

Global United Technology Services Co., Ltd.

Report No.: GTS201607000010E02

FCC REPORT

Applicant: Quantum Creations LLC.

Address of Applicant: 16410 NE 19th Avenue Suite 102 North, Miami Beach, Florida

United States 33162

Equipment Under Test (EUT)

Product Name: Mini PC

Model No.: A-1062-ABP, A-1062-ABP-1, A-1062-ABP-2, A-1062-ABP-3,

A-1062-ABP-4, A-1062-ABP-5, A-1062-ABP-6, A-1062-ABP-

7, A-1062-ABP-8

Trade Mark: Azulle

FCC ID: 2AFJI20161062

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247:2015

Date of sample receipt: July 11, 2016

Date of Test: July 12-21, 2016

Date of report issued: July 22, 2016

Test Result: PASS *

Authorized Signature:

Robinson Lo V Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of GTS or testing done by GTS in connection with, distribution or use of the product described in this report must be approved by GTS in writing.

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



2 Version

Version No.	Date	Description
00	July 22, 2016	Original

Prepared By:	Yang, liu	Date:	July 22, 2016	
	Project Engineer			
Check By:	Andy wa	Date:	July 22, 2016	
	Reviewer		·	

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
Channel Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

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

Remark: Test according to ANSI C63.10:2013 and ANSI C63.4:2014.

4.1 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 u	ncertainty is for coverage factor of	of k=2 and a level of confidence	of 95%.



5 General Information

5.1 Client Information

Applicant:	Quantum Creations LLC.		
Address of Applicant:	16410 NE 19th Avenue Suite 102 North, Miami Beach, Florida United States 33162		
Manufacturer:	SHENZHEN MELE STAR TECHNOLOGY LIMITED		
Address of Manufacturer:	3F,Bldg#1,28 Cuijing Road, Pingshan New District, Shenzhen, PR China.		
Factory:	Shenzhen MeLE Precision Technology Limited		
Address of Factory:	3F East,Bldg#1,28 Cuijing Road, Pingshan New District, Shenzhen, PR China.		

5.2 General Description of EUT

Product Name:	Mini PC
Model No.:	A-1062-ABP, A-1062-ABP-1, A-1062-ABP-2, A-1062-ABP-3,
	A-1062-ABP-4, A-1062-ABP-5, A-1062-ABP-6, A-1062-ABP-7,
	A-1062-ABP-8
Operation Frequency:	802.11b/802.11g/802.11n(HT20): 2412MHz~2462MHz
	802.11n(HT40): 2422MHz~2452MHz
Channel numbers:	802.11b/802.11g/802.11n(HT20): 11
	802.11n(HT40): 7
Channel bandwidth:	802.11b/802.11g/802.11n(HT20) : 20MHz
	802.11n(HT40): 40MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum (DSSS)
	802.11g/802.11n(H20)/802.11n(H40):
	Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	Integral Antenna
Antenna gain:	2.0dBi (declare by Applicant)
Power supply:	SWITCHING ADAPTER:
	Model No.:S12B22-120A100-04
	Input: AC 100~240V~50/60Hz 0.5A
	Output: DC 12V 1A

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	Operation Frequency each of channel @ 2.4G Band							
Channel Frequency Channel Frequency Channel Frequency Channel Frequency							Frequency	
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz	
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz	
3	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:

	Frequency (MHz)					
Test channel	2.4G Band					
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest channel	2412	2412	2412	2422		
Middle channel	2437	2437	2437	2437		
Highest channel	2462	2462	2462	2452		



5.3 Test mode

Transmitting mode Keep the EUT in continuously transmitting mode

Remark: During the test, 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:

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

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

5.4 Description of Support Units

None.

5.5 Test Facility

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

• FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fuly described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 22, 2016.

• 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, June 26, 2013.

5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone,

Xixiang Road, Baoan District, Shenzhen, Guangdong, China

Tel: 0755-27798480 Fax: 0755-27798960

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



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	Mar. 27 2016	Mar. 26 2017	
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 29 2016	June 28 2017	
4	Spectrum analyzer	Agilent	E4447A	GTS516	June 29 2016	June 28 2017	
5	Spectrum Analyzer	Agilent	E4440A	GTS533	Nov. 18 2015	Nov. 17 2016	
6	BiConiLog Antenna	SCHWARZBECK MESS- ELEKTRONIK	VULB9163	GTS214	Feb. 21 2016	Feb. 20 2017	
7	Double -ridged waveguide horn	SCHWARZBECK MESS- ELEKTRONIK	9120D-829	GTS208	June 29 2016	June 28 2017	
8	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 27 2016	Mar. 26 2017	
9	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
10	Coaxial Cable	GTS	N/A	GTS213	Mar. 27 2016	Mar. 26 2017	
11	Coaxial Cable	GTS	N/A	GTS211	Mar. 27 2016	Mar. 26 2017	
12	Coaxial cable	GTS	N/A	GTS210	Mar. 27 2016	Mar. 26 2017	
13	Coaxial Cable	GTS	N/A	GTS212	Mar. 27 2016	Mar. 26 2017	
14	Amplifier(100kHz- 3GHz)	HP	8347A	GTS204	June 29 2016	June 28 2017	
15	Amplifier(2GHz- 20GHz)	HP	8349B	GTS206	June 29 2016	June 28 2017	
16	Amplifier (18-40GHz)	MITEQ	AMF-6F-18004000- 29-8P	GTS534	June 29 2016	June 28 2017	
17	Band filter	Amindeon	82346	GTS219	Mar. 27 2016	Mar. 26 2017	
18	Constant temperature and humidity box	Oregon Scientific	BA-888	GTS248	Mar. 27 2016	Mar. 26 2017	
19	D.C. Power Supply	Instek	PS-3030	GTS232	Mar. 27 2016	Mar. 26 2017	
20	Universal radio communication tester	Rohde & Schwarz	CMU200	GTS235	Mar. 27 2016	Mar. 26 2017	
21	Splitter	Agilent	11636B	GTS237	Mar. 27 2016	Mar. 26 2017	
22	Power Meter	Anritsu	ML2495A	GTS540	June 29 2016	June 28 2017	
23	Power Sensor	Anritsu	MA2411B	GTS541	June 29 2016	June 28 2017	



Con	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	7.0(L)x3.0(W)x3.0(H)	GTS264	June 29 2016	June 28 2017	
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	June 29 2016	June 28 2017	
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	June 29 2016	June 28 2017	
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June 29 2016	June 28 2017	
5	LISN	SCHWARZBECK MESS- ELEKTRONIK	NSLK 8127	GTS226	June 29 2016	June 28 2017	
6	Coaxial Cable	GTS	N/A	GTS227	June 29 2016	June 28 2017	
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	

Gen	General used equipment:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	Barometer	ChangChun	DYM3	GTS257	July 06 2016	July 05 2017		



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.

E.U.T Antenna:

The antenna is Integral antenna, the best case gain of the antenna is 2dBi





7.2 Conducted Emissions

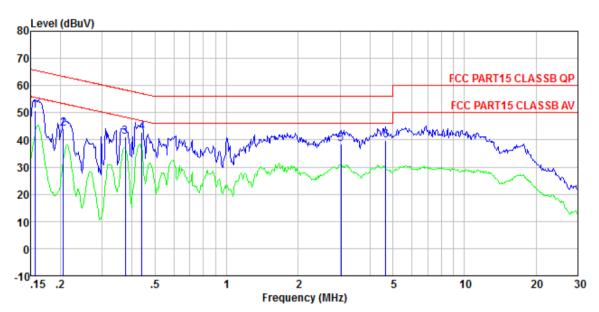
Test Requirement:	FCC Part15 C Section 15.207		
Test Method:	ANSI C63.10:2013		
Test Frequency Range:	150KHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9KHz, VBW=30KHz, Sv	weep time=auto	
Limit:		Limit (d	lBuV)
	Frequency range (MHz)	Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	* Decreases with the logarithm	n of the frequency.	
Test setup:	Reference Plane		
	AUX Equipment Test table/Insulation plane Remark E U T Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	Filter — AC pow	
Test procedure:	 The E.U.T and simulators a line impedance stabilization 50ohm/50uH coupling impedance. The peripheral devices are LISN that provides a 50ohn termination. (Please refer to photographs). Both sides of A.C. line are dinterference. In order to find positions of equipment and according to ANSI C63.10:2 	n network (L.I.S.N.). The dance for the measuri also connected to the n/50uH coupling impec to the block diagram of checked for maximum the maximum emissic all of the interface cab	nis provides a ng equipment. main power through a dance with 500hm the test setup and conducted on, the relative bles must be changed
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		

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Measurement data

Line:



Site : Shielded room

: FCC PART15 CLASSB QP LISN-2013 LINE : 0010 Condition

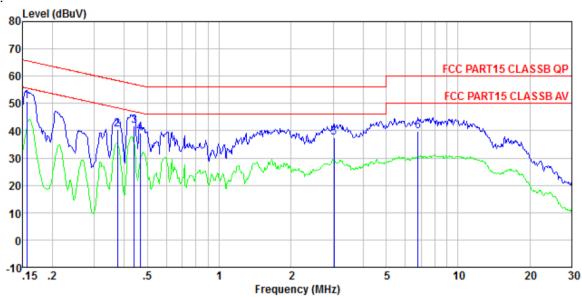
Job No. Test Mode : WiFi mode Test Engineer: Boy

	Freq		LISN Factor					Remark
-	MHz	dBuV	dB	d₿	dBuV	dBuV	₫B	
1 2 3 4 5	0. 206 0. 375 0. 440 3. 025	43. 99 41. 06 42. 67 38. 24	0. 15 0. 13 0. 11 0. 12 0. 16 0. 21	0. 13 0. 10 0. 11 0. 15	44. 25 41. 27 42. 90 38. 55	63.36 58.39 57.07 56.00	-19. 11 -17. 12 -14. 17 -17. 45	QP QP QP QP

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Neutral:



Site : Shielded room

Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

0.11

0.18

Job No. : 0010
Test Mode : WiFi mode
Test Engineer: Boy

3.025

6.805

37.20

39.39

LISN Cable Limit Over Read Freq Level Factor Loss Leve1 Line Limit Remark MHz dBuV dBuV dBuV ₫B ₫B d₿ 0.156 50.42 0.07 0.12 50.61 65.65 -15.04 QP 2 0.375 40.45 0.06 58.39 -17.78 QP 0.10 40.61 0.440 41.77 0.06 0.11 41.94 57.07 -15.13 QP 0.466 38.89 0.06 0.11 39.06 56.58 -17.52 QP

0.15

0.17

Notes:

5

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.

37.46

56.00 -18.54 QP

39.74 60.00 -20.26 QP

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



7.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03
Limit:	30dBm
Test setup:	Power Meter E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data

Test CH		Peak Outp	Limit(dBm)	Result		
Test Off	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(abin)	Nesuit
Lowest	14.21	11.59	9.68	10.38		
Middle	15.05	12.54	11.33	10.32	30.00	Pass
Highest	16.36	13.47	12.00	10.60		



7.4 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03
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 5.3 for details
Test results:	Pass

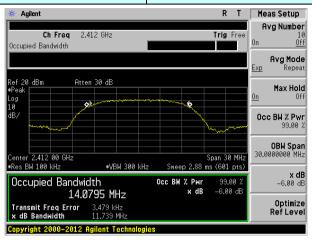
Measurement Data

Test		Limit	Result			
СН	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	(KHz)	Result
Lowest	11.739	16.499	17.741	35.779		
Middle	11.092	16.524	17.772	35.212	>500	Pass
Highest	11.253	16.531	17.717	35.204		

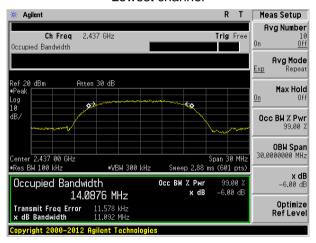
Test plot as follows:



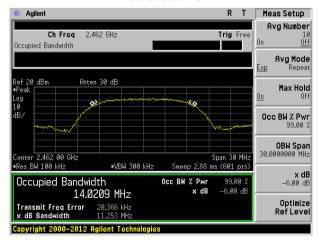
Test mode: 802.11b



Lowest channel



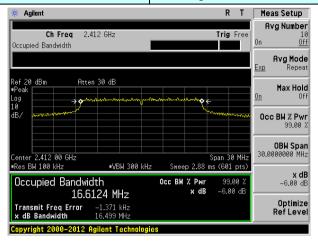
Middle channel



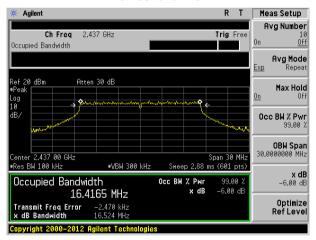
Highest channel



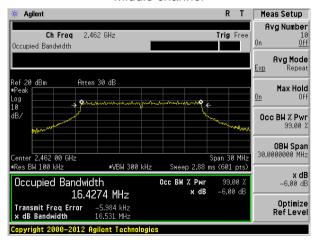
Test mode: 802.11g



Lowest channel



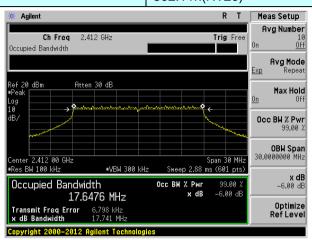
Middle channel



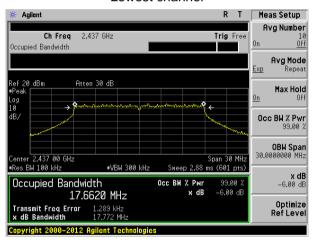
Highest channel



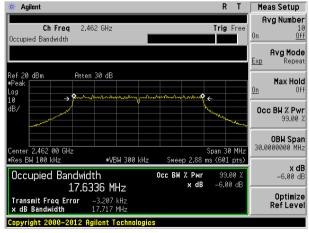
Test mode: 802.11n(HT20)



Lowest channel



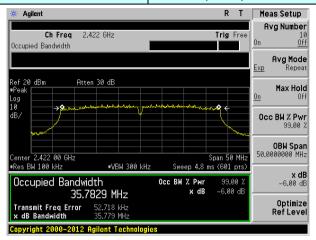
Middle channel



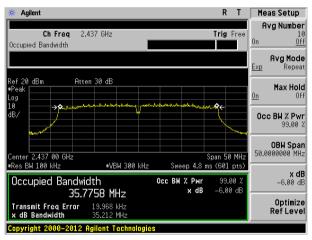
Highest channel



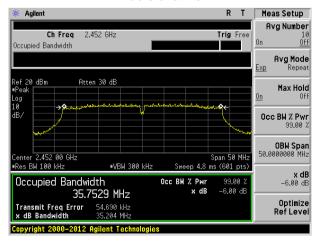
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03
Limit:	8dBm
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 5.3 for details
Test results:	Pass

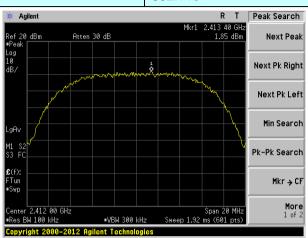
Measurement Data

Test CH		Power Spectra	Limit(dBm/3kHz)	Result			
Test Off	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(dbm/3km2)	Result	
Lowest	1.85	-2.67	-4.06	-6.16			
Middle	2.23	-1.88	-3.46	-5.82	8.00	Pass	
Highest	3.36	-0.78	-2.37	-5.07			

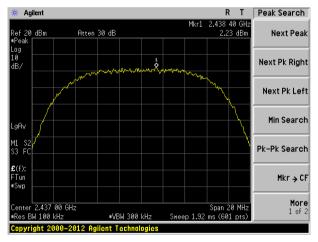


Test plot as follows:

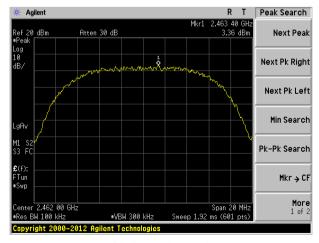
Test mode: 802.11b



Lowest channel



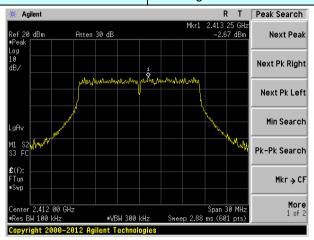
Middle channel



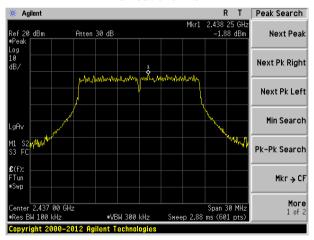
Highest channel



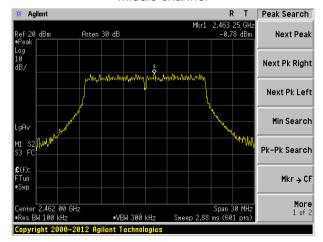
Test mode: 802.11g



Lowest channel



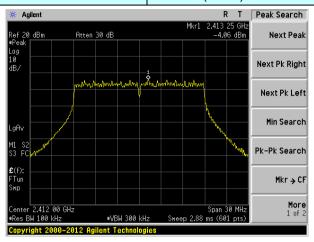
Middle channel



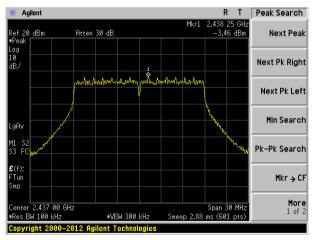
Highest channel



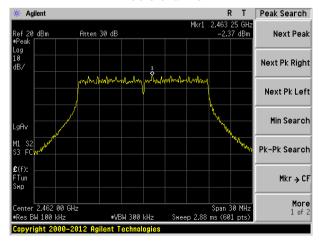
Test mode: 802.11n(HT20)



Lowest channel



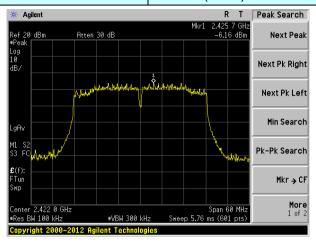
Middle channel



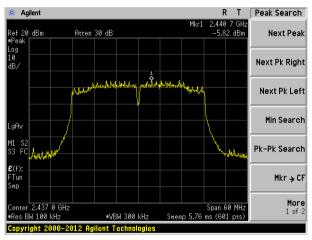
Highest channel



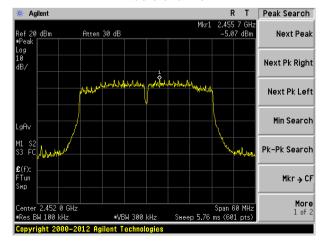
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



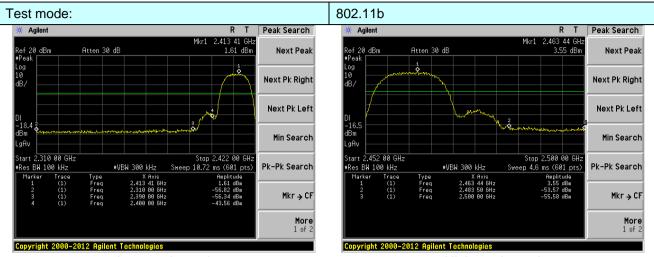
7.6 Band edges

7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meads Guidance V03				
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 5.3 for details				
Test results:	Pass				



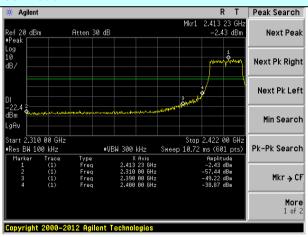
Test plot as follows:



Lowest channel

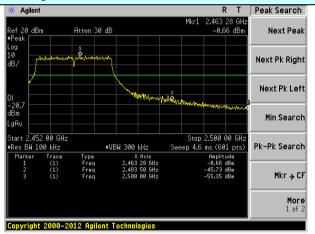
Highest channel

Test mode:



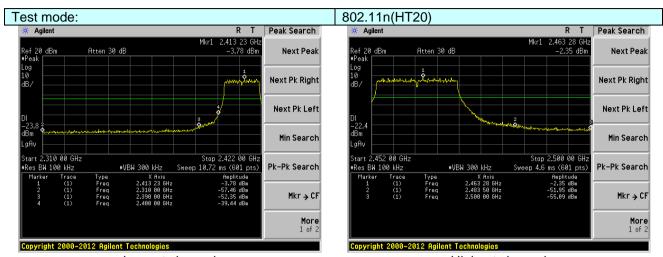
Lowest channel

802.11g



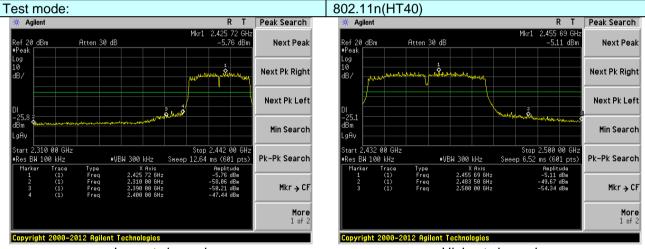
Highest channel





Lowest channel

Highest 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: 2	013				
Test Frequency Range:	30MHz to 40GH	lz, only worse	case is repo	rted		
Test site:	Measurement Distance: 3m					
Receiver setup:	Frequency	Detector	RBW	VBW	Value	
·	1011	Peak	1MHz	3MHz	Peak	
	Above 1GHz	RMS	1MHz	3MHz	Average	
Limit:	Freque	ncv	Limit (dBuV/	m @3m)	Value	
			54.0		Average	
	Above 1	GHZ	74.0	0	Peak	
Test setup:	EUT Turn Table	3m		Antenna Tower Horn Antenna Spectrum Analyzer Amplifier		
Test Procedure:	the ground at determine the 2. The EUT was antenna, white tower. 3. The antenna ground to det horizontal an measurement 4. For each sus and then the and the rotal the maximum 5. The test-recesspecified Bar 6. If the emission the limit specified the EUT where 10dB meak or average sheet. 7. The radiation And found the service of the EUT where the test-recession of the EUT where the service of the EUT where the test-recession of the EUT where the test-recessi	t a 3 meter can be position of the set 3 meters che was mount the man and the	mber. The talk the highest racks away from the ted on the top ted from one neaximum value arizations of the tion, the EUT tuned to heigh the ted from 0 declar and the ted. Otherwise re-tested on a specified are tested on the ted on the tested on the test	ole was rotadiation. The interference of a variable of the field one antennatives arrange of the field of the	r meters above the d strength. Both are set to make the ed to its worst case meter to 4 meters 0 degrees to find	
Test Instruments:	worst case m			л		
Test mode:	Refer to section					
Test mode:	Pass	J.O IOI GOLAII	-			



Measurement data:

Remark: The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.

Test mode:		802.1	802.11b		Test channel:		Lowest	
Peak value:	1							
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
2390.00	51.42	27.59	5.38	34.01	50.38	74.00	-23.62	Horizontal
2400.00	60.35	27.58	5.39	34.01	59.31	74.00	-14.69	Horizontal
2390.00	53.08	27.59	5.38	34.01	52.04	74.00	-21.96	Vertical
2400.00	62.09	27.58	5.39	34.01	61.05	74.00	-12.95	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)	Limit	Polarization
2390.00	38.24	27.59	5.38	34.01	37.20	54.00	-16.80	Horizontal
2400.00	46.51	27.58	5.39	34.01	45.47	54.00	-8.53	Horizontal
2390.00	40.05	27.59	5.38	34.01	39.01	54.00	-14.99	Vertical
2400.00	47.62	27.58	5.39	34.01	46.58	54.00	-7.42	Vertical
Test mode:		802.1	1b	Tes	st channel:		Highest	
Test mode: Peak value:		802.1	1b	Te	st channel:		Highest	
	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
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)	
Frequency (MHz) 2483.50	Read Level (dBuV) 51.97	Antenna Factor (dB/m) 27.53	Cable Loss (dB) 5.47	Preamp Factor (dB) 33.92	Level (dBuV/m) 51.05	Limit Line (dBuV/m) 74.00	Over Limit (dB) -22.95	Horizontal
Frequency (MHz) 2483.50 2500.00	Read Level (dBuV) 51.97 47.87	Antenna Factor (dB/m) 27.53	Cable Loss (dB) 5.47 5.49	Preamp Factor (dB) 33.92 29.93	Level (dBuV/m) 51.05 50.98	Limit Line (dBuV/m) 74.00 74.00	Over Limit (dB) -22.95 -23.02	Horizontal Horizontal
Frequency (MHz) 2483.50 2500.00 2483.50	Read Level (dBuV) 51.97 47.87 54.18 50.34	Antenna Factor (dB/m) 27.53 27.55 27.53	Cable Loss (dB) 5.47 5.49 5.47	Preamp Factor (dB) 33.92 29.93 33.92	Level (dBuV/m) 51.05 50.98 53.26	Limit Line (dBuV/m) 74.00 74.00 74.00	Over Limit (dB) -22.95 -23.02 -20.74	Horizontal Horizontal Vertical
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00	Read Level (dBuV) 51.97 47.87 54.18 50.34	Antenna Factor (dB/m) 27.53 27.55 27.53	Cable Loss (dB) 5.47 5.49 5.47	Preamp Factor (dB) 33.92 29.93 33.92	Level (dBuV/m) 51.05 50.98 53.26	Limit Line (dBuV/m) 74.00 74.00 74.00	Over Limit (dB) -22.95 -23.02 -20.74 -20.55	Horizontal Horizontal Vertical
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 Average va Frequency	Read Level (dBuV) 51.97 47.87 54.18 50.34 Iue: Read Level	Antenna Factor (dB/m) 27.53 27.55 27.53 27.55 Antenna Factor	Cable Loss (dB) 5.47 5.49 5.49 Cable Loss	Preamp Factor (dB) 33.92 29.93 33.92 29.93 Preamp Factor	Level (dBuV/m) 51.05 50.98 53.26 53.45	Limit Line (dBuV/m) 74.00 74.00 74.00 74.00 Limit Line	Over Limit (dB) -22.95 -23.02 -20.74 -20.55 Over Limit	Horizontal Horizontal Vertical Vertical
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 Average va Frequency (MHz)	Read Level (dBuV) 51.97 47.87 54.18 50.34 Iue: Read Level (dBuV)	Antenna Factor (dB/m) 27.53 27.55 27.55 Antenna Factor (dB/m)	Cable Loss (dB) 5.47 5.49 5.47 5.49 Cable Loss (dB)	Preamp Factor (dB) 33.92 29.93 33.92 29.93 Preamp Factor (dB)	Level (dBuV/m) 51.05 50.98 53.26 53.45 Level (dBuV/m)	Limit Line (dBuV/m) 74.00 74.00 74.00 74.00 Limit Line (dBuV/m)	Over Limit (dB) -22.95 -23.02 -20.74 -20.55 Over Limit (dB)	Horizontal Horizontal Vertical Vertical Polarization
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 Average va Frequency (MHz) 2483.50	Read Level (dBuV) 51.97 47.87 54.18 50.34 Iue: Read Level (dBuV) 38.57	Antenna Factor (dB/m) 27.53 27.55 27.53 27.55 Antenna Factor (dB/m) 27.53	Cable Loss (dB) 5.47 5.49 5.49 Cable Loss (dB) 5.47	Preamp Factor (dB) 33.92 29.93 33.92 29.93 Preamp Factor (dB) 33.92	Level (dBuV/m) 51.05 50.98 53.26 53.45 Level (dBuV/m)	Limit Line (dBuV/m) 74.00 74.00 74.00 74.00 Limit Line (dBuV/m) 54.00	Over Limit (dB) -22.95 -23.02 -20.74 -20.55 Over Limit (dB) -16.35	Horizontal Horizontal Vertical Vertical Polarization Horizontal

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



Test mode:		802.1	302.11g T		Test 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	
2390.00	50.20	27.59	5.38	34.01	49.16	74.00	-24.84	Horizontal	
2400.00	58.72	27.58	5.39	34.01	57.68	74.00	-16.32	Horizontal	
2390.00	51.78	27.59	5.38	34.01	50.74	74.00	-23.26	Vertical	
2400.00	60.13	27.58	5.39	34.01	59.09	74.00	-14.91	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	
2390.00	37.38	27.59	5.38	34.01	36.34	54.00	-17.66	Horizontal	
2400.00	45.51	27.58	5.39	34.01	44.47	54.00	-9.53	Horizontal	
2390.00	39.08	27.59	5.38	34.01	38.04	54.00	-15.96	Vertical	
2400.00	46.53	27.58	5.39	34.01	45.49	54.00	-8.51	Vertical	
Test mode:		802.11g		Test channel:			Highest		
Peak value:				T			•		
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	
2483.50	50.23	27.53	5.47	33.92	49.31	74.00	-24.69	Horizontal	
2500.00	46.52	27.55	5.49	29.93	49.63	74.00	-24.37	Horizontal	
2483.50	52.19	27.53	5.47	33.92	51.27	74.00	-22.73	Vertical	
2500.00	48.76	27.55	5.49	29.93	51.87	74.00	-22.13	Vertical	
Average va	Average 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	
2483.50	37.52	27.53	5.47	33.92	36.60	54.00	-17.40	Horizontal	
2500.00	33.90	27.55	5.49	29.93	37.01	54.00	-16.99	Horizontal	
2483.50	39.34	27.53	5.47	33.92	38.42	54.00	-15.58	Vertical	
2500.00	35.72	27.55	5.49	29.93	38.83	54.00	-15.17	Vertical	

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.

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Test mode:	802.1	1n(HT20)		Tes	t channel:	L	owest	
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
2390.00	50.52	27.59	5.38	34.01	49.48	74.00	-24.52	Horizontal
2400.00	59.16	27.58	5.39	34.01	58.12	74.00	-15.88	Horizontal
2390.00	52.13	27.59	5.38	34.01	51.09	74.00	-22.91	Vertical
2400.00	60.65	27.58	5.39	34.01	59.61	74.00	-14.39	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
2390.00	37.61	27.59	5.38	34.01	36.57	54.00	-17.43	Horizontal
2400.00	45.78	27.58	5.39	34.01	44.74	54.00	-9.26	Horizontal
2390.00	39.34	27.59	5.38	34.01	38.30	54.00	-15.70	Vertical
2400.00	46.82	27.58	5.39	34.01	45.78	54.00	-8.22	Vertical
Test mode:		1n(HT20)		Tes	t channel:	ŀ	Highest	
Peak value:					<u> </u>			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
2483.50	50.70	27.53	5.47	33.92	49.78	74.00	-24.22	Horizontal
2500.00	46.88	27.55	5.49	29.93	49.99	74.00	-24.01	Horizontal
2483.50	52.72	27.53	5.47	33.92	51.80	74.00	-22.20	Vertical
2500.00	49.18	27.55	5.49	29.93	52.29	74.00	-21.71	Vertical
Average va				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
2483.50	37.80	27.53	5.47	33.92	36.88	54.00	-17.12	Horizontal
2500.00	34.12	27.55	5.49	29.93	37.23	54.00	-16.77	Horizontal
2483.50	39.65	27.53	5.47	33.92	38.73	54.00	-15.27	Vertical
2500.00	35.96	27.55	5.49	29.93	39.07	54.00	-14.93	Vertical

Remark

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.

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Test mode:	802.1	1n(HT40)		Tes	t channel:	I	_owest	
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
2390.00	49.57	27.59	5.38	34.01	48.53	74.00	-25.47	Horizontal
2400.00	57.89	27.58	5.39	34.01	56.85	74.00	-17.15	Horizontal
2390.00	51.11	27.59	5.38	34.01	50.07	74.00	-23.93	Vertical
2400.00	59.12	27.58	5.39	34.01	58.08	74.00	-15.92	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
2390.00	36.93	27.59	5.38	34.01	35.89	54.00	-18.11	Horizontal
2400.00	45.00	27.58	5.39	34.01	43.96	54.00	-10.04	Horizontal
2390.00	38.58	27.59	5.38	34.01	37.54	54.00	-16.46	Vertical
2400.00	45.97	27.58	5.39	34.01	44.93	54.00	-9.07	Vertical
Test mode:	802.1	1n(HT40)		Tes	t channel:	ŀ	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	49.33	27.53	5.47	33.92	48.41	74.00	-25.59	Horizontal
2500.00	45.83	27.55	5.49	29.93	48.94	74.00	-25.06	Horizontal
2483.50	51.17	27.53	5.47	33.92	50.25	74.00	-23.75	Vertical
2500.00	47.95	27.55	5.49	29.93	51.06	74.00	-22.94	Vertical
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
2483.50	36.98	27.53	5.47	33.92	36.06	54.00	-17.94	Horizontal
2500.00	33.48	27.55	5.49	29.93	36.59	54.00	-17.41	Horizontal
2483.50	38.74	27.53	5.47	33.92	37.82	54.00	-16.18	Vertical
2500.00	35.28	27.55	5.49	29.93	38.39	54.00	-15.61	Vertical

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.

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7.7 Spurious Emission

7.7.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03				
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 5.3 for details				
Test results:	Pass				

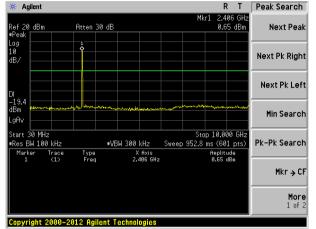
Test plot as follows:



Test mode:

802.11b

Lowest channel

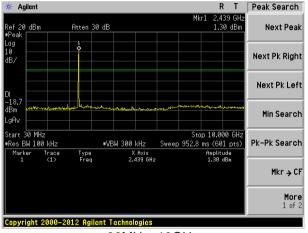


30MHz~10GHz

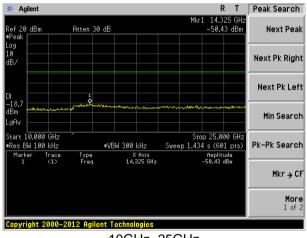
Agilent R T Peak Search Ref 20 dBm Next Peak Atten 30 dB Next Pk Right Next Pk Left Min Search Stop 25.000 GHz Sweep 1.434 s (601 pts) Start 10.000 GHz Res BN 100 kHz #VBW 300 kHz Pk-Pk Search Type Freq Trace (1) X Axis 13.975 GHz Amplitude -50.74 dBm Mkr → CF More 1 of 2 Copyright 2000-2012 Agilent Technologies

10GHz~25GHz

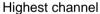
Middle channel

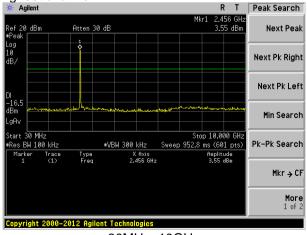


30MHz~10GHz

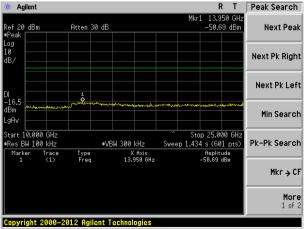


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz

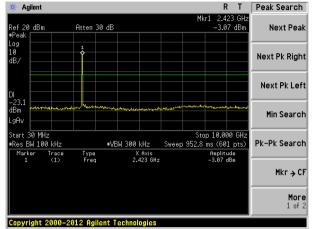
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Test mode:

802.11g

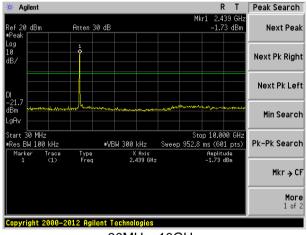
Lowest channel



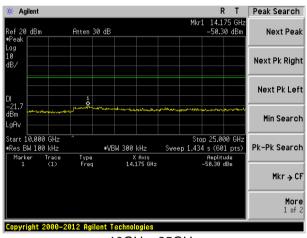
30MHz~10GHz

10GHz~25GHz

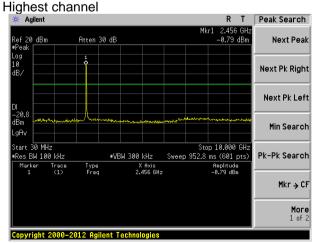
Middle channel



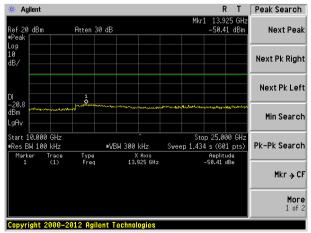
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



10GHz~25GHz

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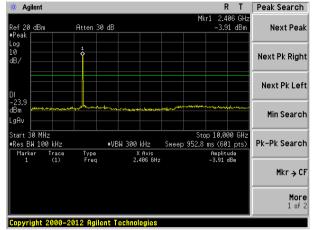


More 1 of 2

Test mode:

802.11n(HT20)

Lowest channel

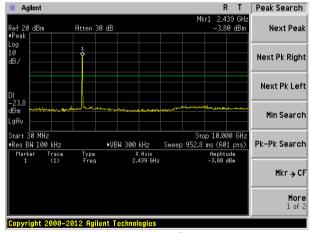


30MHz~10GHz

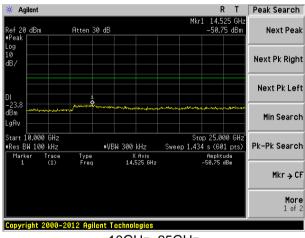
10GHz~25GHz

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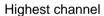
Middle channel

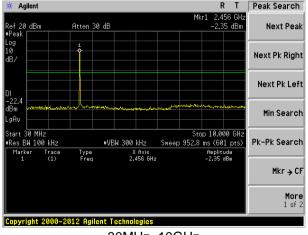


30MHz~10GHz

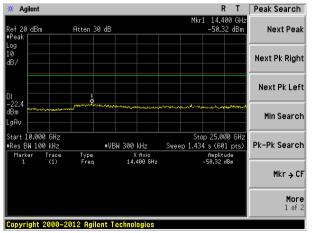


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz

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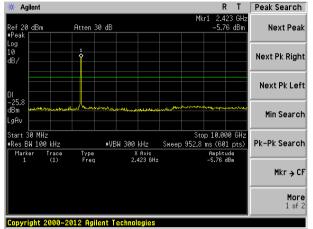
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Test mode:

802.11n(HT40)

Lowest channel

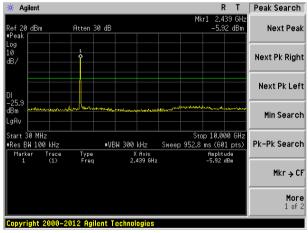


30MHz~10GHz

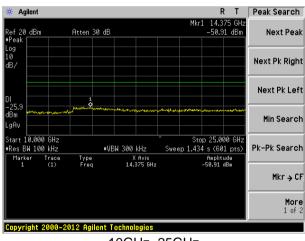
* Agilent R T Peak Search 14.475 GHz -51.63 dBm Atten 30 dB Next Peak ef 20 dBm Next Pk Right Next Pk Left Min Search Start 10.000 GHz •Res BW 100 kHz Stop 25.000 GH: Sweep 1.434 s (601 pts) Pk-Pk Search #VBW 300 kHz X Axis 14.475 GHz Amplitude -51.63 dBm Mkr → CF Copyright 2000-2012 Agilent Technologies

10GHz~25GHz

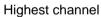
Middle channel

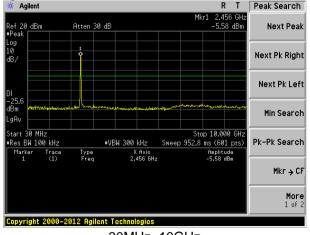


30MHz~10GHz

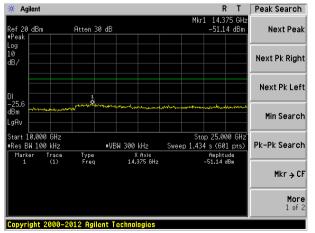


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz



7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Se	ection 15.209									
Test Method:	ANSI C63.10:201	13									
Test Frequency Range:	30MHz to 40GHz	30MHz to 40GHz									
Test site:	Measurement Dis	stance: 3m									
Receiver setup:	Frequency	Detector	RBW	VBW	Value						
	30MHz-1GHz	<u> </u>									
	Al- 2012 4 CH	Above 1GHz Peak 1MHz 3MHz									
	Above 1GHz	Above 1GHz RMS 1MHz 3MHz									
Limit:	Frequen	су	Limit (dBuV	/m @3m)	Value						
	30MHz-88	MHz	40.0	0	Quasi-peak						
	88MHz-216	6MHz	43.5	0	Quasi-peak						
	216MHz-96	216MHz-960MHz 46.00 Q									
	960MHz-1	960MHz-1GHz 54.00 Quasi-peal									
		Above 1GHz 54.00 Average									
	Above 10	Above 1GHz 74.00 Peak									
	Search Antenna Turn Table 0.8m Im										
	Ground Plane	nijum a									

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Test Procedure:	1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	3. 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 EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet.
	7. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Remark:

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

■ Below 1GHz

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
35.50	39.80	14.44	0.61	30.07	24.78	40.00	-15.22	Vertical
78.14	38.27	10.31	1.01	29.81	19.78	40.00	-20.22	Vertical
130.84	54.98	10.88	1.44	29.51	37.79	43.50	-5.71	Vertical
177.51	45.84	11.49	1.73	29.29	29.77	43.50	-13.73	Vertical
316.59	51.68	15.28	2.45	29.90	39.51	46.00	-6.49	Vertical
801.79	35.86	22.06	4.46	29.20	33.18	46.00	-12.82	Vertical
34.76	26.65	14.30	0.61	30.07	11.49	40.00	-28.51	Horizontal
41.71	27.21	15.57	0.68	30.04	13.42	40.00	-26.58	Horizontal
134.09	55.95	10.61	1.47	29.49	38.54	43.50	-4.96	Horizontal
210.79	45.24	12.90	1.90	29.30	30.74	43.50	-12.76	Horizontal
316.59	45.92	15.28	2.45	29.90	33.75	46.00	-12.25	Horizontal
845.09	27.97	22.55	4.63	29.15	26.00	46.00	-20.00	Horizontal



■ Above 1GHz

Test mode:		802.11b		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	40.99	31.79	8.62	32.10	49.30	74.00	-24.70	Vertical
7236.00	34.66	36.19	11.68	31.97	50.56	74.00	-23.44	Vertical
9648.00	33.03	38.07	14.16	31.56	53.70	74.00	-20.30	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	39.55	31.79	8.62	32.10	47.86	74.00	-26.14	Horizontal
7236.00	34.35	36.19	11.68	31.97	50.25	74.00	-23.75	Horizontal
9648.00	32.58	38.07	14.16	31.56	53.25	74.00	-20.75	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val								
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	30.02	31.79	8.62	32.10	38.33	54.00	-15.67	Vertical
7236.00	23.51	36.19	11.68	31.97	39.41	54.00	-14.59	Vertical
9648.00	23.36	38.07	14.16	31.56	44.03	54.00	-9.97	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	29.06	31.79	8.62	32.10	37.37	54.00	-16.63	Horizontal
7236.00	22.93	36.19	11.68	31.97	38.83	54.00	-15.17	Horizontal
9648.00	22.32	38.07	14.16	31.56	42.99	54.00	-11.01	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)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	39.93	31.85	8.66	32.12	48.32	74.00	-25.68	Vertical
7311.00	34.66	36.37	11.71	31.91	50.83	74.00	-23.17	Vertical
9748.00	33.99	38.27	14.25	31.56	54.95	74.00	-19.05	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	40.32	31.85	8.66	32.12	48.71	74.00	-25.29	Horizontal
7311.00	33.25	36.37	11.71	31.91	49.42	74.00	-24.58	Horizontal
9748.00	33.86	38.27	14.25	31.56	54.82	74.00	-19.18	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	30.74	31.85	8.66	32.12	39.13	54.00	-14.87	Vertical
7311.00	22.96	36.37	11.71	31.91	39.13	54.00	-14.87	Vertical
9748.00	23.24	38.27	14.25	31.56	44.20	54.00	-9.80	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	30.40	31.85	8.66	32.12	38.79	54.00	-15.21	Horizontal
7311.00	22.33	36.37	11.71	31.91	38.50	54.00	-15.50	Horizontal
9748.00	23.57	38.27	14.25	31.56	44.53	54.00	-9.47	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		Tes	t channel:	Highe	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	45.88	31.90	8.70	32.15	54.33	74.00	-19.67	Vertical
7386.00	35.60	36.49	11.76	31.83	52.02	74.00	-21.98	Vertical
9848.00	37.48	38.62	14.31	31.77	58.64	74.00	-15.36	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	45.03	31.90	8.70	32.15	53.48	74.00	-20.52	Horizontal
7386.00	34.42	36.49	11.76	31.83	50.84	74.00	-23.16	Horizontal
9848.00	33.62	38.62	14.31	31.77	54.78	74.00	-19.22	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val								
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	36.71	31.90	8.70	32.15	45.16	54.00	-8.84	Vertical
7386.00	25.49	36.49	11.76	31.83	41.91	54.00	-12.09	Vertical
9848.00	25.96	38.62	14.31	31.77	47.12	54.00	-6.88	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	35.34	31.90	8.70	32.15	43.79	54.00	-10.21	Horizontal
7386.00	23.79	36.49	11.76	31.83	40.21	54.00	-13.79	Horizontal
9848.00	22.86	38.62	14.31	31.77	44.02	54.00	-9.98	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	channel:	lowes	st	
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	39.37	31.79	8.62	32.10	47.68	74.00	-26.32	Vertical
7236.00	33.63	36.19	11.68	31.97	49.53	74.00	-24.47	Vertical
9648.00	32.30	38.07	14.16	31.56	52.97	74.00	-21.03	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.18	31.79	8.62	32.10	46.49	74.00	-27.51	Horizontal
7236.00	33.46	36.19	11.68	31.97	49.36	74.00	-24.64	Horizontal
9648.00	31.91	38.07	14.16	31.56	52.58	74.00	-21.42	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	28.53	31.79	8.62	32.10	36.84	54.00	-17.16	Vertical
7236.00	22.52	36.19	11.68	31.97	38.42	54.00	-15.58	Vertical
9648.00	22.66	38.07	14.16	31.56	43.33	54.00	-10.67	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	27.77	31.79	8.62	32.10	36.08	54.00	-17.92	Horizontal
7236.00	22.05	36.19	11.68	31.97	37.95	54.00	-16.05	Horizontal
9648.00	21.67	38.07	14.16	31.56	42.34	54.00	-11.66	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:	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	38.59	31.85	8.66	32.12	46.98	74.00	-27.02	Vertical
7311.00	33.81	36.37	11.71	31.91	49.98	74.00	-24.02	Vertical
9748.00	33.39	38.27	14.25	31.56	54.35	74.00	-19.65	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.18	31.85	8.66	32.12	47.57	74.00	-26.43	Horizontal
7311.00	32.51	36.37	11.71	31.91	48.68	74.00	-25.32	Horizontal
9748.00	33.30	38.27	14.25	31.56	54.26	74.00	-19.74	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	29.50	31.85	8.66	32.12	37.89	54.00	-16.11	Vertical
7311.00	22.14	36.37	11.71	31.91	38.31	54.00	-15.69	Vertical
9748.00	22.65	38.27	14.25	31.56	43.61	54.00	-10.39	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.34	31.85	8.66	32.12	37.73	54.00	-16.27	Horizontal
7311.00	21.61	36.37	11.71	31.91	37.78	54.00	-16.22	Horizontal
9748.00	23.03	38.27	14.25	31.56	43.99	54.00	-10.01	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		•	Test	channel:		Highest		
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fact (dE	tor	Level (dBuV/m)	Limit (dBu		Over Limit (dB)	polarization
4924.00	43.56	31.90	8.70	32.1	15	52.01	74.	00	-21.99	Vertical
7386.00	34.13	36.49	11.76	31.8	33	50.55	74.	00	-23.45	Vertical
9848.00	36.43	38.62	14.31	31.7	77	57.59	74.	00	-16.41	Vertical
12310.00	*						74.	00		Vertical
14772.00	*						74.	00		Vertical
17234.00	*						74.	00		Vertical
4924.00	43.07	31.90	8.70	32.1	15	51.52	74.	00	-22.48	Horizontal
7386.00	33.14	36.49	11.76	31.8	33	49.56	74.	00	-24.44	Horizontal
9848.00	32.65	38.62	14.31	31.7	77	53.81	74.	00	-20.19	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 Fact (dE	tor	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4924.00	34.58	31.90	8.70	32.1	15	43.03	54.	00	-10.97	Vertical
7386.00	24.08	36.49	11.76	31.8	33	40.50	54.	00	-13.50	Vertical
9848.00	24.96	38.62	14.31	31.7	77	46.12	54.	00	-7.88	Vertical
12310.00	*						54.	00		Vertical
14772.00	*						54.	00		Vertical
17234.00	*						54.	00		Vertical
4924.00	33.51	31.90	8.70	32.1	15	41.96	54.	00	-12.04	Horizontal
7386.00	22.55	36.49	11.76	31.8	33	38.97	54.	00	-15.03	Horizontal
9848.00	21.93	38.62	14.31	31.7	77	43.09	54.	00	-10.91	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:	802.11	n(HT20)		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	40.12	31.79	8.62	32.10	48.43	74.00	-25.57	Vertical
7236.00	34.11	36.19	11.68	31.97	50.01	74.00	-23.99	Vertical
9648.00	32.63	38.07	14.16	31.56	53.30	74.00	-20.70	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.81	31.79	8.62	32.10	47.12	74.00	-26.88	Horizontal
7236.00	33.87	36.19	11.68	31.97	49.77	74.00	-24.23	Horizontal
9648.00	32.22	38.07	14.16	31.56	52.89	74.00	-21.11	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	29.22	31.79	8.62	32.10	37.53	54.00	-16.47	Vertical
7236.00	22.98	36.19	11.68	31.97	38.88	54.00	-15.12	Vertical
9648.00	22.98	38.07	14.16	31.56	43.65	54.00	-10.35	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.36	31.79	8.62	32.10	36.67	54.00	-17.33	Horizontal
7236.00	22.46	36.19	11.68	31.97	38.36	54.00	-15.64	Horizontal
9648.00	21.97	38.07	14.16	31.56	42.64	54.00	-11.36	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:	802.11	n(HT20)		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	39.20	31.85	8.66	32.12	47.59	74.00	-26.41	Vertical
7311.00	34.20	36.37	11.71	31.91	50.37	74.00	-23.63	Vertical
9748.00	33.67	38.27	14.25	31.56	54.63	74.00	-19.37	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.71	31.85	8.66	32.12	48.10	74.00	-25.90	Horizontal
7311.00	32.85	36.37	11.71	31.91	49.02	74.00	-24.98	Horizontal
9748.00	33.56	38.27	14.25	31.56	54.52	74.00	-19.48	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	30.07	31.85	8.66	32.12	38.46	54.00	-15.54	Vertical
7311.00	22.52	36.37	11.71	31.91	38.69	54.00	-15.31	Vertical
9748.00	22.92	38.27	14.25	31.56	43.88	54.00	-10.12	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.83	31.85	8.66	32.12	38.22	54.00	-15.78	Horizontal
7311.00	21.94	36.37	11.71	31.91	38.11	54.00	-15.89	Horizontal
9748.00	23.28	38.27	14.25	31.56	44.24	54.00	-9.76	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:	802.11	n(HT20)		Test	channel:	Highe	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	44.63	31.90	8.70	32.15	53.08	74.00	-20.92	4924.00
7386.00	34.81	36.49	11.76	31.83	51.23	74.00	-22.77	7386.00
9848.00	36.92	38.62	14.31	31.77	58.08	74.00	-15.92	9848.00
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	43.97	31.90	8.70	32.15	52.42	74.00	-21.58	Horizontal
7386.00	33.73	36.49	11.76	31.83	50.15	74.00	-23.85	Horizontal
9848.00	33.09	38.62	14.31	31.77	54.25	74.00	-19.75	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val								
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	35.56	31.90	8.70	32.15	44.01	54.00	-9.99	Vertical
7386.00	24.73	36.49	11.76	31.83	41.15	54.00	-12.85	Vertical
9848.00	25.42	38.62	14.31	31.77	46.58	54.00	-7.42	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.35	31.90	8.70	32.15	42.80	54.00	-11.20	Horizontal
7386.00	23.12	36.49	11.76	31.83	39.54	54.00	-14.46	Horizontal
9848.00	22.36	38.62	14.31	31.77	43.52	54.00	-10.48	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:	802.11	802.11n(HT40)				Test channel:			st	
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
4844.00	38.75	31.81	8.63	32.11		47.08	74.00		-26.92	Vertical
7266.00	33.25	36.28	11.69	31.94		49.28	74.00		-24.72	Vertical
9688.00	32.02	38.13	14.21	31.52		52.84	74.00		-21.16	Vertical
12060.00	*						74.00			Vertical
14472.00	*						74.	00		Vertical
16884.00	*						74.	00		Vertical
4844.00	37.66	31.81	8.63	32.11		45.99	74.	00	-28.01	Horizontal
7266.00	33.12	36.28	11.69	31.94		49.15	74.	00	-24.85	Horizontal
9688.00	31.65	38.13	14.21	31.52		52.47	74.	00	-21.53	Horizontal
12060.00	*						74.	00		Horizontal
14472.00	*						74.	00		Horizontal
16884.00	*						74.	00		Horizontal

Average value:

Avelage val								
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	27.96	31.81	8.63	32.11	36.29	54.00	-17.71	Vertical
7266.00	22.15	36.28	11.69	31.94	38.18	54.00	-15.82	Vertical
9688.00	22.39	38.13	14.21	31.52	43.21	54.00	-10.79	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	27.28	31.81	8.63	32.11	35.61	54.00	-18.39	Horizontal
7266.00	21.72	36.28	11.69	31.94	37.75	54.00	-16.25	Horizontal
9688.00	21.42	38.13	14.21	31.52	42.24	54.00	-11.76	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:	802.11	1n(HT40)			Test channel:			Middle		
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	38.08	31.85	8.66	32.12		46.47	74.	00	-27.53	Vertical
7311.00	33.49	36.37	11.71	31.91		49.66	74.	00	-24.34	Vertical
9748.00	33.16	38.27	14.25	31.56		54.12	74.00		-19.88	Vertical
12185.00	*						74.	00		Vertical
14622.00	*						74.00			Vertical
17059.00	*						74.	00		Vertical
4874.00	38.75	31.85	8.66	32	.12	47.14	74.	00	-26.86	Horizontal
7311.00	32.23	36.37	11.71	31	.91	48.40	74.	00	-25.60	Horizontal
9748.00	33.09	38.27	14.25	31	.56	54.05	74.	00	-19.95	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)	Fa	amp ctor IB)	Level (dBuV/m)	Limit (dBu		Over Limit (dB)	polarization
4874.00	29.03	31.85	8.66	32	.12	37.42	54.	00	-16.58	Vertical
7311.00	21.83	36.37	11.71	31	.91	38.00	54.	00	-16.00	Vertical
9748.00	22.43	38.27	14.25	31	.56	43.39	54.	00	-10.61	Vertical
12185.00	*						54.	00		Vertical
14622.00	*						54.	00		Vertical
17059.00	*						54.	00		Vertical
4874.00	28.93	31.85	8.66	32	.12	37.32	54.	00	-16.68	Horizontal
7311.00	21.34	36.37	11.71	31	.91	37.51	54.	00	-16.49	Horizontal
9748.00	22.83	38.27	14.25	31	.56	43.79	54.	00	-10.21	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. "*", means this data is the too weak instrument of signal is unable to test.



Test mode:	802.11	n(HT40)			channel:	Highe	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
4904.00	42.69	31.88	8.68	32.13	51.12	74.00	-22.88	Vertical
7356.00	33.58	36.45	11.75	31.86	49.92	74.00	-24.08	Vertical
9808.00	36.04	38.43	14.29	31.68	57.08	74.00	-16.92	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	42.33	31.88	8.68	32.13	50.76	74.00	-23.24	Horizontal
7356.00	32.65	36.45	11.75	31.86	48.99	74.00	-25.01	Horizontal
9808.00	32.28	38.43	14.29	31.68	53.32	74.00	-20.68	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)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	33.77	31.88	8.68	32.13	42.20	54.00	-11.80	Vertical
7356.00	23.54	36.45	11.75	31.86	39.88	54.00	-14.12	Vertical
9808.00	24.58	38.43	14.29	31.68	45.62	54.00	-8.38	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	32.81	31.88	8.68	32.13	41.24	54.00	-12.76	Horizontal
7356.00	22.08	36.45	11.75	31.86	38.42	54.00	-15.58	Horizontal
9808.00	21.58	38.43	14.29	31.68	42.62	54.00	-11.38	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

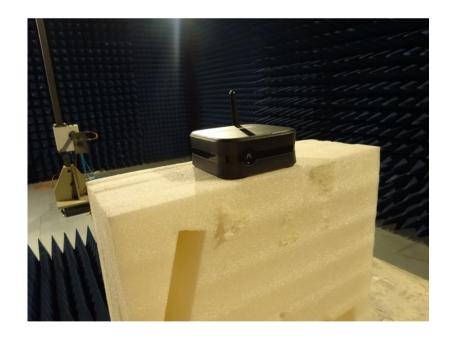
^{2 &}quot;*", means this data is the too weak instrument of signal is unable to test.



8 Test Setup Photo

Radiated Emission







Conducted Emission



9 EUT Constructional Details

Reference to the test report No. GTS201607000010E01

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