

Report No.: HR/2019/2000204

1 of 83

FCC TEST REPORT

HR/2019/20002 **Application No:**

Applicant: GREAT TALENT TECHNOLOGY LIMITED

Address of Applicant RM602,T3 Software Park,Hi-Tech Park South,Nanshan,Shenzhen,China

Manufacturer: **GREAT TALENT TECHNOLOGY LIMITED**

Address of Manufacturer RM602,T3 Software Park,Hi-Tech Park South,Nanshan,Shenzhen,China

Factory: **GREAT TALENT TECHNOLOGY LIMITED**

Address of Factory RM602,T3 Software Park,Hi-Tech Park South,Nanshan,Shenzhen,China

EUT Description: Smartphone

Model No.: L51 Trade Mark: **ANS**

FCC ID: 2ALZM-L51

47 CFR FCC Part 2, Subpart J Standards:

47 CFR Part 15, Subpart C

KDB558074 D01 15.247 Meas Guidance v05 **Test Method**

ANSI C63.10 (2013)

Date of Receipt: 2019/3/4

Date of Test: 2019/3/4 to 2019/3/31

Date of Issue: 2019/3/31

Test Result: PASS *

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

Derde yang

Derek Yang

Wireless Laboratory Manager



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1 Version

	Revision Record								
Version Chapter Date Modifier Remark									
00		2019/3/31		Original					

Authorized for issue by:		
Tested By	Mike Yu	2019/3/31
	(Mike Hu) /Project Engineer	Date
Checked By	David Chen	2019/3/31
•		



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Test Summary

Test Item	Test Requirement	Test method	Test Result	Result
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013	Clause 4.2	PASS
Duty Cycle			Clause 4.3	PASS
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.8	PASS
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10 2013	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10 2013	Clause 4.10	PASS



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3 General Information

3.1 Client Information

Applicant:	GREAT TALENT TECHNOLOGY LIMITED
Address of Applicant:	RM602,T3 Software Park,Hi-Tech Park South,Nanshan,Shenzhen,China
Manufacturer:	GREAT TALENT TECHNOLOGY LIMITED
Address of Manufacturer:	RM602,T3 Software Park,Hi-Tech Park South,Nanshan,Shenzhen,China
Factory:	GREAT TALENT TECHNOLOGY LIMITED
Address of Factory:	RM602,T3 Software Park,Hi-Tech Park South,Nanshan,Shenzhen,China

3.2 Test Location

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



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3.3 Test Facility

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

• CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• A2LA (Certificate No. 3816.01)

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

VCCI

The 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.

• Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.



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3.4 General Description of EUT

EUT Description::	Smartphone					
Model No.:	L51					
Trade Mark:	ANS					
IEEE 802.11 WLAN Mode Supported	 ⊠ 802.11B (20 MHz channel bandwidth), ⊠ 802.11G (20 MHz channel bandwidth) ⊠ 802.11N (20 MHz channel bandwidth), □ 802.11N (40 MHz channel bandwidth) 					
Operation Frequency:	2400 MHz -2483.5MHz fc = 2407 MHz + N * 5 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 1 to 11 for the 20 MHz channel bandwidth, or 3 to 9 for the 40 MHz channel bandwidth.					
Type of Modulation:	IEEE for 802.11B: DSSS IEEE for 802.11G: OFDM IEEE for 802.11N(HT20): OFDM					
Sample Type:	☑ Portable Device, ☐Module					
Antenna Type:	☐ External, ☑ Integrated					
Antenna Ports						
Smart System	 ⊠ SISO (for 802.11B/G/N), □ MIMO (for 802.11N): 2 Tx & 2 Rx, □ Diversity (for 802.11B/G): Tx & Rx 					
Antenna Gain:	2.35dBi					
Power Supply	□ AC/DC Adapter; □ Battery □ PoE:; □ Other:					

Operation Frequency of each channel (802.11B/G/N HT20)									
Channel	Channel Frequency Channel Frequency Channel Frequency Channel Frequency								
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz		
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz		
3	2422MHz	6	2437MHz	9	2452MHz				

Remark:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency for 802.11B/G/N (HT20)
The Lowest channel	2412MHz
The Middle channel	2437MHz
The Highest channel	2462MHz



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3.5 Test Environment and Mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	50 % RH
Atmospheric Pressure:	101.30 KPa
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.

3.6 Description of Support Units

The EUT has been tested independent unit.



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

15.203 requirement:

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

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.35dBi.



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4.2 AC Power Line Conducted Emissions

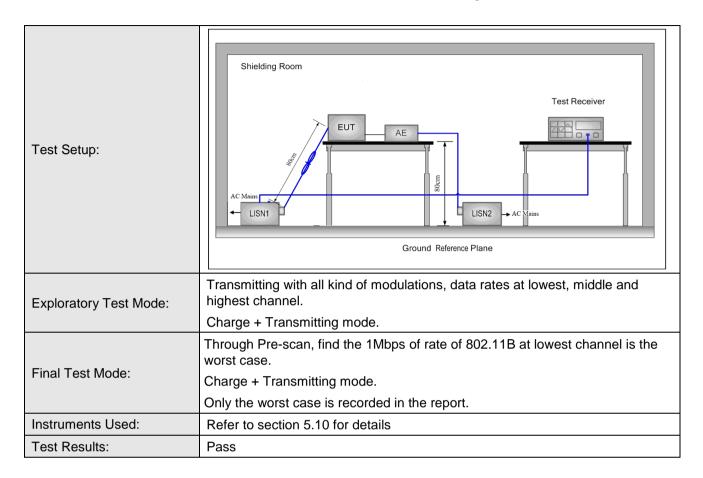
Test Requirement:	47 CFR Part 15C Section 15.207				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	150kHz to 30MHz				
	Frequency range (MHz)	Limit (dBuV)			
	r requerity range (wir iz)	Quasi-peak	Average		
1 1 14.	0.15-0.5	66 to 56*	56 to 46*		
Limit:	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the logarith	nm of the frequency.			
Test Procedure:	room. 2) The EUT was connected Impedance Stabilization impedance. The power of to a second LISN 2, which plane in the same way as multiple socket outlet strict single LISN provided the 3) The tabletop EUT was placed on the horizontal 4) The test was performed of the EUT shall be 0.4 in vertical ground reference reference plane. The LIS unit under test and bond mounted on top of the ground the EUT and associated 5) In order to find the maxim	* Decreases with the logarithm of the frequency. 1) The mains terminal disturbance voltage test was conducted in a shielded			





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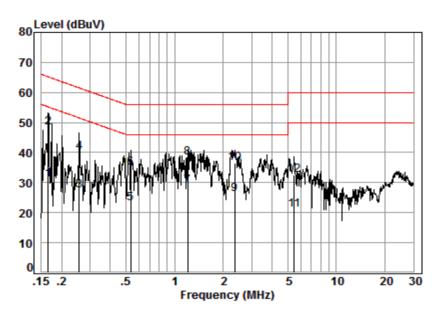
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Measurement Data

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

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

Live Line:



Site : Shielding Room

Condition: Line Job No. : 11305CR

Test mode: b

	_	Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17	0.01	9.66	21.37	31.04	55.21	-24.17	Average
2	0.17	0.01	9.66	38.60	48.27	65.21	-16.94	QP
3	0.26	0.03	9.67	17.54	27.24	51.51	-24.27	Average
4	0.26	0.03	9.67	30.45	40.15	61.51	-21.36	QP
5	0.53	0.06	9.67	13.24	22.97	46.00	-23.03	Average
6	0.53	0.06	9.67	25.36	35.09	56.00	-20.91	QP
7	1.20	0.11	9.73	19.10	28.94	46.00	-17.06	Average
8	1.20	0.11	9.73	28.39	38.23	56.00	-17.77	QP
9	2.35	0.16	9.71	16.31	26.18	46.00	-19.82	Average
10	2.35	0.16	9.71	26.74	36.61	56.00	-19.39	QP
11	5.51	0.17	9.75	11.09	21.01	50.00	-28.99	Average
12	5.51	0.17	9.75	22.60	32.52	60.00	-27.48	QP



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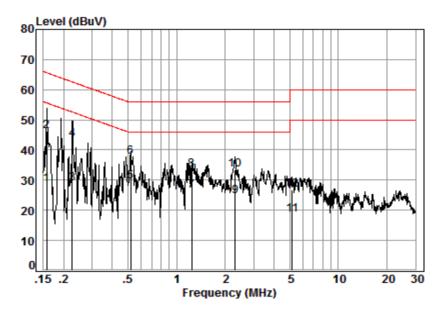
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Neutral Line:



Site : Shielding Room

Condition: Neutral Job No. : 11305CR

Test mode: b

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.16	0.01	9.63	19.06	28.70	55.60	-26.90	Average
2	0.16	0.01	9.63	36.46	46.10	65.60	-19.50	QP
3	0.23	0.03	9.64	19.08	28.75	52.57	-23.82	Average
4	0.23	0.03	9.64	33.76	43.43	62.57	-19.14	QP
5	0.52	0.06	9.64	19.95	29.65	46.00	-16.35	Average
6	0.52	0.06	9.64	28.12	37.82	56.00	-18.18	QP
7	1.24	0.11	9.70	16.71	26.52	46.00	-19.48	Average
8	1.24	0.11	9.70	23.78	33.59	56.00	-22.41	QP
9	2.30	0.16	9.68	14.86	24.70	46.00	-21.30	Average
10	2.30	0.16	9.68	23.67	33.51	56.00	-22.49	QP
11	5.19	0.17	9.72	8.61	18.50	50.00	-31.50	Average
12	5.19	0.17	9.72	17.02	26.91	60.00	-33.09	QP

Remarks:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.



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4.3 Duty Cycle

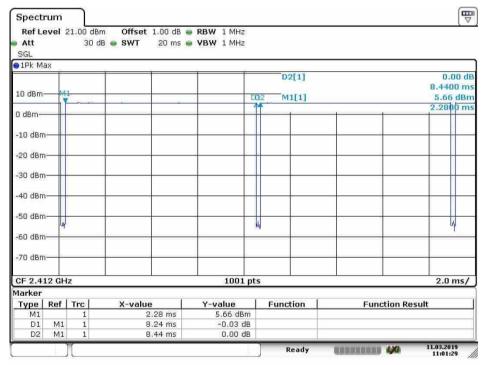
4.3.1 Test Results

Test Mode	TX Freq. [MHz]	Duty cycle [%]
11B	Ant 1: CH1	97.63
11G	Ant 1: CH1	86.54
11N20	Ant 1: CH1	85.84

4.3.1 Test Plots

4.3.1.1 ANT1

4.3.1.1.1 11B



Date: 11.MAR.2019 11:01:30



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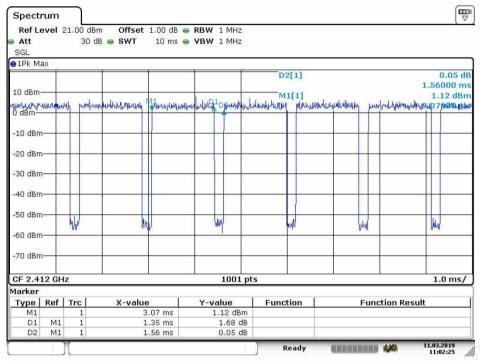
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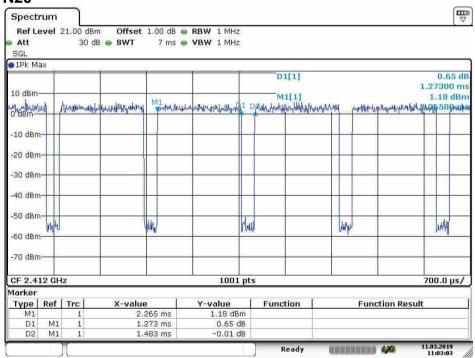
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4.3.1.1.2 11G



Date: 11.MAR.2019 11:02:25

4.3.1.1.3 11N20



Date: 11.MAR.2019 11:03:03



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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)		
Test Method:	ANSI C63.10 :2013 Section 11.9.1.3		
Test Setup:	POWER METER E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 5.10 for details		
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates		
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G; 6.5Mbps of rate is the worst case of 802.11N(HT20);		
Limit:	30dBm		
Test Results:	Pass		



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4.4.1 Test Results

Measurement Data of Average Power:

Mode	Test Channel	Average Output Power (dBm)	Result	
	Lowest	13.11	Report purpose only	
802.11B	Middle	13.24	Report purpose only	
002.1112	Highest	13.35	Report purpose only	
	Lowest	13.37	Report purpose only	
802.11G	Middle	12.85	Report purpose only	
302	Highest	11.86	Report purpose only	
	Lowest	13.69	Report purpose only	
802.11N20	Middle	12.96	Report purpose only	
332.111120	Highest	12.17	Report purpose only	

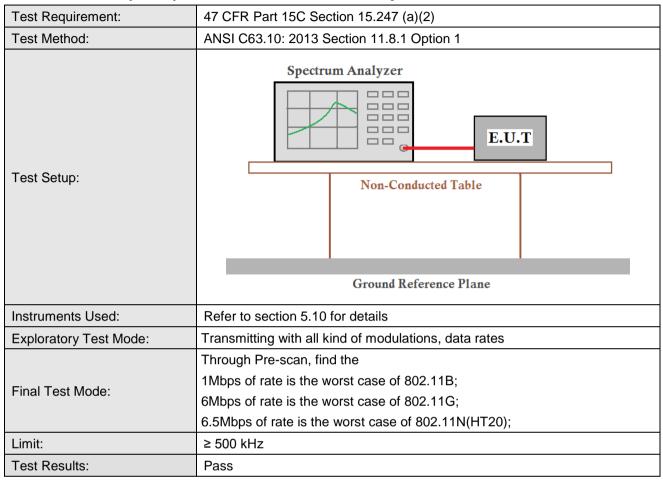
Measurement Data of Peak Power:

Mode	Test Channel	Peak Output Power (dBm)	Limit (dBm)	Result
	Lowest	15.38	30.00	Pass
802.11B	Middle	15.87	30.00	Pass
	Highest	16.11	30.00	Pass
	Lowest	19.78	30.00	Pass
802.11G	Middle	19.56	30.00	Pass
0020	Highest	18.74	30.00	Pass
	Lowest	19.13	30.00	Pass
802.11N20	Middle	19.72	30.00	Pass
	Highest	18.95	30.00	Pass



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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth



4.5.1 Test Results

Mode	Test Channel	Occupied Bandwidth (MHz)	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
	Lowest	12.99	7.63	≥500	Pass
802.11B	Middle	12.95	8.11	≥500	Pass
002.112	Highest	12.95	7.63	≥500	Pass
	Lowest	16.66	16.34	≥500	Pass
802.11G	Middle	16.66	16.38	≥500	Pass
3323	Highest	16.62	16.34	≥500	Pass
	Lowest	17.78	17.58	≥500	Pass
802.11N20	Middle	17.78	17.42	≥500	Pass
00220	Highest	17.78	17.34	≥500	Pass



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4.5.2 Test plots

4.5.2.1 ANT1

4.5.2.1.1 802.11B Lowest Channel







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4.5.2.1.2 802.11B Middle Channel



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4.5.2.1.3 802.11B_ Highest Channel



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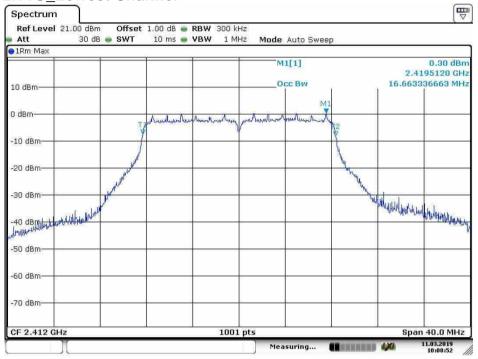
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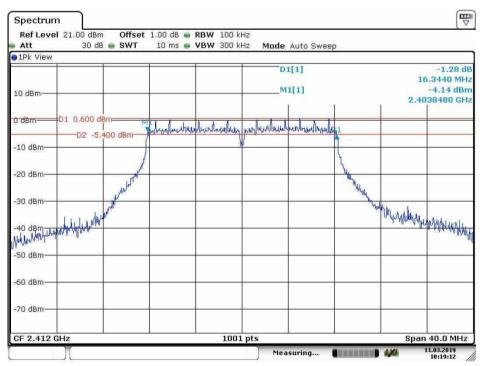
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4.5.2.1.4 802.11G Lowest Channel



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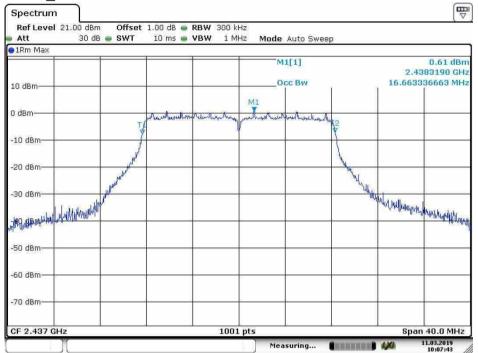
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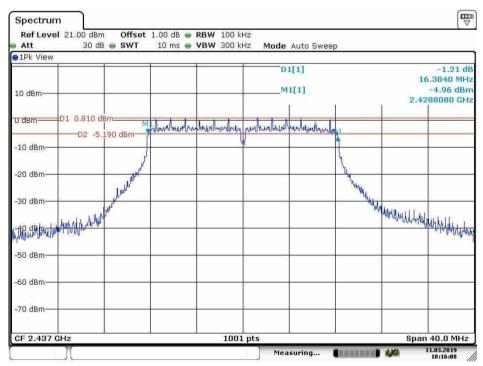
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4.5.2.1.5 802.11G Middle Channel



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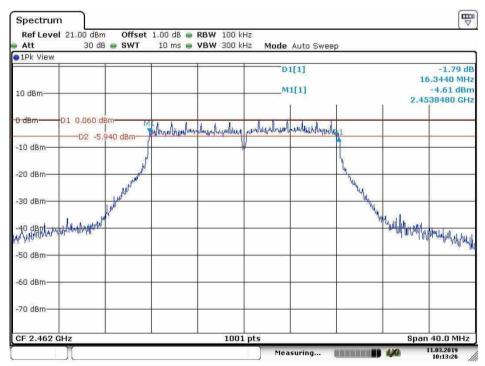
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4.5.2.1.6 802.11G_ Highest Channel



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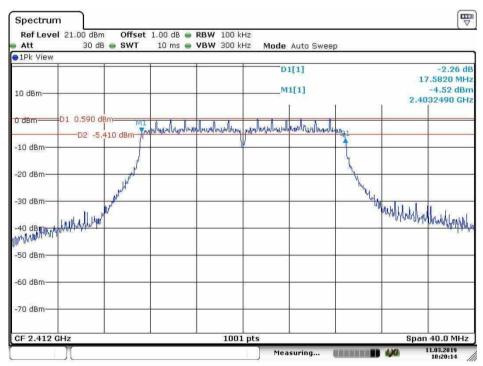
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4.5.2.1.7 802.11N20 Lowest Channel



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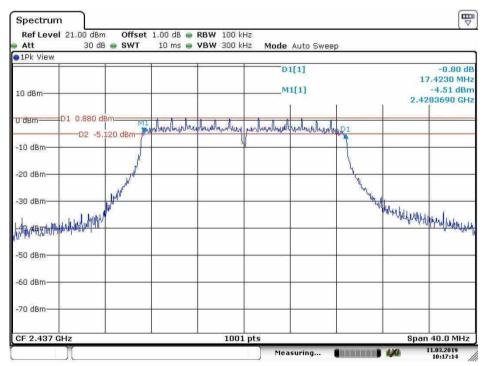
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4.5.2.1.8 802.11 N20 Middle Channel



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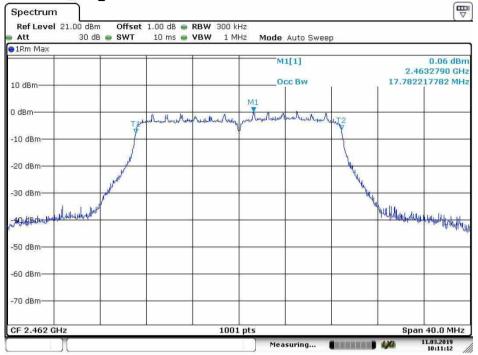
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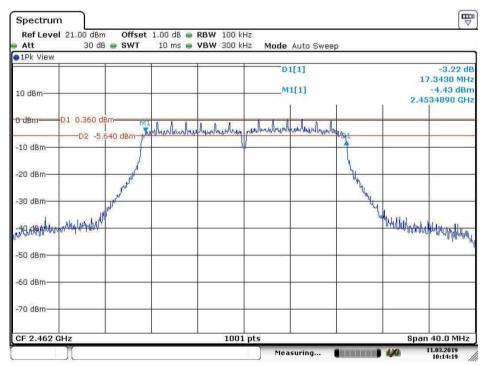
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4.5.2.1.9 802.11 N20_ Highest Channel



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Date: 11.MAR.2019 10:14:20



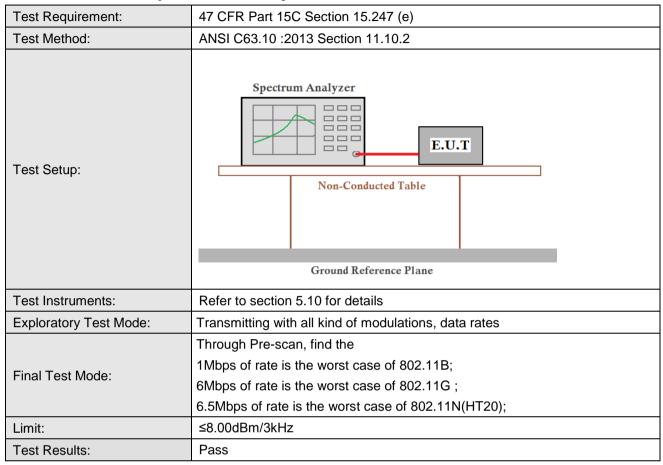
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4.6 Power Spectral Density



4.6.1 Test Results

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
	Lowest	-9.63	≥8.00	Pass
802.11B	Middle	-9.95	≤8.00	Pass
3322	Highest	-10.39	≤8.00	Pass
802.11G	Lowest	-12.18	≤8.00	Pass
	Middle	-11.15	≤8.00	Pass
	Highest	-12.47	≤8.00	Pass
	Lowest	-12.09	≤8.00	Pass
802.11N20	Middle	-12.17	≤8.00	Pass
	Highest	-12.49	≤8.00	Pass



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4.6.2 Test plots

4.6.2.1 ANT1

4.6.2.1.1 802.11B_Lowest Channel



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4.6.2.1.2 802.11B_ Middle Channel



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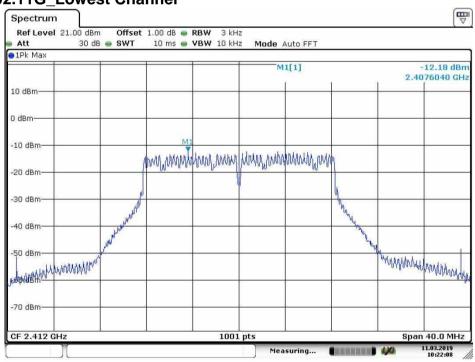
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4.6.2.1.3 802.11B_ Highest Channel



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4.6.2.1.4 802.11G Lowest Channel



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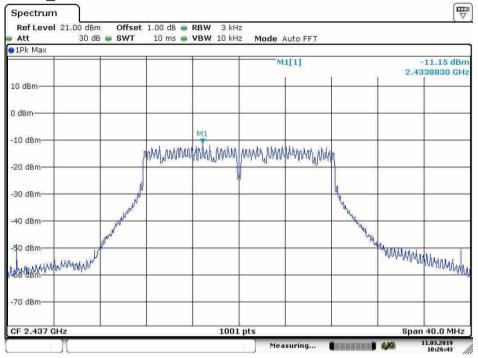
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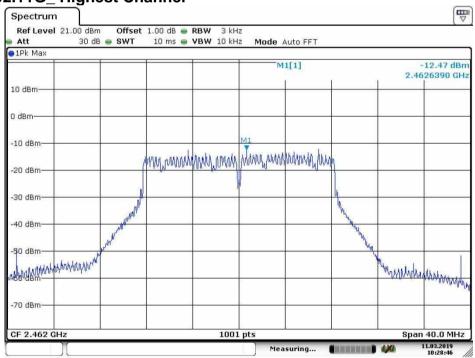
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4.6.2.1.5 802.11G Middle Channel



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4.6.2.1.6 802.11G_ Highest Channel



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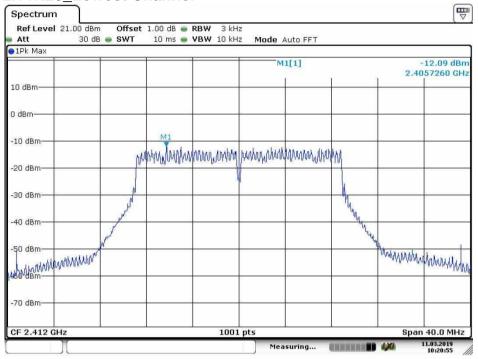
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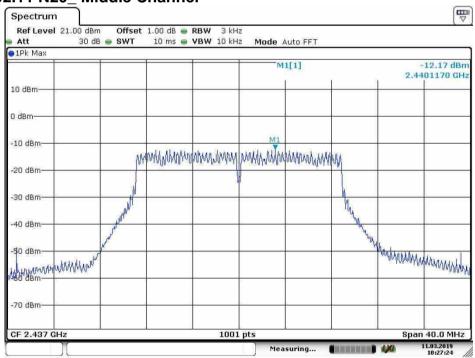
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4.6.2.1.7 802.11N20 Lowest Channel



Date: 11.MAR.2019 10:20:55

4.6.2.1.8 802.11 N20 Middle Channel



Date: 11.MAR.2019 10:27:25



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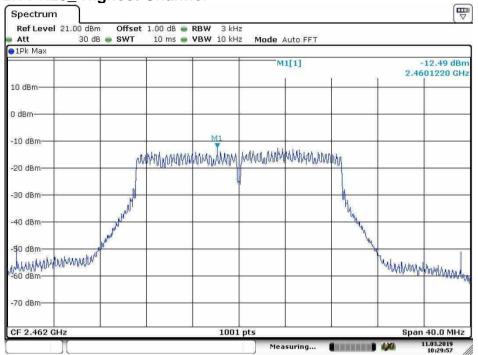
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4.6.2.1.9 802.11 N20_ Highest Channel



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4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)		
Test Method:	ANSI C63.10: 2013 Section 11.13		
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates		
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G; 6.5Mbps of rate is the worst case of 802.11N(HT20);		
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.		
Instruments Used:	Refer to section 5.10 for details		
Test Results:	Pass		



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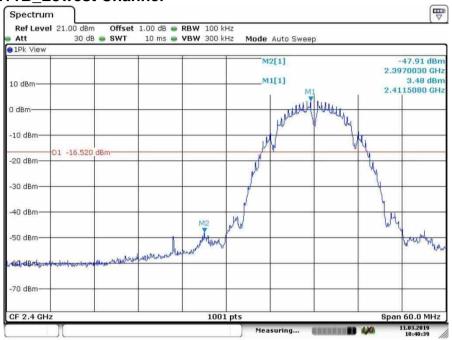
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4.7.1 Test plots

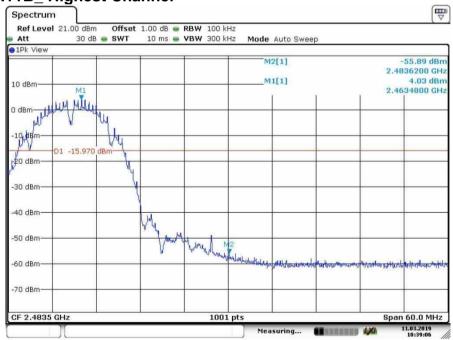
4.7.1.1 ANT1

4.7.1.1.1 802.11B_Lowest Channel



Date: 11.MAR.2019 10:40:40

4.7.1.1.2 802.11B_ Highest Channel



Date: 11.MAR.2019 10:39:07



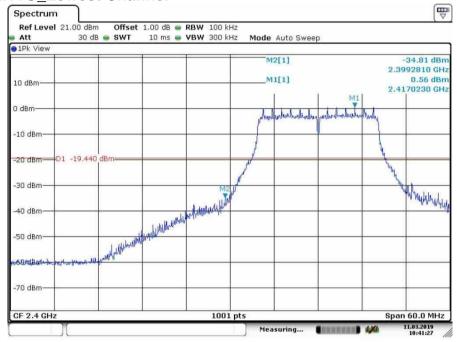
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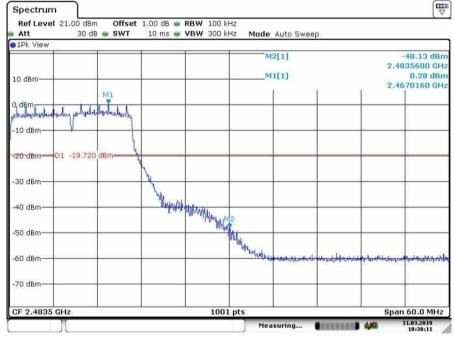
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4.7.1.1.3 802.11G Lowest Channel



Date: 11.MAR.2019 10:41:27

4.7.1.1.4 802.11G_ Highest Channel



Date: 11.MAR.2019 10:38:11



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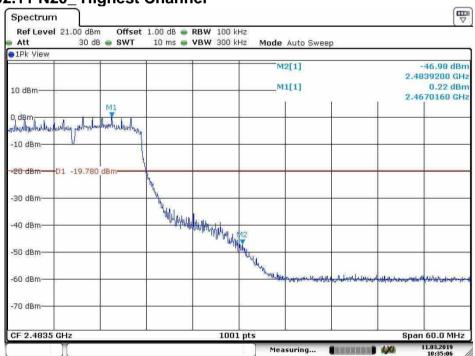
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4.7.1.1.5 802.11N20 Lowest Channel



Date: 11.MAR.2019 10:42:15

4.7.1.1.6 802.11 N20_ Highest Channel



Date: 11.MAR.2019 10:35:06



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4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)					
Test Method:	ANSI C63.10: 2013 Section 11.11					
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates					
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G; 6.5Mbps of rate is the worst case of 802.11N(HT20);					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.					
Instruments Used:	Refer to section 5.10 for details					
Test Results:	Pass					





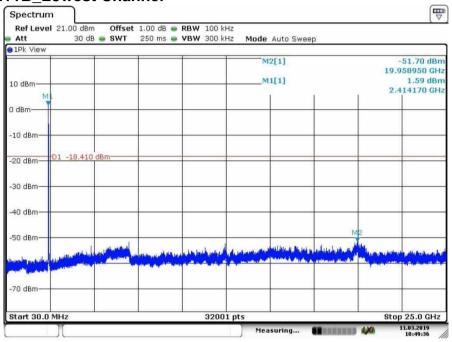
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4.8.1 Test plots

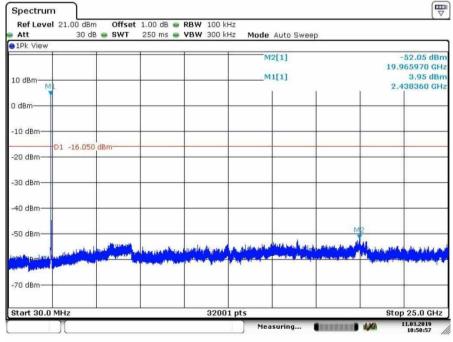
4.8.1.1 ANT1

4.8.1.1.1 802.11B Lowest Channel



Date: 11.MAR.2019 10:49:36

4.8.1.1.2 802.11B Middle Channel



Date: 11.MAR.2019 10:50:57



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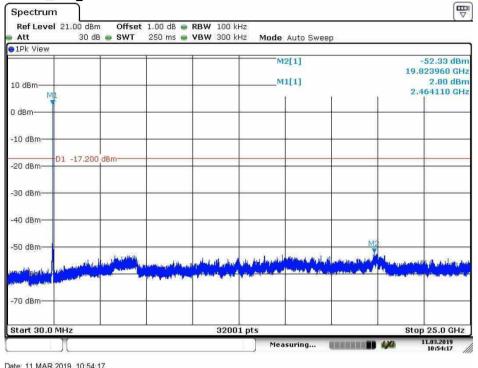
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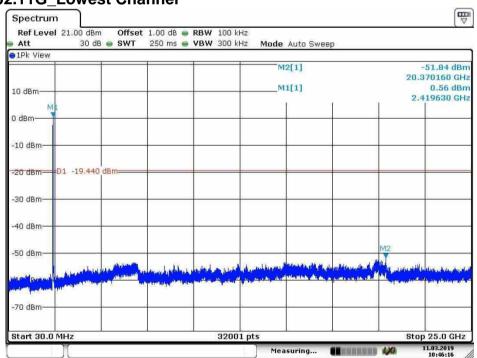
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4.8.1.1.3 802.11B_ Highest Channel



4.8.1.1.4 802.11G Lowest Channel



Date: 11.MAR.2019 10:46:16



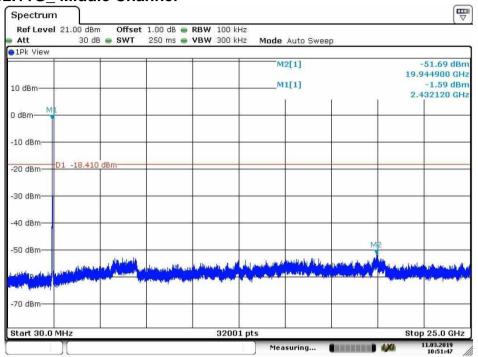
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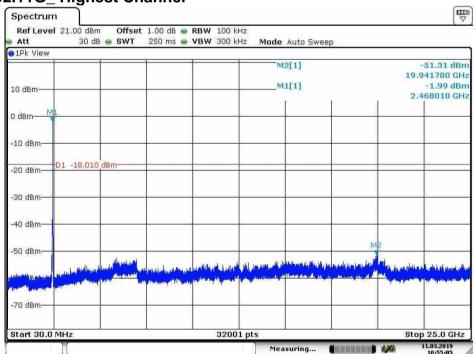
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4.8.1.1.5 802.11G Middle Channel



Date: 11.MAR.2019 10:51:48

4.8.1.1.6 802.11G_ Highest Channel



Date: 11.MAR.2019 10:55:06



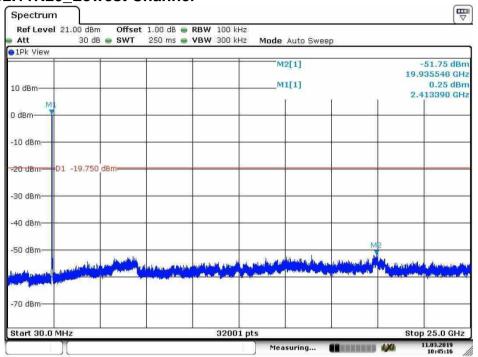
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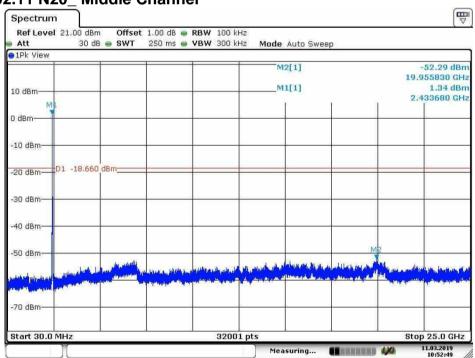
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4.8.1.1.7 802.11N20 Lowest Channel



Date: 11.MAR.2019 10:45:17

4.8.1.1.8 802.11 N20 Middle Channel



Date: 11.MAR.2019 10:52:50



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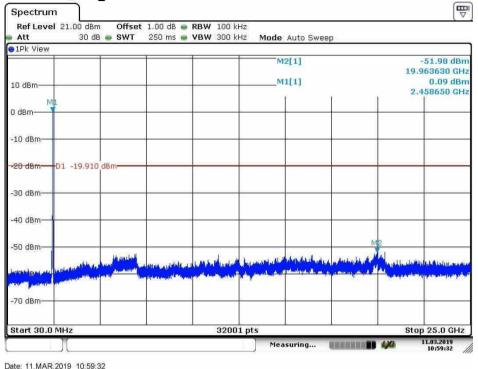
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4.8.1.1.9 802.11 N20_ Highest Channel



Remark:

Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Secti	on 15.209 and 15.2	205		
Test Method:	ANSI C63.10 :2013 Se	ction 11.12			
Test Site:	Measurement Distance	: 3m or 10m (Semi	-Anechoic Cham	ber)	
	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
Desciver Cetury	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
Receiver Setup:	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
	Frequency	Field strength	Limit (dBuV/m)	Remark	Measurement
	. requerie,	(microvolt/meter)	2 (4.24 7,111)	rtomant	distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
Limit:	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	Remark: 15.35(b), Unle	ess otherwise speci	fied, the limit on p	peak radio free	quency
	emissions is 20dB abov	ve the maximum pe	ermitted average	emission limit	
	applicable to the equ emission level radiated		. This peak limi	it applies to	the total peak

Test Setup:	



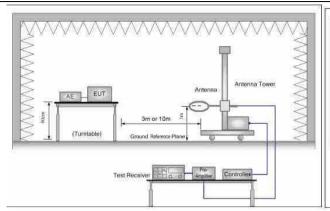
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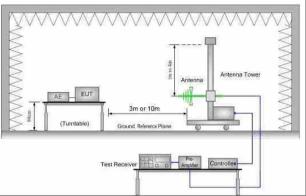


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

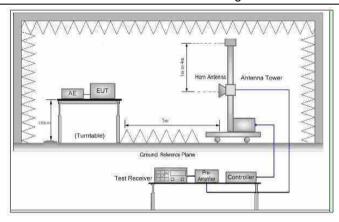


Figure 3. Above 1 GHz

Test Procedure:

- 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 camber. 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 semi-anechoic camber. 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



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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 worse case.				
j. Repeat above procedures until all frequencies measured was complete.				
Transmitting with all kind of modulations, data rates.				
Charge + Transmitting mode.				
Pretest the EUT at Charge + Transmitting mode.				
Through Pre-scan, find the				
1Mbps of rate is the worst case of 802.11B;				
6Mbps of rate is the worst case of 802.11G;				
6.5Mbps of rate is the worst case of 802.11N(HT20);				
For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11B at lowest channel is the worst case. Only the worst case is recorded in the report.				
Refer to section 5.10 for details				
Pass				

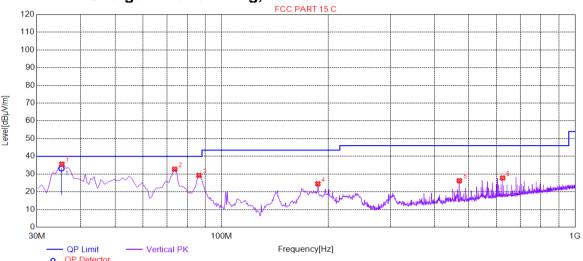


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4.9.1 Radiated emission below 1GHz

4.9.1.1 Charge + Transmitting, Vertical



Suspected List

Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	35.3377	35.55	-32.65	40.00	4.45	100	355	Vertical		
2	73.6718	32.70	-34.79	40.00	7.30	100	183	Vertical		
3	86.2881	29.23	-34.32	40.00	10.77	100	47	Vertical		
4	187.2186	24.52	-32.17	43.50	18.98	200	344	Vertical		
5	470.6003	26.24	-23.41	46.00	19.76	200	191	Vertical		
6	623.9370	27.75	-19.74	46.00	18.25	100	114	Vertical		

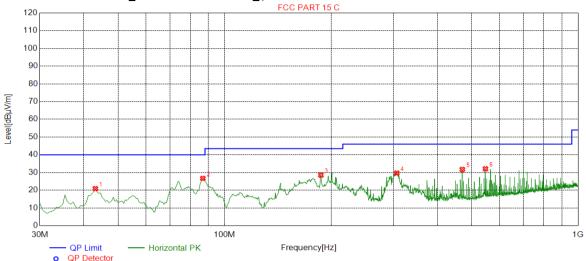




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4.9.1.2 Charge + Transmitting, Horizontal



Suspected List

	otou Liot							ı		
Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	43.1016	20.90	-30.57	40.00	19.10	200	332	Horizontal		
2	86.7734	26.68	-34.20	40.00	13.32	200	178	Horizontal		
3	187.2186	28.54	-32.17	43.50	14.96	100	270	Horizontal		
4	307.0735	29.69	-27.65	46.00	16.31	100	276	Horizontal		
5	470.6003	31.74	-23.41	46.00	14.26	200	235	Horizontal		
6	547.2686	32.09	-21.52	46.00	13.91	200	241	Horizontal		



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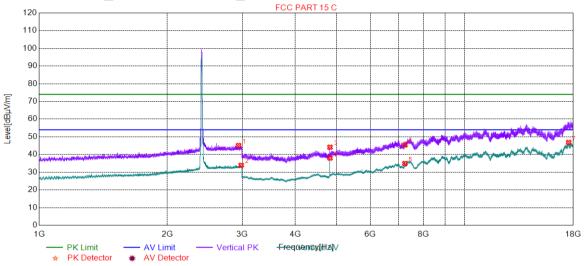
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4.9.2 Transmitter emission above 1GHz

4.9.2.1 ANT1

4.9.2.1.1 802.11B_Lowest Channel_ Vertical



Suspected List

- 	40 DOTO 4 LIST									
Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2941.9855	45.12	2.29	74.00	28.88	150	342	Vertical		
2	2983.4959	33.94	2.32	54.00	20.06	150	290	Vertical		
3	4824.1824	44.14	-20.09	74.00	29.86	150	196	Vertical		
4	4824.6825	38.02	-20.08	54.00	15.98	150	180	Vertical		
5	7236.0000	34.91	-12.40	54.00	19.09	150	18	Vertical		
6	7236.0000	45.41	-12.40	74.00	28.59	150	325	Vertical		
7	17549.4775	46.81	0.98	54.00	7.19	150	76	Vertical		



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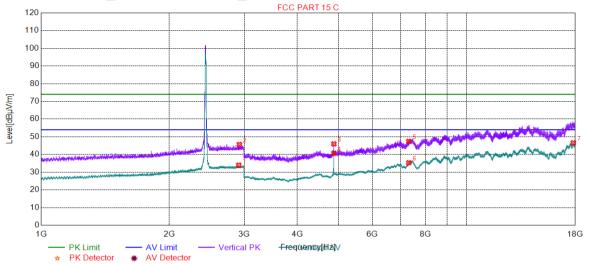
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4.9.2.1.2 802.11B_ Middle Channel_ Vertical



Suspected List

dopeoted List										
Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2912.4781	33.97	2.27	54.00	20.03	150	218	Vertical		
2	2921.9805	45.66	2.28	74.00	28.34	150	315	Vertical		
3	4873.6874	46.00	-19.38	74.00	28.00	150	164	Vertical		
4	4874.6875	40.70	-19.36	54.00	13.30	150	147	Vertical		
5	7311.0000	47.44	-11.50	74.00	26.56	150	276	Vertical		
6	7311.0000	35.34	-11.50	54.00	18.66	150	18	Vertical		
7	17804.9903	46.58	-0.79	54.00	7.42	150	228	Vertical		



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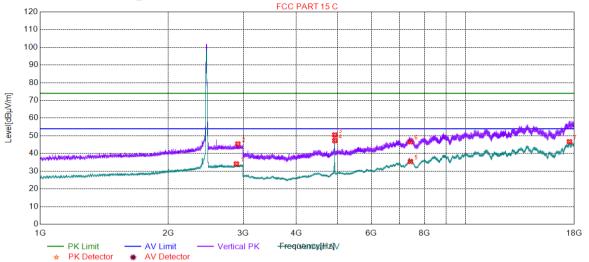
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4.9.2.1.3 802.11B_ Highest Channel_ Vertical



Suspected List

<u>ouspec</u>	teu List									
Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2891.9730	34.09	2.25	54.00	19.91	150	217	Vertical		
2	2914.9787	45.36	2.27	74.00	28.64	150	146	Vertical		
3	4924.1924	50.51	-18.87	74.00	23.49	150	195	Vertical		
4	4924.6925	47.30	-18.86	54.00	6.70	150	179	Vertical		
5	7416.0000	35.47	-10.64	54.00	18.53	150	260	Vertical		
6	7416.0000	46.59	-10.64	74.00	27.41	150	195	Vertical		
7	17536.9768	46.66	0.82	54.00	7.34	150	57	Vertical		



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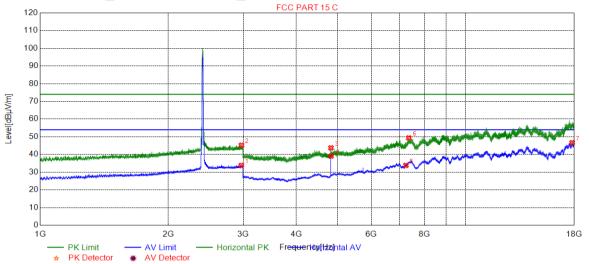
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4.9.2.1.4 802.11B Lowest Channel Horizontal



Suspected List

dopeoted List										
Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2969.4924	33.82	2.31	54.00	20.18	150	44	Horizontal		
2	2971.9930	45.24	2.31	74.00	28.76	150	27	Horizontal		
3	4823.6824	43.74	-20.10	74.00	30.26	150	18	Horizontal		
4	4824.6825	39.10	-20.08	54.00	14.90	150	34	Horizontal		
5	7236.0000	33.85	-12.40	54.00	20.15	150	256	Horizontal		
6	7349.4349	49.36	-11.11	74.00	24.64	150	138	Horizontal		
7	17790.9895	46.70	-0.79	54.00	7.30	150	57	Horizontal		

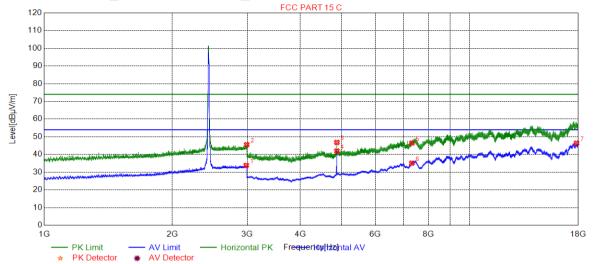




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4.9.2.1.5 802.11B_ Middle Channel_ Horizontal



Suspected List

Juspec	dapected List									
Suspected List										
NO.	Freq. [MHz]	Level [dBµV/ m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2983.9960	33.85	2.32	54.00	20.15	150	115	Horizontal		
2	2991.4979	45.54	2.32	74.00	28.46	150	18	Horizontal		
3	4874.1874	46.83	-19.37	74.00	27.17	150	34	Horizontal		
4	4874.6875	41.96	-19.36	54.00	12.04	150	18	Horizontal		
5	7311.0000	46.46	-11.50	74.00	27.54	150	212	Horizontal		
6	7311.0000	35.12	-11.50	54.00	18.88	150	99	Horizontal		
7	17821.9911	46.43	-0.84	54.00	7.57	150	200	Horizontal		



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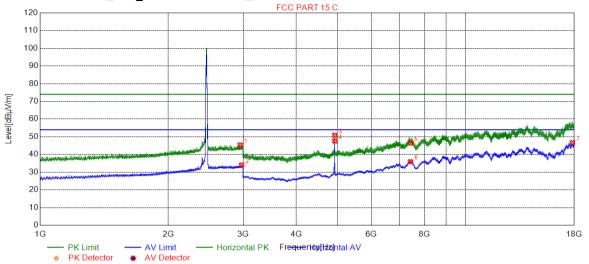
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4.9.2.1.6 802.11B_ Highest Channel_ Horizontal



Suspected List

Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2951.9880	45.40	2.30	74.00	28.60	150	308	Horizontal		
2	2973.4934	34.04	2.31	54.00	19.96	150	299	Horizontal		
3	4923.6924	50.88	-18.87	74.00	23.12	150	18	Horizontal		
4	4924.6925	47.60	-18.86	54.00	6.40	150	18	Horizontal		
5	7416.0000	46.43	-10.64	74.00	27.57	150	66	Horizontal		
6	7416.0000	35.93	-10.64	54.00	18.07	150	34	Horizontal		
7	17813.9907	46.71	-0.82	54.00	7.29	150	172	Horizontal		



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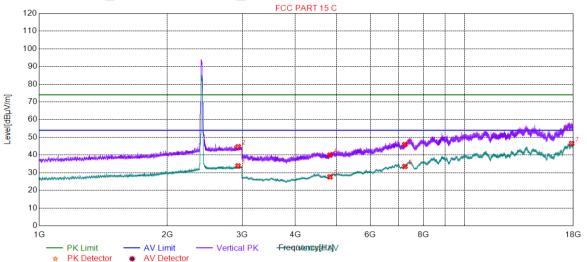
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4.9.2.1.7 802.11G_Lowest Channel_ Vertical



Suspected List

Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2932.9832	33.84	2.28	54.00	20.16	150	228	Vertical		
2	2935.9840	44.66	2.29	74.00	29.34	150	8	Vertical		
3	4824.0000	27.63	-20.09	54.00	26.37	150	147	Vertical		
4	4824.0000	39.97	-20.09	74.00	34.03	150	147	Vertical		
5	7236.0000	33.54	-12.40	54.00	20.46	150	293	Vertical		
6	7236.0000	45.94	-12.40	74.00	28.06	150	18	Vertical		
7	17831.4916	46.51	-0.88	54.00	7.49	150	142	Vertical		



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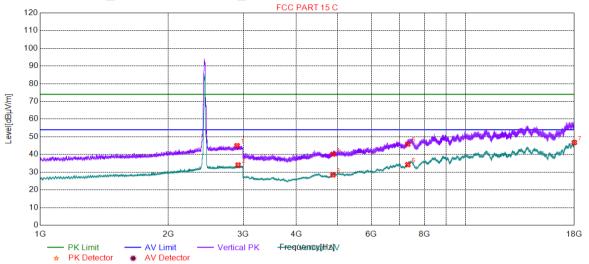
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4.9.2.1.8 802.11G_ Middle Channel_ Vertical



Suspected List

dispected List										
Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2901.9755	45.01	2.26	74.00	28.99	150	20	Vertical		
2	2918.4796	34.06	2.27	54.00	19.94	150	0	Vertical		
3	4874.0000	28.43	-19.37	54.00	25.57	150	360	Vertical		
4	4874.0000	40.17	-19.37	74.00	33.83	150	243	Vertical		
5	7311.0000	45.85	-11.50	74.00	28.15	150	243	Vertical		
6	7311.0000	34.24	-11.50	54.00	19.76	150	211	Vertical		
7	17999.0000	46.76	-0.36	54.00	7.24	150	200	Vertical		



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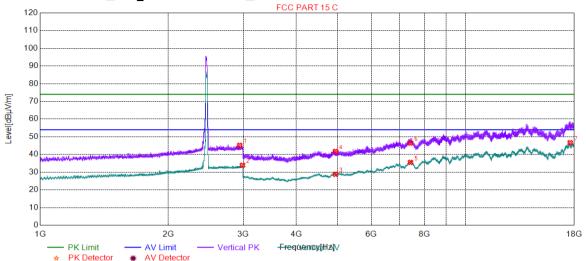
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4.9.2.1.9 802.11G_ Highest Channel_ Vertical



Suspected List

dispected List										
Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2943.4859	45.17	2.29	74.00	28.83	150	289	Vertical		
2	2987.9970	33.92	2.32	54.00	20.08	150	342	Vertical		
3	4944.0000	28.81	-18.76	54.00	25.19	150	246	Vertical		
4	4944.0000	41.75	-18.76	74.00	32.25	150	278	Vertical		
5	7416.0000	35.55	-10.64	54.00	18.45	150	278	Vertical		
6	7416.0000	46.44	-10.64	74.00	27.56	150	310	Vertical		
7	17603.4802	46.65	1.54	54.00	7.35	150	199	Vertical		

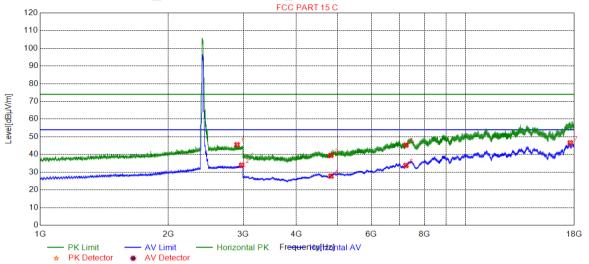




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4.9.2.1.10 802.11G_Lowest Channel_ Horizontal



Suspected List

Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/ m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2901.4754	45.52	2.26	74.00	28.48	150	239	Horizontal			
2	2975.4939	34.00	2.31	54.00	20.00	150	358	Horizontal			
3	4824.0000	39.52	-20.09	74.00	34.48	150	34	Horizontal			
4	4824.0000	27.76	-20.09	54.00	26.24	150	18	Horizontal			
5	7236.0000	45.30	-12.40	74.00	28.70	150	100	Horizontal			
6	7236.0000	33.81	-12.40	54.00	20.19	150	132	Horizontal			
7	17611.9806	46.61	1.32	54.00	7.39	150	198	Horizontal			



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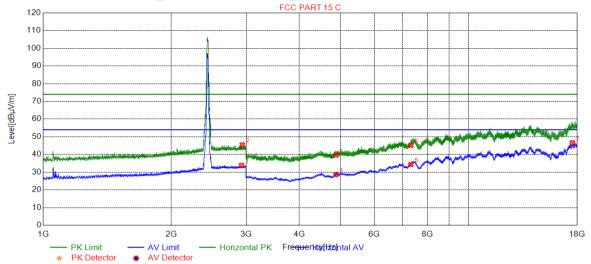
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4.9.2.1.11 802.11G_ Middle Channel_ Horizontal



Suspected List

Suspe	Suspected List									
NO.	Freq. [MHz]	Level [dBµV/ m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2925.4814	33.89	2.28	54.00	20.11	150	82	Horizontal		
2	2937.4844	45.47	2.29	74.00	28.53	150	160	Horizontal		
3	4874.0000	28.60	-19.37	54.00	25.40	150	301	Horizontal		
4	4874.0000	39.61	-19.37	74.00	34.39	150	204	Horizontal		
5	7311.0000	34.35	-11.50	54.00	19.65	150	268	Horizontal		
6	7311.0000	45.16	-11.50	74.00	28.84	150	34	Horizontal		
7	17523.4762	46.69	0.65	54.00	7.31	150	85	Horizontal		



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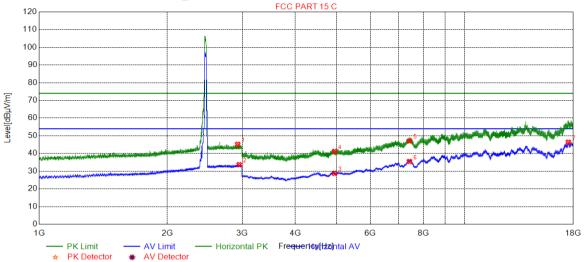
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4.9.2.1.12 802.11G_ Highest Channel_ Horizontal



Suspected List

Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2927.9820	45.17	2.28	74.00	28.83	150	141	Horizontal			
2	2950.9877	33.68	2.30	54.00	20.32	150	62	Horizontal			
3	4944.0000	28.82	-18.76	54.00	25.18	150	207	Horizontal			
4	4944.0000	41.12	-18.76	74.00	32.88	150	157	Horizontal			
5	7416.0000	47.09	-10.64	74.00	26.91	150	190	Horizontal			
6	7416.0000	35.50	-10.64	54.00	18.50	150	18	Horizontal			
7	17521.9761	46.38	0.63	54.00	7.62	150	53	Horizontal			

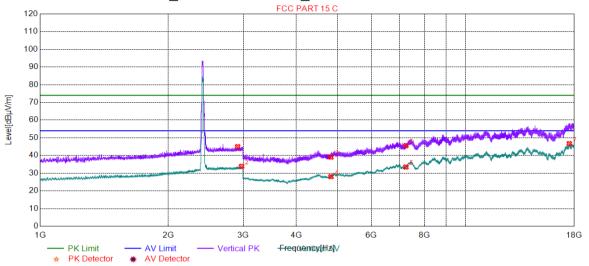




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4.9.2.1.13 802.11N20_Lowest Channel_ Vertical



Suspected List

dispected List										
Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2910.9777	44.98	2.27	74.00	29.02	150	254	Vertical		
2	2972.9932	33.85	2.31	54.00	20.15	150	342	Vertical		
3	4824.0000	39.10	-20.09	74.00	34.90	150	100	Vertical		
4	4824.0000	28.07	-20.09	54.00	25.93	150	148	Vertical		
5	7236.0000	33.49	-12.40	54.00	20.51	150	180	Vertical		
6	7236.0000	45.61	-12.40	74.00	28.39	150	165	Vertical		
7	17518.4759	46.71	0.59	54.00	7.29	150	285	Vertical		



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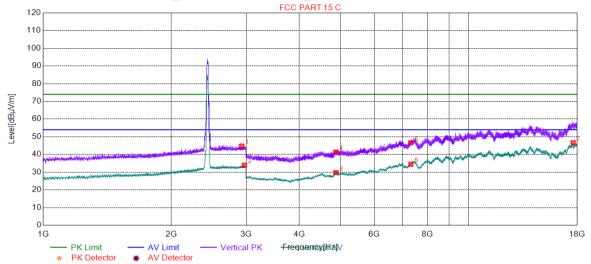
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4.9.2.1.14 802.11N20_ Middle Channel_ Vertical



Suspected List

dispected List										
Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2926.4816	44.80	2.28	74.00	29.20	150	306	Vertical		
2	2970.9927	33.97	2.31	54.00	20.03	150	119	Vertical		
3	4874.0000	29.74	-19.37	54.00	24.26	150	148	Vertical		
4	4874.0000	41.41	-19.37	74.00	32.59	150	276	Vertical		
5	7311.0000	34.45	-11.50	54.00	19.55	150	51	Vertical		
6	7311.0000	46.64	-11.50	74.00	27.36	150	276	Vertical		
7	17600.4800	46.70	1.62	54.00	7.30	150	56	Vertical		

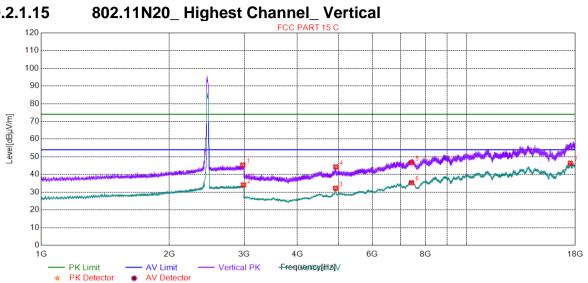




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4.9.2.1.15



Suspected List

Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2975.4939	45.38	2.31	74.00	28.62	150	54	Vertical	
2	2987.4969	34.08	2.32	54.00	19.92	150	73	Vertical	
3	4917.1917	32.24	-18.91	54.00	21.76	150	148	Vertical	
4	4924.1924	44.29	-18.87	74.00	29.71	150	180	Vertical	
5	7416.0000	46.64	-10.64	74.00	27.36	150	18	Vertical	
6	7416.0000	35.37	-10.64	54.00	18.63	150	196	Vertical	
7	17518.4759	46.40	0.59	54.00	7.60	150	199	Vertical	



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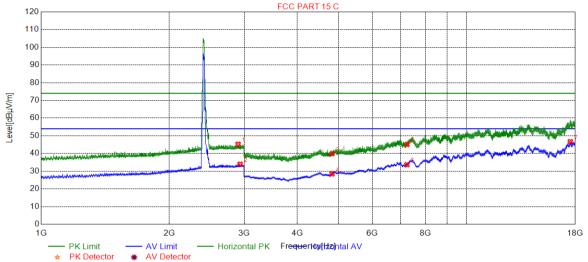
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4.9.2.1.16 802.11N20_Lowest Channel_ Horizontal



Suspected List

Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2902.9757	45.25	2.26	74.00	28.75	150	230	Horizontal			
2	2934.9837	33.97	2.28	54.00	20.03	150	124	Horizontal			
3	4824.0000	39.85	-20.09	74.00	34.15	150	302	Horizontal			
4	4824.0000	28.44	-20.09	54.00	25.56	150	352	Horizontal			
5	7236.0000	45.10	-12.40	74.00	28.90	150	101	Horizontal			
6	7236.0000	33.66	-12.40	54.00	20.34	150	234	Horizontal			
7	17518.9759	46.71	0.59	54.00	7.29	150	313	Horizontal			



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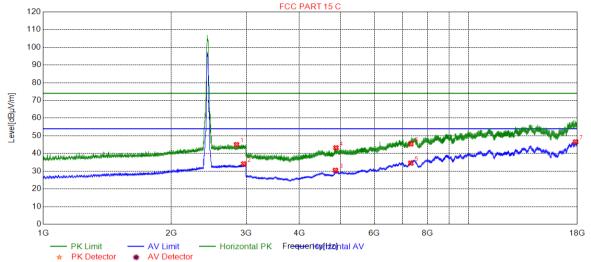
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4.9.2.1.17 802.11N20_ Middle Channel_ Horizontal



Suspected List

Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2846.9617	44.99	2.20	74.00	29.01	150	322	Horizontal			
2	2959.4899	34.14	2.30	54.00	19.86	150	62	Horizontal			
3	4863.1863	30.49	-19.53	54.00	23.51	150	18	Horizontal			
4	4876.1876	43.22	-19.34	74.00	30.78	150	67	Horizontal			
5	7311.0000	34.57	-11.50	54.00	19.43	150	195	Horizontal			
6	7311.0000	45.41	-11.50	74.00	28.59	150	99	Horizontal			
7	17835.9918	46.56	-0.89	54.00	7.44	150	142	Horizontal			



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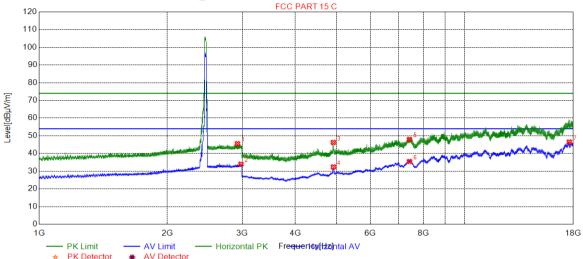
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4.9.2.1.18 802.11N20_ Highest Channel_ Horizontal



Suspected List

Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2923.9810	45.54	2.28	74.00	28.46	150	334	Horizontal			
2	2979.4949	33.96	2.32	54.00	20.04	150	45	Horizontal			
3	4912.6913	46.24	-18.93	74.00	27.76	150	18	Horizontal			
4	4914.6915	32.41	-18.92	54.00	21.59	150	18	Horizontal			
5	7416.0000	47.96	-10.64	74.00	26.04	150	50	Horizontal			
6	7416.0000	35.49	-10.64	54.00	18.51	150	327	Horizontal			
7	17614.4807	46.50	1.25	54.00	7.50	150	342	Horizontal			

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 - Final Test Level = Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz and 18GHz to 25GHz was very low, and the above harmonics were the highest point could be found when testing, 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. So, only the peak measurements were shown in the report.
- 4) All Modes have been tested, but only the worst case data displayed in this report.



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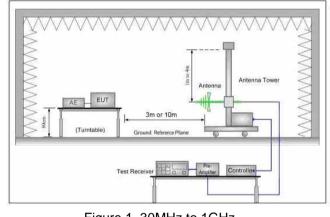
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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section	47 CFR Part 15C Section 15.209 and 15.205								
Test Method:	ANSI C63.10: 2013 Sect	ANSI C63.10: 2013 Section 11.12								
Test Site:	Measurement Distance:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)								
	Frequency	Limit (dBuV/m @3m)	Remark							
	30MHz-88MHz	40.0	Quasi-peak Value							
	88MHz-216MHz	43.5	Quasi-peak Value							
Limit:	216MHz-960MHz	46.0	Quasi-peak Value							
	960MHz-1GHz	54.0	Quasi-peak Value							
	Above 1CHz	54.0	Average Value							
	Above 1GHz	74.0	Peak Value							
Test Setup:										



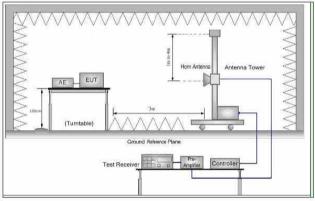


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz



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	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 camber. 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 semi-anechoic camber. 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.
Test Procedure:	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 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. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel
	h. Test the EUT in the lowest 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 worse case.
	j. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Exploratory rest wode.	Charge + Transmitting mode.
	Pretest the EUT at Charge +Transmitting mode.
	Through Pre-scan, find the
Final Test Mode:	1Mbps of rate is the worst case of 802.11B;
Tillal Tool Wood.	6Mbps of rate is the worst case of 802.11G;
	6.5Mbps of rate is the worst case of 802.11N(HT20);
	Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



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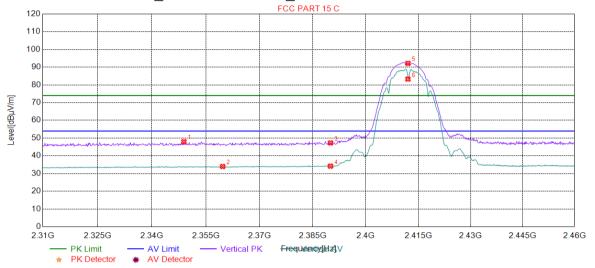
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Test plot as follows:

4.10.1 ANT1

4.10.1.1 802.11B_Lowest Channel_ Vertical



Suspected List

Suspe	Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	2348.8889	48.00	1.07	74.00	26.00	150	319	Vertical				
2	2359.6997	33.98	1.11	54.00	20.02	150	316	Vertical				
3	2390.0000	47.27	1.25	74.00	26.73	150	148	Vertical				
4	2390.0000	34.18	1.25	54.00	19.82	150	182	Vertical				
5	2412.0000	92.16	1.32	74.00	-18.16	150	136	Vertical				
6	2412.0000	83.29	1.32	54.00	-29.29	150	142	Vertical				



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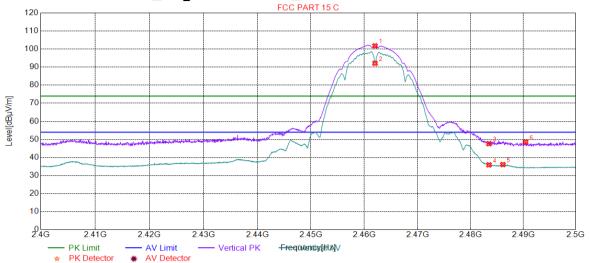
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4.10.1.2 802.11B_ Highest Channel_ Vertical



Suspected List

Juopoo										
Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2462.0000	101.80	1.46	74.00	-27.80	150	293	Vertical		
2	2462.0000	92.13	1.46	54.00	-38.13	150	316	Vertical		
3	2483.5000	47.61	1.52	74.00	26.39	150	266	Vertical		
4	2483.5000	35.88	1.52	54.00	18.12	150	289	Vertical		
5	2486.1431	36.04	1.53	54.00	17.96	150	297	Vertical		
6	2490.4452	48.52	1.54	74.00	25.48	150	143	Vertical		



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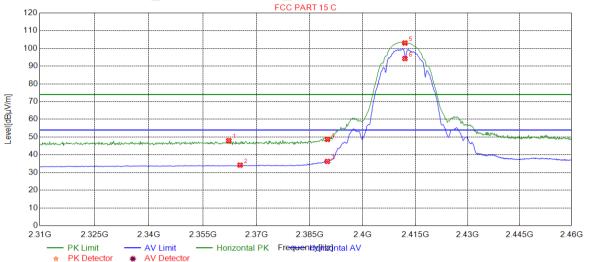
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4.10.1.3 802.11B_Lowest Channel_ Horizontal



Suspected List

Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2362.2523	48.00	1.12	74.00	26.00	150	254	Horizontal			
2	2365.4054	34.17	1.14	54.00	19.83	150	81	Horizontal			
3	2390.0000	36.26	1.25	54.00	17.74	150	203	Horizontal			
4	2390.0000	48.68	1.25	74.00	25.32	150	90	Horizontal			
5	2412.0000	103.08	1.32	74.00	-29.08	150	200	Horizontal			
6	2412.0000	94.27	1.32	54.00	-40.27	150	102	Horizontal			

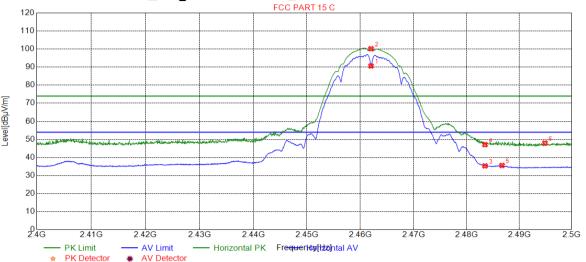




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4.10.1.4 802.11B_ Highest Channel_ Horizontal



Suspected List

Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2462.0000	90.65	1.46	54.00	-36.65	150	14	Horizontal			
2	2462.0000	100.20	1.46	74.00	-26.20	150	14	Horizontal			
3	2483.5000	35.32	1.52	54.00	18.68	150	241	Horizontal			
4	2483.5000	47.06	1.52	74.00	26.94	150	360	Horizontal			
5	2486.7434	35.55	1.53	54.00	18.45	150	237	Horizontal			
6	2494.8974	47.94	1.56	74.00	26.06	150	176	Horizontal			

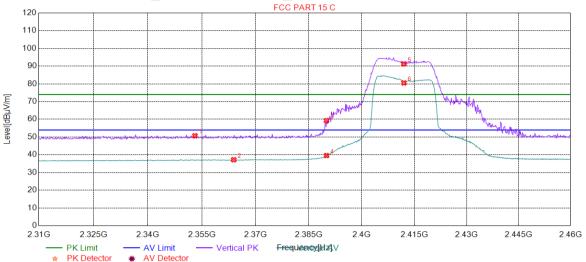




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4.10.1.5 802.11G_Lowest Channel_ Vertical



Suspected List

Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2353.0931	50.75	1.08	74.00	23.25	150	41	Vertical		
2	2363.9039	37.18	1.13	54.00	16.82	150	352	Vertical		
3	2390.0000	59.28	1.25	74.00	14.72	150	164	Vertical		
4	2390.0000	39.57	1.25	54.00	14.43	150	199	Vertical		
5	2412.0000	91.28	1.32	74.00	-17.28	150	136	Vertical		
6	2412.0000	80.56	1.32	54.00	-26.56	150	154	Vertical		



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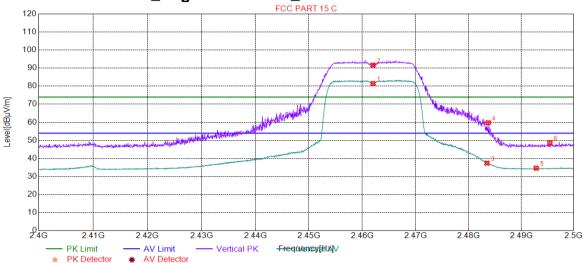
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4.10.1.6 802.11G_ Highest Channel_ Vertical



Suspected List

Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2462.0000	81.48	1.46	54.00	-27.48	150	319	Vertical			
2	2462.0000	91.67	1.46	74.00	-17.67	150	342	Vertical			
3	2483.5000	37.38	1.52	54.00	16.62	150	292	Vertical			
4	2483.7419	59.77	1.52	74.00	14.23	150	331	Vertical			
5	2492.8464	34.61	1.55	54.00	19.39	150	155	Vertical			
6	2495.4477	48.63	1.56	74.00	25.37	150	174	Vertical			





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4.10.1.7 802.11G_Lowest Channel_ Horizontal



Suspected List

Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2329.3694	51.42	0.98	74.00	22.58	150	59	Horizontal			
2	2378.0180	37.36	1.19	54.00	16.64	150	219	Horizontal			
3	2390.0000	69.07	1.25	74.00	4.93	150	195	Horizontal			
4	2390.0000	47.13	1.25	54.00	6.87	150	144	Horizontal			
5	2412.0000	103.05	1.32	74.00	-29.05	150	147	Horizontal			
6	2412.0000	92.04	1.32	54.00	-38.04	150	147	Horizontal			



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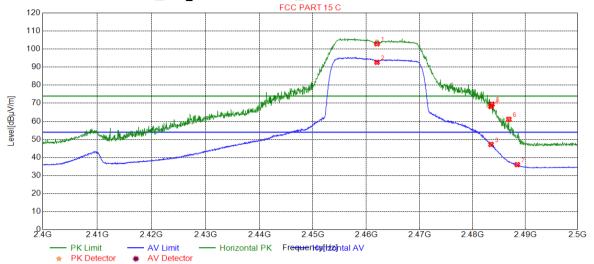
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4.10.1.8 802.11G_ Highest Channel_ Horizontal



Suspected List

Juop Co.	tou List										
Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2462.0000	102.97	1.46	74.00	-28.97	150	284	Horizontal			
2	2462.0000	92.70	1.46	54.00	-38.70	150	32	Horizontal			
3	2483.5000	47.21	1.52	54.00	6.79	150	32	Horizontal			
4	2483.5000	68.20	1.52	74.00	5.80	150	32	Horizontal			
5	2483.6918	69.46	1.52	74.00	4.54	150	36	Horizontal			
6	2486.8934	61.12	1.53	74.00	12.88	150	36	Horizontal			
7	2488.4942	36.00	1.54	54.00	18.00	150	28	Horizontal			



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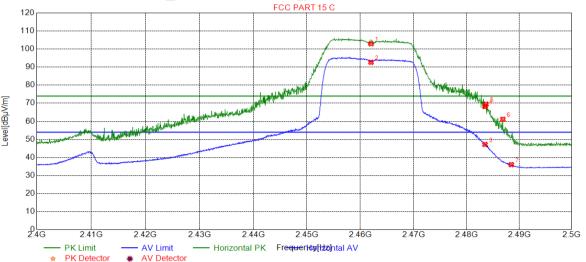
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4.10.1.9 802.11N20_Lowest Channel_ Vertical



Suspected List

Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2462.0000	102.97	1.46	74.00	-28.97	150	284	Horizontal		
2	2462.0000	92.70	1.46	54.00	-38.70	150	32	Horizontal		
3	2483.5000	47.21	1.52	54.00	6.79	150	32	Horizontal		
4	2483.5000	68.20	1.52	74.00	5.80	150	32	Horizontal		
5	2483.6918	69.46	1.52	74.00	4.54	150	36	Horizontal		
6	2486.8934	61.12	1.53	74.00	12.88	150	36	Horizontal		
7	2488.4942	36.00	1.54	54.00	18.00	150	28	Horizontal		



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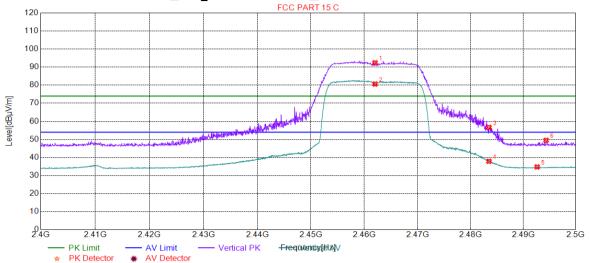
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4.10.1.10 802.11N20_ Highest Channel_ Vertical



Suspected List

Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2462.0000	92.40	1.46	74.00	-18.40	150	131	Vertical			
2	2462.0000	80.65	1.46	54.00	-26.65	150	104	Vertical			
3	2483.5000	56.65	1.52	74.00	17.35	150	154	Vertical			
4	2483.5000	37.85	1.52	54.00	16.15	150	157	Vertical			
5	2492.6463	34.72	1.55	54.00	19.28	150	248	Vertical			
6	2494.3472	49.46	1.55	74.00	24.54	150	154	Vertical			



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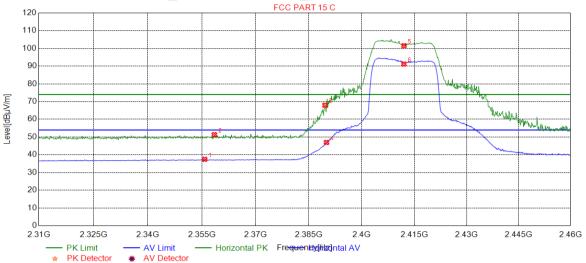
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4.10.1.11 802.11N20_Lowest Channel_ Horizontal



Suspected List

	dopostou Elot							
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2355.7958	37.46	1.10	54.00	16.54	150	89	Horizontal
2	2358.4985	51.35	1.11	74.00	22.65	150	235	Horizontal
3	2389.5796	67.98	1.24	74.00	6.02	150	158	Horizontal
4	2390.0000	46.94	1.25	54.00	7.06	150	152	Horizontal
5	2412.0000	101.52	1.32	74.00	-27.52	150	152	Horizontal
6	2412.0000	91.21	1.32	54.00	-37.21	150	152	Horizontal



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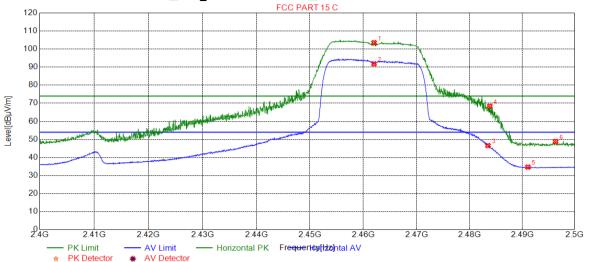
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4.10.1.12 802.11N20_ Highest Channel_ Horizontal



Suspected List

<u> </u>	dopeoted Elot							
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	103.55	1.46	74.00	-29.55	150	214	Horizontal
2	2462.0000	91.84	1.46	54.00	-37.84	150	214	Horizontal
3	2483.5000	46.55	1.52	54.00	7.45	150	206	Horizontal
4	2483.8419	68.36	1.52	74.00	5.64	150	100	Horizontal
5	2491.0955	34.65	1.55	54.00	19.35	150	58	Horizontal
6	2496.3482	48.83	1.56	74.00	25.17	150	180	Horizontal

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

All Modes have been tested, but only the worst case data displayed in this report.



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

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.75dB
2	RF power density, conducted	±2.84dB
3	Spurious emissions, conducted	±0.75dB
4	Dedicted Courieus amission toot	±4.5dB (30MHz-1GHz)
4	Radiated Spurious emission test	±4.8dB (1GHz-25GHz)
5	Conduct emission test	±3.12 dB (9KHz- 30MHz)
6	Temperature test	±1°C
7	Humidity test	±3%
8	DC and low frequency voltages	±0.5%



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6 Equipment List

Conducted Emission								
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Duedate			
rest Equipment				(yyyy-mm-dd)	(yyyy-mm-dd)			
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2017/5/10	2020/5/9			
LISN	Rohde & Schwarz	ENV216	SEM007-01	2018/9/2	2019/9/2			
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2019/3/2	2020/3/1			
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM024-01	2018/7/12	2019/7/11			
2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	EMC0122	2019/2/11	2020/2/10			
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2019/3/2	2020/3/1			

RF conducted test								
Test Equipment	Manufacturer	Model No. Ir	Inventory No.	Cal. date	Cal.Duedate			
rest Equipment	Wallulacturei		inventory No.	(yyyy-mm-dd)	(yyyy-mm-dd)			
DC Power Supply	Agilent Technologies Inc	66311B	W009-09	2018/9/15	2019/9/15			
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2019/1/13	2020/1/12			
Coaxial Cable	SGS	N/A	SEM031-01	2018/7/13	2019/7/12			
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A			
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018/9/2	2019/9/2			
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2018/11/27	2019/11/27			
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018/9/2	2019/9/2			



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RE in Chamber							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date		
rest Equipment	Wandacturer	Wiodel No.	inventory No.	(yyyy-mm-dd)	(yyyy-mm-dd)		
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017/8/5	2020/8/4		
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM025-01	2018/7/12	2019/7/11		
MXE EMI Receiver (20Hz- 8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2018/9/2	2019/9/2		
BiConiLog Antenna (26- 3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017/6/27	2020/6/26		
Pre-amplifier (0.1-1.3GHz)	Agilent Technologies	8447D	SEM005-01	2019/3/2	2020/3/1		

RE in Chamber								
Test Equipment	Manufacturer	Model No.	Inventory No	Cal. date	Cal.Due date			
rest Equipment	Wanulacturer		Inventory No.	(yyyy-mm-dd)	(yyyy-mm-dd)			
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12			
Measurement Software	AUDIX	e3V8.2014-6-27	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM026-01	2018/7/12	2019/7/11			
EXA Signal Analyzer (10Hz- 26.5GHz)	Agilent Technologies Inc	N9010A	SEM004-09	2018/4/13	2019/4/12			
BiConiLog Antenna (26- 3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017/6/27	2020/6/26			
Horn Antenna (0.8-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/4/13	2021/4/12			
Pre-amplifier(0.1-1.3GHz)	HP	8447D	SEM005-02	2018/9/2	2019/9/2			
Low Noise Amplifier(100MHz- 18GHz)	Black Diamond Series	BDLNA-0118- 352810	SEM005-05	2018/9/27	2019/9/27			
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017/10/17	2020/10/16			
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2019/3/2	2020/3/1			
Band filter	N/A	N/A	SEM023-01	N/A	N/A			

RE in Chamber							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)		
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018/3/31	2021/3/30		
EMI Test Receiver (9k-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2019/3/2	2020/3/1		
Trilog-Broadband Antenna(25M- 2GHz)	Schwarzbeck	VULB9168	SEM003-18	2016/6/29	2019/6/28		
Pre-amplifier (9k-1GHz)	Sonoma	310N	SEM005-03	2018/4/13	2019/4/12		
Loop Antenna (9kHz-30MHz)	ETS-Lindgren	6502	SEM003-08	2017/8/22	2020/8/21		
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM029-01	2018/7/12	2019/7/11		

Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for HR/2019/20002.

The End



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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