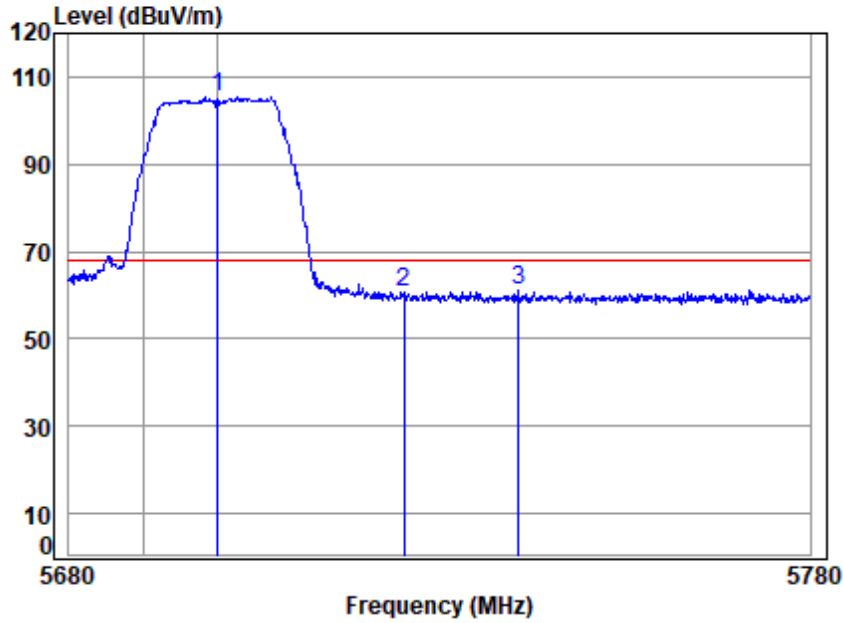


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5700 Band edge  
: 5G WIFI 11A

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5700.000	8.21	34.81	42.37	93.66	94.31	68.20	26.11	peak
2 5725.000	8.22	34.83	42.37	59.18	59.86	68.20	-8.34	peak
3 5754.233	8.22	34.86	42.38	60.84	61.54	68.20	-6.66	peak



Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

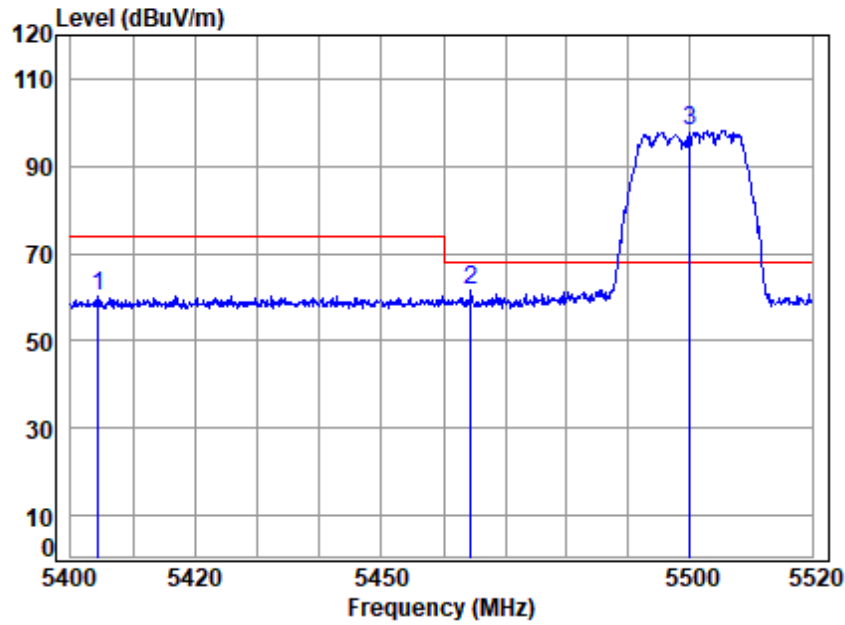


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5700 Band edge  
: 5G WIFI 11A

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5700.000	8.21	34.81	42.37	104.80	105.45	68.20	37.25	peak
2 5725.000	8.22	34.83	42.37	60.01	60.69	68.20	-7.51	peak
3 5740.492	8.22	34.85	42.38	60.31	61.00	68.20	-7.20	peak



Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

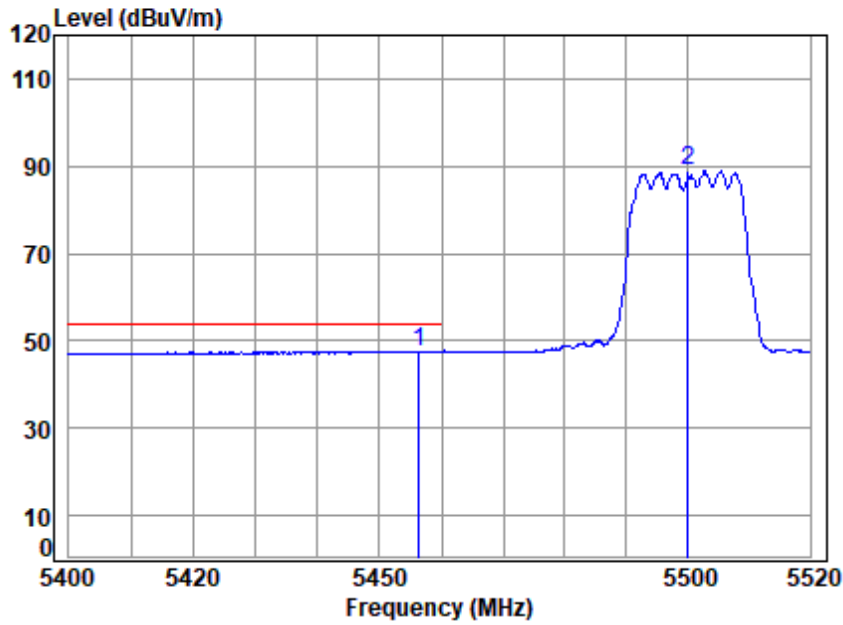


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5500 Band edge  
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5404.393	8.02	34.53	42.34	59.97	60.18	74.00	-13.82	peak
2	5464.472	8.12	34.57	42.35	61.03	61.37	68.20	-6.83	peak
3 *	5500.000	8.18	34.60	42.35	97.74	98.17	68.20	29.97	peak



Test Mode: 05; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: Low

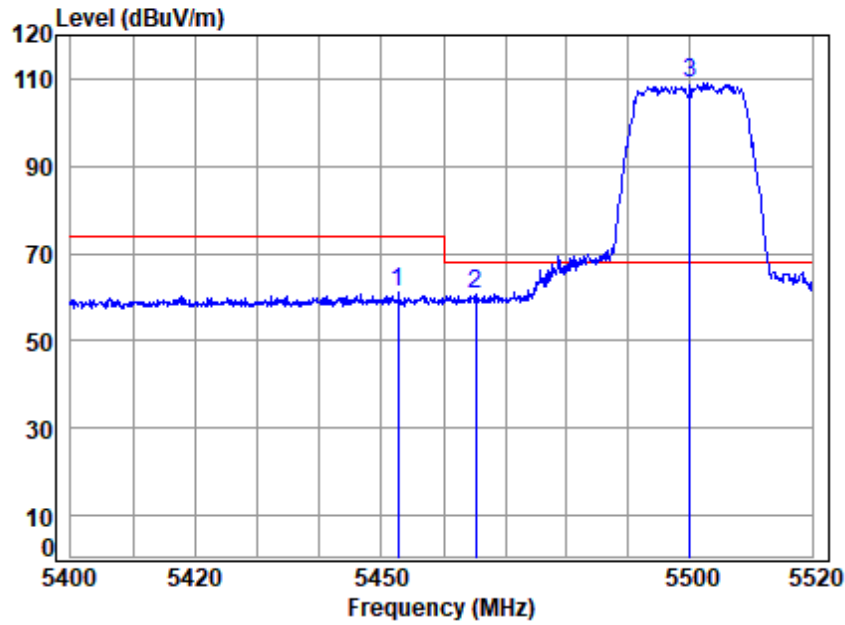


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5500 Band edge  
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5456.431	8.11	34.57	42.35	47.24	47.57	54.00	-6.43 Average
2	5500.000	8.18	34.60	42.35	88.37	88.80	-----	----- Average



Test Mode: 05; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: Low

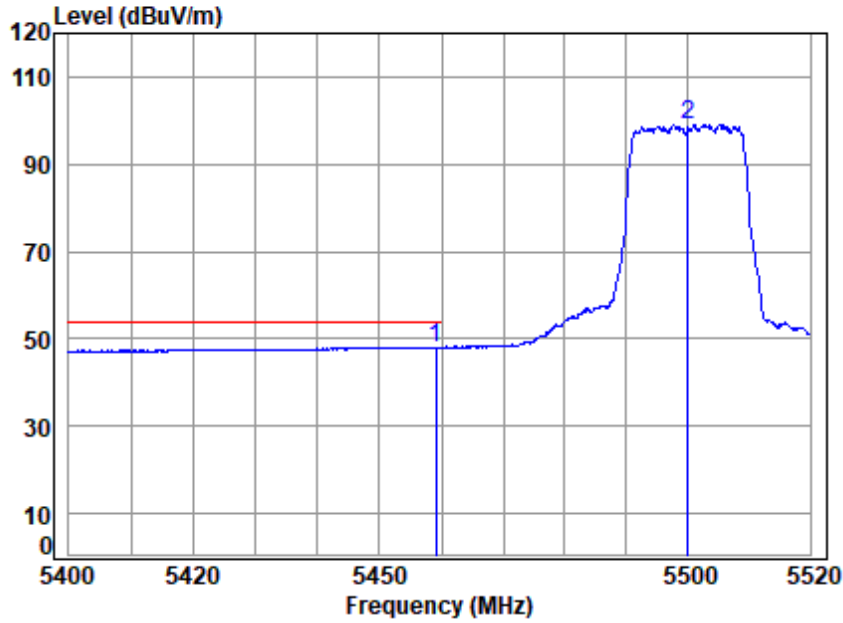


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5500 Band edge  
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5452.715	8.10	34.56	42.35	60.62	60.93	74.00	-13.07	peak
2	5465.193	8.12	34.57	42.35	60.36	60.70	68.20	-7.50	peak
3 *	5500.000	8.18	34.60	42.35	108.69	109.12	68.20	40.92	peak



Test Mode: 05; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: Low

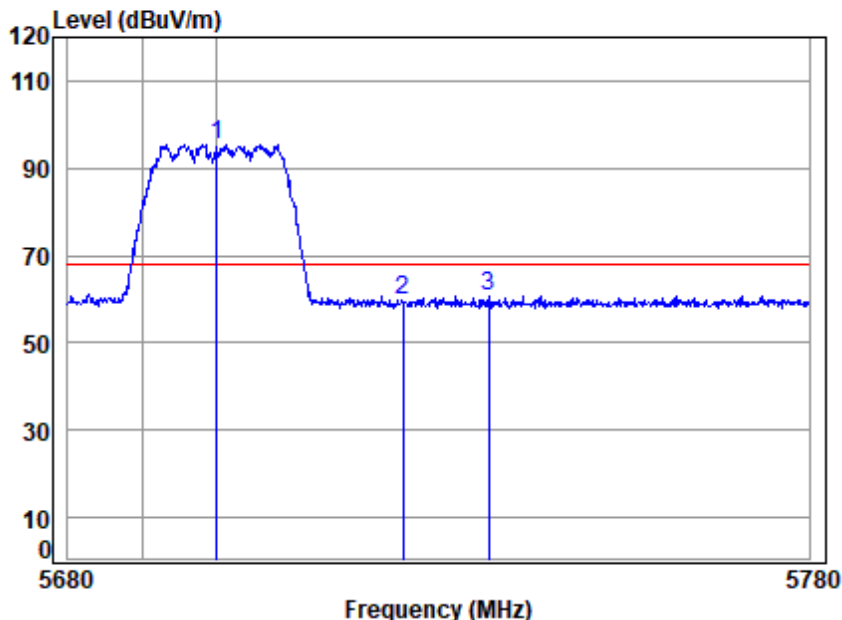


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5500 Band edge  
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5459.070	8.11	34.57	42.35	47.78	48.11	54.00	-5.89 Average
2	5500.000	8.18	34.60	42.35	98.67	99.10	-----	----- Average



Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

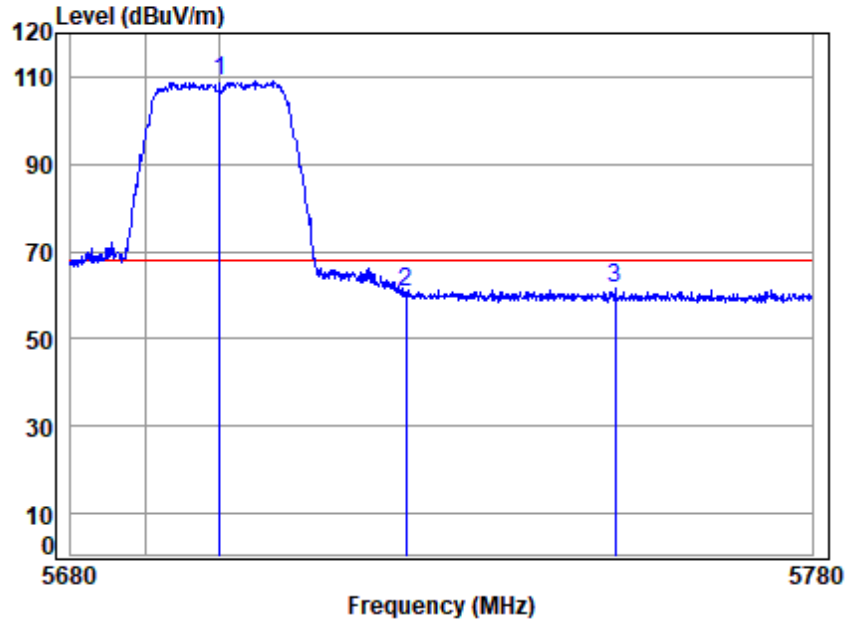


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5700 Band edge  
: 5G WIFI 11N20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5700.000	8.21	34.81	42.37	94.94	95.59	68.20	27.39	peak
2 5725.000	8.22	34.83	42.37	58.90	59.58	68.20	-8.62	peak
3 5736.586	8.22	34.84	42.38	59.96	60.64	68.20	-7.56	peak



Test Mode: 05; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: High

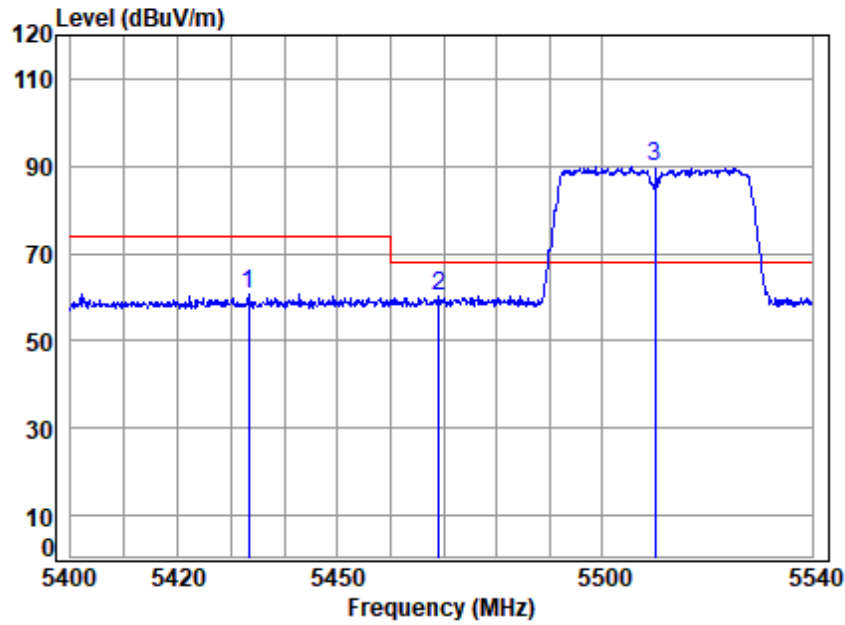


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5700 Band edge  
: 5G WIFI 11N20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5700.000	8.21	34.81	42.37	108.37	109.02	68.20	40.82	peak
2 5725.000	8.22	34.83	42.37	60.20	60.88	68.20	-7.32	peak
3 5753.229	8.22	34.86	42.38	61.05	61.75	68.20	-6.45	peak



Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

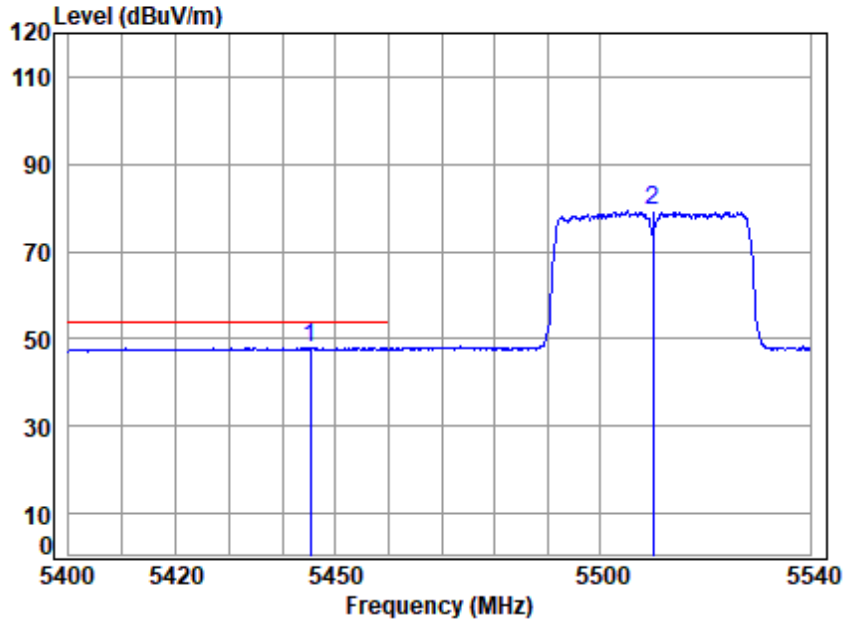


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5510 Band edge  
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5433.274	8.07	34.55	42.35	60.41	60.68	74.00	-13.32	peak
2	5468.992	8.13	34.58	42.35	59.96	60.32	68.20	-7.88	peak
3 *	5510.000	8.18	34.61	42.35	89.52	89.96	68.20	21.76	peak



Test Mode: 05; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 40MHz; Channel: Low

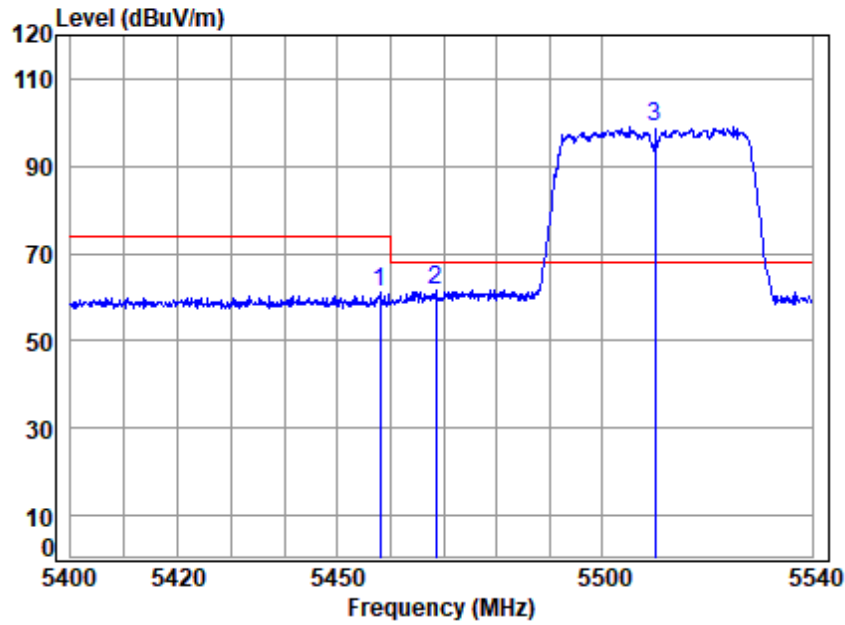


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5510 Band edge  
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5445.247	8.09	34.56	42.35	47.58	47.88	54.00	-6.12	Average
2	5510.000	8.18	34.61	42.35	78.92	79.36	-----	-----	Average



Test Mode: 05; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 40MHz; Channel: Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5510 Band edge  
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5457.945	8.11	34.57	42.35	60.83	61.16	74.00	-12.84 peak
2	5468.432	8.13	34.58	42.35	61.46	61.82	68.20	-6.38 peak
3 *	5510.000	8.18	34.61	42.35	98.42	98.86	68.20	30.66 peak

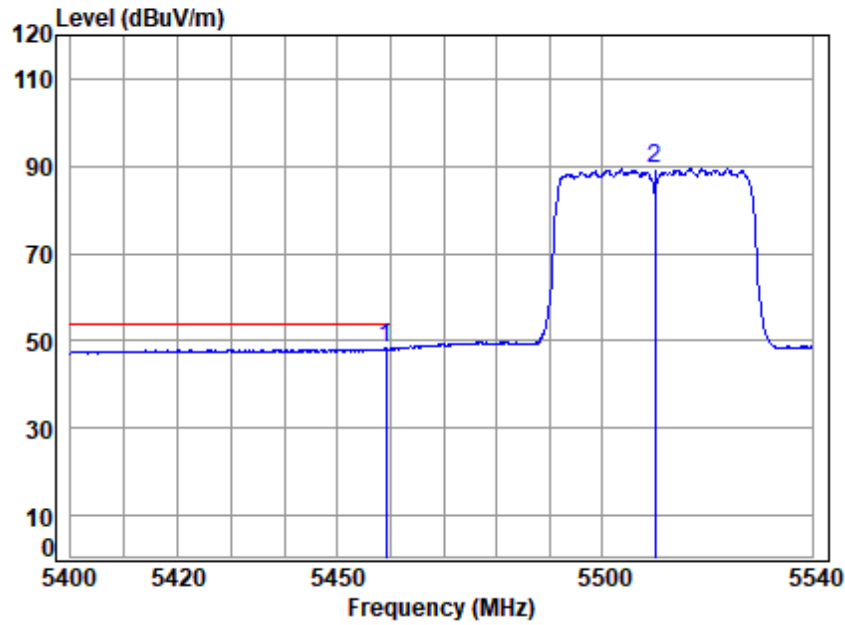


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

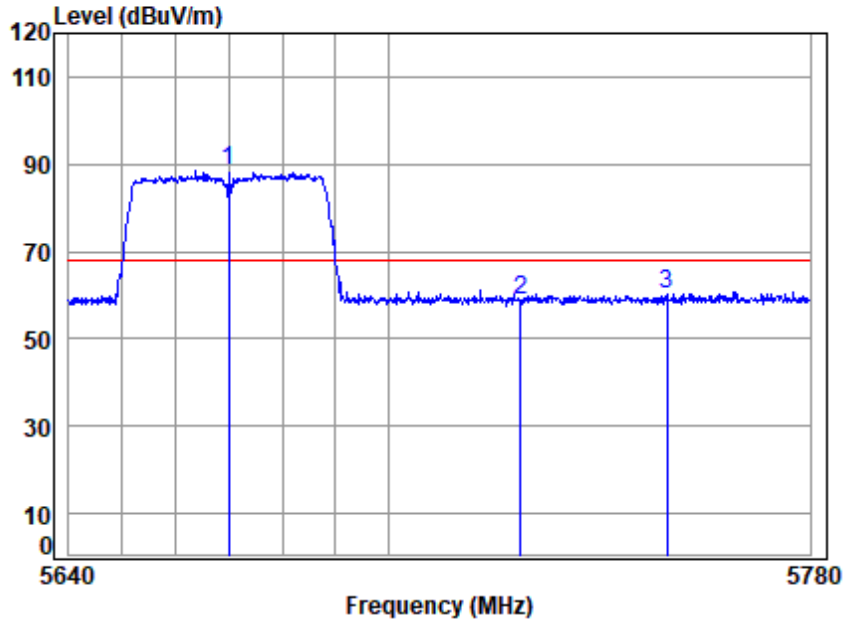


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5510 Band edge  
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5459.063	8.11	34.57	42.35	47.99	48.32	54.00	-5.68 Average
2	5510.000	8.18	34.61	42.35	88.93	89.37	-----	----- Average



Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High

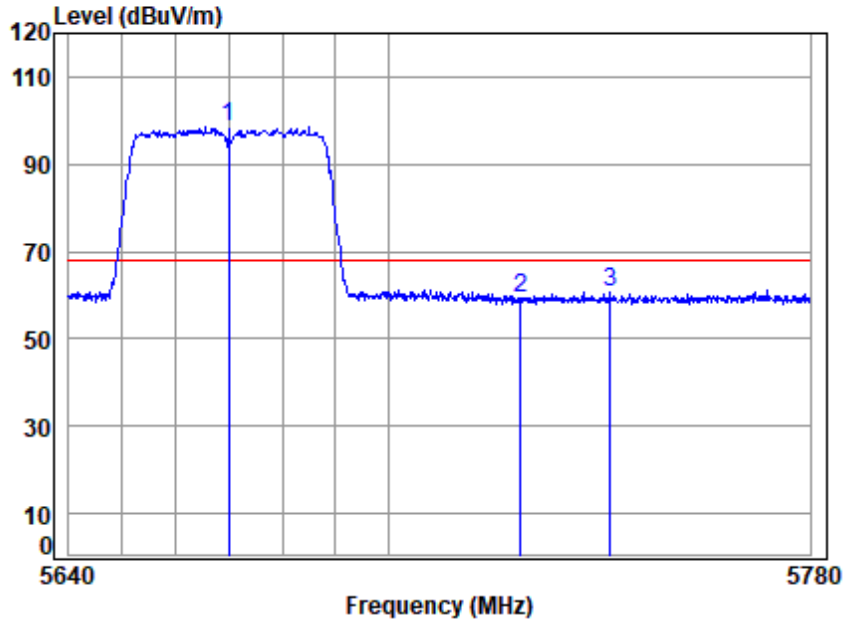


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5670 Band edge  
: 5G WIFI 11N40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5670.000	8.21	34.77	42.37	87.70	88.31	68.20	20.11	peak
2 5725.000	8.22	34.83	42.37	58.30	58.98	68.20	-9.22	peak
3 5752.712	8.22	34.86	42.38	59.72	60.42	68.20	-7.78	peak



Test Mode: 05; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 40MHz; Channel: High

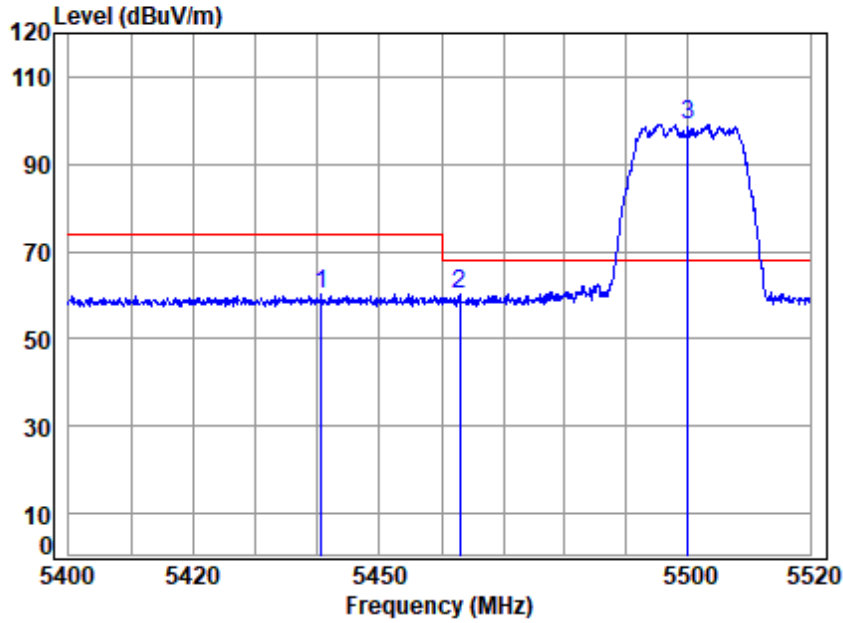


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5670 Band edge  
: 5G WIFI 11N40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5670.000	8.21	34.77	42.37	98.03	98.64	68.20	30.44	peak
2 5725.000	8.22	34.83	42.37	58.62	59.30	68.20	-8.90	peak
3 5742.002	8.22	34.85	42.38	59.91	60.60	68.20	-7.60	peak



Test Mode: 05; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low

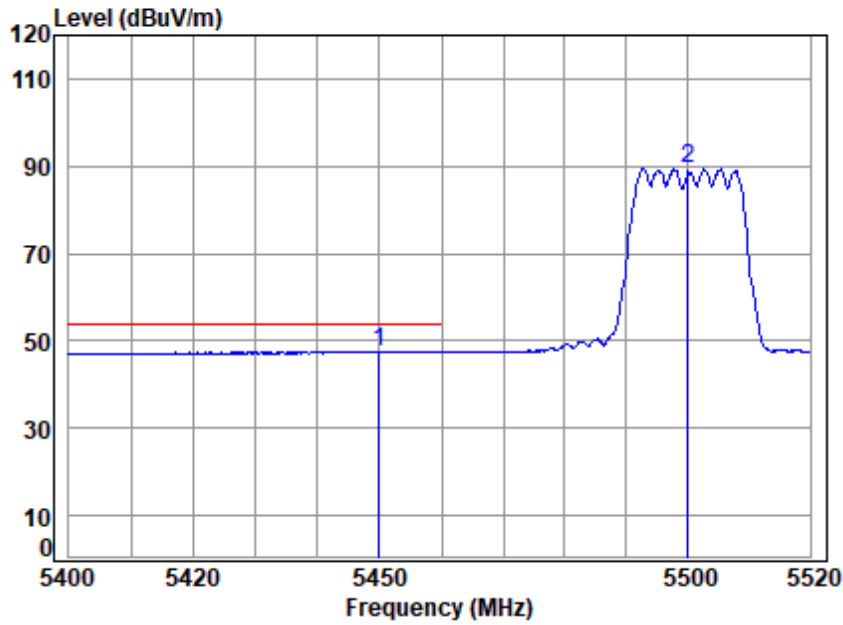


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5500 Band edge  
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5440.624	8.08	34.55	42.35	59.94	60.22	74.00	-13.78 peak
2	5463.031	8.12	34.57	42.35	59.80	60.14	68.20	-8.06 peak
3 *	5500.000	8.18	34.60	42.35	98.77	99.20	68.20	31.00 peak



Test Mode: 05; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5500 Band edge  
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5449.959	8.10	34.56	42.35	47.22	47.53	54.00	-6.47 Average
2	5500.000	8.18	34.60	42.35	88.91	89.34	-----	----- Average



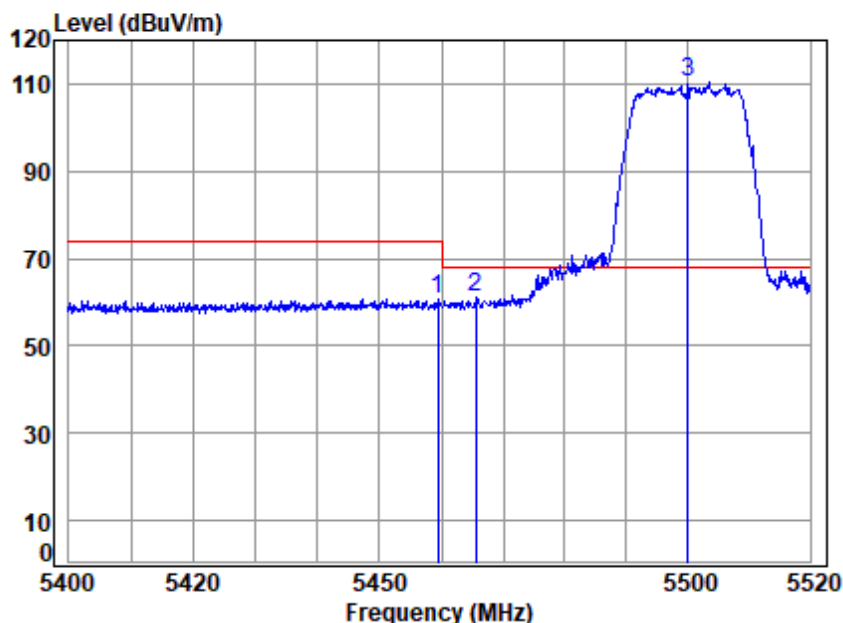
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

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

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

Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

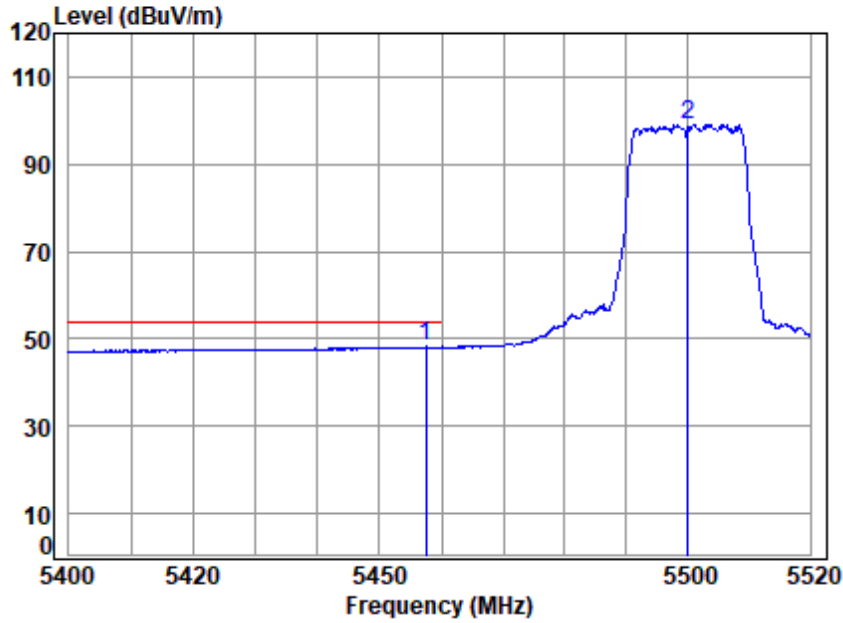


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5500 Band edge  
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5459.430	8.11	34.57	42.35	60.41	60.74	74.00	-13.26	peak
2	5465.553	8.12	34.57	42.35	60.58	60.92	68.20	-7.28	peak
3 *	5500.000	8.18	34.60	42.35	110.07	110.50	68.20	42.30	peak



Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

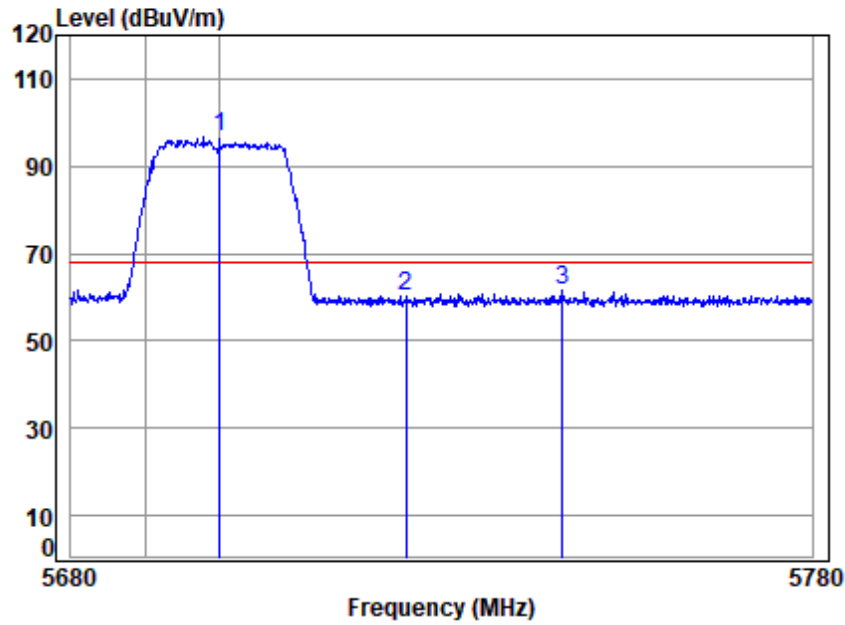


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5500 Band edge  
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5457.511	8.11	34.57	42.35	47.83	48.16	54.00	-5.84 Average
2	5500.000	8.18	34.60	42.35	98.80	99.23	-----	----- Average



Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

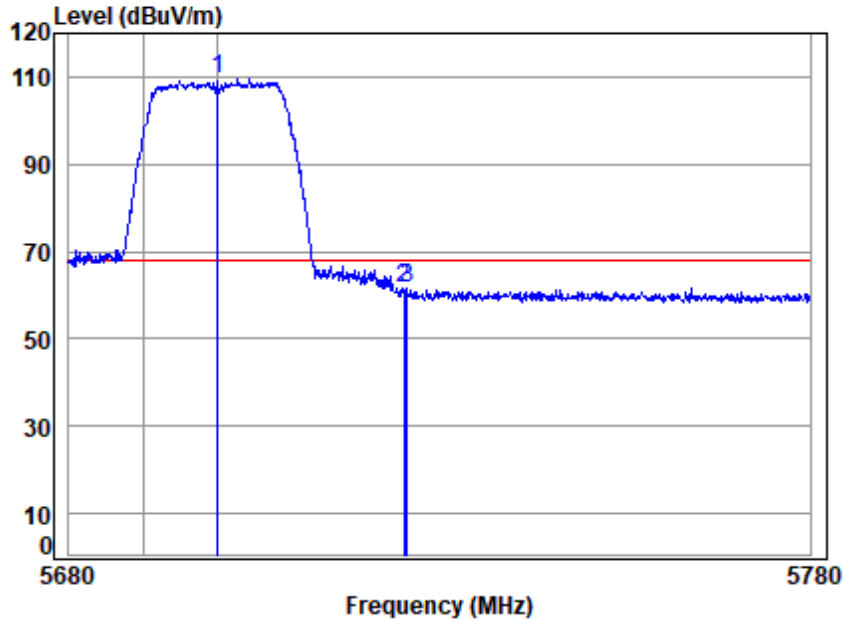


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5700 Band edge  
: 5G WIFI 11AC20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5700.000	8.21	34.81	42.37	96.26	96.91	68.20	28.71	peak
2 5725.000	8.22	34.83	42.37	59.44	60.12	68.20	-8.08	peak
3 5746.105	8.22	34.85	42.38	60.92	61.61	68.20	-6.59	peak



Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

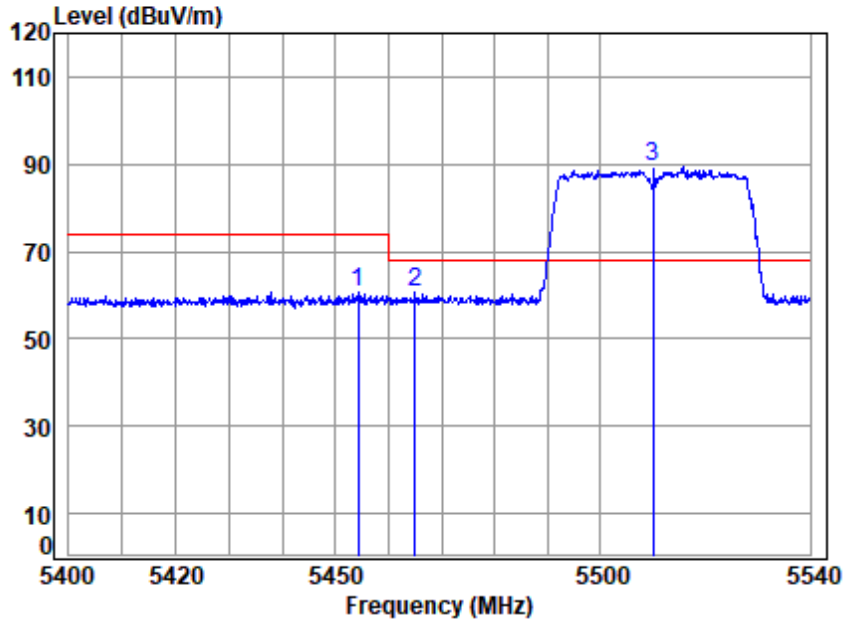


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5700 Band edge  
: 5G WIFI 11AC20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5700.000	8.21	34.81	42.37	108.76	109.41	68.20	41.21	peak
2 5725.000	8.22	34.83	42.37	60.85	61.53	68.20	-6.67	peak
3 5725.483	8.22	34.83	42.37	61.06	61.74	68.20	-6.46	peak



Test Mode: 05; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low

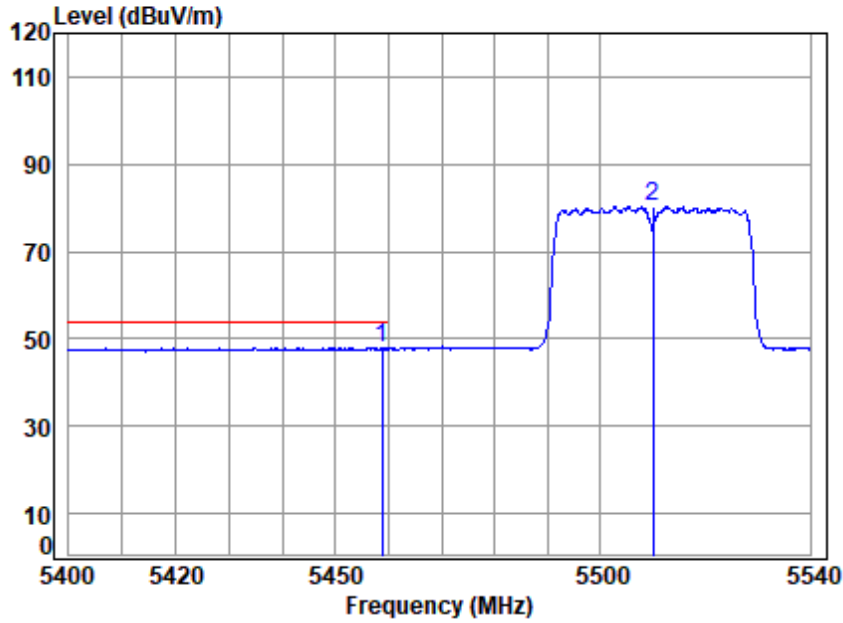


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5510 Band edge  
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5454.174	8.10	34.56	42.35	60.34	60.65	74.00	-13.35 peak
2	5464.934	8.12	34.57	42.35	60.15	60.49	68.20	-7.71 peak
3 *	5510.000	8.18	34.61	42.35	89.00	89.44	68.20	21.24 peak



Test Mode: 05; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low

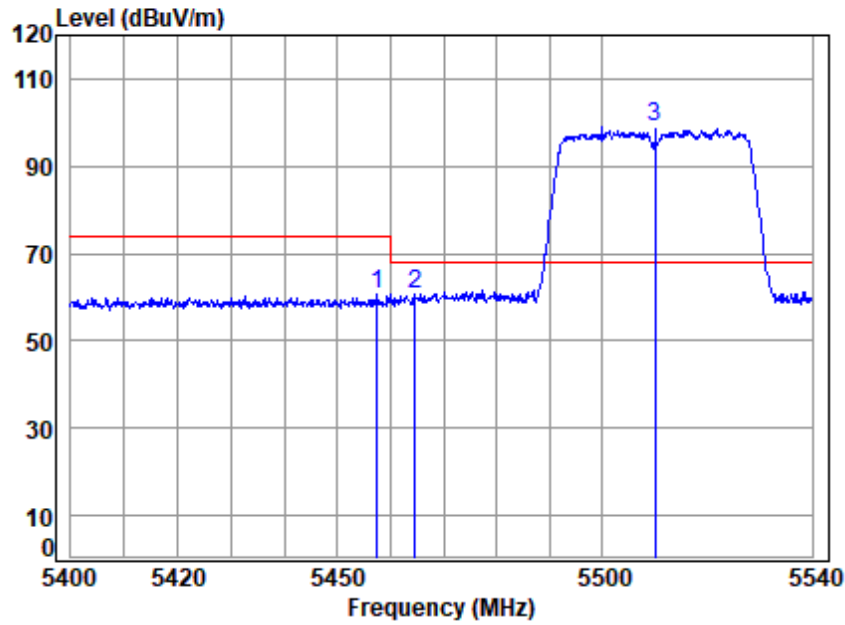


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5510 Band edge  
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5458.783	8.11	34.57	42.35	47.57	47.90	54.00	-6.10 Average
2	5510.000	8.18	34.61	42.35	79.92	80.36	-----	----- Average



Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

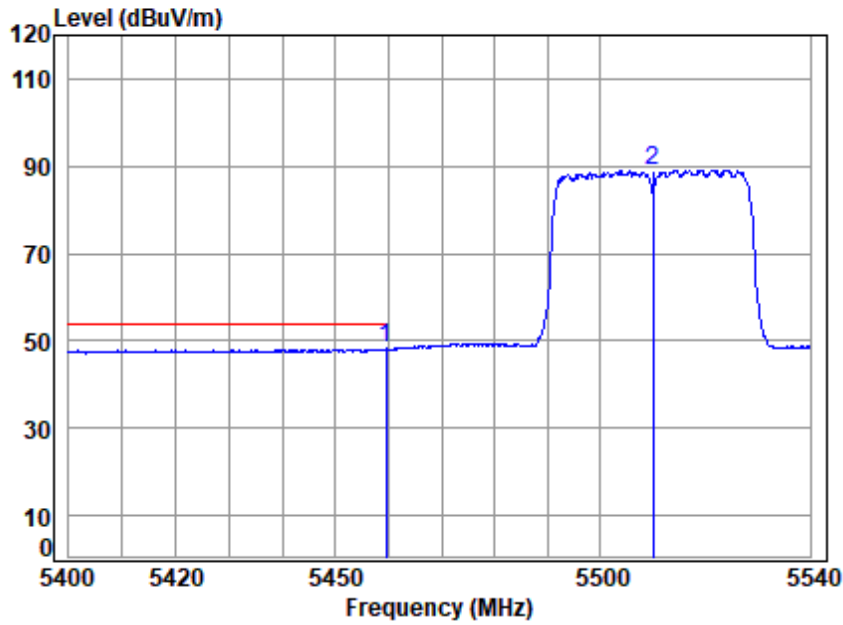


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5510 Band edge  
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5457.526	8.11	34.57	42.35	60.22	60.55	74.00	-13.45 peak
2	5464.654	8.12	34.57	42.35	60.43	60.77	68.20	-7.43 peak
3 *	5510.000	8.18	34.61	42.35	98.67	99.11	68.20	30.91 peak



Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5510 Band edge  
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5459.481	8.11	34.57	42.35	47.90	48.23	54.00	-5.77 Average
2	5510.000	8.18	34.61	42.35	88.76	89.20	-----	----- Average

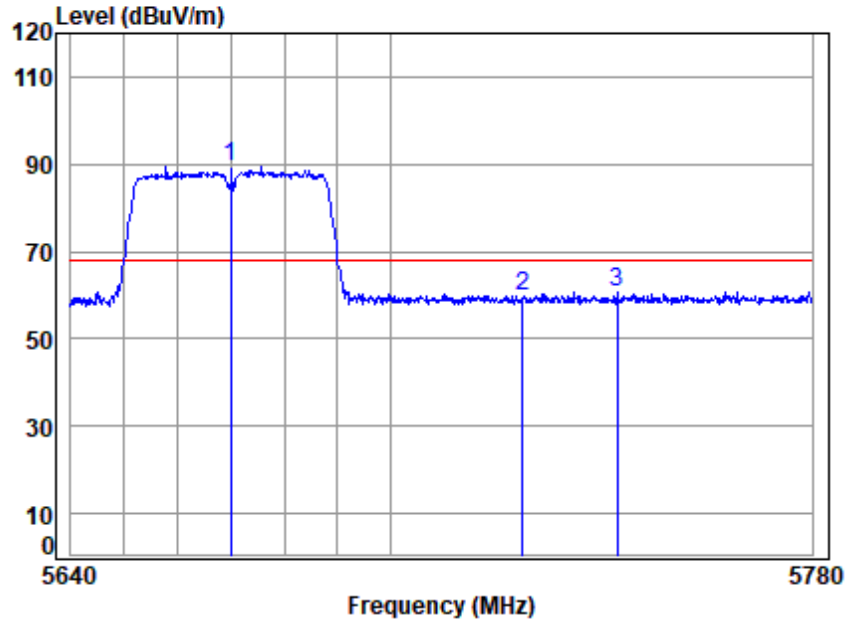


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

Test Mode: 05; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: High

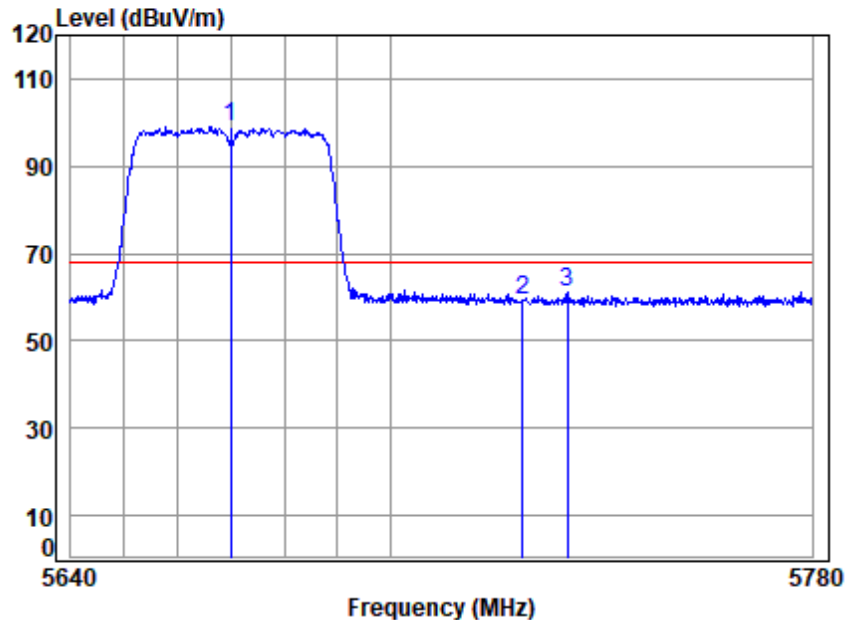


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5670 Band edge  
: 5G WIFI 11AC40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5670.000	8.21	34.77	42.37	88.73	89.34	68.20	21.14	peak
2 5725.000	8.22	34.83	42.37	58.93	59.61	68.20	-8.59	peak
3 5742.847	8.22	34.85	42.38	60.02	60.71	68.20	-7.49	peak



Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5670 Band edge  
: 5G WIFI 11AC40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5670.000	8.21	34.77	42.37	98.43	99.04	68.20	30.84	peak
2 5725.000	8.22	34.83	42.37	58.77	59.45	68.20	-8.75	peak
3 5733.420	8.22	34.84	42.38	60.50	61.18	68.20	-7.02	peak



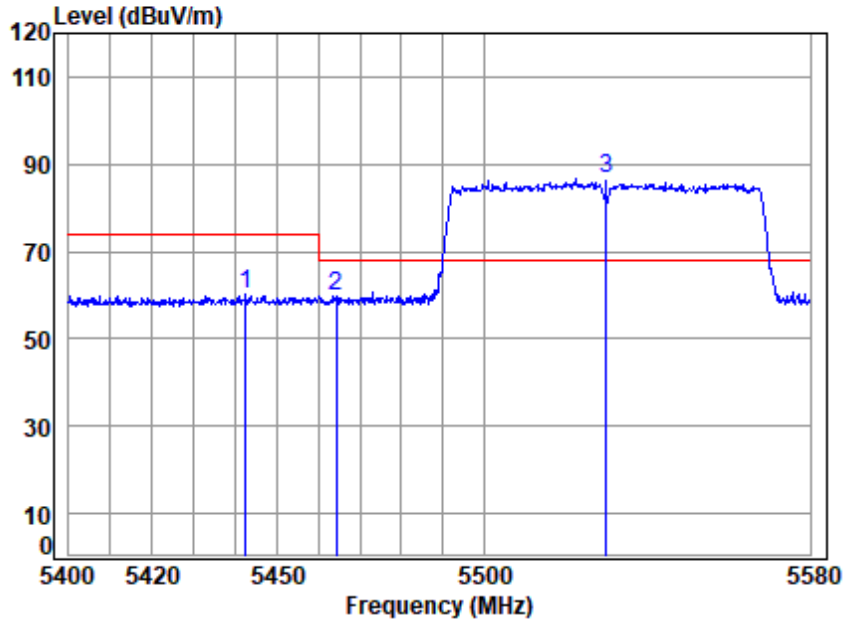
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

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

Test Mode: 05; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: Low

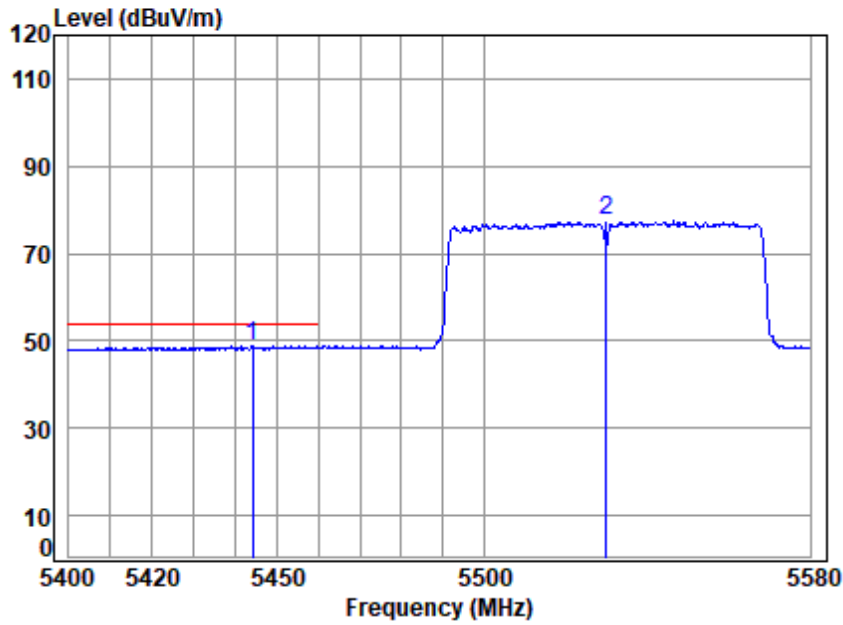


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5530 Band edge  
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5442.485	8.08	34.56	42.35	59.92	60.21	74.00	-13.79 peak
2	5464.300	8.12	34.57	42.35	59.52	59.86	68.20	-8.34 peak
3 *	5530.000	8.19	34.63	42.36	86.10	86.56	68.20	18.36 peak



Test Mode: 05; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: Low

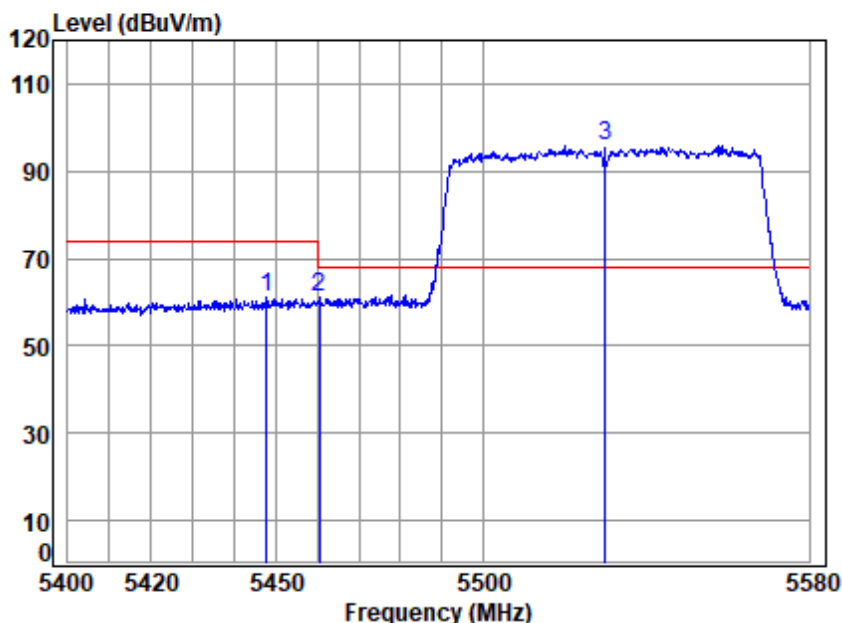


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5530 Band edge  
: 5G WIFI 11AC80

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5444.091	8.09	34.56	42.35	48.55	48.85	54.00	-5.15	Average
2 5530.000	8.19	34.63	42.36	77.02	77.48	-----	-----	Average



Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low

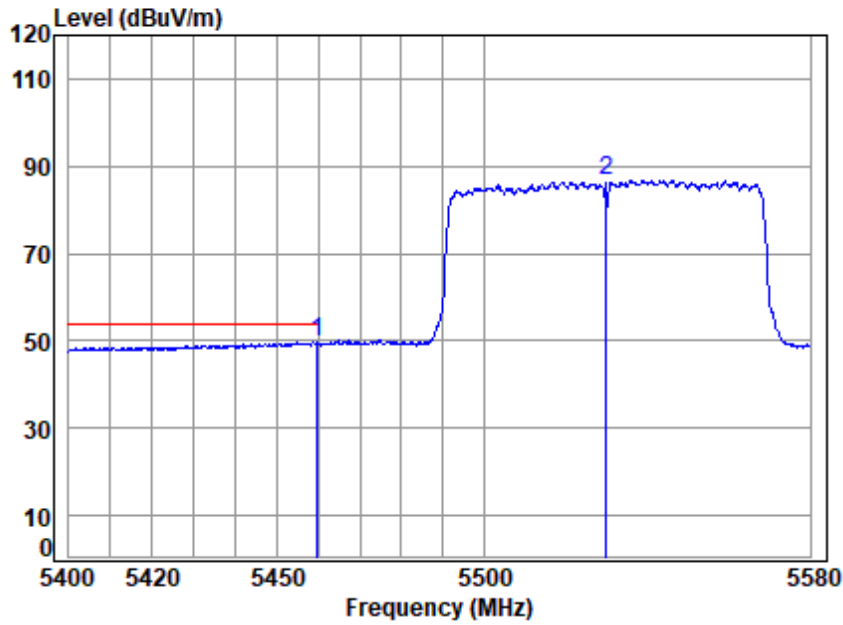


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5530 Band edge  
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5447.663	8.09	34.56	42.35	61.03	61.33	74.00	-12.67	peak
2	5460.539	8.11	34.57	42.35	60.59	60.92	68.20	-7.28	peak
3 *	5530.000	8.19	34.63	42.36	95.43	95.89	68.20	27.69	peak



Test Mode: 05; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: Low

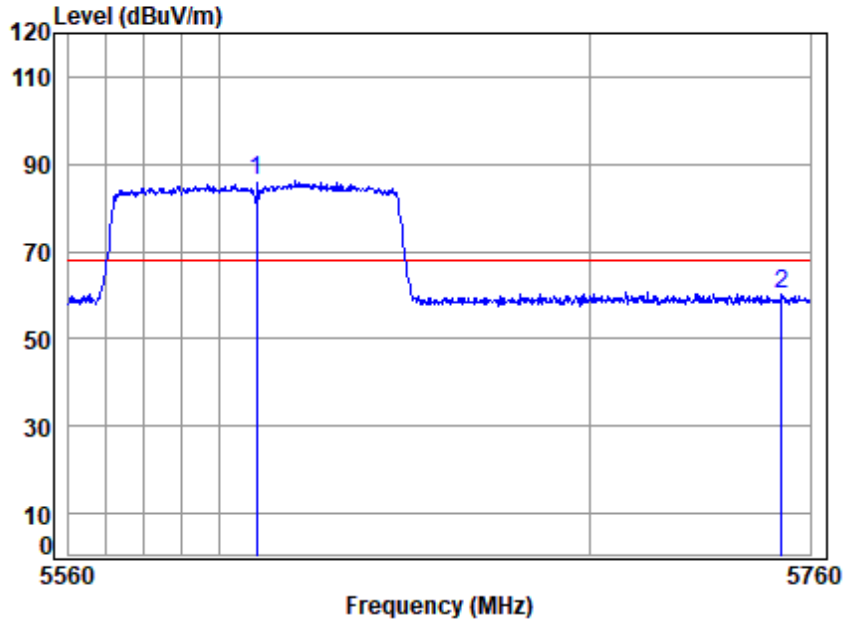


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5530 Band edge  
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5459.823	8.11	34.57	42.35	49.33	49.66	54.00	-4.34 Average
2	5530.000	8.19	34.63	42.36	86.43	86.89	-----	----- Average



Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High

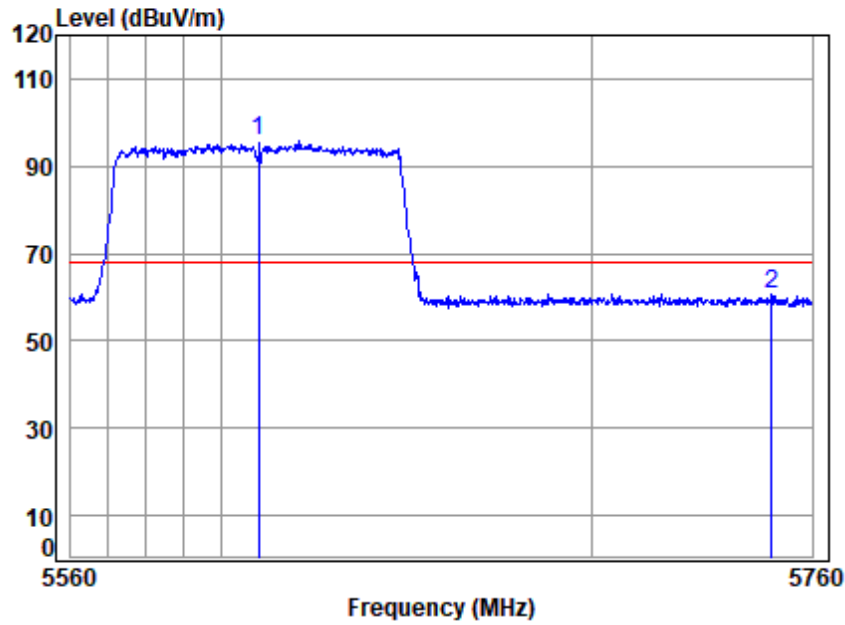


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5610 Band edge  
: 5G WIFI 11AC80

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5610.000	8.20	34.71	42.36	85.66	86.21	68.20	18.01	peak
2 5752.270	8.22	34.86	42.38	59.71	60.41	68.20	-7.79	peak



Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High

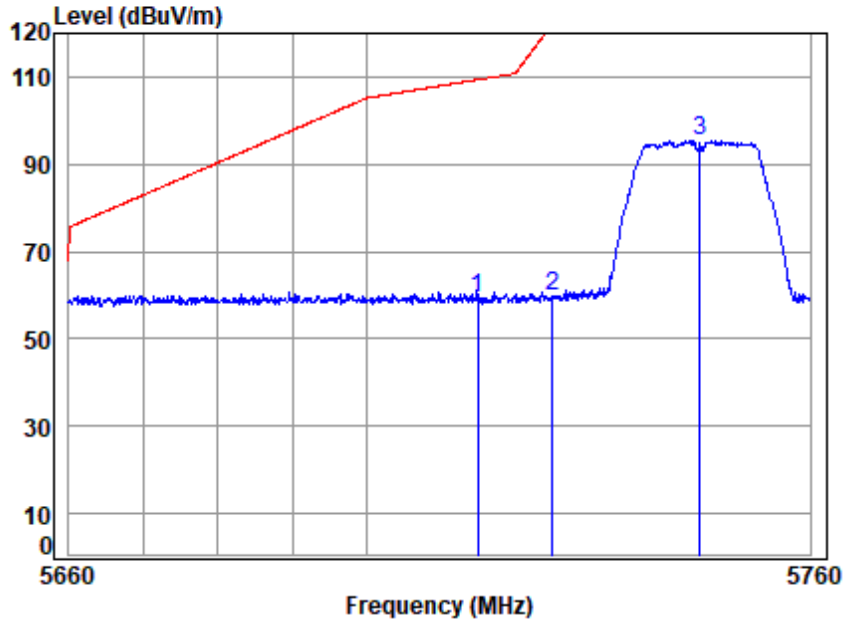


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5610 Band edge  
: 5G WIFI 11AC80

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5610.000	8.20	34.71	42.36	95.25	95.80	68.20	27.60	peak
2 5748.815	8.22	34.85	42.38	59.83	60.52	68.20	-7.68	peak



Test Mode: 06; Polarity: Horizontal; Modulation: 802.11a; Bandwidth: 20MHz; Channel: Low

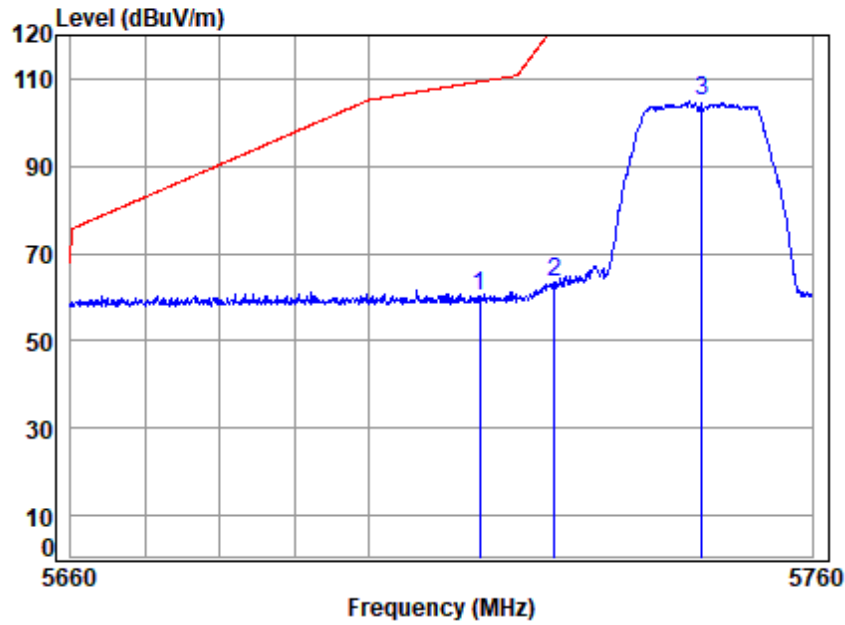


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5745 Band edge  
: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	8.22	34.82	42.37	58.73	59.40	109.40	-50.00	peak
2	5725.000	8.22	34.83	42.37	59.05	59.73	122.20	-62.47	peak
3	5745.000	8.22	34.85	42.38	94.83	95.52	125.20	-29.68	peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

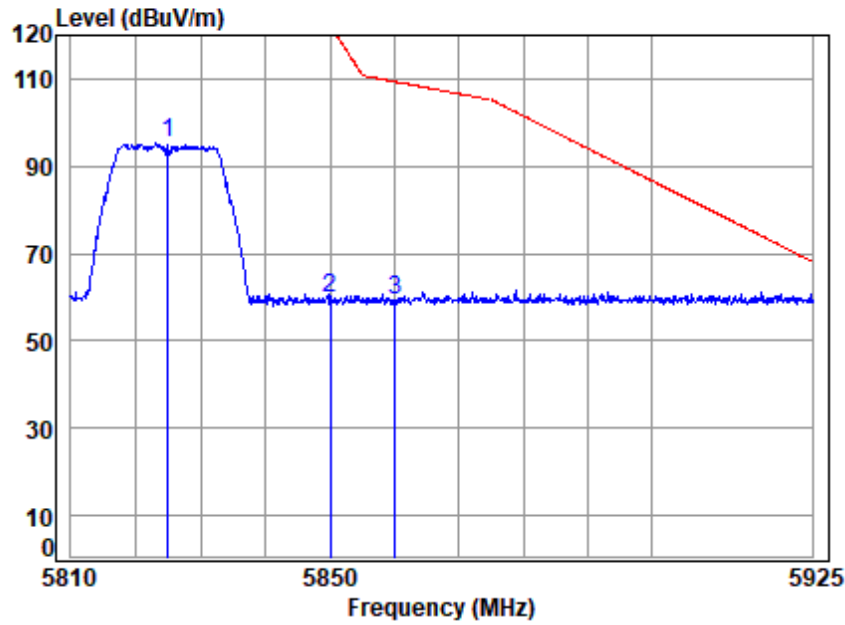


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5745 Band edge  
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.000	8.22	34.82	42.37	59.79	60.46	109.40	-48.94 peak
2	5725.000	8.22	34.83	42.37	62.55	63.23	122.20	-58.97 peak
3	5745.000	8.22	34.85	42.38	104.15	104.84	125.20	-20.36 peak



Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High

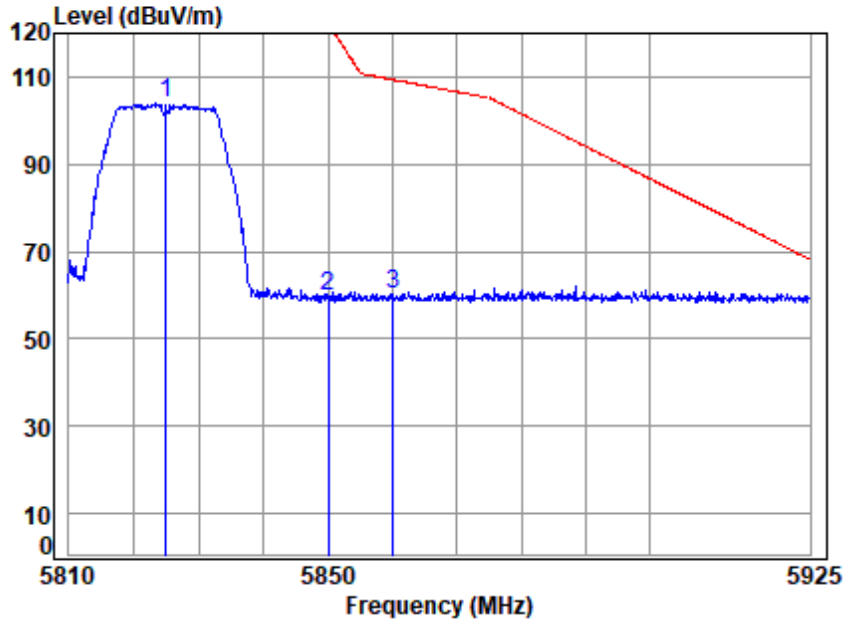


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5825 Band edge  
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5825.000	8.23	34.93	42.38	94.58	95.36	125.20	-29.84 peak
2	5850.000	8.24	34.95	42.39	59.02	59.82	122.20	-62.38 peak
3	5860.000	8.24	34.96	42.39	58.54	59.35	109.40	-50.05 peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

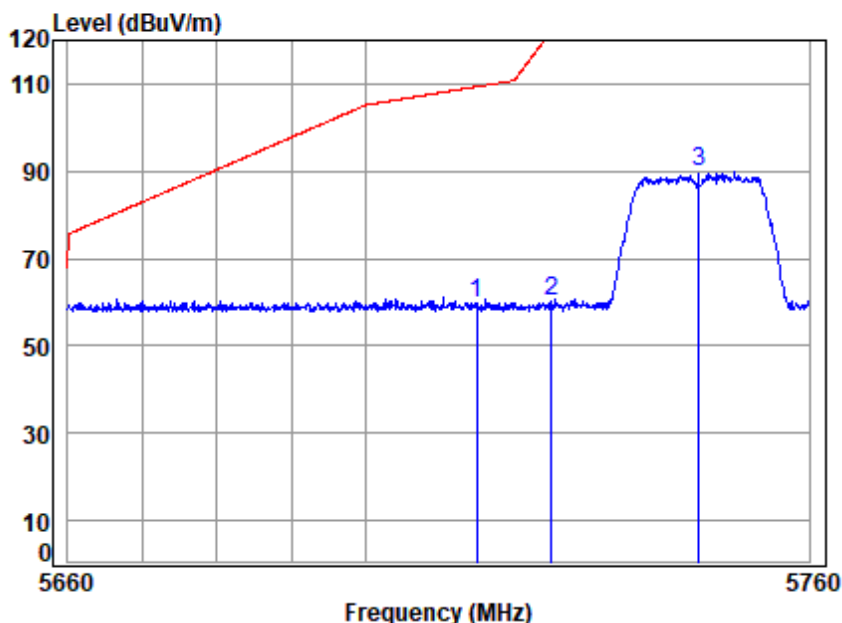


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5825 Band edge  
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5825.000	8.23	34.93	42.38	103.25	104.03	125.20	-21.17 peak
2	5850.000	8.24	34.95	42.39	58.87	59.67	122.20	-62.53 peak
3	5860.000	8.24	34.96	42.39	59.20	60.01	109.40	-49.39 peak



Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

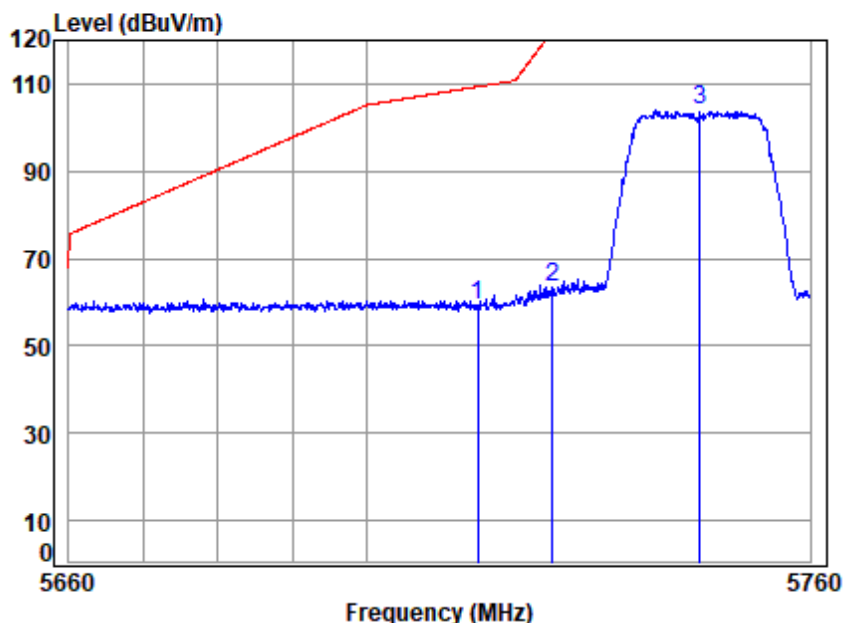


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5745 Band edge  
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.000	8.22	34.82	42.37	59.26	59.93	109.40	-49.47 peak
2	5725.000	8.22	34.83	42.37	59.58	60.26	122.20	-61.94 peak
3	5745.000	8.22	34.85	42.38	89.36	90.05	125.20	-35.15 peak



Test Mode: 06; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: Low

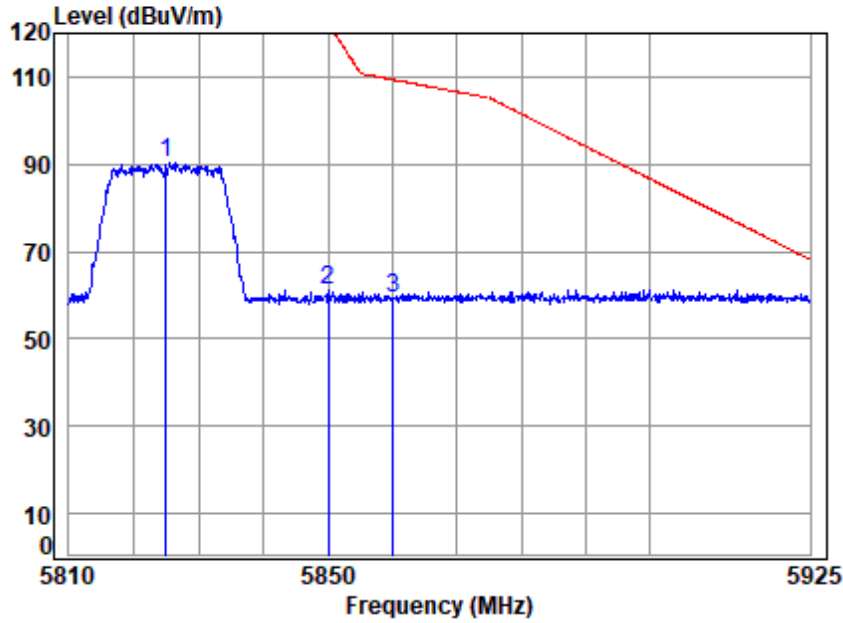


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5745 Band edge  
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.000	8.22	34.82	42.37	58.44	59.11	109.40	-50.29 peak
2	5725.000	8.22	34.83	42.37	62.79	63.47	122.20	-58.73 peak
3	5745.000	8.22	34.85	42.38	103.32	104.01	125.20	-21.19 peak



Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

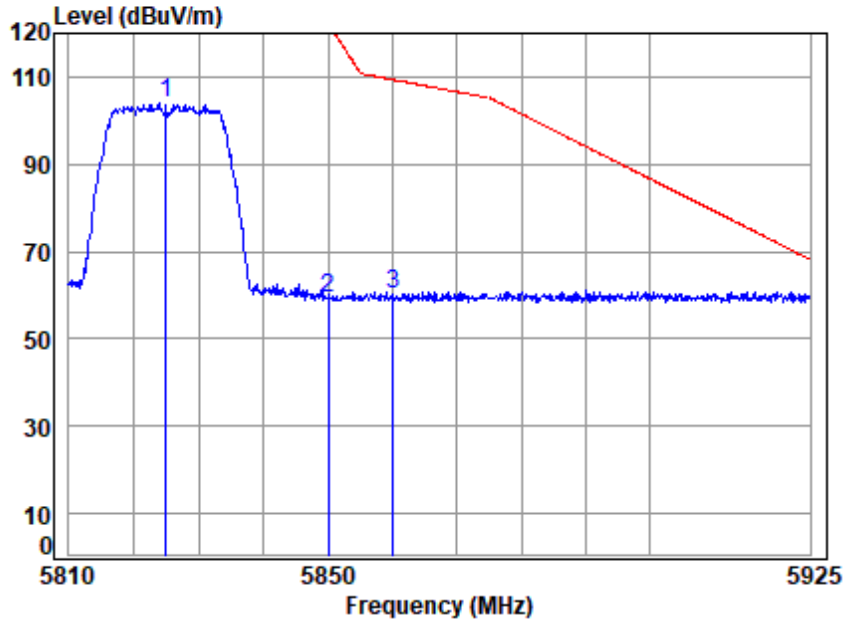


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5825 Band edge  
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5825.000	8.23	34.93	42.38	89.48	90.26	125.20	-34.94 peak
2	5850.000	8.24	34.95	42.39	60.14	60.94	122.20	-61.26 peak
3	5860.000	8.24	34.96	42.39	58.67	59.48	109.40	-49.92 peak



Test Mode: 06; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: High

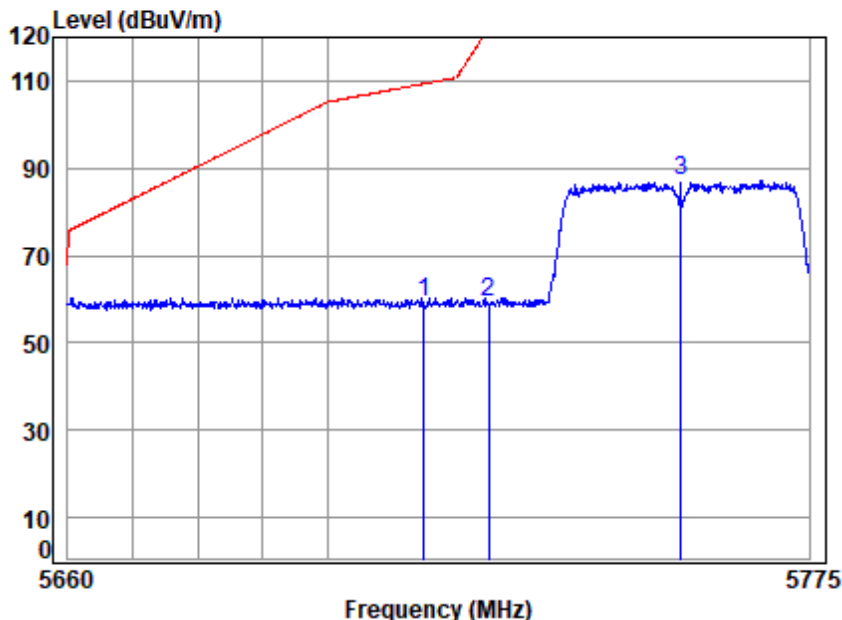


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5825 Band edge  
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	8.23	34.93	42.38	103.26	104.04	125.20	-21.16	peak
2	5850.000	8.24	34.95	42.39	58.60	59.40	122.20	-62.80	peak
3	5860.000	8.24	34.96	42.39	59.24	60.05	109.40	-49.35	peak



Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

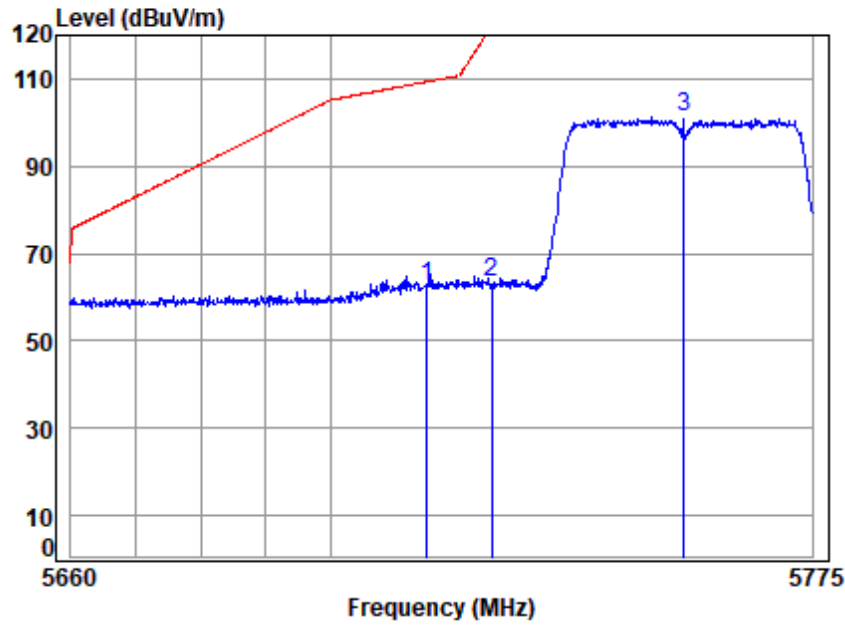


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5755 Band edge  
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.000	8.22	34.82	42.37	58.86	59.53	109.40	-49.87 peak
2	5725.000	8.22	34.83	42.37	58.72	59.40	122.20	-62.80 peak
3	5755.000	8.22	34.86	42.38	86.28	86.98	125.20	-38.22 peak



Test Mode: 06; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 40MHz; Channel: Low

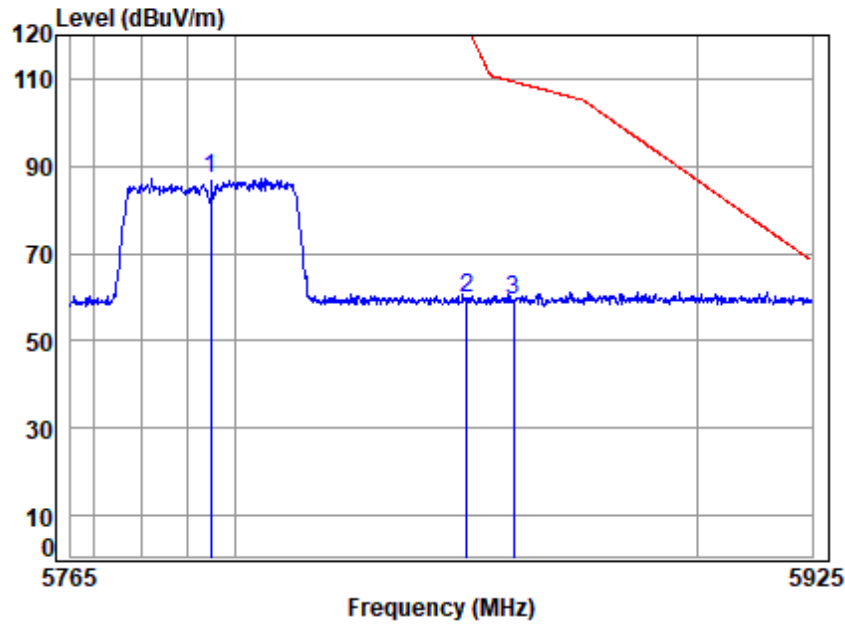


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5755 Band edge  
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.000	8.22	34.82	42.37	62.06	62.73	109.40	-46.67 peak
2	5725.000	8.22	34.83	42.37	62.76	63.44	122.20	-58.76 peak
3	5755.000	8.22	34.86	42.38	100.80	101.50	125.20	-23.70 peak



Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High

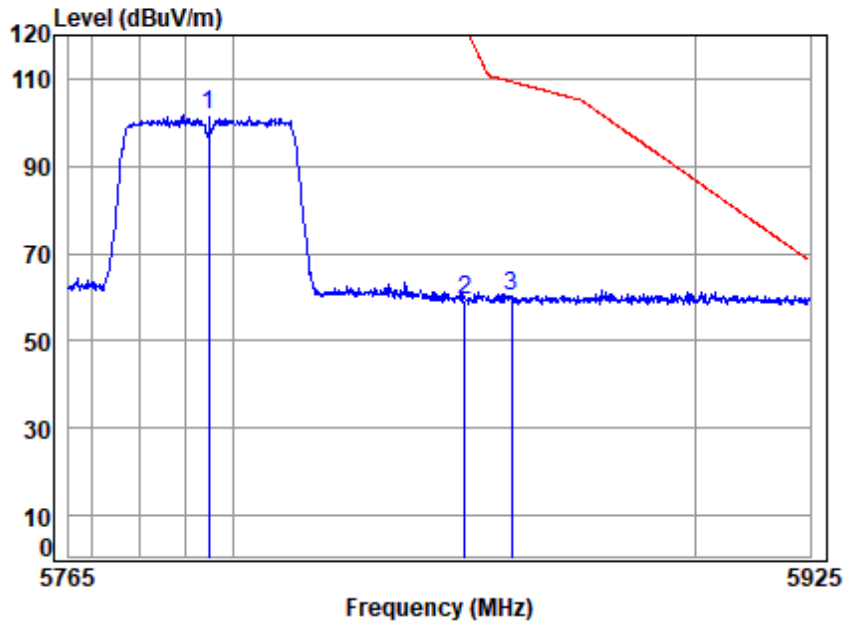


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5795 Band edge  
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	8.23	34.90	42.38	86.48	87.23	125.20	-37.97	peak
2	5850.000	8.24	34.95	42.39	58.85	59.65	122.20	-62.55	peak
3	5860.000	8.24	34.96	42.39	58.57	59.38	109.40	-50.02	peak



Test Mode: 06; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 40MHz; Channel: High

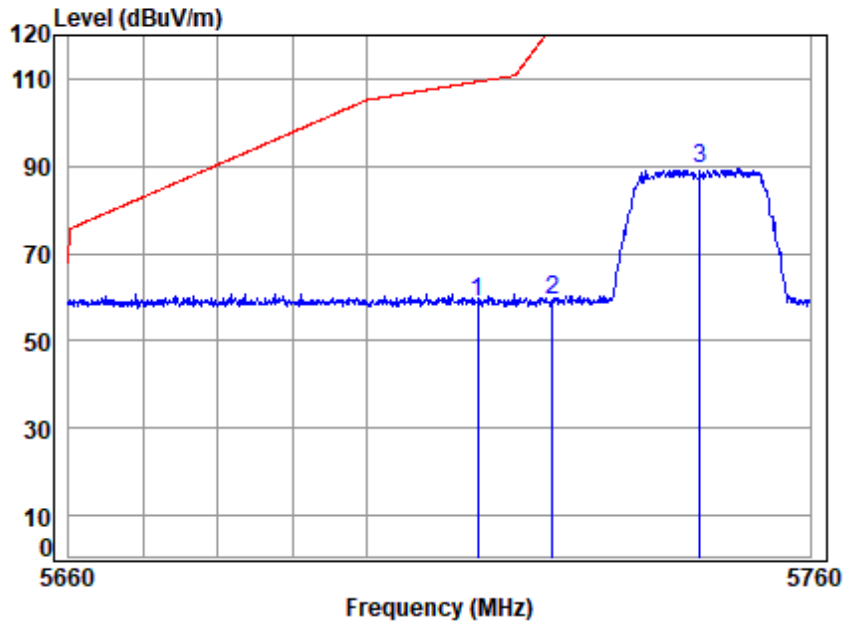


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5795 Band edge  
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5795.000	8.23	34.90	42.38	100.77	101.52	125.20	-23.68 peak
2	5850.000	8.24	34.95	42.39	58.62	59.42	122.20	-62.78 peak
3	5860.000	8.24	34.96	42.39	59.38	60.19	109.40	-49.21 peak



Test Mode: 06; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5745 Band edge  
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.000	8.22	34.82	42.37	58.03	58.70	109.40	-50.70 peak
2	5725.000	8.22	34.83	42.37	58.48	59.16	122.20	-63.04 peak
3	5745.000	8.22	34.85	42.38	88.71	89.40	125.20	-35.80 peak

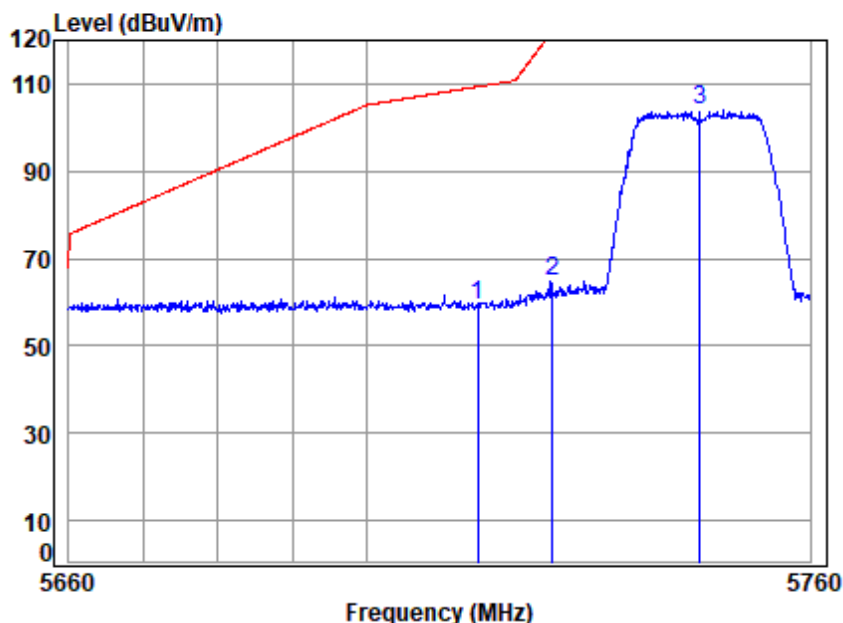


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

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

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

Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

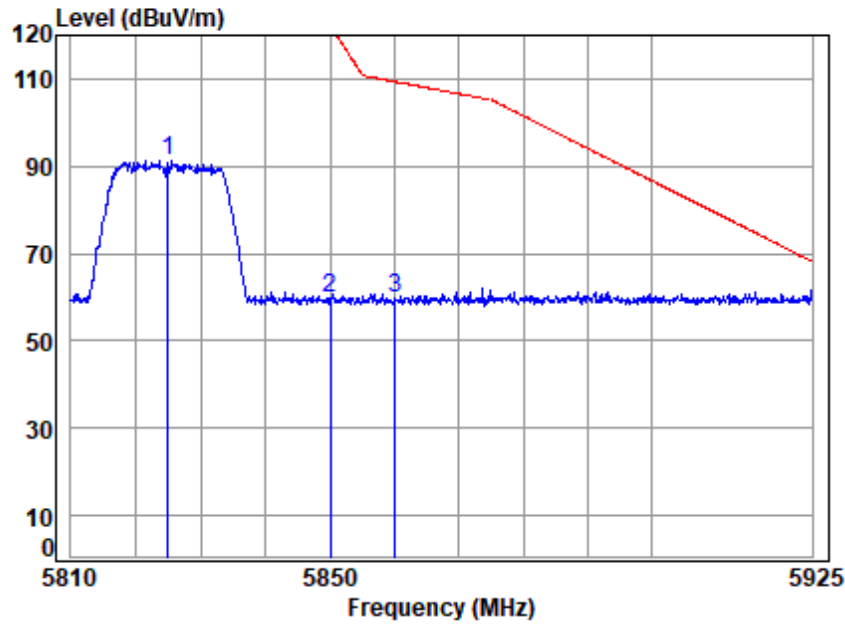


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5745 Band edge  
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.000	8.22	34.82	42.37	58.74	59.41	109.40	-49.99 peak
2	5725.000	8.22	34.83	42.37	64.22	64.90	122.20	-57.30 peak
3	5745.000	8.22	34.85	42.38	103.18	103.87	125.20	-21.33 peak



Test Mode: 06; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: High

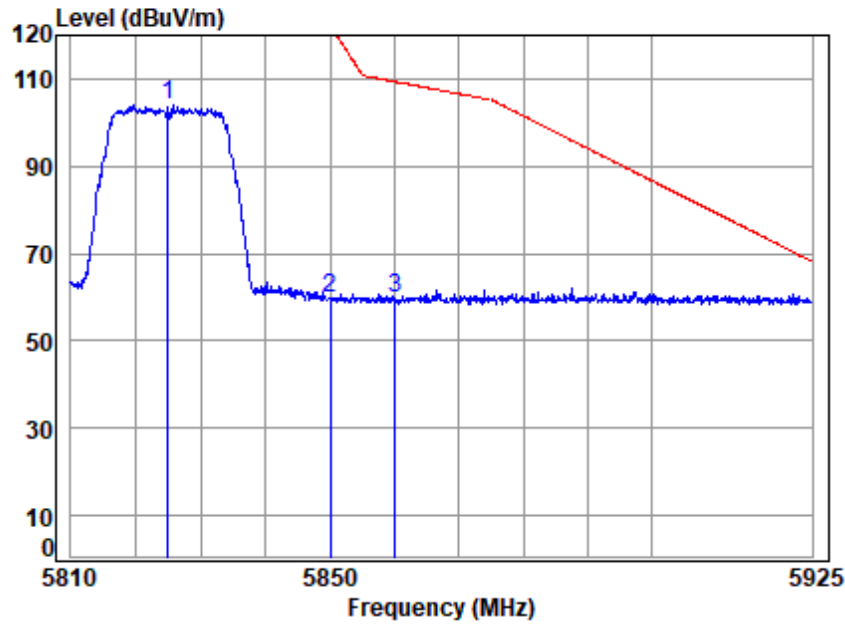


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5825 Band edge  
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5825.000	8.23	34.93	42.38	90.55	91.33	125.20	-33.87 peak
2	5850.000	8.24	34.95	42.39	58.76	59.56	122.20	-62.64 peak
3	5860.000	8.24	34.96	42.39	58.76	59.57	109.40	-49.83 peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

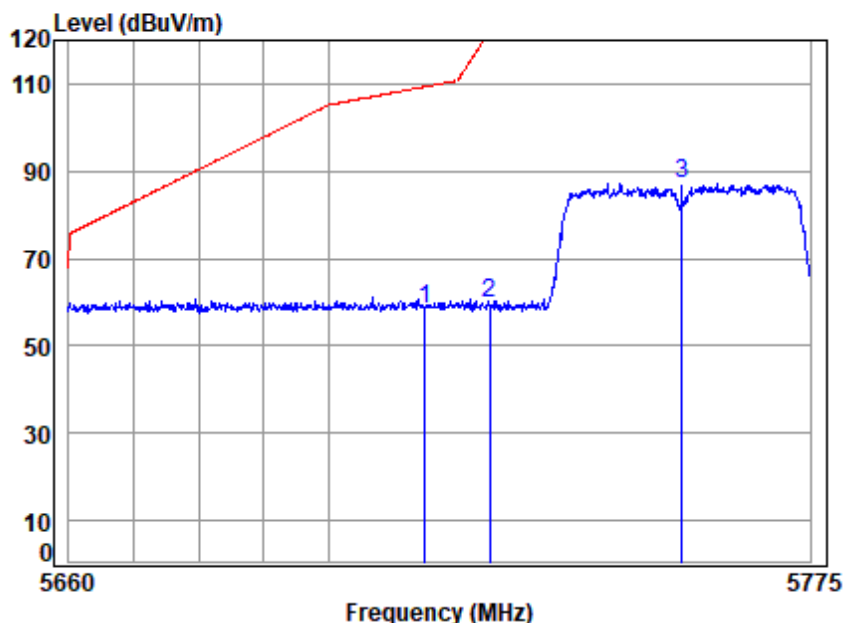


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5825 Band edge  
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	8.23	34.93	42.38	103.22	104.00	125.20	-21.20	peak
2	5850.000	8.24	34.95	42.39	59.02	59.82	122.20	-62.38	peak
3	5860.000	8.24	34.96	42.39	58.89	59.70	109.40	-49.70	peak



Test Mode: 06; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low

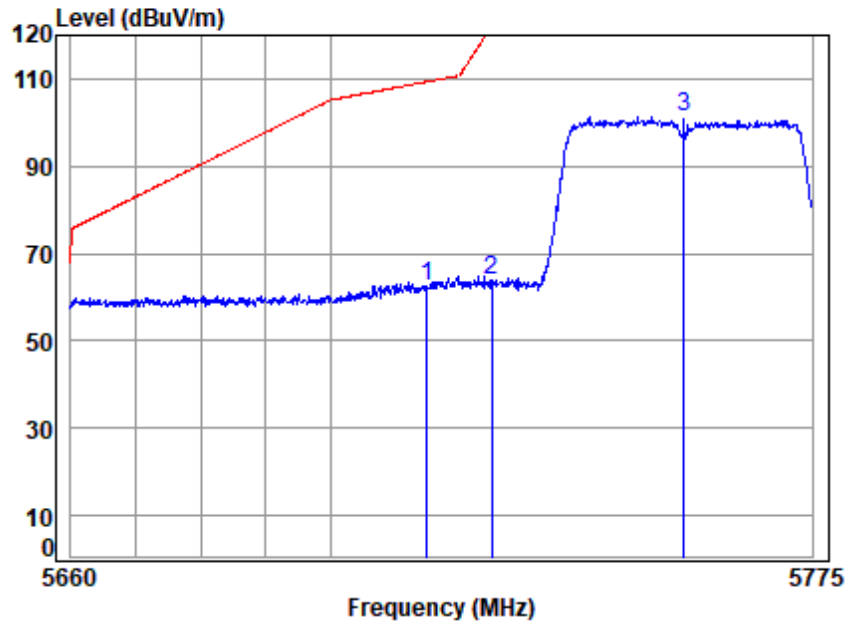


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5755 Band edge  
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	8.22	34.82	42.37	57.76	58.43	109.40	-50.97	peak
2	5725.000	8.22	34.83	42.37	58.91	59.59	122.20	-62.61	peak
3	5755.000	8.22	34.86	42.38	86.43	87.13	125.20	-38.07	peak



Test Mode: 06; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low

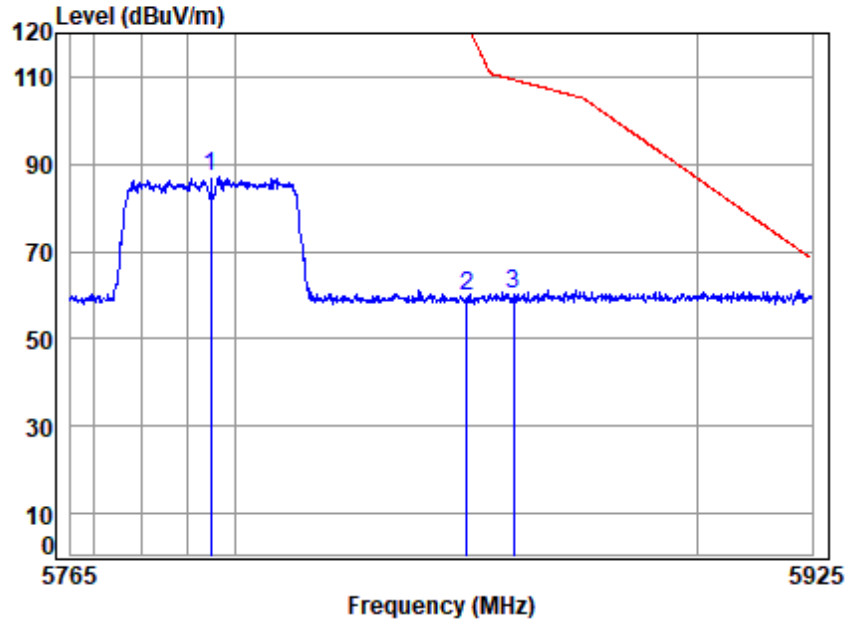


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5755 Band edge  
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.000	8.22	34.82	42.37	61.63	62.30	109.40	-47.10 peak
2	5725.000	8.22	34.83	42.37	63.38	64.06	122.20	-58.14 peak
3	5755.000	8.22	34.86	42.38	100.63	101.33	125.20	-23.87 peak



Test Mode: 06; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: High

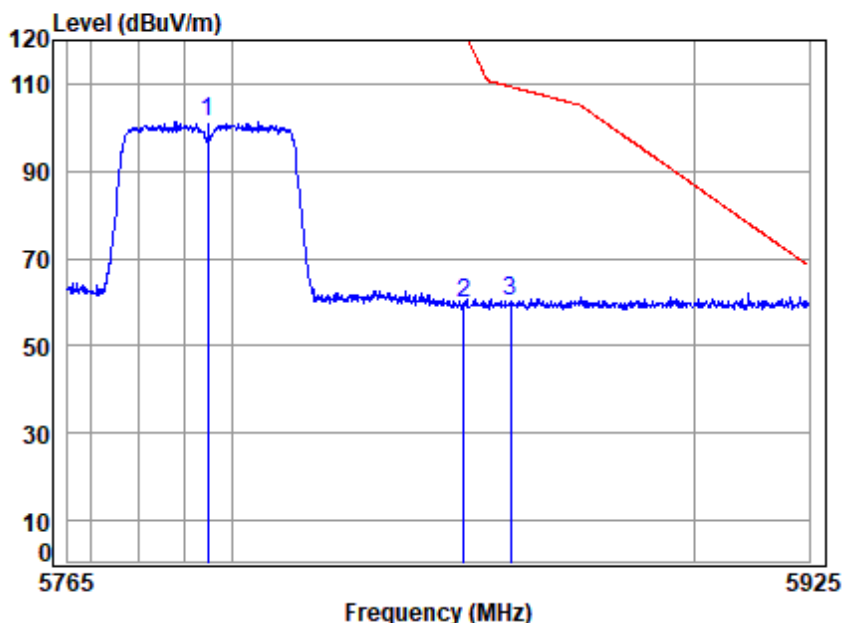


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5795 Band edge  
: 5G WIFI 11AC40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5795.000	8.23	34.90	42.38	86.20	86.95	125.20	-38.25 peak
2 5850.000	8.24	34.95	42.39	58.90	59.70	122.20	-62.50 peak
3 5860.000	8.24	34.96	42.39	59.35	60.16	109.40	-49.24 peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

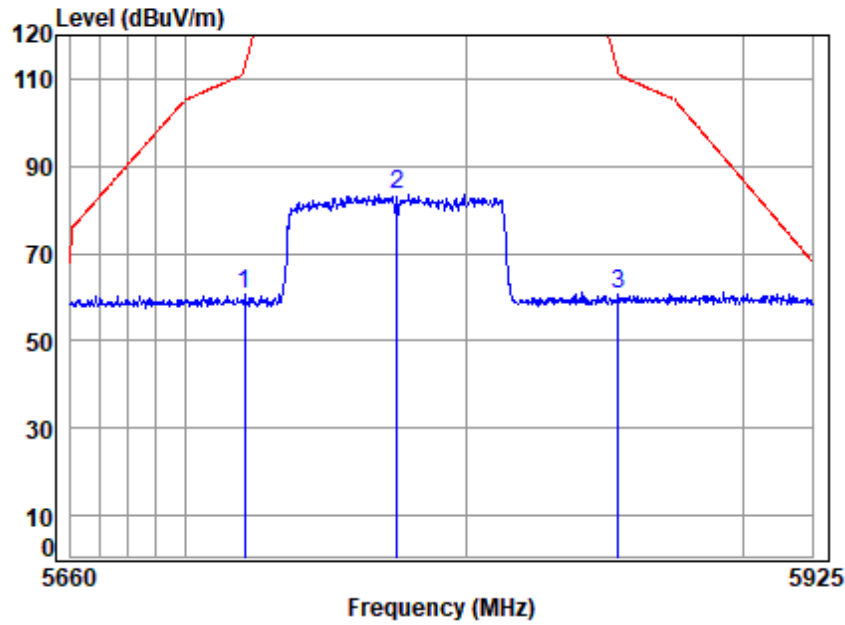


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5795 Band edge  
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5795.000	8.23	34.90	42.38	100.58	101.33	125.20	-23.87 peak
2	5850.000	8.24	34.95	42.39	58.77	59.57	122.20	-62.63 peak
3	5860.000	8.24	34.96	42.39	59.40	60.21	109.40	-49.19 peak



Test Mode: 06; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle

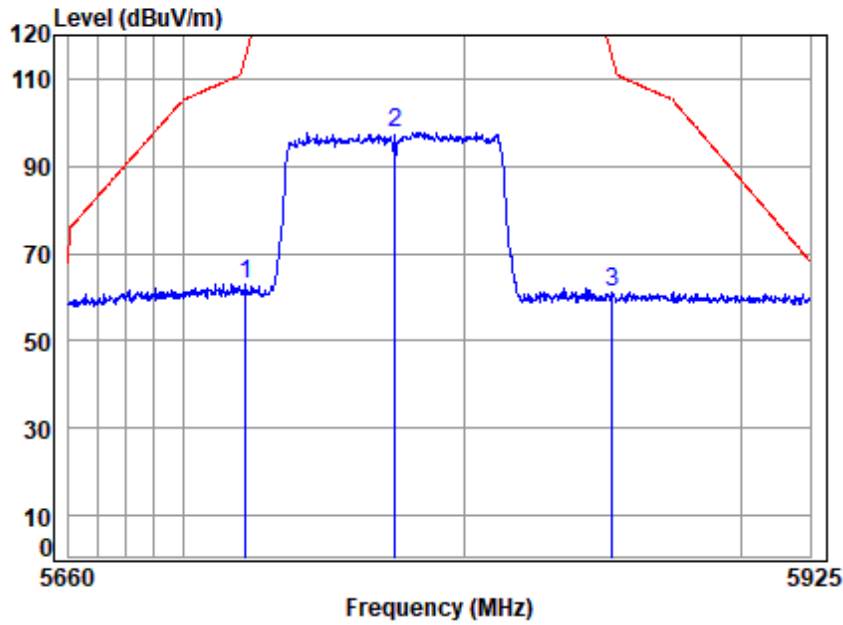


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20011AT/20012AT  
Mode : 5775 Band edge  
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5721.189	8.22	34.83	42.37	59.89	60.57	113.51	-52.94 peak
2	5775.000	8.22	34.88	42.38	82.91	83.63	125.20	-41.57 peak
3	5854.662	8.24	34.96	42.39	60.07	60.88	111.57	-50.69 peak



Test Mode: 06; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 20011AT/20012AT  
Mode : 5775 Band edge  
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5721.975	8.22	34.83	42.37	62.48	63.16	115.30	-52.14 peak
2	5775.000	8.22	34.88	42.38	97.00	97.72	125.20	-27.48 peak
3	5853.054	8.24	34.96	42.39	60.42	61.23	115.24	-54.01 peak



## 7.10 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart C 15.407 (g)

Test Method: ANSI C63.10 (2013) Section 6.8

### 7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 18.4 °C

Humidity: 48.1 % RH

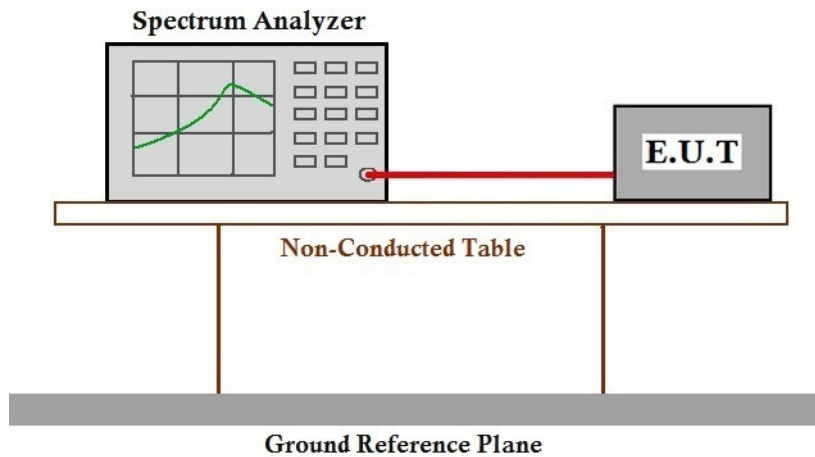
Atmospheric Pressure: 1010 mbar

### 7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	04	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	05	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	06	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



### 7.10.3 Test Setup Diagram



### 7.10.4 Measurement Procedure and Data

The applicant declares that the emissions are maintained within the band of operation under all conditions of normal operation as specified in the user's manual and meets Section 15.407(g) requirements.



## 7.11 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.

### 7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C

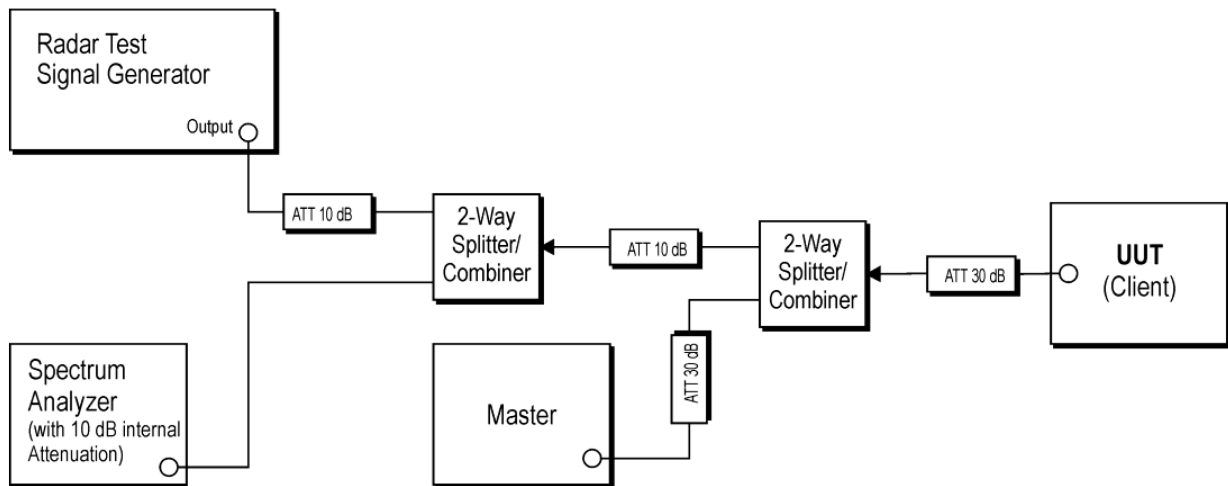
Humidity: 50.1 % RH

Atmospheric Pressure: 1010 mbar

### 7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	Normal operating_Keep the EUT communication with the companion device.

### 7.11.3 Test Setup Diagram



#### 7.11.4 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:  $C (ms) = N \times Dwell (0.3ms)$ ; 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



## 7.12 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.

### 7.12.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C

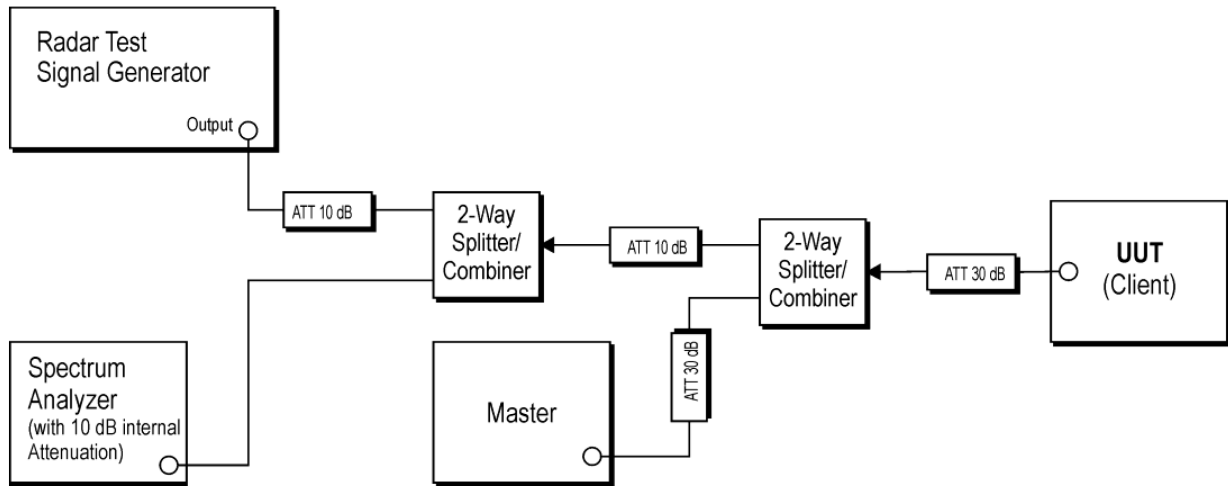
Humidity: 50.1 % RH

Atmospheric Pressure: 1010 mbar

### 7.12.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	Normal operating_Keep the EUT communication with the companion device.

### 7.12.3 Test Setup Diagram



#### 7.12.4 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:  $C (ms) = N \times Dwell (0.3ms)$ ; 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



### 7.13 Radiated Emissions (Below 1GHz)

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

Test Method: KDB 789033 D02 II G

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

#### 7.13.1 E.U.T. Operation

Operating Environment:

Temperature: 25.2 °C

Humidity: 52.3 % RH

Atmospheric Pressure: 1010 mbar

#### 7.13.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	03	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Pre-scan	04	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Pre-scan	05	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data



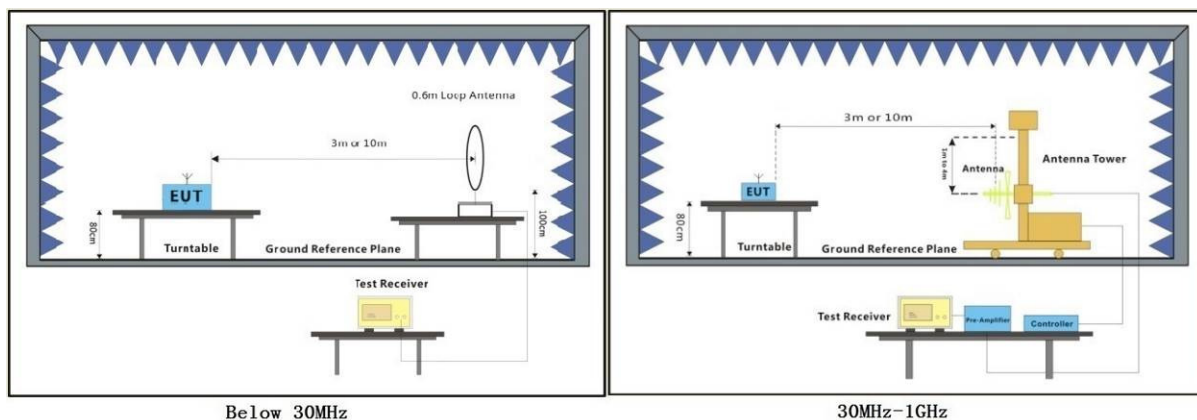
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: [CN.Qdoccheck@sgs.com](mailto:CN.Qdoccheck@sgs.com)

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

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

		rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	06	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

### 7.13.3 Test Setup Diagram



#### 7.13.4 Measurement Procedure and Data

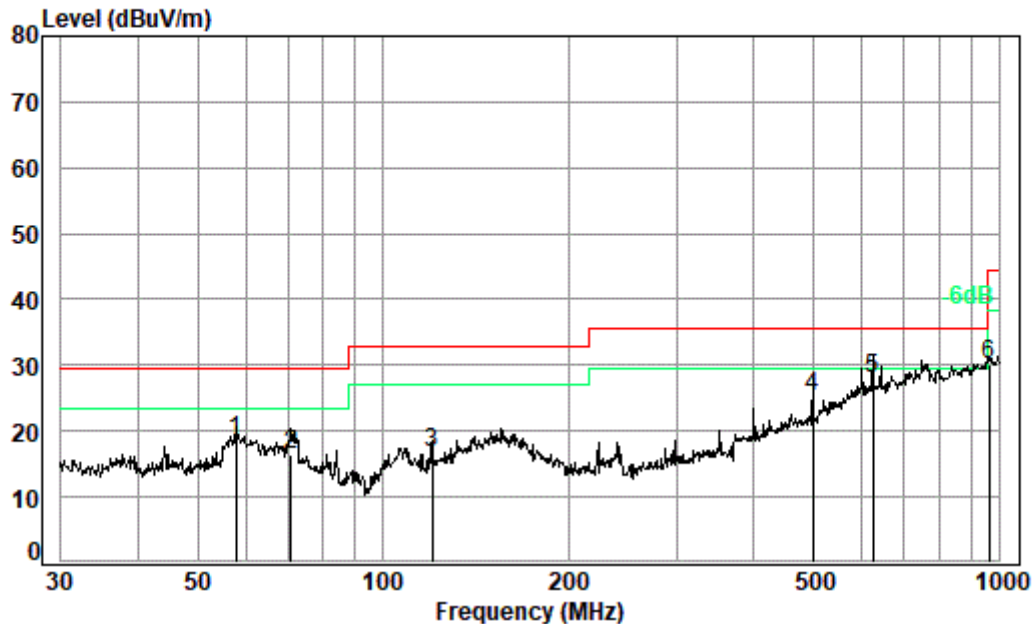
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, 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.



Antenna 1 & 2 were tested for Modulation: 802.11a. Only the worst case(Antenna 1) was recorded in the report.  
Antenna 1, 2 & 1+2, were tested for Modulation: 802.11n(HT20),n(HT40),ac(HT20), ac(HT40), ac(HT80). Only the worst case(Antenna 1+2) was recorded in the report.  
Model1:KPL-040F-VI;Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 10m HORIZONTAL

Job No. : 20011AT

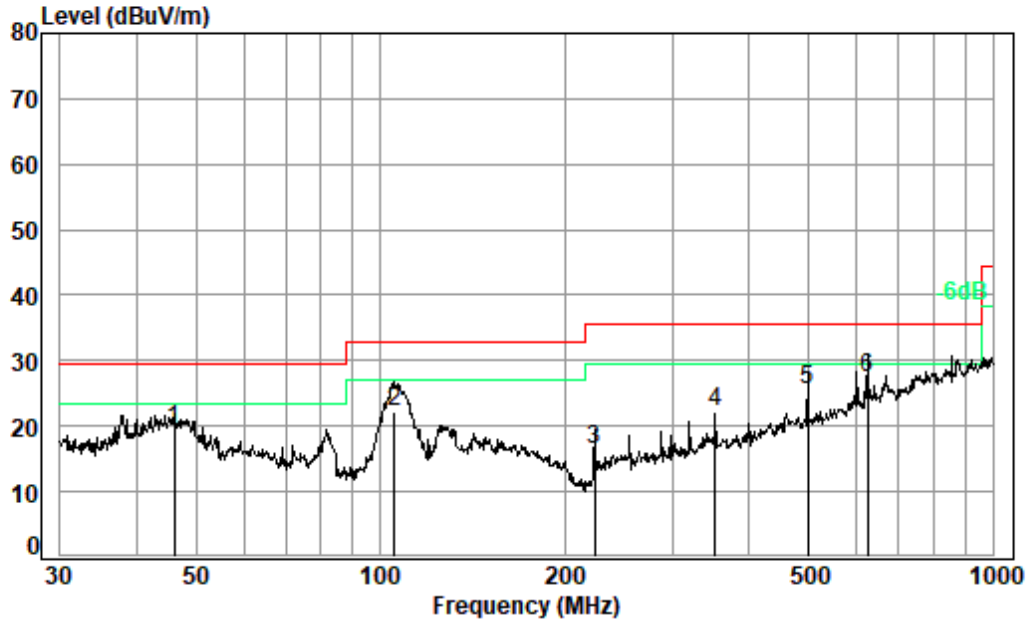
Test Mode: 06

: 5G

	Ant Freq	Ant Factor	Preamp Factor	Cable Loss	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	57.796	19.68	32.49	1.03	30.45	18.67	29.50	-10.83	QP
2	70.832	17.31	32.47	1.09	30.44	16.37	29.50	-13.13	QP
3	120.277	17.13	32.44	1.32	30.79	16.80	33.00	-16.20	QP
4	499.425	23.99	32.30	2.80	30.68	25.17	35.60	-10.43	QP
5 pp	625.078	26.25	32.30	3.12	30.78	27.85	35.60	-7.75	QP
6	965.542	29.98	31.00	3.60	27.64	30.22	44.00	-13.78	QP



Model1:KPL-040F-VI;Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 10m VERTICAL

Job No. : 20011AT

Test Mode: 06

: 5G

		Ant	Preamp	Cable	Read		Limit	Over	
	Freq	Factor	Factor	Loss	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	46.178	20.47	32.50	0.95	30.45	19.37	29.50	-10.13	QP
2	105.272	15.89	32.45	1.28	37.45	22.17	33.00	-10.83	QP
3	223.733	16.26	32.40	1.80	30.62	16.28	35.60	-19.32	QP
4	351.708	20.55	32.34	2.36	31.54	22.11	35.60	-13.49	QP
5	499.425	23.99	32.30	2.80	30.96	25.45	35.60	-10.15	QP
6 pp	625.078	26.25	32.30	3.12	30.45	27.52	35.60	-8.08	QP



The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

$$L_3 / L_{10} = D_{10} / D_3$$

Note:

L<sub>3</sub>: Level @ 3m distance. Unit: uV/m;

L<sub>10</sub>: Level @ 10m distance. Unit: uV/m;

D<sub>3</sub>: 3m distance. Unit: m

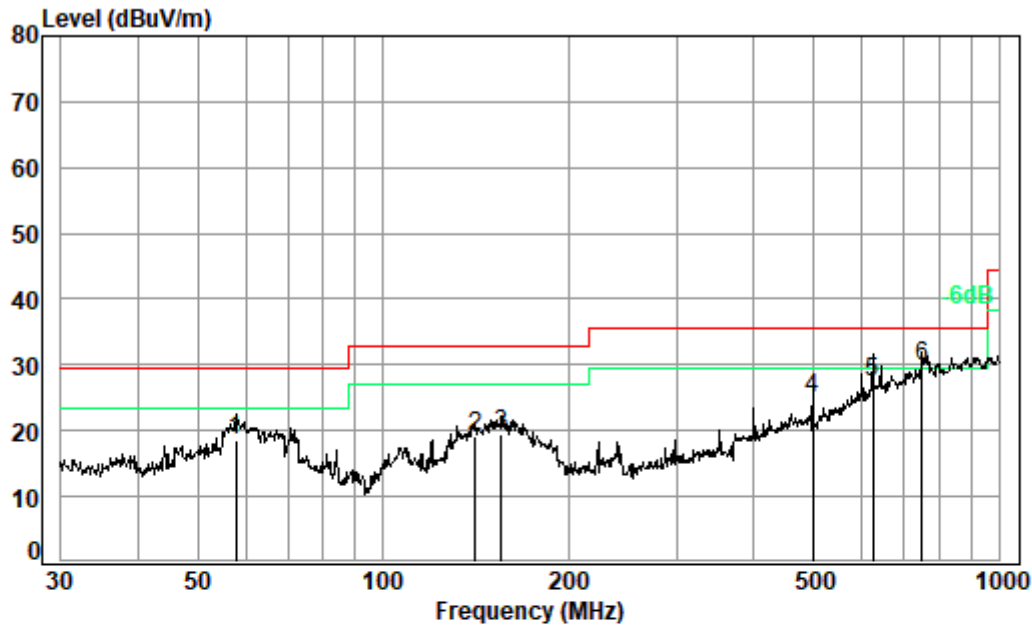
D<sub>10</sub>: 10m distance. Unit: m

The level at 3m test distance is below:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
46.18	19.37	9.30	31.00	29.83	40.00	-10.17	V
105.27	22.17	12.84	42.79	32.63	43.50	-10.87	V
223.73	16.28	6.52	21.72	26.74	46.00	-19.26	V
351.71	22.11	12.75	42.50	32.57	46.00	-13.43	V
499.43	25.45	18.73	62.43	35.91	46.00	-10.09	V
625.08	27.52	23.77	79.23	37.98	46.00	-8.02	V
57.80	18.67	8.58	28.60	29.13	40.00	-10.87	H
70.83	16.37	6.58	21.95	26.83	40.00	-13.17	H
120.28	16.80	6.92	23.06	27.26	43.50	-16.24	H
499.43	25.17	18.13	60.45	35.63	46.00	-10.37	H
625.08	27.85	24.69	82.30	38.31	46.00	-7.69	H
965.54	30.22	32.43	108.11	40.68	54.00	-13.32	H



Model2:WA-36A12R;Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 10m HORIZONTAL

Job No. : 20011AT

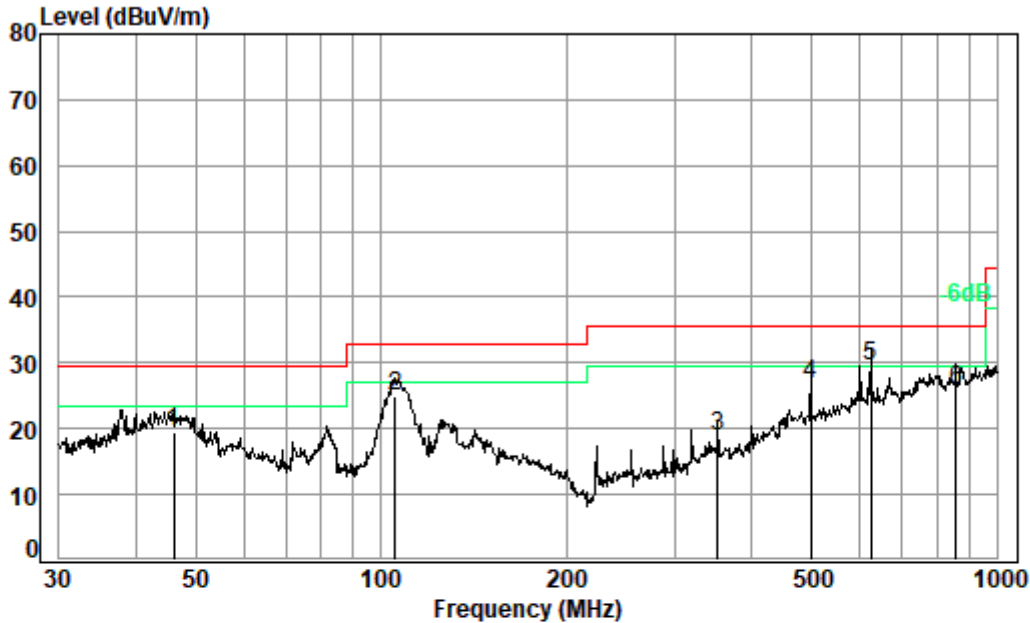
Test Mode: 06

: 5G WA-36A12R

		Ant	Preamp	Cable	Read		Limit	Over	
	Freq	Factor	Factor	Loss	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	57.796	19.68	32.49	1.03	30.40	18.62	29.50	-10.88	QP
2	141.330	19.77	32.43	1.45	30.41	19.20	33.00	-13.80	QP
3	155.910	19.96	32.42	1.51	30.40	19.45	33.00	-13.55	QP
4	499.425	23.99	32.30	2.80	30.40	24.89	35.60	-10.71	QP
5	625.078	26.25	32.30	3.12	30.40	27.47	35.60	-8.13	QP
6 pp	750.108	28.30	32.20	3.33	30.40	29.83	35.60	-5.77	QP



Model2:WA-36A12R;Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 10m VERTICAL

Job No. : 20011AT

Test Mode: 06

: 5G WA-36A12R

	Ant	Preamp	Cable	Read	Limit	Over		
Freq	Factor	Factor	Loss	Level	Line	Limit	Remark	
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	46.178	20.47	32.50	0.95	30.40	19.32	29.50	-10.18 QP
2	105.272	15.89	32.45	1.28	40.20	24.92	33.00	-8.08 QP
3	351.708	20.55	32.34	2.36	28.40	18.97	35.60	-16.63 QP
4	499.425	23.99	32.30	2.80	32.40	26.89	35.60	-8.71 QP
5 pp	625.078	26.25	32.30	3.12	32.40	29.47	35.60	-6.13 QP
6	857.025	28.77	31.81	3.38	25.40	25.74	35.60	-9.86 QP



The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

$$L_3 / L_{10} = D_{10} / D_3$$

Note:

$L_3$ : Level @ 3m distance. Unit:  $\mu\text{V/m}$ ;

$L_{10}$ : Level @ 10m distance. Unit:  $\mu\text{V/m}$ ;

$D_3$ : 3m distance. Unit: m

$D_{10}$ : 10m distance. Unit: m

The level at 3m test distance is below:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m ( $\mu\text{V/m}$ )	Level @ 3m ( $\mu\text{V/m}$ )	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
57.80	18.62	8.53	28.44	29.08	40.00	-10.92	H
141.33	19.20	9.12	30.40	29.66	43.50	-13.84	H
155.91	19.45	9.39	31.29	29.91	43.50	-13.59	H
499.43	24.89	17.56	58.53	35.35	46.00	-10.65	H
625.08	27.47	23.63	78.77	37.93	46.00	-8.07	H
750.11	29.83	31.01	103.37	40.29	46.00	-5.71	H
46.18	19.32	9.25	30.82	29.78	40.00	-10.22	V
105.27	24.92	17.62	58.73	35.38	43.50	-8.12	V
351.71	18.97	8.88	29.61	29.43	46.00	-16.57	V
499.43	26.89	22.11	73.68	37.35	46.00	-8.65	V
625.08	29.47	29.75	99.17	39.93	46.00	-6.07	V
857.03	25.74	19.36	64.55	36.20	46.00	-9.80	V



## 8 Test Setup Photo

Refer to Setup Photos

## 9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2103020011AT



## 10 Appendix

### Appendix for 15.407

#### 1. Duty Cycle

##### 1.1 Test Result

Test Mode	Channel Frequency (MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11a	5180	SISO	1	1.365	1.404	97.22	0.12
	5200	SISO	1	1.364	1.404	97.15	0.13
	5240	SISO	1	1.365	1.404	97.22	0.12
	5260	SISO	1	1.364	1.404	97.15	0.13
	5300	SISO	1	1.365	1.404	97.22	0.12
	5320	SISO	1	1.365	1.405	97.15	0.13
	5500	SISO	1	1.365	1.404	97.22	0.12
	5580	SISO	1	1.365	1.406	97.08	0.13
	5600	SISO	1	1.366	1.404	97.29	0.12
	5700	SISO	1	1.365	1.404	97.22	0.12
	5745	SISO	1	1.366	1.404	97.29	0.12
	5785	SISO	1	1.366	1.404	97.29	0.12
	5825	SISO	1	1.365	1.404	97.22	0.12
802.11n(HT20)	5180	MIMO	1	1.308	1.349	96.96	0.13
	5200	MIMO	1	1.307	1.348	96.96	0.13
	5240	MIMO	1	1.308	1.349	96.96	0.13
	5260	MIMO	1	1.308	1.349	96.96	0.13
	5300	MIMO	1	1.307	1.348	96.96	0.13
	5320	MIMO	1	1.308	1.348	97.03	0.13
	5500	MIMO	1	1.308	1.348	97.03	0.13
	5580	MIMO	1	1.307	1.348	96.96	0.13
	5600	MIMO	1	1.308	1.348	97.03	0.13
	5700	MIMO	1	1.306	1.347	96.96	0.13
	5745	MIMO	1	1.308	1.348	97.03	0.13
	5785	MIMO	1	1.307	1.348	96.96	0.13
	5825	MIMO	1	1.307	1.348	96.96	0.13
802.11n(HT40)	5190	MIMO	1	0.618	0.656	94.21	0.26
	5230	MIMO	1	0.618	0.657	94.06	0.27
	5270	MIMO	1	0.618	0.656	94.21	0.26
	5310	MIMO	1	0.619	0.656	94.36	0.25



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

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

	5510	MIMO	1	0.618	0.657	94.06	0.27
	5550	MIMO	1	0.619	0.657	94.22	0.26
	5590	MIMO	1	0.618	0.657	94.06	0.27
	5670	MIMO	1	0.618	0.656	94.21	0.26
	5755	MIMO	1	0.619	0.656	94.36	0.25
	5795	MIMO	1	0.619	0.656	94.36	0.25
802.11ac(VHT20)	5180	MIMO	1	1.314	1.355	96.97	0.13
	5200	MIMO	1	1.315	1.356	96.98	0.13
	5240	MIMO	1	1.314	1.355	96.97	0.13
	5260	MIMO	1	1.314	1.355	96.97	0.13
	5300	MIMO	1	1.316	1.356	97.05	0.13
	5320	MIMO	1	1.316	1.357	96.98	0.13
	5500	MIMO	1	1.315	1.355	97.05	0.13
	5580	MIMO	1	1.315	1.355	97.05	0.13
	5600	MIMO	1	1.314	1.355	96.97	0.13
	5700	MIMO	1	1.314	1.355	96.97	0.13
	5745	MIMO	1	1.315	1.355	97.05	0.13
	5785	MIMO	1	1.316	1.356	97.05	0.13
	5825	MIMO	1	1.316	1.357	96.98	0.13
802.11ac(VHT40)	5190	MIMO	1	0.626	0.664	94.28	0.26
	5230	MIMO	1	0.625	0.663	94.27	0.26
	5270	MIMO	1	0.625	0.664	94.13	0.26
	5310	MIMO	1	0.626	0.664	94.28	0.26
	5510	MIMO	1	0.626	0.664	94.28	0.26
	5550	MIMO	1	0.626	0.664	94.28	0.26
	5590	MIMO	1	0.626	0.664	94.28	0.26
	5670	MIMO	1	0.626	0.664	94.28	0.26
	5755	MIMO	1	0.626	0.664	94.28	0.26
	5795	MIMO	1	0.625	0.663	94.27	0.26
802.11ac(VHT80)	5210	MIMO	1	0.324	0.364	89.01	0.51
	5290	MIMO	1	0.324	0.363	89.26	0.49
	5530	MIMO	1	0.324	0.364	89.01	0.51
	5610	MIMO	1	0.324	0.363	89.26	0.49
	5775	MIMO	1	0.324	0.363	89.26	0.49



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

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

### 1.2 Test Graph

