

Global United Technology Services Co., Ltd.

Report No.: GTS201904000075F01

Spectrum Report

Applicant: SHENZHEN CYX TECHNOLOGY CO.,LTD

Address of Applicant: 5/F, one buildings, xiazao industrial zone, zaohe road,

Longhua District, Shenzhen, China

Manufacturer: SHENZHEN CYX TECHNOLOGY CO.,LTD

Address of 5/F, one buildings, xiazao industrial zone, zaohe road,

Manufacturer: Longhua District, Shenzhen, China

Factory: Shenzhen Chuang Ying Xin Technology Co., Ltd.

Address of Factory: 5/F, one buildings, xiazao industrial zone, zaohe road,

Longhua District, Shenzhen, China

Equipment Under Test (EUT)

Product Name: TV BOX

Model No.: A95X MAX, A95X F1, A95X F2, A95X F1 Pro,

A95X F2 Pro. A95X Plus, A95X F3, A95X F5, A95X F6,

A95X F3 Pro, A95X F5 Pro, A95X F6 Pro, X95 Plus

Trade Mark CYX

FCC ID: 2AHTK-A95XMAX

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: April 10, 2019

Date of Test: April 11-23, 2019

Date of report issued: April 24, 2019

Test Result: PASS *

Authorized Signature:

Robinson Lo Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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



2 Version

Version No.	Date	Description
00	April 24, 2019	Original

Prepared By:	Tiger. Chen	Date:	April 24, 2019
	Project Engineer		
Check By:	Jobinsonla	Date:	April 24, 2019
	Reviewer		



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4 Test Summary

Test Item	Section	Result
Antenna requirement	FCC part 15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	FCC part 15.207	Pass
Conducted Peak Output Power	FCC part 15.247 (b)(3)	Pass
Channel Bandwidth & 99% OCB	FCC part 15.247 (a)(2)	Pass
Power Spectral Density	FCC part 15.247 (e)	Pass
Band Edge	FCC part 15.247(d)	Pass
Spurious Emission	FCC part 15.205/15.209	Pass

Remark: Test according to ANSI C63.10:2013

Pass: The EUT complies with the essential requirements in the standard.

Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes				
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)				
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)				
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(1)				
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.45dB	(1)				
Note (1): The measurement unce	Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.						



5 General Information

5.1 General Description of EUT

Product Name:	TV BOX
Model No.:	A95X MAX, A95X F1, A95X F2, A95X F1 Pro, A95X F2 Pro,
	A95X Plus, A95X F3, A95X F5, A95X F6, A95X F3 Pro, A95X F5 Pro,
	A95X F6 Pro, X95 Plus
Test Model No:	A95X MAX
	are identical in the same PCB layout, interior structure and electrical circuits. nd model name for commercial purpose.
Serial No.:	681DEF10EAC1
Test sample(s) ID:	GTS201904000075-1
Sample(s) Status	Engineer sample
Hardware version:	95XMAXV_V81
Software version:	A95X_MAX-8.1.0
Channel numbers:	802.11b/802.11g /802.11n(HT20): 11
	802.11n(HT40):7
Channel separation:	5MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum (DSSS)
	802.11g/802.11n(H20)/802.11n(HT40):
	Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	Integral Antenna
Antenna gain:	2.0dBi
Power supply:	Power Supply
	Model: R122-0502500ED
	Input: AC 100-240V, 50/60Hz, 0.4A
	Output: DC 5V/2.5A



Operation Frequency each of 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		

Note:

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:

Test channel	Frequency (MHz)			
rest channel	802.11b/802.11g/802.11n(HT20)	802.11n(HT40)		
Lowest channel	2412MHz	2422MHz		
Middle channel	2437MHz	2437MHz		
Highest channel	2462MHz	2452MHz		



5.2 Test mode

Transmitting mode Keep the EUT in continuously transmitting mode

Remark: During the test, the dutycycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Data rate	1Mbps	6Mbps	6.5Mbps	13Mbps

5.3 Description of Support Units

None

5.4 Test Facility

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

• FCC —Registration No.: 381383

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 381383.

• Industry Canada (IC) —Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2.

• NVLAP (LAB CODE:600179-0)

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0

5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960

5.6 Additional Instructions

Test Software	Special test command provided by manufacturer
Power level setup	Default



6 Test Instruments list

Radiated Emission:								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July. 03 2015	July. 02 2020		
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A		
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June. 27 2018	June. 26 2019		
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 27 2018	June. 26 2019		
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 27 2018	June. 26 2019		
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 27 2018	June. 26 2019		
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
8	Coaxial Cable	GTS	N/A	GTS213	June. 27 2018	June. 26 2019		
9	Coaxial Cable	GTS	N/A	GTS211	June. 27 2018	June. 26 2019		
10	Coaxial cable	GTS	N/A	GTS210	June. 27 2018	June. 26 2019		
11	Coaxial Cable	GTS	N/A	GTS212	June. 27 2018	June. 26 2019		
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 27 2018	June. 26 2019		
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 27 2018	June. 26 2019		
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 27 2018	June. 26 2019		
15	Band filter	Amindeon	82346	GTS219	June. 27 2018	June. 26 2019		
16	Power Meter	Anritsu	ML2495A	GTS540	June. 27 2018	June. 26 2019		
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 27 2018	June. 26 2019		
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 27 2018	June. 26 2019		
19	Splitter	Agilent	11636B	GTS237	June. 27 2018	June. 26 2019		
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 27 2018	June. 26 2019		
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 20 2018	Oct. 19 2019		
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 20 2018	Oct. 19 2019		
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 20 2018	Oct. 19 2019		
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 27 2018	June. 26 2019		



Conduc	Conducted Emission							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May.16 2014	May.15 2019		
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 27 2018	June. 26 2019		
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 27 2018	June. 26 2019		
4	Artificial Mains Network	SCHWARZBECK MESS	NSLK8127	GTS226	June. 27 2018	June. 26 2019		
5	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A		
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
7	Thermo meter	KTJ	TA328	GTS233	June. 27 2018	June. 26 2019		
8	Absorbing clamp	Elektronik- Feinmechanik	MDS21	GTS229	June. 27 2018	June. 26 2019		

Cond	Conducted:							
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	June. 27 2018	June. 26 2019		
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 27 2018	June. 26 2019		
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 27 2018	June. 26 2019		
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 27 2018	June. 26 2019		
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 27 2018	June. 26 2019		
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 27 2018	June. 26 2019		
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 27 2018	June. 26 2019		
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 27 2018	June. 26 2019		

Gene	General used equipment:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 27 2018	June. 26 2019		
2	Barometer	ChangChun	DYM3	GTS255	June. 27 2018	June. 26 2019		



7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement: FCC Part15 C 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(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

EUT Antenna:

The antenna is integral antenna, the best case gain of the antennas are 2.0dBi, reference to the appendix II for details



7.2 Conducted Emissions

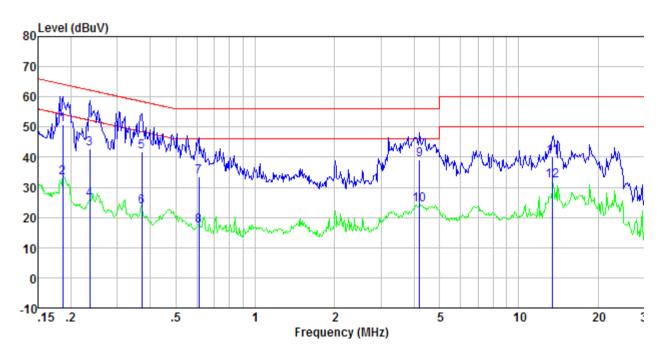
Test Requirement:	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.10:2013					
Test Frequency Range:	150KHz to 30MHz	150KHz to 30MHz				
Receiver setup:	RBW=9KHz, VBW=30KHz, S	weep time=auto				
Limit:	Fragues av range (MHz)	Limit	(dBuV)			
	Frequency range (MHz)	Quasi-peak Average				
	0.15-0.5					
	0.5-5	56		46		
	5-30	60		50		
Test setup:	* Decreases with the logarithr					
	Reference Plane LISN 40cm 80cm Filter AC power Equipment Test table/Insulation plane Remark E.U.T: EMI Receiver Receiver					
Test procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. 					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test environment:	Temp.: 25 °C Humid.: 52% Press.: 1012mbar					
Test voltage:	AC 120V, 60Hz	<u> </u>		1		
Test results:	Pass					

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Measurement data Line:

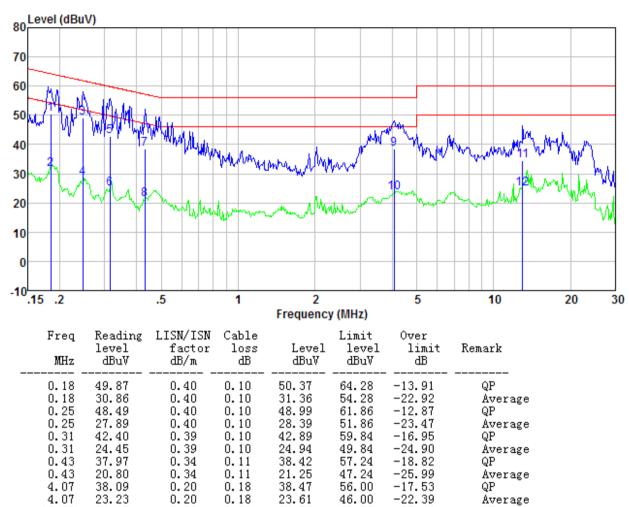
Report No.: GTS201904000075F01



Freq MHz	Reading level dBuV	LISN/ISN factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0.19	50.16	0.40	0.10	50.66	64.20	-13.54	QP
0.19	32.56	0.40	0.10	33.06	54.20	-21.14	Äverage
0.24	42.18	0.40	0.11	42.69	62.26	-19.57	QP
0.24	25.34	0.40	0.11	25.85	52.26	-26.41	Average
0.37	41.50	0.36	0.10	41.96	58.47	-16.51	QP
0.37	23.12	0.36	0.10	23.58	48.47	-24.89	Average
0.61	33.16	0.28	0.12	33.56	56.00	-22.44	QP
0.61	16.80	0.28	0.12	17.20	46.00	-28.80	Average
4.20	38.62	0.20	0.18	39.00	56.00	-17.00	QP
4.20	23.94	0.20	0.18	24.32	46.00	-21.68	Average
13.48	39.71	0.20	0.21	40.12	60.00	-19.88	QP
13.48	31.89	0.20	0.21	32.30	50.00	-17.70	Average



Neutral:



60.00

50.00

-25.44

-25.16

QP

Average

Notes:

12.99

12.99

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

0.21

0.21

0.20

0.20

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

34.56

24.84

3. Final Level =Receiver Read level + LISN Factor + Cable Loss

34.15

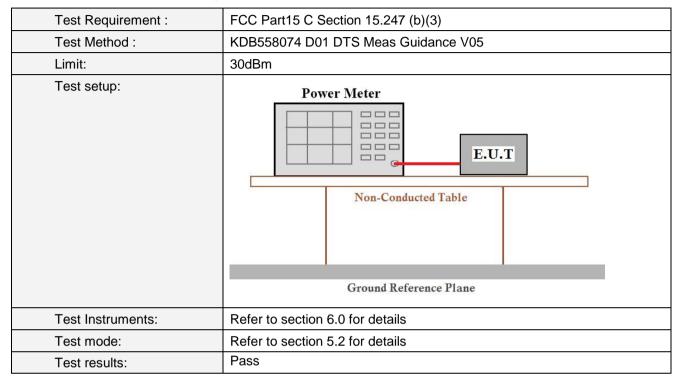
24.43

4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102



7.3 Conducted Peak Output Power



Measurement Data

Test CH		Peak Outp	Limit(dBm)	Result		
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Liiiii(abiii)	Nesuit
Lowest	18.45	18.39	18.05	18.39		
Middle	18.64	18.61	18.46	18.50	30.00	Pass
Highest	18.69	18.59	18.74	18.44		



7.4 Channel Bandwidth & 99% Occupy Bandwidth

Test Requirement :	FCC Part15 C Section 15.247 (a)(2)		
Test Method :	KDB558074 D01 DTS Meas Guidance V05		
Limit:	>500KHz		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.2 for details		
Test results:	Pass		

Measurement Data

Test CH		Channel E	Limit(KHz)	Result			
Test Off	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(Ki iz)	Result	
Lowest	10.139	16.428	17.558	36.042		Pass	
Middle	10.108	16.409	17.548	35.903	>500		
Highest	10.126	16.413	17.542	36.324			

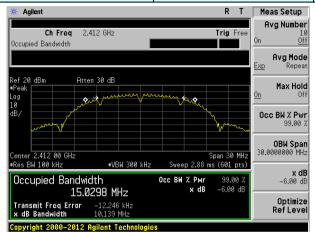
Toot CU		Dooult			
Test CH	802.11b	802.11g	Result		
Lowest	15.0298	16.4859	17.6060	36.0746	
Middle	15.0387	16.4844	17.6087	36.0434	Pass
Highest	15.0428	16.4820	17.6150	36.0536	

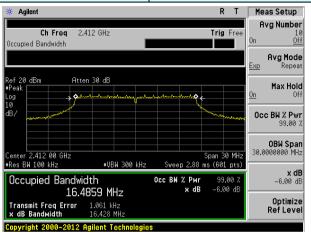
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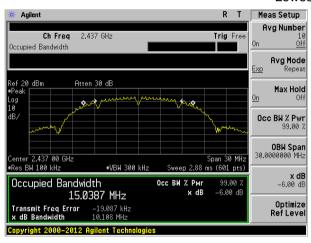
Test plot as follows:

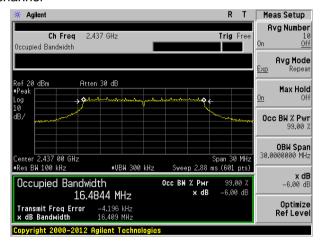




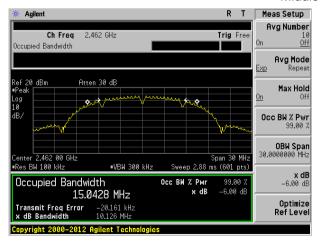


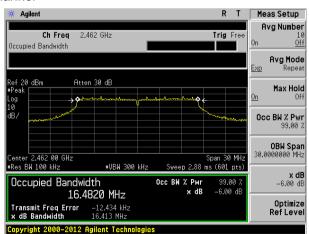
Lowest channel





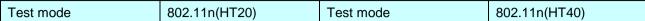
Middle channel

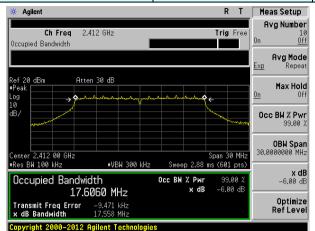


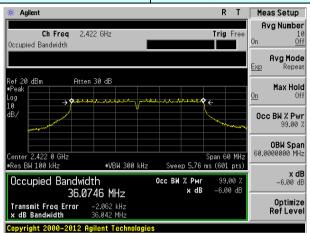


Highest channel

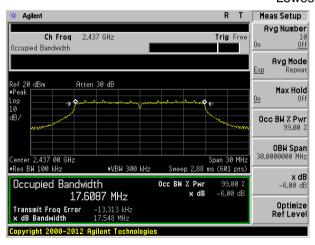


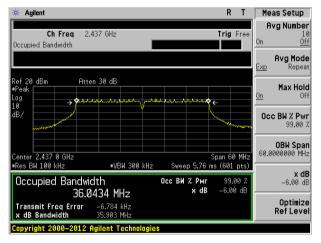




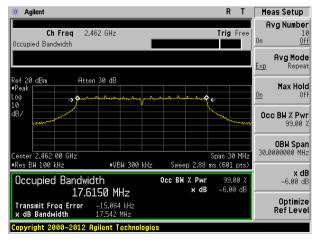


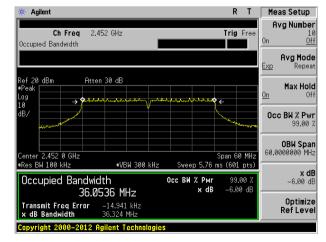
Lowest channel





Middle channel





Highest channel

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7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)		
Test Method:	KDB558074 D01 DTS Meas Guidance V05		
Limit:	8dBm/3kHz		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.2 for details		
Test results:	Pass		

Measurement Data

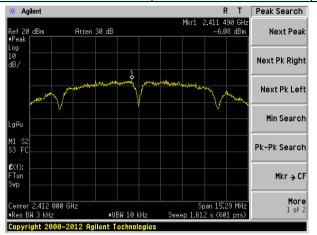
Test CH		Power Spectra	Limit	Result			
Test Off	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	(dBm/3kHz)	Nesult	
Lowest	-6.08	-7.84	-10.28	-12.49		Pass	
Middle	-7.53	-7.55	-9.61	-12.36	8.00		
Highest	-6.27	-8.47	-9.76	-13.78			

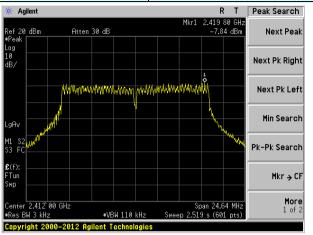


Test plot as follows:

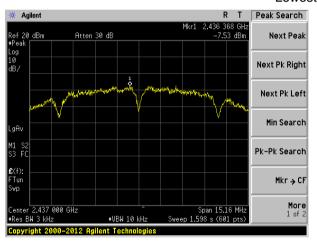
Report No.: GTS201904000075F01

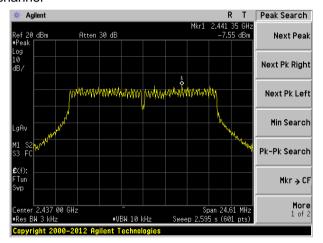




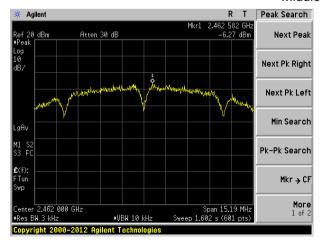


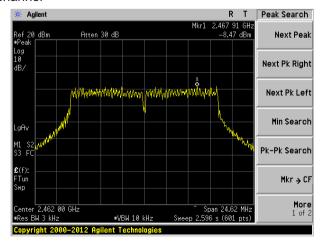
Lowest channel





Middle channel

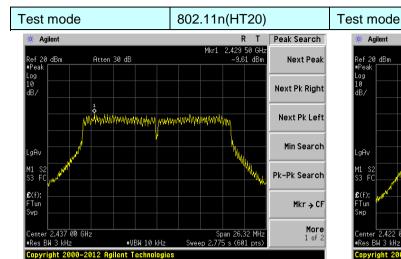


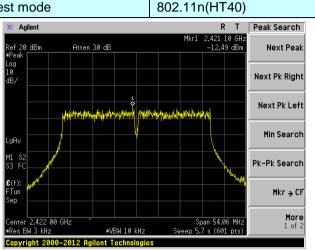


Highest channel

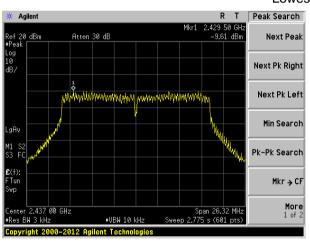
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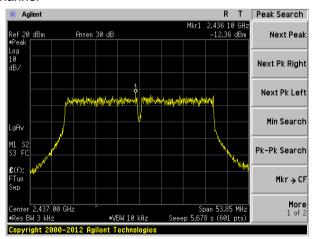




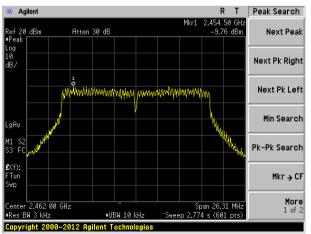


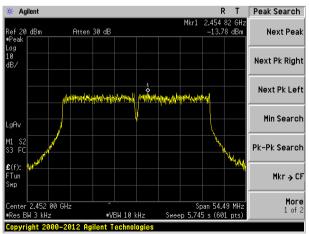
Lowest channel





Middle channel





Highest channel

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7.6 Band edges

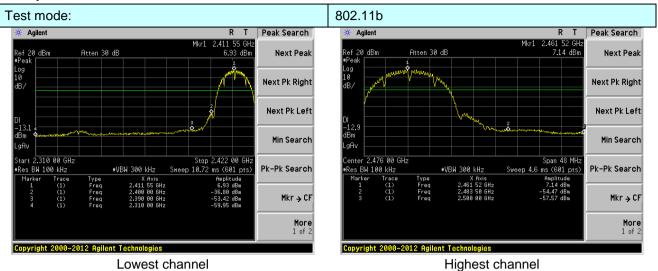
7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)				
'	` '				
Test Method:	KDB558074 D01 DTS Meas Guidance V05				
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.				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.2 for details				
Test results:	Pass				



Test plot as follows:

Report No.: GTS201904000075F01



Test mode:

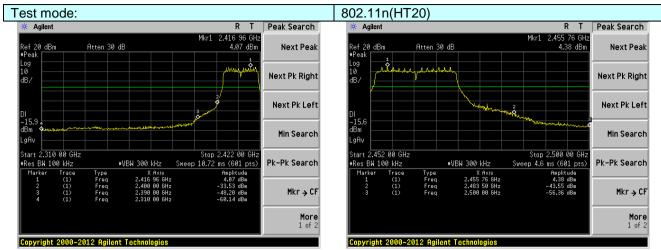
802.11g



Lowest channel

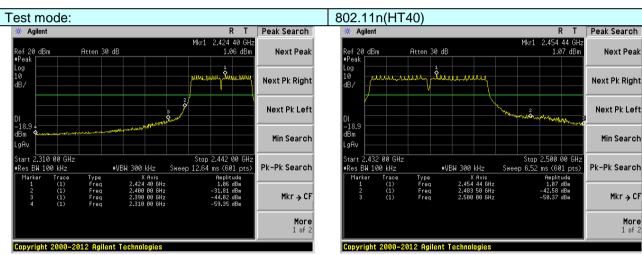
Highest channel





Lowest channel

Highest channel



Lowest channel Highest channel



7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C S	Section 15.209	and 15.205				
Test Method:	ANSI C63.10: 2013						
Test Frequency Range:		All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.					
Test site:	Measurement D	istance: 3m					
Receiver setup:	Frequency	Detector	RBW	VBW	Value		
		Peak	1MHz	3MHz	Peak		
	Above 1GHz	Average	1MHz	3MHz	Average		
Limit:	Freque		Limit (dBuV/	/m @3m)	Value		
	Above 1	CH-	54.0	0	Average		
	Above	GHZ	74.0	0	Peak		
Test setup:	Tum Table	EUT	Test Ante	Ŷ			
Test Procedure:	determine the 2. The EUT was antenna, whi tower. 3. The antenna ground to de horizontal an measuremer 4. For each sus and then the and the rota the maximun 5. The test-rece Specified Ba 6. If the emissic limit specified the EUT wou 10dB margin average met 7. The radiatior And found th worst case m	t a 3 meter care position of the set 3 meters ch was mounted height is varied termine the mad vertical polar at. Spected emission antenna was to table was turned reading. Eviver system was now in level of the finite than testing and be reported would be retented as specified measuremented as position and is recorded.	mber. The take highest race away from the away from the don the top of the from one maximum valued its as set to Peal aximum Hold as set to Peal aximum Hold EUT in peak could be stop. Otherwise the sare performant which its don the recommend to the recommend of the recommend of the recommend in	ole was rotated diation. The interference of a variable meter to four report of the field state antenna are was arranged by the from 1 meters to 360 at Detect Fund Mode. The mode was 10 ped and the he emissions one using period in X, Y, X to sworse case of the interference of the control of	ed 360 degrees to ce-receiving shelph antenna meters above the strength. Both re set to make the d to its worst case eter to 4 meters degrees to find action and DdB lower than the peak values of that did not have eak, quasi-peak or		
Test Instruments:	Refer to section 6.0 for details						
Test mode:	Refer to section	5.2 for details					
Test results:	Pass	Pass					



	Report N	o.: GTS201904000075F01
Measurement data:		

Test mode:		802.1	1b	Te	st channel:		Lowest	
Peak value:						•		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	39.73	27.14	6.19	42.04	31.02	74.00	-42.98	Horizontal
2390.00	48.09	27.37	6.31	42.11	39.66	74.00	-34.34	Horizontal
2310.00	38.27	27.14	6.19	42.04	29.56	74.00	-44.44	Vertical
2390.00	49.37	27.37	6.31	42.11	40.94	74.00	-33.06	Vertical
Average va	lue:	•			•			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	30.04	27.14	6.19	42.04	21.33	54.00	-32.67	Horizontal
2390.00	37.13	27.37	6.31	42.11	28.70	54.00	-25.30	Horizontal
2310.00	28.71	27.14	6.19	42.04	20.00	54.00	-34.00	Vertical
2390.00	39.10	27.37	6.31	42.11	30.67	54.00	-23.33	Vertical
Test mode: 902.11h Test shannel: Highest								
Test mode:		802.1	1b	Te	st channel:		Highest	
Test mode:		802.1	1b	Те	st channel:		Highest	
Test mode: Peak value: Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over	Polarization
Peak value: Frequency	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Polarization Horizontal
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	
Frequency (MHz) 2483.50	Read Level (dBuV) 48.56	Antenna Factor (dB/m) 27.66	Cable Loss (dB) 6.45	Preamp Factor (dB) 42.01	Level (dBuV/m) 40.66	Limit Line (dBuV/m) 74.00	Over Limit (dB) -33.34	Horizontal
Frequency (MHz) 2483.50 2500.00	Read Level (dBuV) 48.56 41.00	Antenna Factor (dB/m) 27.66 27.70	Cable Loss (dB) 6.45 6.47	Preamp Factor (dB) 42.01 42.00	Level (dBuV/m) 40.66 33.17	Limit Line (dBuV/m) 74.00 74.00	Over Limit (dB) -33.34 -40.83	Horizontal Horizontal
Peak value: Frequency (MHz) 2483.50 2500.00 2483.50	Read Level (dBuV) 48.56 41.00 48.42 42.18	Antenna Factor (dB/m) 27.66 27.70 27.66	Cable Loss (dB) 6.45 6.47 6.45	Preamp Factor (dB) 42.01 42.00 42.01	Level (dBuV/m) 40.66 33.17 40.52	Limit Line (dBuV/m) 74.00 74.00 74.00	Over Limit (dB) -33.34 -40.83	Horizontal Horizontal Vertical
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00	Read Level (dBuV) 48.56 41.00 48.42 42.18	Antenna Factor (dB/m) 27.66 27.70 27.66	Cable Loss (dB) 6.45 6.47 6.45	Preamp Factor (dB) 42.01 42.00 42.01	Level (dBuV/m) 40.66 33.17 40.52	Limit Line (dBuV/m) 74.00 74.00 74.00	Over Limit (dB) -33.34 -40.83 -33.48 -39.65	Horizontal Horizontal Vertical
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 Average va Frequency	Read Level (dBuV) 48.56 41.00 48.42 42.18 Iue: Read Level	Antenna Factor (dB/m) 27.66 27.70 27.66 27.70 Antenna Factor	Cable Loss (dB) 6.45 6.47 6.45 6.47 Cable Loss	Preamp Factor (dB) 42.01 42.00 42.01 42.00 Preamp Factor	Level (dBuV/m) 40.66 33.17 40.52 34.35	Limit Line (dBuV/m) 74.00 74.00 74.00 74.00 Limit Line	Over Limit (dB) -33.34 -40.83 -33.48 -39.65 Over Limit	Horizontal Horizontal Vertical Vertical
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 Average va Frequency (MHz)	Read Level (dBuV) 48.56 41.00 48.42 42.18 Iue: Read Level (dBuV)	Antenna Factor (dB/m) 27.66 27.70 27.66 27.70 Antenna Factor (dB/m)	Cable Loss (dB) 6.45 6.47 6.45 6.47 Cable Loss (dB)	Preamp Factor (dB) 42.01 42.00 42.01 42.00 Preamp Factor (dB)	Level (dBuV/m) 40.66 33.17 40.52 34.35 Level (dBuV/m)	Limit Line (dBuV/m) 74.00 74.00 74.00 74.00 Limit Line (dBuV/m)	Over Limit (dB) -33.34 -40.83 -33.48 -39.65 Over Limit (dB)	Horizontal Horizontal Vertical Vertical Polarization

42.00

24.56

54.00

32.39

2500.00

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27.70

6.47

-29.44

Vertical



Test mode:		802.1	1g	Te	est channel:		Lowest	
Peak value:	:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	I I Imit	Polarization
2310.00	39.63	27.14	6.19	42.04	30.92	74.00	-43.08	Horizontal
2390.00	47.96	27.37	6.31	42.11	39.53	74.00	-34.47	Horizontal
2310.00	38.17	27.14	6.19	42.04	29.46	74.00	-44.54	Vertical
2390.00	49.22	27.37	6.31	42.11	40.79	74.00	-33.21	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization
2310.00	29.97	27.14	6.19	42.04	21.26	54.00	-32.74	Horizontal
2390.00	37.05	27.37	6.31	42.11	28.62	54.00	-25.38	Horizontal
2310.00	28.63	27.14	6.19	42.04	19.92	54.00	-34.08	Vertical
2390.00	39.02	27.37	6.31	42.11	30.59	54.00	-23.41	Vertical
Test mode:		802.1	1g	Te	est channel:		Highest	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line	I I imit	Polarization
2483.50	48.42	27.66	6.45	42.01	40.52	74.00	-33.48	Horizontal
2500.00	40.89	27.70	6.47	42.00	33.06	74.00	-40.94	Horizontal
2483.50	48.26	27.66	6.45	42.01	40.36	74.00	-33.64	Vertical
2500.00	42.05	27.70	6.47	42.00	34.22	74.00	-39.78	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	I Limit	Polarization
2483.50	37.03	27.66	6.45	42.01	29.13	54.00	-24.87	Horizontal
2500.00	33.52	27.70	6.47	42.00	25.69	54.00	-28.31	Horizontal
2483.50	37.80	27.66	6.45	42.01	29.90	54.00	-24.10	Vertical
	32.32	27.70	6.47	42.00	24.49	54.00	-29.51	Vertical

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Test mode:		802.1	1n(HT20)		Test channel:		Lowest	
Peak value:		•						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Factor (dB)		Limit Line (dBuV/m)	I I imit	Polarization
2310.00	39.57	27.14	6.19	42.04	30.86	74.00	-43.14	Horizontal
2390.00	47.89	27.37	6.31	42.11	39.46	74.00	-34.54	Horizontal
2310.00	38.11	27.14	6.19	42.04	29.40	74.00	-44.60	Vertical
2390.00	49.13	27.37	6.31	42.11	40.70	74.00	-33.30	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Factor (dB)	r (dBuV/m)	Limit Line (dBuV/m)	Limit (dB)	Polarization
2310.00	29.93	27.14	6.19	42.04	21.22	54.00	-32.78	Horizontal
2390.00	37.00	27.37	6.31	42.11	28.57	54.00	-25.43	Horizontal
2310.00	28.59	27.14	6.19	42.04	19.88	54.00	-34.12	Vertical
2390.00	38.97	27.37	6.31	42.11	30.54	54.00	-23.46	Vertical
Test mode:		802.1	1n(HT20)		Test channel:		Highest	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Factor (dB)	r (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization
2483.50	48.34	27.66	6.45	42.01	40.44	74.00	-33.56	Horizontal
2500.00	40.83	27.70	6.47	42.00	33.00	74.00	-41.00	Horizontal
2483.50	48.17	27.66	6.45	42.01	40.27	74.00	-33.73	Vertical
2500.00	41.98	27.70	6.47	42.00	34.15	74.00	-39.85	Vertical
Average va	lue:							-
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Factor (dB)		Limit Line (dBuV/m)		Polarization
2483.50	36.98	27.66	6.45	42.01	29.08	54.00	-24.92	Horizontal
2500.00	33.48	27.70	6.47	42.00	25.65	54.00	-28.35	Horizontal
2483.50	37.74	27.66	6.45	42.01	29.84	54.00	-24.16	Vertical
2500.00	32.28	27.70	6.47	42.00	24.45	54.00	-29.55	Vertical

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Test mode:		802.1	1n(HT40)	T	est channel:	L	_owest	
Peak value:				<u>.</u>				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	39.43	27.14	6.19	42.04	30.72	74.00	-43.28	Horizontal
2390.00	47.70	27.37	6.31	42.11	39.27	74.00	-34.73	Horizontal
2310.00	37.96	27.14	6.19	42.04	29.25	74.00	-44.75	Vertical
2390.00	48.90	27.37	6.31	42.11	40.47	74.00	-33.53	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	29.83	27.14	6.19	42.04	21.12	54.00	-32.88	Horizontal
2390.00	36.89	27.37	6.31	42.11	28.46	54.00	-25.54	Horizontal
2310.00	28.47	27.14	6.19	42.04	19.76	54.00	-34.24	Vertical
2390.00	38.84	27.37	6.31	42.11	30.41	54.00	-23.59	Vertical
Test mode:		802.1	1n(HT40)	T	est channel:	H	Highest	
Peak value:						•		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	48.14	27.66	6.45	42.01	40.24	74.00	-33.76	Horizontal
2500.00	40.67	27.70	6.47	42.00	32.84	74.00	-41.16	Horizontal
2483.50	47.94	27.66	6.45	42.01	40.04	74.00	-33.96	Vertical
2500.00	41.80	27.70	6.47	42.00	33.97	74.00	-40.03	Vertical
Average va	lue:							
1			0 11	_	Ī		1 -	I

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	36.86	27.66	6.45	42.01	28.96	54.00	-25.04	Horizontal
2500.00	33.39	27.70	6.47	42.00	25.56	54.00	-28.44	Horizontal
2483.50	37.61	27.66	6.45	42.01	29.71	54.00	-24.29	Vertical
2500.00	32.18	27.70	6.47	42.00	24.35	54.00	-29.65	Vertical

Remarks:

- 1. Only the worst case Main Antenna test data.
- 2. The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.
- 3. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 4. The emission levels of other frequencies are very lower than the limit and not show in test report.



7.7 Spurious Emission

7.7.1 Conducted Emission Method

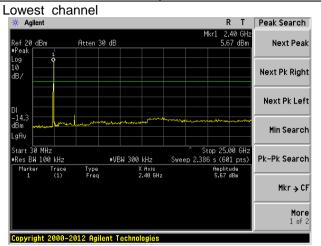
Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	KDB558074 D01 DTS Meas Guidance V05					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator 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.					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test results:	Pass					

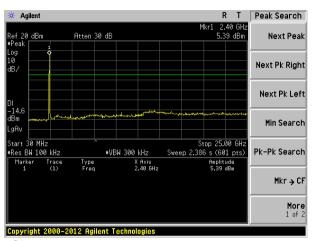


Test plot as follows:

Report No.: GTS201904000075F01

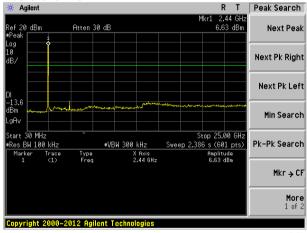
Test mode 802.11b Test mode 802.11g

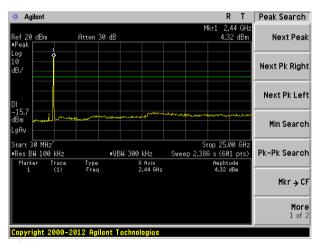




30MHz~25GHz

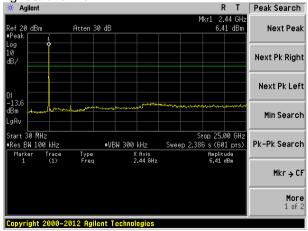
Middle channel

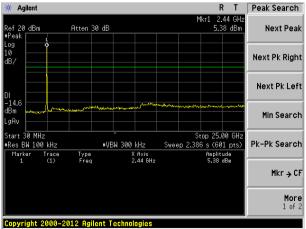




30MHz~25GHz



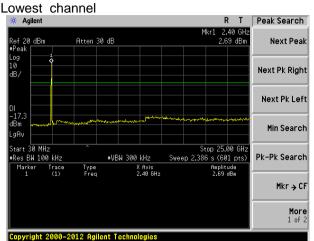


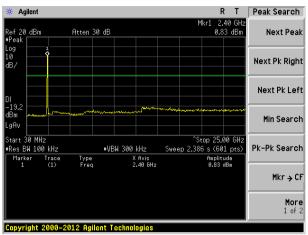


30MHz~25GHz



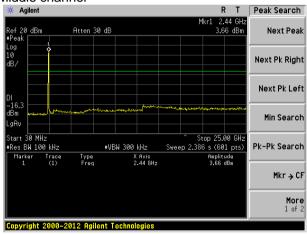
Test mode 802.11n(HT20) Test mode 802.11n(HT40)

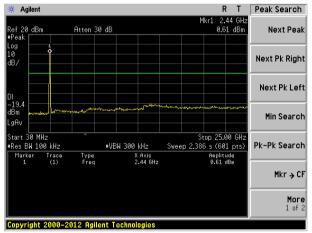




30MHz~25GHz

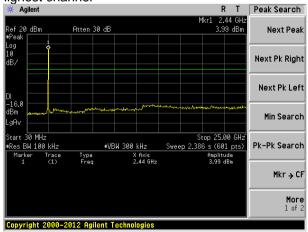
Middle channel

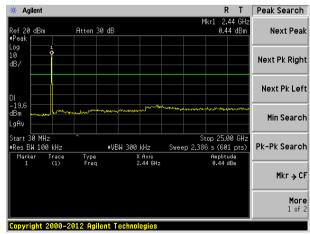




30MHz~25GHz

Highest channel





30MHz~25GHz

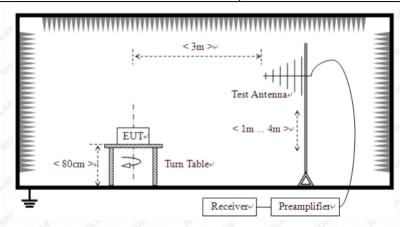


7.7.2 Radiated Emission Method

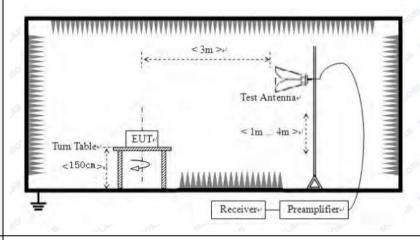
Test Requirement:	FCC Part15 C Section	FCC Part15 C Section 15.209						
Test Method:	ANSI C63.10: 2013	ANSI C63.10: 2013						
Test Frequency Range:	9kHz to 25GHz							
Test site:	Measurement Distance: 3m							
Receiver setup:	Frequency	Frequency Detector RBW					Value	
	9KHz-150KHz	Qı	uasi-peak	200	Hz	600Hz	z Quasi-peak	
	150KHz-30MHz	Qı	uasi-peak	9Kł	Ηz	30KHz	z Quasi-peak	
	30MHz-1GHz	Qι	ıasi-peak	100k	(Hz	300KH	z Quasi-peak	
	Above 4CLI=		Peak	1MI	Hz	3MHz	: Peak	
	Above 1GHz		Peak	1MI	Hz	10Hz	Average	
Limit:	Frequency		Limit (u\	//m)	V	/alue	Measurement Distance	
	0.009MHz-0.490M	1Hz	2400/F(k	(Hz)		QP	300m	
	0.490MHz-1.705M	1Hz	24000/F(KHz)		QP	300m	
	1.705MHz-30MH	lz	30			QP	30m	
	30MHz-88MHz		100	100		QP		
	88MHz-216MHz	Z	150			QP		
	216MHz-960MH	216MHz-960MHz				QP	3m	
	960MHz-1GHz		500			QP	Jili	
	Above 1GHz	500		Av		erage		
	Above 1G112		5000)	F	Peak		
Test setup:	For radiated emiss Tum Table < 80cm > 1	EUT	< 3m	>+	······································	Preamplific	er	
	For radiated emiss		L					

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For radiated emissions above 1GHz



Test Procedure:

- 1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 4. 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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 6. 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



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		10port 10:: 01020100 1000010101						
	margin	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.						
Test Instruments:	Refer to s	ection 6.0 fo	r details					
Test mode:	Refer to s	Refer to section 5.2 for details						
Test voltage:	AC120V 6	60Hz						
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar		
Test voltage:	AC 120V,	AC 120V, 60Hz						
Test results:	Pass							

Remarks:

- 1. Only the worst case Main Antenna test data.
- 2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

Measurement data:

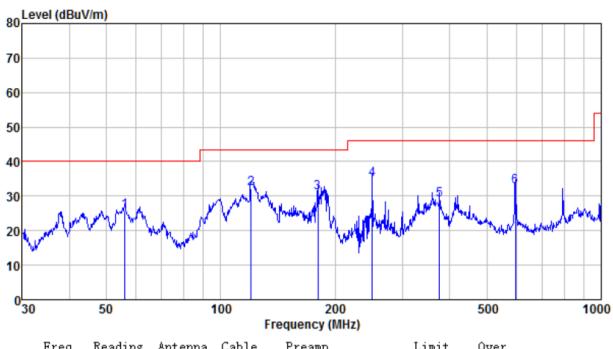
■ 9kHz~30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.



■ Below 1GHz

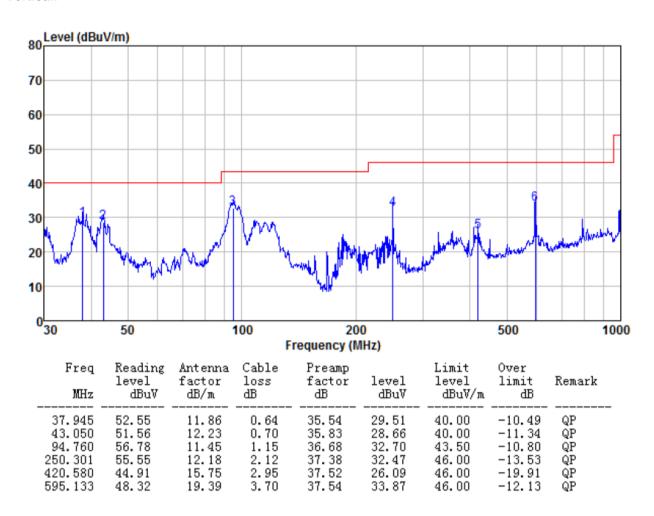
Horizontal:



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
56.001	49.42	11.68	0.83	36.27	25.66	40.00	-14.34	OB
								QP
120.277	58.39	9.42	1.36	36.88	32.29	43.50	-11.21	QP
180.017	57.72	8.90	1.74	37.24	31.12	43.50	-12.38	QP
250.301	57.77	12.18	2.12	37.38	34.69	46.00	-11.31	QP
375.939	48.87	14.94	2.75	37.50	29.06	46.00	-16.94	QP
595.133	47.30	19.39	3.70	37.54	32.85	46.00	-13.15	QP



Vertical:





■ Above 1GHz

Test mode:		802.11b		Test	channel:	Lowe	est	
Peak value:			1		T		1	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	39.52	31.79	8.62	32.10	47.83	74.00	-26.17	Vertical
7236.00	33.73	36.19	11.68	31.97	49.63	74.00	-24.37	Vertical
9648.00	32.36	38.07	14.16	31.56	53.03	74.00	-20.97	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.31	31.79	8.62	32.10	46.62	74.00	-27.38	Horizontal
7236.00	33.54	36.19	11.68	31.97	49.44	74.00	-24.56	Horizontal
9648.00	31.97	38.07	14.16	31.56	52.64	74.00	-21.36	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val							ı	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	28.66	31.79	8.62	32.10	36.97	54.00	-17.03	Vertical
7236.00	22.61	36.19	11.68	31.97	38.51	54.00	-15.49	Vertical
9648.00	22.72	38.07	14.16	31.56	43.39	54.00	-10.61	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	27.89	31.79	8.62	32.10	36.20	54.00	-17.80	Horizontal
7236.00	22.13	36.19	11.68	31.97	38.03	54.00	-15.97	Horizontal
9648.00	21.73	38.07	14.16	31.56	42.40	54.00	-11.60	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11b			Test	channel:		Midd	le	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fac (dl	tor	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4874.00	38.71	31.85	8.66	32.	12	47.10	74.	00	-26.90	Vertical
7311.00	33.88	36.37	11.71	31.	91	50.05	74.	00	-23.95	Vertical
9748.00	33.44	38.27	14.25	31.	56	54.40	74.	00	-19.60	Vertical
12185.00	*						74.	00		Vertical
14622.00	*						74.	00		Vertical
17059.00	*						74.	00		Vertical
4874.00	39.29	31.85	8.66	32.	12	47.68	74.	00	-26.32	Horizontal
7311.00	32.58	36.37	11.71	31.	91	48.75	74.	00	-25.25	Horizontal
9748.00	33.36	38.27	14.25	31.	56	54.32	74.	00	-19.68	Horizontal
12185.00	*						74.	00		Horizontal
14622.00	*						74.	00		Horizontal
17059.00	*						74.	00		Horizontal
Average val	ue:			•						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fac (dl	tor	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4874.00	29.61	31.85	8.66	32.	12	38.00	54.	00	-16.00	Vertical
7311.00	22.21	36.37	11.71	31.	91	38.38	54.	00	-15.62	Vertical
9748.00	22.71	38.27	14.25	31.	56	43.67	54.	00	-10.33	Vertical
12185.00	*						54.	00		Vertical
14622.00	*						54.	00		Vertical
17059.00	*						54.	00		Vertical
4874.00	29.43	31.85	8.66	32.	12	37.82	54.	00	-16.18	Horizontal
7311.00	21.68	36.37	11.71	31.	91	37.85	54.	00	-16.15	Horizontal
9748.00	23.08	38.27	14.25	31.	56	44.04	54.	00	-9.96	Horizontal
12185.00	*						54.	00		Horizontal
14622.00	*						54.	00		Horizontal
17059.00	*				•		54.	00		Horizontal

Remark:

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11b			Test	channel:		Highe	est	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)		amp ctor B)	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4924.00	43.78	31.90	8.70	32.	.15	52.23	74.	00	-21.77	Vertical
7386.00	34.27	36.49	11.76	31.	.83	50.69	74.	00	-23.31	Vertical
9848.00	36.53	38.62	14.31	31.	.77	57.69	74.	00	-16.31	Vertical
12310.00	*						74.	00		Vertical
14772.00	*						74.	00		Vertical
17234.00	*						74.	00		Vertical
4924.00	43.25	31.90	8.70	32.	.15	51.70	74.	00	-22.30	Horizontal
7386.00	33.26	36.49	11.76	31.	.83	49.68	74.	00	-24.32	Horizontal
9848.00	32.74	38.62	14.31	31.	.77	53.90	74.	00	-20.10	Horizontal
12310.00	*						74.	00		Horizontal
14772.00	*						74.	00		Horizontal
17234.00	*						74.	00		Horizontal
Average val	ue:			•						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)		amp ctor B)	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4924.00	34.78	31.90	8.70	32.	.15	43.23	54.	00	-10.77	Vertical
7386.00	24.21	36.49	11.76	31.	.83	40.63	54.	00	-13.37	Vertical
9848.00	25.05	38.62	14.31	31.	.77	46.21	54.	00	-7.79	Vertical
12310.00	*						54.	00		Vertical
14772.00	*						54.	00		Vertical
17234.00	*						54.	00		Vertical
4924.00	33.68	31.90	8.70	32.	.15	42.13	54.	00	-11.87	Horizontal
7386.00	22.66	36.49	11.76	31.	.83	39.08	54.	00	-14.92	Horizontal
9848.00	22.02	38.62	14.31	31.	.77	43.18	54.	00	-10.82	Horizontal
12310.00	*						54.	00		Horizontal
14772.00	*						54.	00		Horizontal
17234.00	*				_		54.	00		Horizontal

Remark:

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11g		-	Test o	channel:		lowes	st	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pread Fact (dB	or	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4824.00	39.23	31.79	8.62	32.1	10	47.54	74.	00	-26.46	Vertical
7236.00	33.55	36.19	11.68	31.9	97	49.45	74.	00	-24.55	Vertical
9648.00	32.23	38.07	14.16	31.5	56	52.90	74.	00	-21.10	Vertical
12060.00	*						74.	00		Vertical
14472.00	*						74.	00		Vertical
16884.00	*						74.	00		Vertical
4824.00	38.07	31.79	8.62	32.1	10	46.38	74.	00	-27.62	Horizontal
7236.00	33.38	36.19	11.68	31.9	97	49.28	74.	00	-24.72	Horizontal
9648.00	31.85	38.07	14.16	31.5	56	52.52	74.	00	-21.48	Horizontal
12060.00	*						74.	00		Horizontal
14472.00	*						74.	00		Horizontal
16884.00	*						74.	00		Horizontal
Average val	ue:				•					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Fact (dB	or	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4824.00	28.40	31.79	8.62	32.1	10	36.71	54.	00	-17.29	Vertical
7236.00	22.44	36.19	11.68	31.9	97	38.34	54.	00	-15.66	Vertical
9648.00	22.60	38.07	14.16	31.5	56	43.27	54.	00	-10.73	Vertical
12060.00	*						54.	00		Vertical
14472.00	*						54.	00		Vertical
16884.00	*						54.	00		Vertica
4824.00	27.66	31.79	8.62	32.1	10	35.97	54.	00	-18.03	Horizontal
7236.00	21.98	36.19	11.68	31.9	97	37.88	54.	00	-16.12	Horizontal
9648.00	21.61	38.07	14.16	31.5	56	42.28	54.	00	-11.72	Horizontal
12060.00	*						54.	00		Horizontal
14472.00	*						54.	00		Horizontal
16884.00	*						54.	00		Horizontal

Remark:

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11g			Test	channel:		Middl	е	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fac (dl	ctor	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4874.00	38.47	31.85	8.66	32.	12	46.86	74.	00	-27.14	Vertical
7311.00	33.73	36.37	11.71	31.	.91	49.90	74.	00	-24.10	Vertical
9748.00	33.34	38.27	14.25	31.	56	54.30	74.	00	-19.70	Vertical
12185.00	*						74.	00		Vertical
14622.00	*						74.	00		Vertical
17059.00	*						74.	00		Vertical
4874.00	39.09	31.85	8.66	32.	12	47.48	74.	00	-26.52	Horizontal
7311.00	32.44	36.37	11.71	31.	.91	48.61	74.	00	-25.39	Horizontal
9748.00	33.26	38.27	14.25	31.	.56	54.22	74.	00	-19.78	Horizontal
12185.00	*						74.	00		Horizontal
14622.00	*						74.	00		Horizontal
17059.00	*						74.	00		Horizontal
Average value	ue:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fac (dl	ctor	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4874.00	29.39	31.85	8.66	32.	12	37.78	54.	00	-16.22	Vertical
7311.00	22.07	36.37	11.71	31.	91	38.24	54.	00	-15.76	Vertical
9748.00	22.60	38.27	14.25	31.	56	43.56	54.	00	-10.44	Vertical
12185.00	*						54.	00		Vertical
14622.00	*						54.	00		Vertical
17059.00	*						54.	00		Vertical
4874.00	29.25	31.85	8.66	32.	12	37.64	54.	00	-16.36	Horizontal
7311.00	21.55	36.37	11.71	31.	91	37.72	54.	00	-16.28	Horizontal
9748.00	22.98	38.27	14.25	31.	56	43.94	54.	00	-10.06	Horizontal
12185.00	*						54.	00		Horizontal
14622.00	*						54.	00		Horizontal
17059.00	*						54.	00		Horizontal

Remark:

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11g		Te	st channel:	High	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	43.37	31.90	8.70	32.15	51.82	74.00	-22.18	Vertical
7386.00	34.01	36.49	11.76	31.83	50.43	74.00	-23.57	Vertical
9848.00	36.34	38.62	14.31	31.77	57.50	74.00	-16.50	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	42.91	31.90	8.70	32.15	51.36	74.00	-22.64	Horizontal
7386.00	33.03	36.49	11.76	31.83	49.45	74.00	-24.55	Horizontal
9848.00	32.57	38.62	14.31	31.77	53.73	74.00	-20.27	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average value	ue:		•	•		•	•	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	34.40	31.90	8.70	32.15	42.85	54.00	-11.15	Vertical
7386.00	23.96	36.49	11.76	31.83	40.38	54.00	-13.62	Vertical
9848.00	24.87	38.62	14.31	31.77	46.03	54.00	-7.97	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	33.35	31.90	8.70	32.15	41.80	54.00	-12.20	Horizontal
7386.00	22.44	36.49	11.76	31.83	38.86	54.00	-15.14	Horizontal
9848.00	21.85	38.62	14.31	31.77	43.01	54.00	-10.99	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	IT20)	Test	channel:	Lowe	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	39.20	31.79	8.62	32.10	47.51	74.00	-26.49	Vertical
7236.00	33.53	36.19	11.68	31.97	49.43	74.00	-24.57	Vertical
9648.00	32.22	38.07	14.16	31.56	52.89	74.00	-21.11	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.04	31.79	8.62	32.10	46.35	74.00	-27.65	Horizontal
7236.00	33.37	36.19	11.68	31.97	49.27	74.00	-24.73	Horizontal
9648.00	31.84	38.07	14.16	31.56	52.51	74.00	-21.49	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	28.37	31.79	8.62	32.10	36.68	54.00	-17.32	Vertical
7236.00	22.42	36.19	11.68	31.97	38.32	54.00	-15.68	Vertical
9648.00	22.59	38.07	14.16	31.56	43.26	54.00	-10.74	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	27.64	31.79	8.62	32.10	35.95	54.00	-18.05	Horizontal
7236.00	21.97	36.19	11.68	31.97	37.87	54.00	-16.13	Horizontal
9648.00	21.60	38.07	14.16	31.56	42.27	54.00	-11.73	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	T20)	Test	channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	38.45	31.85	8.66	32.12	46.84	74.00	-27.16	Vertical
7311.00	33.72	36.37	11.71	31.91	49.89	74.00	-24.11	Vertical
9748.00	33.33	38.27	14.25	31.56	54.29	74.00	-19.71	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.07	31.85	8.66	32.12	47.46	74.00	-26.54	Horizontal
7311.00	32.43	36.37	11.71	31.91	48.60	74.00	-25.40	Horizontal
9748.00	33.25	38.27	14.25	31.56	54.21	74.00	-19.79	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	29.37	31.85	8.66	32.12	37.76	54.00	-16.24	Vertical
7311.00	22.06	36.37	11.71	31.91	38.23	54.00	-15.77	Vertical
9748.00	22.60	38.27	14.25	31.56	43.56	54.00	-10.44	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.23	31.85	8.66	32.12	37.62	54.00	-16.38	Horizontal
7311.00	21.54	36.37	11.71	31.91	37.71	54.00	-16.29	Horizontal
9748.00	22.97	38.27	14.25	31.56	43.93	54.00	-10.07	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	T20)		Test	channel:		Highe	est	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fac (dE	tor	Level (dBuV/m)	Limit (dBu		Over Limit (dB)	polarization
4924.00	43.33	31.90	8.70	32.	15	51.78	74.	00	-22.22	4924.00
7386.00	33.98	36.49	11.76	31.8	83	50.40	74.	00	-23.60	7386.00
9848.00	36.33	38.62	14.31	31.	77	57.49	74.	00	-16.51	9848.00
12310.00	*						74.	00		Vertical
14772.00	*						74.	00		Vertical
17234.00	*						74.	00		Vertical
4924.00	42.87	31.90	8.70	32.	15	51.32	74.	00	-22.68	Horizontal
7386.00	33.01	36.49	11.76	31.8	83	49.43	74.	00	-24.57	Horizontal
9848.00	32.55	38.62	14.31	31.	77	53.71	74.	00	-20.29	Horizontal
12310.00	*						74.	00		Horizontal
14772.00	*						74.	00		Horizontal
17234.00	*						74.	00		Horizontal
Average val	ue:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fac (dE	tor	Level (dBuV/m)	Limit (dBu		Over Limit (dB)	polarization
4924.00	34.36	31.90	8.70	32.	15	42.81	54.	00	-11.19	Vertical
7386.00	23.93	36.49	11.76	31.8	83	40.35	54.	00	-13.65	Vertical
9848.00	24.86	38.62	14.31	31.	77	46.02	54.	00	-7.98	Vertical
12310.00	*						54.	00		Vertical
14772.00	*						54.	00		Vertical
17234.00	*						54.	00		Vertical
4924.00	33.32	31.90	8.70	32.	15	41.77	54.	00	-12.23	Horizontal
7386.00	22.42	36.49	11.76	31.8	83	38.84	54.	00	-15.16	Horizontal
9848.00	21.83	38.62	14.31	31.	77	42.99	54.	00	-11.01	Horizontal
12310.00	*						54.	00		Horizontal
14772.00	*						54.	00		Horizontal
17234.00	*						54.	00		Horizontal

Remark:

¹ Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2 &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	In(HT40) Test channel:		channel:		Lowe	st		
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	s Factor) (dB)		Level (dBuV/m)	Limit (dBu)		Over Limit (dB)	polarization
4844.00	37.78	31.81	8.63	32	.11	46.11	74.	00	-27.89	Vertical
7266.00	32.63	36.28	11.69	31	.94	48.66	74.	00	-25.34	Vertical
9688.00	31.58	38.13	14.21	31	.52	52.40	74.	00	-21.60	Vertical
12060.00	*						74.	00		Vertical
14472.00	*						74.	00		Vertical
16884.00	*						74.	00		Vertical
4844.00	36.84	31.81	8.63	32	.11	45.17	74.	00	-28.83	Horizontal
7266.00	32.58	36.28	11.69	31	.94	48.61	74.	00	-25.39	Horizontal
9688.00	31.25	38.13	14.21	31	.52	52.07	74.	00	-21.93	Horizontal
12060.00	*						74.	00		Horizontal
14472.00	*						74.	00		Horizontal
16884.00	*						74.	00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	27.06	31.81	8.63	32.11	35.39	54.00	-18.61	Vertical
7266.00	21.55	36.28	11.69	31.94	37.58	54.00	-16.42	Vertical
9688.00	21.97	38.13	14.21	31.52	42.79	54.00	-11.21	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	26.51	31.81	8.63	32.11	34.84	54.00	-19.16	Horizontal
7266.00	21.20	36.28	11.69	31.94	37.23	54.00	-16.77	Horizontal
9688.00	21.03	38.13	14.21	31.52	41.85	54.00	-12.15	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	IT40)	T	est channel:		Middle	
Peak value:				<u> </u>				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	. I level		l limit	polarization
4874.00	37.27	31.85	8.66	32.12	45.66	74.0	0 -28.34	Vertical
7311.00	32.98	36.37	11.71	31.91	49.15	74.0	0 -24.85	Vertical
9748.00	32.79	38.27	14.25	31.56	53.75	74.0	0 -20.25	Vertical
12185.00	*					74.0	0	Vertical
14622.00	*					74.0	0	Vertical
17059.00	*					74.0	0	Vertical
4874.00	38.08	31.85	8.66	32.12	46.47	74.0	0 -27.53	Horizontal
7311.00	31.78	36.37	11.71	31.91	47.95	74.0	0 -26.05	Horizontal
9748.00	32.76	38.27	14.25	31.56	53.72	74.0	0 -20.28	Horizontal
12185.00	*					74.0	0	Horizontal
14622.00	*					74.0	0	Horizontal
17059.00	*					74.0	0	Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)			l limit	polarization
4874.00	28.29	31.85	8.66	32.12	36.68	54.0	0 -17.32	Vertical
7311.00	21.34	36.37	11.71	31.91	37.51	54.0	0 -16.49	Vertical
9748.00	22.09	38.27	14.25	31.56	43.05	54.0	0 -10.95	Vertical
12185.00	*					54.0	0	Vertical
14622.00	*					54.0	0	Vertical
17059.00	*					54.0	0	Vertical
4874.00	28.30	31.85	8.66	32.12	36.69	54.0	0 -17.31	Horizontal
7311.00	20.91	36.37	11.71	31.91	37.08	54.0	0 -16.92	Horizontal
9748.00	22.50	38.27	14.25	31.56	3.46	54.0	0 -10.54	Horizontal
12185.00	*					54.0	0	Horizontal
14622.00	*					54.0	0	Horizontal
17059.00	*					54.0	0	Horizontal

Remark

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	Test channel:			Highest				
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)		Level (dBuV/m)	Limit Line (dBuV/m)		Over Limit (dB)	polarization
4904.00	41.30	31.88	8.68	32.13		49.73	74.00		-24.27	Vertical
7356.00	32.70	36.45	11.75	31.86		49.04	74.00		-24.96	Vertical
9808.00	35.41	38.43	14.29	31.68		56.45	74.00		-17.55	Vertical
12310.00	*						74.00			Vertical
14772.00	*						74.00			Vertical
17234.00	*						74.00			Vertical
4904.00	41.17	31.88	8.68	32.1	3	49.60	74.	00	-24.40	Horizontal
7356.00	31.89	36.45	11.75	31.8	36	48.23	74.00		-25.77	Horizontal
9808.00	31.71	38.43	14.29	31.6	8	52.75	74.00		-21.25	Horizontal
12310.00	*						74.	00		Horizontal
14772.00	*						74.	00		Horizontal
17234.00	*						74.	00		Horizontal
Average val	ue:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Fact (dB	or	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4904.00	32.50	31.88	8.68	32.1	3	40.93	54.	00	-13.07	Vertical
7356.00	22.70	36.45	11.75	31.8	36	39.04	54.	00	-14.96	Vertical
9808.00	23.98	38.43	14.29	31.6	88	45.02	54.	00	-8.98	Vertical
12310.00	*						54.	00		Vertical
14772.00	*						54.	00		Vertical
17234.00	*						54.	00		Vertical
4904.00	31.72	31.88	8.68	32.1	3	40.15	54.	00	-13.85	Horizontal
7356.00	21.34	36.45	11.75	31.8	36	37.68	54.	00	-16.32	Horizontal
9808.00	21.02	38.43	14.29	31.6	88	42.06	54.	00	-11.94	Horizontal
12310.00	*						54.	00		Horizontal
14772.00	*						54.	00		Horizontal
17234.00	*						54.	00		Horizontal

Remark:

¹ Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2 &}quot;*", means this data is the too weak instrument of signal is unable to test.



8 Test Setup Photo

Reference to the appendix I for details.

9 EUT Constructional Details

Reference to the appendix II for details.

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