

TEST REPORT

Applicant: CanDo International, Inc.

Address of Applicant: 138 E Lemon Ave, Monrovia, California 91016, United States

Manufacturer: SHENZHEN FCAR TECHNOLOGY CO.,LTD

Address of Manufacturer: 8F, Chuangyi Bldg., No. 3025, Nanhai Ave., Nanshan, Shenzhen, China

Factory: SHENZHEN FCAR TECHNOLOGY CO.,LTD

Address of Factory: 4th Floor, Building A, Jianggu Industrial Park, No. 1 Zhenye Road, Tangxiayong Community, Yanluo Street, Songgang, Shenzhen, China

Equipment Under Test (EUT)

Product Name: AUTO DIAGNOSTIC SYSTEM

Model No.: HD PRO III

FCC ID: 2AKNY-IDSAPRO

Applicable standards: FCC CFR Title 47 Part 15 Subpart E Section 15.407

Date of sample receipt: May 29, 2020

Date of Test: May 29, 2020-June 02, 2020

Date of report issued: June 02, 2020

Test Result : PASS *

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

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.

2 Version

Version No.	Date	Description
00	June 02, 2020	Original

Prepared By:



Date:

June 02, 2020

Project Engineer

Check By:



Reviewer

Date:

June 02, 2020

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.407(a)(3)	Pass
Channel Bandwidth	15.407(e)	Pass
Power Spectral Density	15.407(a)(3)	Pass
Band Edge	15.407(b)(4)	Pass
Spurious Emission	15.205/15.209/15.407(b)(4)	Pass
Frequency Stability	15.407(g)	Pass

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

Remark: Test according to ANSI C63.10:2013

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	30MHz-200MHz	3.8039dB	(1)
Radiated Emission	200MHz-1GHz	3.9679dB	(1)
Radiated Emission	1GHz-18GHz	4.29dB	(1)
Radiated Emission	18GHz-40GHz	3.30dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	3.44dB	(1)

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:	AUTO DIAGNOSTIC SYSTEM
Model No.:	HD PRO III
Serial No.:	CD01-2005-2180-0006
Hardware version:	2.00_20200429
Software version:	5.1.1, APK/V30042817
Test sample(s) ID:	GTS202005000226-1
Sample(s) Status:	Engineer sample
Operation Frequency:	802.11a/802.11n(HT20)/802.11ac(HT20) @5.8G Band: 5745MHz ~ 5825MHz 802.11n(HT40)/ 802.11ac(HT40) @ 5.8G Band: 5755MHz ~ 5795MHz 802.11ac(HT80): 5775MHz
Channel numbers:	802.11a/802.11n(HT20)/802.11ac(HT20) @5.8G Band: 5 802.11n(HT40)/ 802.11ac(HT40) @ 5.8G Band: 2 802.11ac(HT80): 1
Channel bandwidth:	802.11a/802.11n(HT20)/802.11ac(HT20) : 20MHz 802.11n(HT40)/802.11ac(HT40) : 40MHz 802.11ac(HT80): 80MHz
Modulation technology:	802.11a/802.11n(H20)/802.11n(H40)/802.11ac(HT20)/802.11ac(HT40) /802.11ac(HT80): Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	Integral antenna
Antenna gain:	2.0 dBi(Declared by Applicant)
Power supply:	SWITCHING POWER ADAPTER Model: GME24A-120200FXR Input: AC 100-240V, 50-60Hz, 0.8A Output: DC 12V, 2A Battery: DC 3.7V, 5000mAh, 18.5Wh

Operation Frequency each of channel @ 5.8G Band							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
149	5745MHz	153	5765MHz	155	5775MHz	157	5785MHz
161	5805MHz	165	5825MHz				

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)		
	5.8G Band		
	802.11a/ac/n (HT20)	802.11n/ac(HT40)	802.11ac(HT80)
Lowest channel	5745	5755	
Middle channel	5785		5775
Highest channel	5825	5795	

5.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
<i>Remark: During the test, the test voltage was tuned from AC100V to AC240V, and found that the worst case was the AC120V. So the report just shows that condition's data.</i>	

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
802.11a	6Mbps
802.11n(HT20)	6.5Mbps
802.11n(HT40)	13Mbps
802.11ac(HT20)	6.5Mbps
802.11ac(HT40)	13.5Mbps
802.11ac(HT80)	29.3Mbps

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.

- **IC —Registration No.: 9079A**

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

- **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.

No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone,
Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480

Fax: 0755-27798960

5.6 Deviation from Standards

None.

5.7 Abnormalities from Standard Conditions

None.

5.8 Additional Instructions

EUT Software Settings:

Mode	Special software is used. The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.		
Test Software Name	Ampak RFTestTool,VER:5.5		
Mode	Channel	Frequency (MHz)	Soft Set
OFDM	CH149	5745	TX level : default
	CH151	5755	
	CH155	5775	
	CH157	5785	
	CH159	5795	
	CH165	5825	

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. 26 2019	June. 25 2020
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 26 2019	June. 25 2020
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 26 2019	June. 25 2020
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 26 2019	June. 25 2020
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June. 26 2019	June. 25 2020
9	Coaxial Cable	GTS	N/A	GTS211	June. 26 2019	June. 25 2020
10	Coaxial cable	GTS	N/A	GTS210	June. 26 2019	June. 25 2020
11	Coaxial Cable	GTS	N/A	GTS212	June. 26 2019	June. 25 2020
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 26 2019	June. 25 2020
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 26 2019	June. 25 2020
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 26 2019	June. 25 2020
15	Band filter	Amindeon	82346	GTS219	June. 26 2019	June. 25 2020
16	Power Meter	Anritsu	ML2495A	GTS540	June. 26 2019	June. 25 2020
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 26 2019	June. 25 2020
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 26 2019	June. 25 2020
19	Splitter	Agilent	11636B	GTS237	June. 26 2019	June. 25 2020
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 26 2019	June. 25 2020
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 19 2019	Oct. 18 2020
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 19 2019	Oct. 18 2020
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 19 2019	Oct. 18 2020
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 26 2019	June. 25 2020

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.15 2019	May.14 2022
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 26 2019	June. 25 2020
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 26 2019	June. 25 2020
4	ENV216 2-L-V-NETZNACHB.DE	ROHDE&SCHWARZ	ENV216	GTS226	June. 26 2019	June. 25 2020
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. 26 2019	June. 25 2020
8	Absorbing clamp	Elektronik-Feinmechanik	MDS21	GTS229	June. 26 2019	June. 25 2020
9	ISN	SCHWARZBECK	NTFM 8158	GTD565	June. 26 2019	June. 25 2020

RF Conducted Test:						
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. 26 2019	June. 25 2020
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 26 2019	June. 25 2020
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 26 2019	June. 25 2020
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 26 2019	June. 25 2020
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 26 2019	June. 25 2020
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 26 2019	June. 25 2020
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 26 2019	June. 25 2020
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 26 2019	June. 25 2020

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. 26 2019	June. 25 2020
2	Barometer	ChangChun	DYM3	GTS255	June. 26 2019	June. 25 2020

7 Test results and Measurement Data

7.1 Antenna requirement

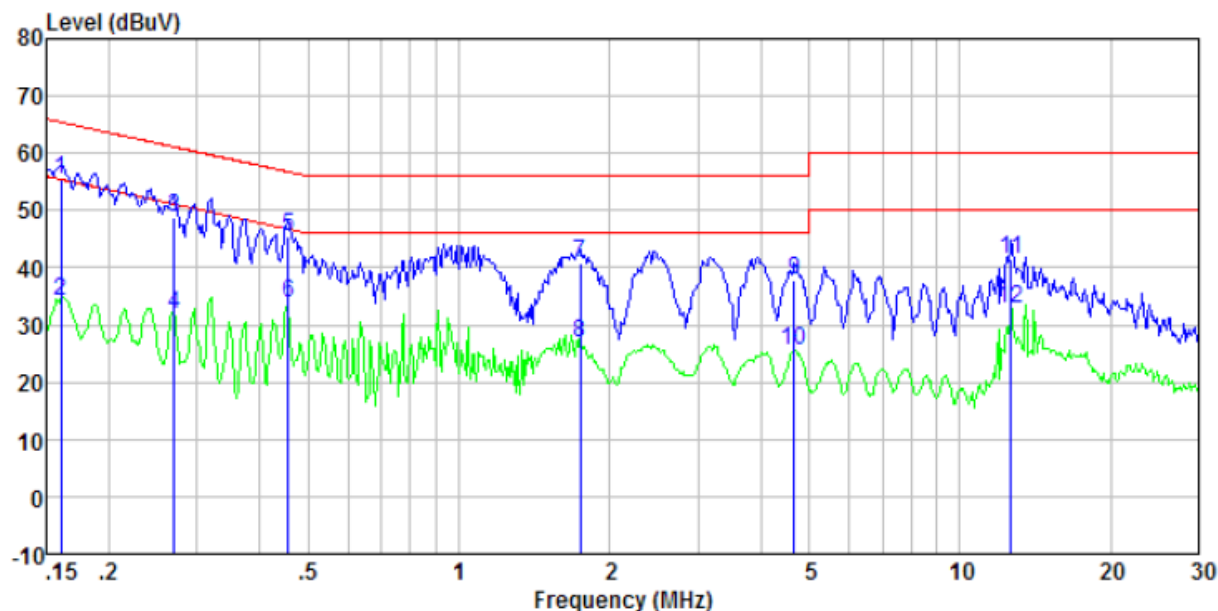
Standard requirement:	FCC Part15 C Section 15.203
<i>15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique 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.</i>	
E.U.T Antenna:	
<i>The antenna is integral antenna. The best case gain of the antenna is 2.0dBi, reference to the appendix II for details.</i>	

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, Sweep time=auto					
Limit:	Frequency range (MHz)		Limit (dBuV)			
			Quasi-peak		Average	
	0.15-0.5		66 to 56*		56 to 46*	
	0.5-5		56		46	
	5-30		60		50	
* Decreases with the logarithm of the frequency.						
Test setup:	Reference Plane <i>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</i>					
Test procedure:	1. 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. 2. 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). 3. 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					
Test results:	Pass					

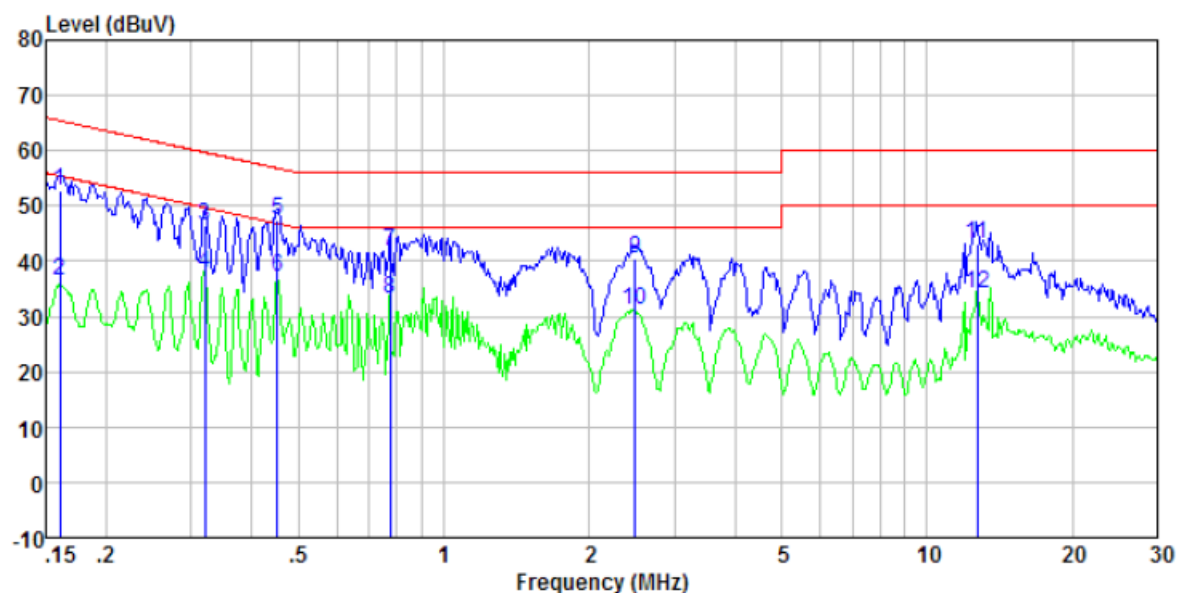
Measurement data

Line:



Freq MHz	Reading level dBuV	LISN/ISN factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0.16	55.06	0.40	0.08	55.54	65.43	-9.89	QP
0.16	33.62	0.40	0.08	34.10	55.43	-21.33	Average
0.27	48.41	0.40	0.10	48.91	61.12	-12.21	QP
0.27	31.44	0.40	0.10	31.94	51.12	-19.18	Average
0.46	45.01	0.33	0.11	45.45	56.76	-11.31	QP
0.46	33.24	0.33	0.11	33.68	46.76	-13.08	Average
1.74	40.45	0.20	0.17	40.82	56.00	-15.18	QP
1.74	26.36	0.20	0.17	26.73	46.00	-19.27	Average
4.67	37.47	0.20	0.17	37.84	56.00	-18.16	QP
4.67	25.16	0.20	0.17	25.53	46.00	-20.47	Average
12.65	41.02	0.20	0.21	41.43	60.00	-18.57	QP
12.65	32.27	0.20	0.21	32.68	50.00	-17.32	Average

Neutral:

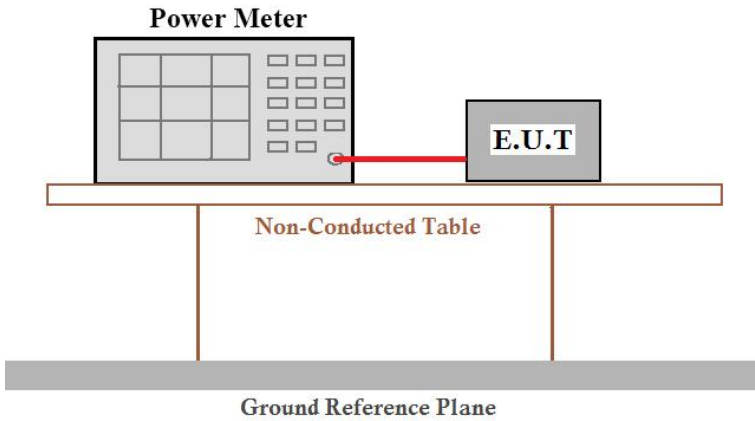


Freq MHz	Reading level dBuV	LISN/ISN factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0.16	52.44	0.40	0.08	52.92	65.43	-12.51	QP
0.16	35.99	0.40	0.08	36.47	55.43	-18.96	Average
0.32	46.13	0.39	0.10	46.62	59.71	-13.09	QP
0.32	37.45	0.39	0.10	37.94	49.71	-11.77	Average
0.45	47.02	0.33	0.11	47.46	56.85	-9.39	QP
0.45	36.63	0.33	0.11	37.07	46.85	-9.78	Average
0.78	41.50	0.24	0.14	41.88	56.00	-14.12	QP
0.78	32.84	0.24	0.14	33.22	46.00	-12.78	Average
2.49	40.13	0.20	0.18	40.51	56.00	-15.49	QP
2.49	30.88	0.20	0.18	31.26	46.00	-14.74	Average
12.72	42.64	0.20	0.21	43.05	60.00	-16.95	QP
12.72	33.72	0.20	0.21	34.13	50.00	-15.87	Average

Notes:

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.
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

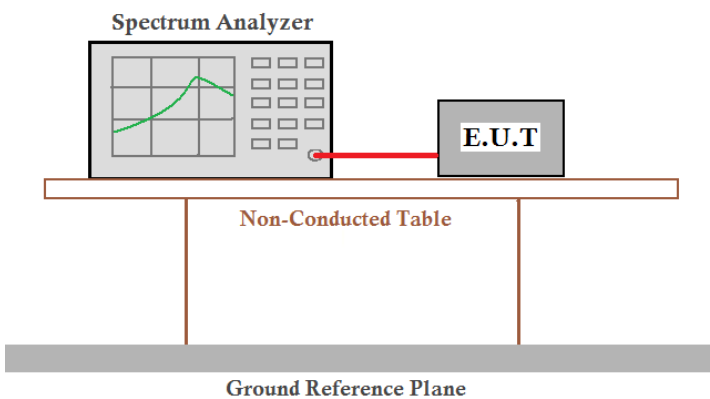
Test Requirement:	FCC Part15 E Section 15.407(a)(3)
Test Method:	ANSI C63.10:2013 and KDB 789033 D02 General U-NII Test Procedures New Rules v02r01
Limit:	30dBm
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data

Test CH	Peak Output Power (dBm)						Limit(dBm)	Result
	802.11a	802.11n (HT20)	802.11ac (HT20)	802.11n (HT40)	802.11ac (HT40)	802.11ac (HT80)		
Lowest	10.33	10.16	10.11	10.36	10.23	---	30.00	Pass
Middle	10.40	10.32	10.23	---	---	10.29		
Highest	10.22	10.30	10.16	10.50	10.35	---		

Remark: “---” is not applicable

7.4 Channel Bandwidth

Test Requirement:	FCC Part15 E Section 15.407(e)
Test Method:	ANSI C63.10:2013 and KDB 789033 D02 General U-NII Test Procedures New Rules v02r01
Limit:	>500KHz
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

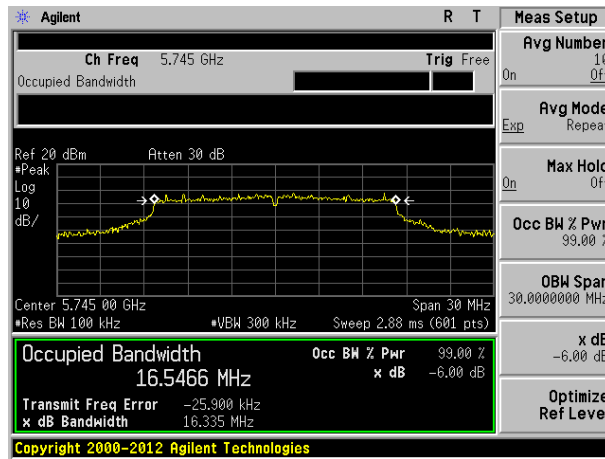
Measurement Data

5.8G Band								
Test CH	Channel Bandwidth (MHz)						Limit (KHz)	Result
	802.11a	802.11n(H T20)	802.11ac(HT20)	802.11n(H T40)	802.11ac(HT40)	802.11ac(HT80)		
Lowest	16.335	17.126	17.071	35.421	35.794	---	>500	Pass
Middle	16.112	17.310	17.538	---	---	75.526		
Highest	16.309	16.563	17.309	35.352	36.001	---		

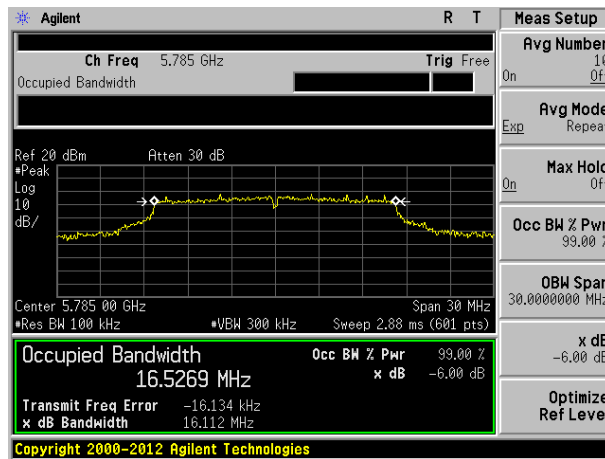
Remark: “---” is not applicable

Test plot as follows:

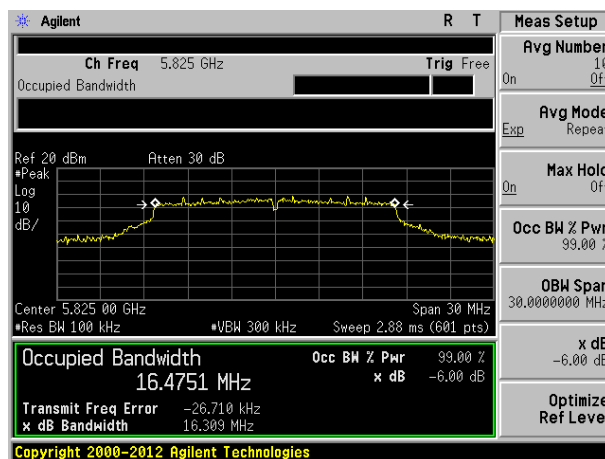
Test mode: 802.11a



Lowest channel

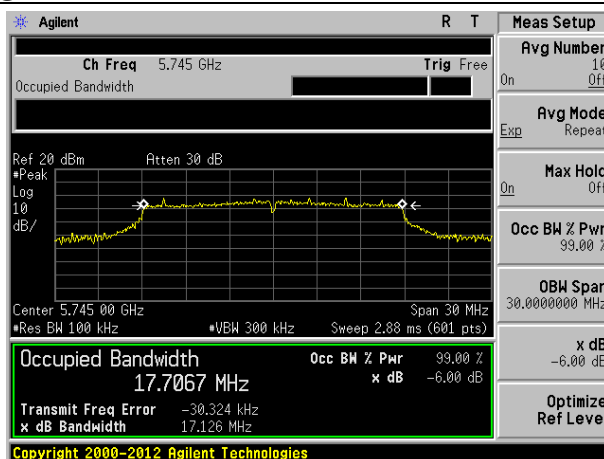


Middle channel

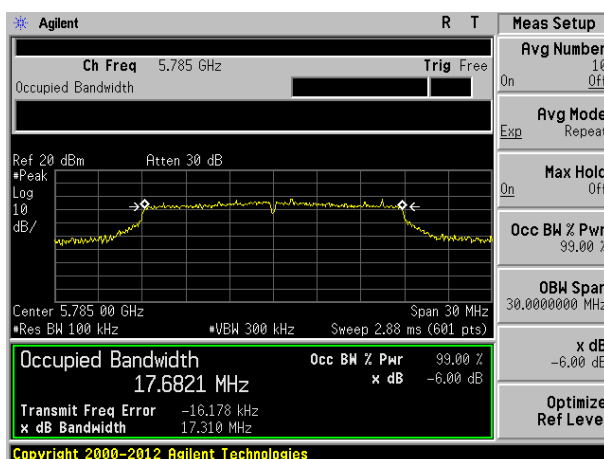


Highest channel

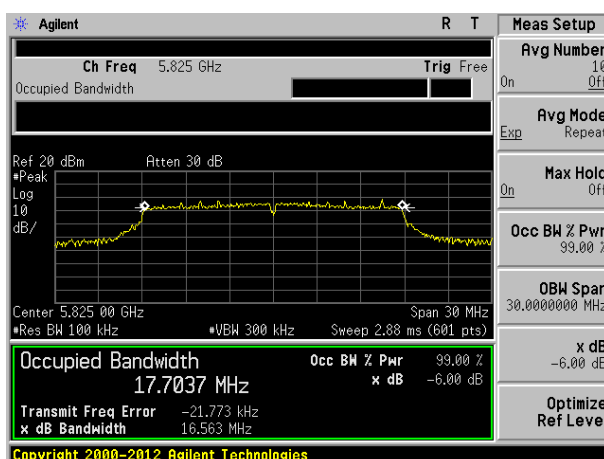
Test mode: 802.11n(HT20) @ 5.8G Band



Lowest channel

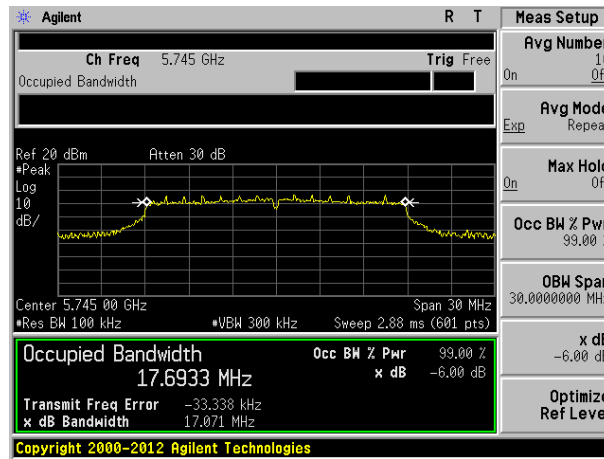


Middle channel

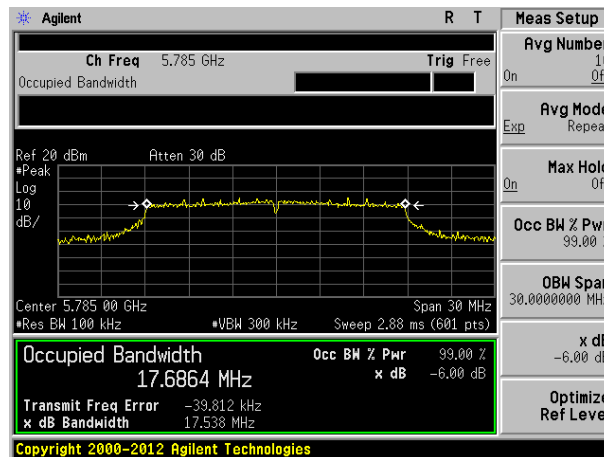


Highest channel

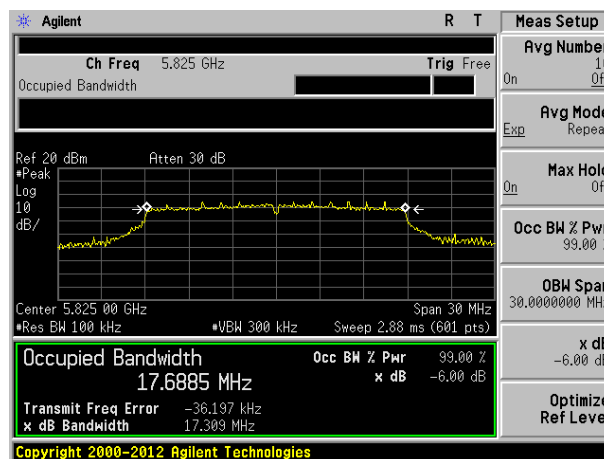
Test mode: 802.11ac(HT20) @ 5.8G Band



Lowest channel

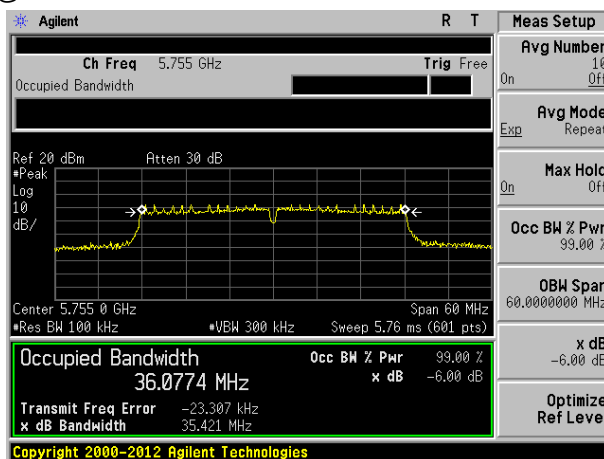


Middle channel

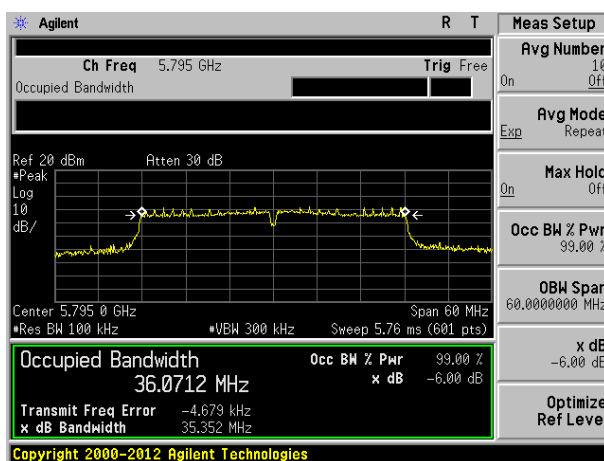


Highest channel

Test mode: 802.11n(HT40) @ 5.8G Band

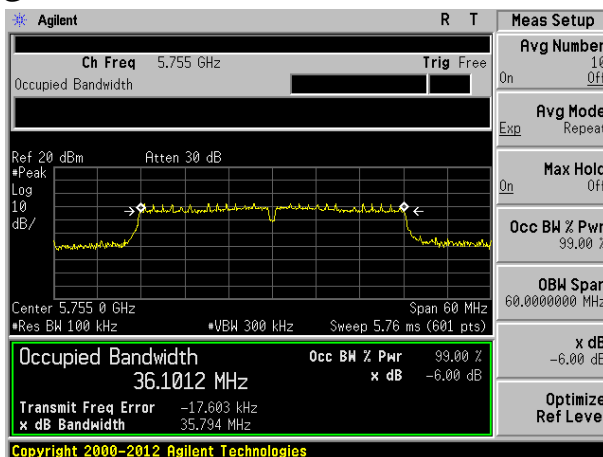


Lowest channel

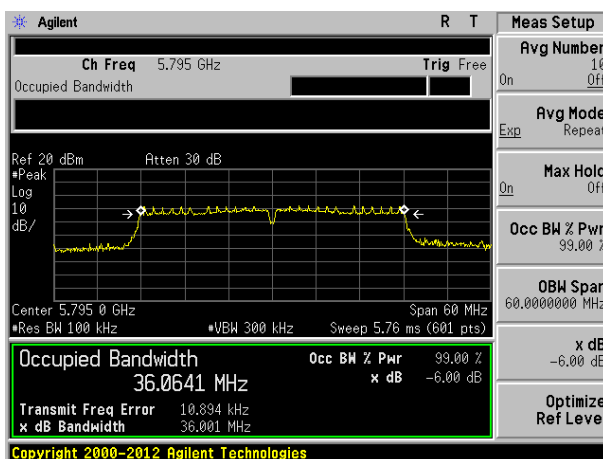


Highest channel

Test mode: 802.11ac(HT40) @ 5.8G Band

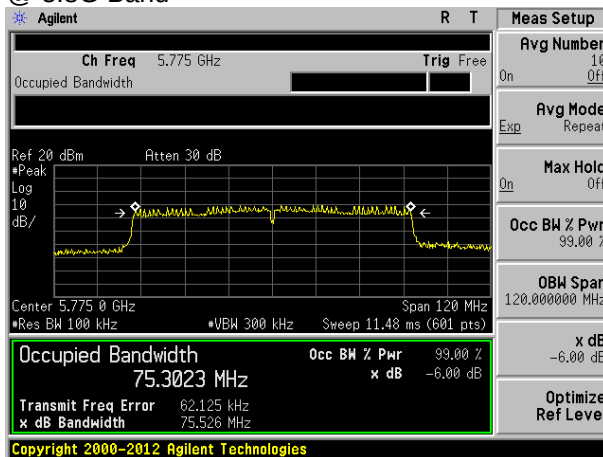


Lowest channel

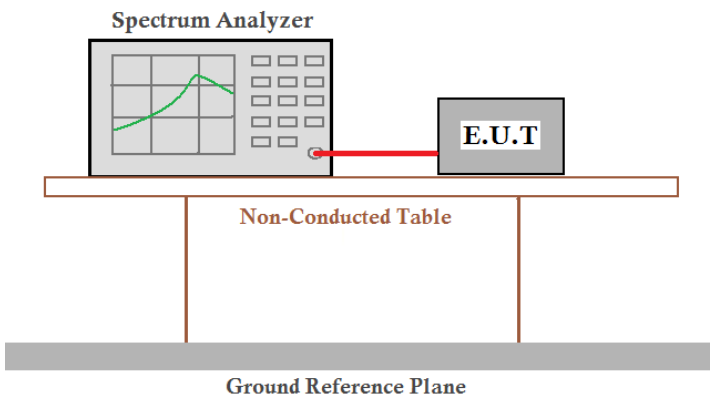


Highest channel

Test mode: 802.11ac(HT80) @ 5.8G Band



7.5 Power Spectral Density

Test Requirement:	FCC Part15 E Section 15.407(a)(3)
Test Method:	ANSI C63.10:2013 and KDB 789033 D02 General U-NII Test Procedures New Rules v02r01
Limit:	30dBm
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

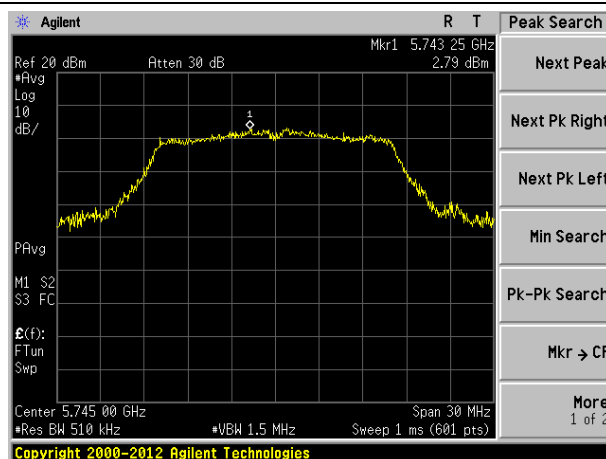
Measurement Data

5.8G Band								
Test CH	Power Spectral Density (dBm)						Limit (dBm/500kHz)	Result
	802.11a	802.11n(HT 20)	802.11ac(H T20)	802.11n(HT 40)	802.11ac(H T40)	802.11ac(H T80)		
Lowest	2.79	2.89	0.12	-3.06	-4.05	---	30.00	Pass
Middle	2.72	3.25	-0.29	---	---	-8.63		
Highest	3.08	3.56	-0.41	-3.98	-3.77	---		

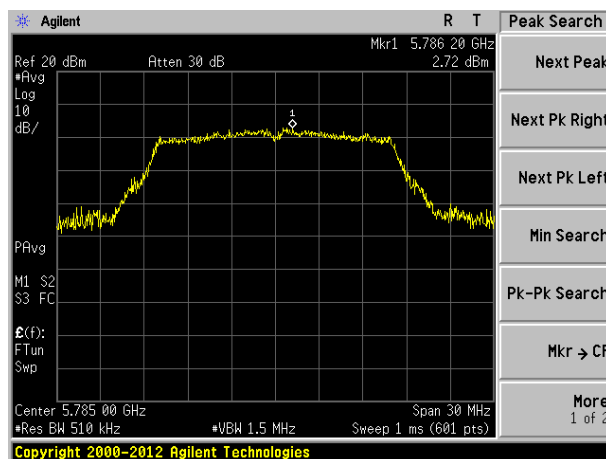
Remark: “---” is not applicable

Test plot as follows:

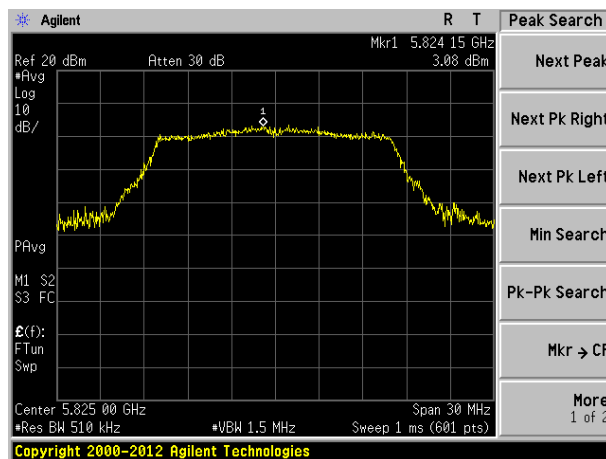
Test mode: 802.11a



Lowest channel

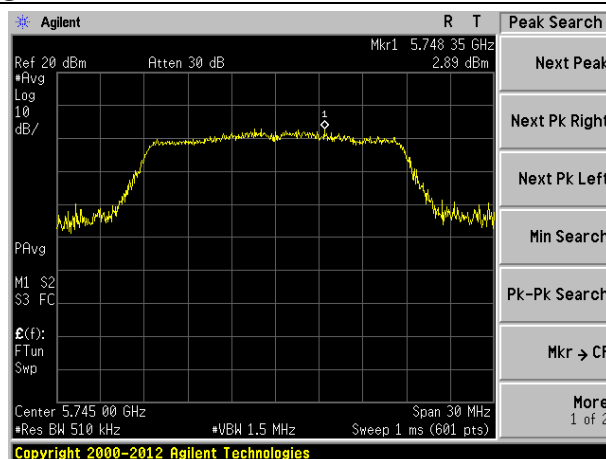


Middle channel

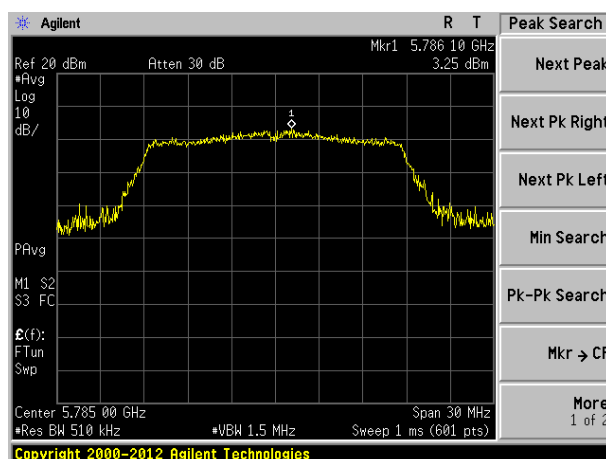


Highest channel

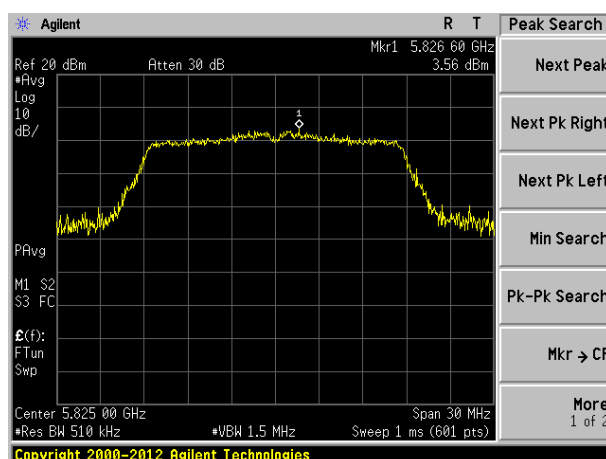
Test mode: 802.11n(HT20) @ 5.8G Band



Lowest channel

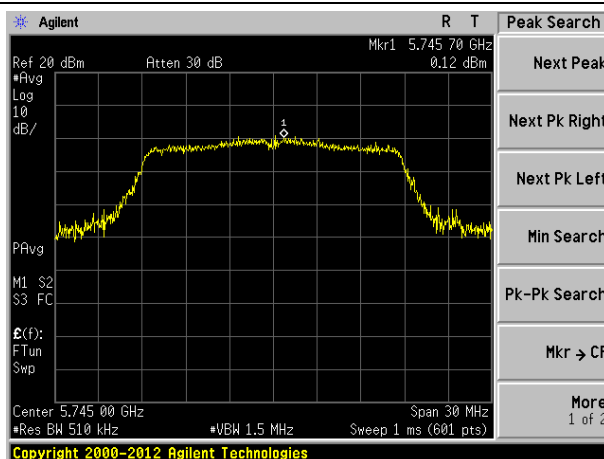


Middle channel

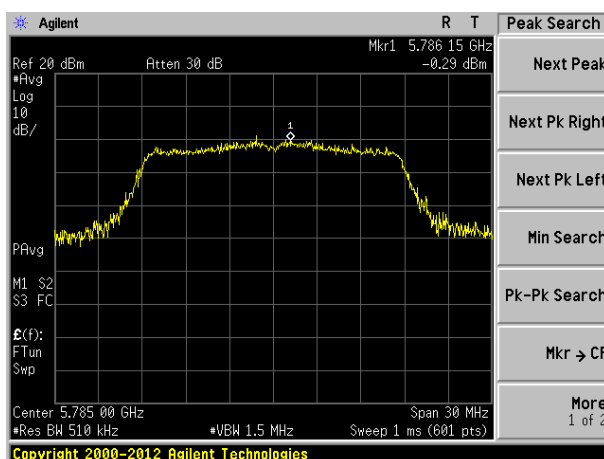


Highest channel

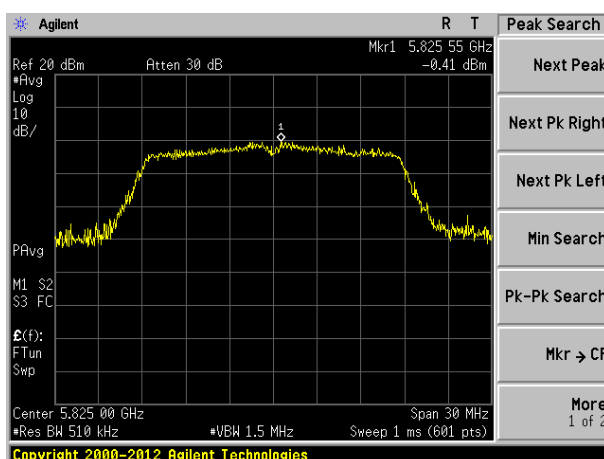
Test mode: 802.11ac(HT20)



Lowest channel

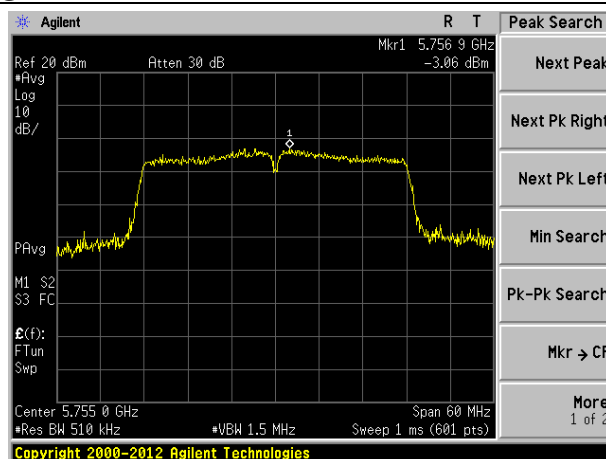


Middle channel

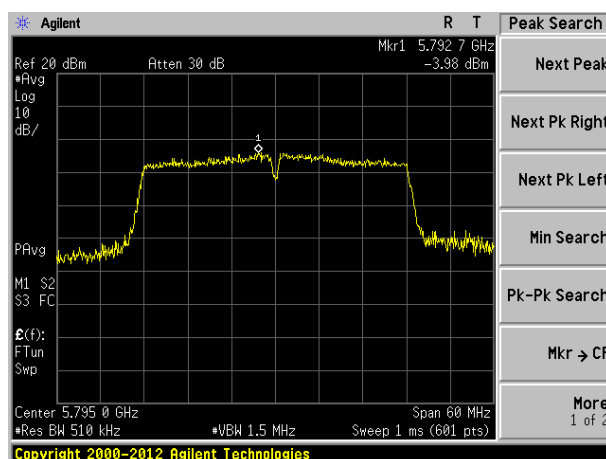


Highest channel

Test mode: 802.11n(HT40) @ 5.8G Band

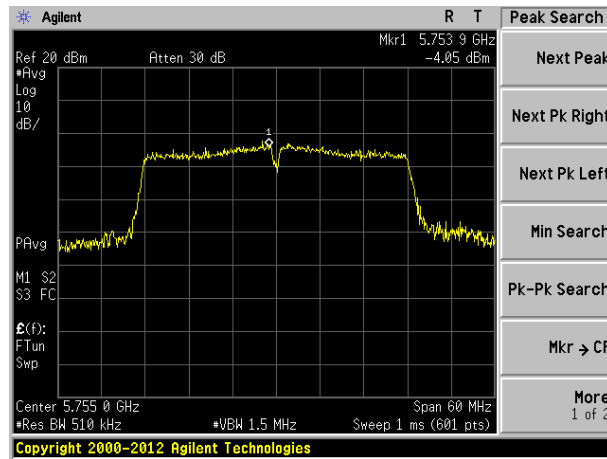


Lowest channel

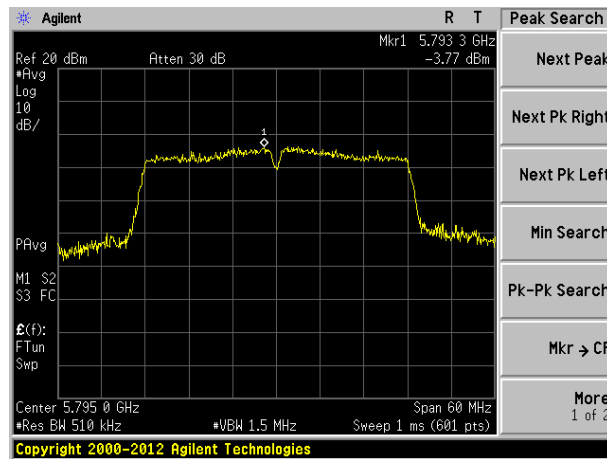


Highest channel

Test mode: 802.11ac(HT40)

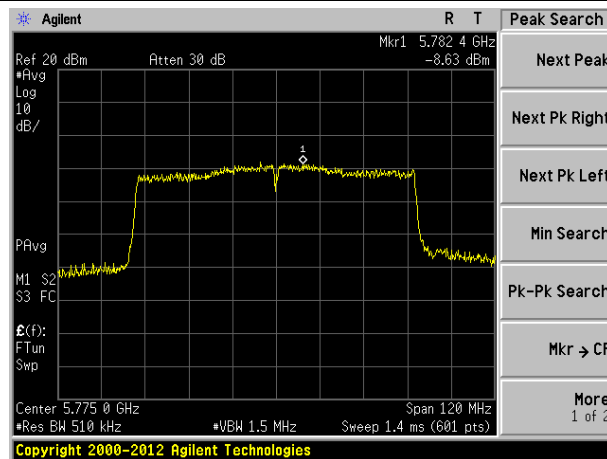


Lowest channel



Highest channel

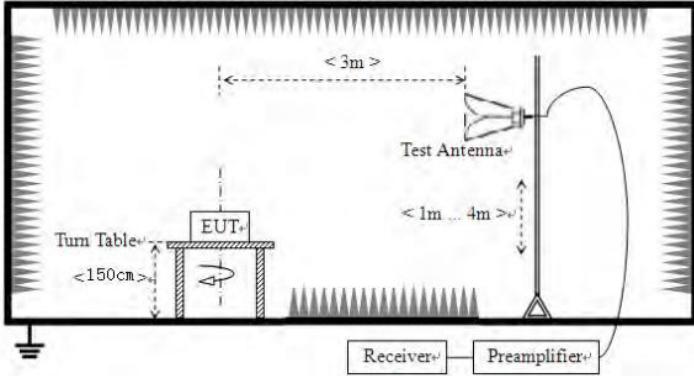
Test mode: 802.11ac(HT80)



Middle channel

7.6 Band edges

7.6.1 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	9kHz to 40GHz, only worse case is reported				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	Above 1GHz	Peak	1MHz	3MHz	Peak
		RMS	1MHz	3MHz	RMS
Limit:	All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.				
Test setup:					
Test Procedure:	1. The EUT was placed on the top of a rotating table 1.5 meters 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. 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, quasi-peak 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 5.2 for details
Test results:	Pass

Remarks:

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.*
3. *The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.*
4. *According to KDB 789033 D02v02r01 section G) 1) d), for measurements above 1000 MHz @3m distance, the limit of field strength is computed as follows:*

$$E[dBuV/m] = EIRP[dBm] + 95.2;$$

$$E[dBuV/m] = -27 + 95.2 = 68.2dBuV/m.$$

$$E[dBuV/m] = 10 + 95.2 = 105.2dBuV/m.$$

$$E[dBuV/m] = 15.6 + 95.2 = 110.8dBuV/m.$$

$$E[dBuV/m] = 27 + 95.2 = 122.2dBuV/m$$

Measurement data:

<i>IEEE 802.11a</i>								
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	35.19	32.36	9.72	23.83	53.44	68.20	-14.76	Horizontal
5700.00	35.57	32.50	9.79	23.84	54.02	68.20	-14.18	Horizontal
5720.00	35.67	32.53	9.81	23.85	54.16	68.20	-14.04	Horizontal
5725.00	39.58	32.53	9.83	23.86	58.08	68.20	-10.12	Horizontal
5850.00	35.97	32.70	9.99	23.87	54.79	68.20	-13.41	Horizontal
5855.00	34.06	32.72	9.99	23.88	52.89	68.20	-15.31	Horizontal
5875.00	35.25	32.74	10.04	23.89	54.14	68.20	-14.06	Horizontal
5925.00	35.36	32.80	10.11	23.90	54.37	68.20	-13.83	Horizontal
5650.00	35.48	32.36	9.72	23.83	53.73	68.20	-14.47	Vertical
5700.00	34.11	32.50	9.79	23.84	52.56	68.20	-15.64	Vertical
5720.00	35.37	32.53	9.81	23.85	53.86	68.20	-14.34	Vertical
5725.00	38.23	32.53	9.83	23.86	56.73	68.20	-11.47	Vertical
5850.00	37.64	32.70	9.99	23.87	56.46	68.20	-11.74	Vertical
5855.00	34.19	32.72	9.99	23.88	53.02	68.20	-15.18	Vertical
5875.00	35.06	32.74	10.04	23.89	53.95	68.20	-14.25	Vertical
5925.00	35.54	32.80	10.11	23.90	54.55	68.20	-13.65	Vertical

IEEE 802.11a								
Average value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	25.06	32.36	9.72	23.83	43.31	54.00	-10.69	Horizontal
5700.00	25.19	32.50	9.79	23.84	43.64	54.00	-10.36	Horizontal
5720.00	24.33	32.53	9.81	23.85	42.82	54.00	-11.18	Horizontal
5725.00	29.03	32.53	9.83	23.86	47.53	54.00	-6.47	Horizontal
5850.00	28.37	32.70	9.99	23.87	47.19	54.00	-6.81	Horizontal
5855.00	25.62	32.72	9.99	23.88	44.45	54.00	-9.55	Horizontal
5875.00	24.93	32.74	10.04	23.89	43.82	54.00	-10.18	Horizontal
5925.00	25.32	32.80	10.11	23.90	44.33	54.00	-9.67	Horizontal
5650.00	25.10	32.36	9.72	23.83	43.35	54.00	-10.65	Vertical
5700.00	25.35	32.50	9.79	23.84	43.80	54.00	-10.20	Vertical
5720.00	25.37	32.53	9.81	23.85	43.86	54.00	-10.14	Vertical
5725.00	29.08	32.53	9.83	23.86	47.58	54.00	-6.42	Vertical
5850.00	28.40	32.70	9.99	23.87	47.22	54.00	-6.78	Vertical
5855.00	24.83	32.72	9.99	23.88	43.66	54.00	-10.34	Vertical
5875.00	24.98	32.74	10.04	23.89	43.87	54.00	-10.13	Vertical
5925.00	25.33	32.80	10.11	23.90	44.34	54.00	-9.66	Vertical

IEEE 802.11n HT20								
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	35.00	32.36	9.72	23.83	53.25	68.20	-14.95	Horizontal
5700.00	35.78	32.50	9.79	23.84	54.23	68.20	-13.97	Horizontal
5720.00	35.93	32.53	9.81	23.85	54.42	68.20	-13.78	Horizontal
5725.00	39.76	32.53	9.83	23.86	58.26	68.20	-9.94	Horizontal
5850.00	37.53	32.70	9.99	23.87	56.35	68.20	-11.85	Horizontal
5855.00	35.61	32.72	9.99	23.88	54.44	68.20	-13.76	Horizontal
5875.00	35.12	32.74	10.04	23.89	54.01	68.20	-14.19	Horizontal
5925.00	35.03	32.80	10.11	23.90	54.04	68.20	-14.16	Horizontal
5650.00	35.70	32.36	9.72	23.83	53.95	68.20	-14.25	Vertical
5700.00	35.74	32.50	9.79	23.84	54.19	68.20	-14.01	Vertical
5720.00	34.69	32.53	9.81	23.85	53.18	68.20	-15.02	Vertical
5725.00	38.21	32.53	9.83	23.86	56.71	68.20	-11.49	Vertical
5850.00	37.46	32.70	9.99	23.87	56.28	68.20	-11.92	Vertical
5855.00	35.03	32.72	9.99	23.88	53.86	68.20	-14.34	Vertical
5875.00	35.41	32.74	10.04	23.89	54.30	68.20	-13.90	Vertical
5925.00	34.93	32.80	10.11	23.90	53.94	68.20	-14.26	Vertical

IEEE 802.11n HT20								
Average value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	25.31	32.36	9.72	23.83	43.56	54.00	-10.44	Horizontal
5700.00	25.25	32.50	9.79	23.84	43.70	54.00	-10.30	Horizontal
5720.00	25.28	32.53	9.81	23.85	43.77	54.00	-10.23	Horizontal
5725.00	29.78	32.53	9.83	23.86	48.28	54.00	-5.72	Horizontal
5850.00	28.02	32.70	9.99	23.87	46.84	54.00	-7.16	Horizontal
5855.00	25.58	32.72	9.99	23.88	44.41	54.00	-9.59	Horizontal
5875.00	25.04	32.74	10.04	23.89	43.93	54.00	-10.07	Horizontal
5925.00	25.24	32.80	10.11	23.90	44.25	54.00	-9.75	Horizontal
5650.00	25.04	32.36	9.72	23.83	43.29	54.00	-10.71	Vertical
5700.00	25.30	32.50	9.79	23.84	43.75	54.00	-10.25	Vertical
5720.00	25.25	32.53	9.81	23.85	43.74	54.00	-10.26	Vertical
5725.00	29.32	32.53	9.83	23.86	47.82	54.00	-6.18	Vertical
5850.00	27.97	32.70	9.99	23.87	46.79	54.00	-7.21	Vertical
5855.00	25.24	32.72	9.99	23.88	44.07	54.00	-9.93	Vertical
5875.00	25.02	32.74	10.04	23.89	43.91	54.00	-10.09	Vertical
5925.00	25.22	32.80	10.11	23.90	44.23	54.00	-9.77	Vertical

IEEE 802.11ac HT20								
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	35.28	32.36	9.72	23.83	53.53	68.20	-14.67	Horizontal
5700.00	35.22	32.50	9.79	23.84	53.67	68.20	-14.53	Horizontal
5720.00	35.13	32.53	9.81	23.85	53.62	68.20	-14.58	Horizontal
5725.00	38.83	32.53	9.83	23.86	57.33	68.20	-10.87	Horizontal
5850.00	37.61	32.70	9.99	23.87	56.43	68.20	-11.77	Horizontal
5855.00	35.47	32.72	9.99	23.88	54.30	68.20	-13.90	Horizontal
5875.00	35.03	32.74	10.04	23.89	53.92	68.20	-14.28	Horizontal
5925.00	35.05	32.80	10.11	23.90	54.06	68.20	-14.14	Horizontal
5650.00	35.09	32.36	9.72	23.83	53.34	68.20	-14.86	Vertical
5700.00	35.30	32.50	9.79	23.84	53.75	68.20	-14.45	Vertical
5720.00	35.62	32.53	9.81	23.85	54.11	68.20	-14.09	Vertical
5725.00	38.36	32.53	9.83	23.86	56.86	68.20	-11.34	Vertical
5850.00	37.56	32.70	9.99	23.87	56.38	68.20	-11.82	Vertical
5855.00	35.20	32.72	9.99	23.88	54.03	68.20	-14.17	Vertical
5875.00	35.12	32.74	10.04	23.89	54.01	68.20	-14.19	Vertical
5925.00	35.31	32.80	10.11	23.90	54.32	68.20	-13.88	Vertical

IEEE 802.11ac HT20								
Average value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	25.64	32.36	9.72	23.83	43.89	54.00	-10.11	Horizontal
5700.00	26.24	32.50	9.79	23.84	44.69	54.00	-9.31	Horizontal
5720.00	25.09	32.53	9.81	23.85	43.58	54.00	-10.42	Horizontal
5725.00	29.25	32.53	9.83	23.86	47.75	54.00	-6.25	Horizontal
5850.00	28.39	32.70	9.99	23.87	47.21	54.00	-6.79	Horizontal
5855.00	25.51	32.72	9.99	23.88	44.34	54.00	-9.66	Horizontal
5875.00	25.02	32.74	10.04	23.89	43.91	54.00	-10.09	Horizontal
5925.00	25.32	32.80	10.11	23.90	44.33	54.00	-9.67	Horizontal
5650.00	24.97	32.36	9.72	23.83	43.22	54.00	-10.78	Vertical
5700.00	25.82	32.50	9.79	23.84	44.27	54.00	-9.73	Vertical
5720.00	25.33	32.53	9.81	23.85	43.82	54.00	-10.18	Vertical
5725.00	29.01	32.53	9.83	23.86	47.51	54.00	-6.49	Vertical
5850.00	28.47	32.70	9.99	23.87	47.29	54.00	-6.71	Vertical
5855.00	25.04	32.72	9.99	23.88	43.87	54.00	-10.13	Vertical
5875.00	25.25	32.74	10.04	23.89	44.14	54.00	-9.86	Vertical
5925.00	25.47	32.80	10.11	23.90	44.48	54.00	-9.52	Vertical

IEEE 802.11n HT40								
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	35.27	32.36	9.72	23.83	53.52	68.20	-14.68	Horizontal
5700.00	35.41	32.50	9.79	23.84	53.86	68.20	-14.34	Horizontal
5720.00	35.48	32.53	9.81	23.85	53.97	68.20	-14.23	Horizontal
5725.00	38.14	32.53	9.83	23.86	56.64	68.20	-11.56	Horizontal
5850.00	37.66	32.70	9.99	23.87	56.48	68.20	-11.72	Horizontal
5855.00	35.26	32.72	9.99	23.88	54.09	68.20	-14.11	Horizontal
5875.00	34.99	32.74	10.04	23.89	53.88	68.20	-14.32	Horizontal
5925.00	35.63	32.80	10.11	23.90	54.64	68.20	-13.56	Horizontal
5650.00	35.39	32.36	9.72	23.83	53.64	68.20	-14.56	Vertical
5700.00	35.03	32.50	9.79	23.84	53.48	68.20	-14.72	Vertical
5720.00	35.69	32.53	9.81	23.85	54.18	68.20	-14.02	Vertical
5725.00	38.53	32.53	9.83	23.86	57.03	68.20	-11.17	Vertical
5850.00	37.30	32.70	9.99	23.87	56.12	68.20	-12.08	Vertical
5855.00	35.43	32.72	9.99	23.88	54.26	68.20	-13.94	Vertical
5875.00	35.60	32.74	10.04	23.89	54.49	68.20	-13.71	Vertical
5925.00	34.99	32.80	10.11	23.90	54.00	68.20	-14.20	Vertical

IEEE 802.11n HT40								
Average value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	25.41	32.36	9.72	23.83	43.66	54.00	-10.34	Horizontal
5700.00	26.79	32.50	9.79	23.84	45.24	54.00	-8.76	Horizontal
5720.00	25.17	32.53	9.81	23.85	43.66	54.00	-10.34	Horizontal
5725.00	29.81	32.53	9.83	23.86	48.31	54.00	-5.69	Horizontal
5850.00	28.57	32.70	9.99	23.87	47.39	54.00	-6.61	Horizontal
5855.00	25.52	32.72	9.99	23.88	44.35	54.00	-9.65	Horizontal
5875.00	24.90	32.74	10.04	23.89	43.79	54.00	-10.21	Horizontal
5925.00	25.69	32.80	10.11	23.90	44.70	54.00	-9.30	Horizontal
5650.00	25.19	32.36	9.72	23.83	43.44	54.00	-10.56	Vertical
5700.00	25.05	32.50	9.79	23.84	43.50	54.00	-10.50	Vertical
5720.00	25.00	32.53	9.81	23.85	43.49	54.00	-10.51	Vertical
5725.00	29.63	32.53	9.83	23.86	48.13	54.00	-5.87	Vertical
5850.00	28.51	32.70	9.99	23.87	47.33	54.00	-6.67	Vertical
5855.00	25.64	32.72	9.99	23.88	44.47	54.00	-9.53	Vertical
5875.00	24.96	32.74	10.04	23.89	43.85	54.00	-10.15	Vertical
5925.00	25.66	32.80	10.11	23.90	44.67	54.00	-9.33	Vertical

IEEE 802.11ac HT40								
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	35.37	32.36	9.72	23.83	53.62	68.20	-14.58	Horizontal
5700.00	34.95	32.50	9.79	23.84	53.40	68.20	-14.80	Horizontal
5720.00	35.08	32.53	9.81	23.85	53.57	68.20	-14.63	Horizontal
5725.00	39.60	32.53	9.83	23.86	58.10	68.20	-10.10	Horizontal
5850.00	37.92	32.70	9.99	23.87	56.74	68.20	-11.46	Horizontal
5855.00	35.13	32.72	9.99	23.88	53.96	68.20	-14.24	Horizontal
5875.00	35.06	32.74	10.04	23.89	53.95	68.20	-14.25	Horizontal
5925.00	35.30	32.80	10.11	23.90	54.31	68.20	-13.89	Horizontal
5650.00	35.32	32.36	9.72	23.83	53.57	68.20	-14.63	Vertical
5700.00	35.21	32.50	9.79	23.84	53.66	68.20	-14.54	Vertical
5720.00	35.66	32.53	9.81	23.85	54.15	68.20	-14.05	Vertical
5725.00	38.35	32.53	9.83	23.86	56.85	68.20	-11.35	Vertical
5850.00	37.66	32.70	9.99	23.87	56.48	68.20	-11.72	Vertical
5855.00	35.80	32.72	9.99	23.88	54.63	68.20	-13.57	Vertical
5875.00	34.99	32.74	10.04	23.89	53.88	68.20	-14.32	Vertical
5925.00	35.67	32.80	10.11	23.90	54.68	68.20	-13.52	Vertical

IEEE 802.11ac HT40								
Average value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	25.39	32.36	9.72	23.83	43.64	54.00	-10.36	Horizontal
5700.00	26.27	32.50	9.79	23.84	44.72	54.00	-9.28	Horizontal
5720.00	25.37	32.53	9.81	23.85	43.86	54.00	-10.14	Horizontal
5725.00	29.41	32.53	9.83	23.86	47.91	54.00	-6.09	Horizontal
5850.00	28.53	32.70	9.99	23.87	47.35	54.00	-6.65	Horizontal
5855.00	25.39	32.72	9.99	23.88	44.22	54.00	-9.78	Horizontal
5875.00	25.45	32.74	10.04	23.89	44.34	54.00	-9.66	Horizontal
5925.00	25.67	32.80	10.11	23.90	44.68	54.00	-9.32	Horizontal
5650.00	25.06	32.36	9.72	23.83	43.31	54.00	-10.69	Vertical
5700.00	25.49	32.50	9.79	23.84	43.94	54.00	-10.06	Vertical
5720.00	25.51	32.53	9.81	23.85	44.00	54.00	-10.00	Vertical
5725.00	29.42	32.53	9.83	23.86	47.92	54.00	-6.08	Vertical
5850.00	28.63	32.70	9.99	23.87	47.45	54.00	-6.55	Vertical
5855.00	25.30	32.72	9.99	23.88	44.13	54.00	-9.87	Vertical
5875.00	25.24	32.74	10.04	23.89	44.13	54.00	-9.87	Vertical
5925.00	25.72	32.80	10.11	23.90	44.73	54.00	-9.27	Vertical

IEEE 802.11ac HT80								
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	35.78	32.36	9.72	23.83	54.03	68.20	-14.17	Horizontal
5700.00	35.08	32.50	9.79	23.84	53.53	68.20	-14.67	Horizontal
5720.00	35.02	32.53	9.81	23.85	53.51	68.20	-14.69	Horizontal
5725.00	39.77	32.53	9.83	23.86	58.27	68.20	-9.93	Horizontal
5850.00	38.42	32.70	9.99	23.87	57.24	68.20	-10.96	Horizontal
5855.00	35.11	32.72	9.99	23.88	53.94	68.20	-14.26	Horizontal
5875.00	35.14	32.74	10.04	23.89	54.03	68.20	-14.17	Horizontal
5925.00	35.37	32.80	10.11	23.90	54.38	68.20	-13.82	Horizontal
5650.00	35.57	32.36	9.72	23.83	53.82	68.20	-14.38	Vertical
5700.00	35.79	32.50	9.79	23.84	54.24	68.20	-13.96	Vertical
5720.00	35.66	32.53	9.81	23.85	54.15	68.20	-14.05	Vertical
5725.00	38.40	32.53	9.83	23.86	56.90	68.20	-11.30	Vertical
5850.00	37.84	32.70	9.99	23.87	56.66	68.20	-11.54	Vertical
5855.00	35.71	32.72	9.99	23.88	54.54	68.20	-13.66	Vertical
5875.00	34.93	32.74	10.04	23.89	53.82	68.20	-14.38	Vertical
5925.00	35.76	32.80	10.11	23.90	54.77	68.20	-13.43	Vertical

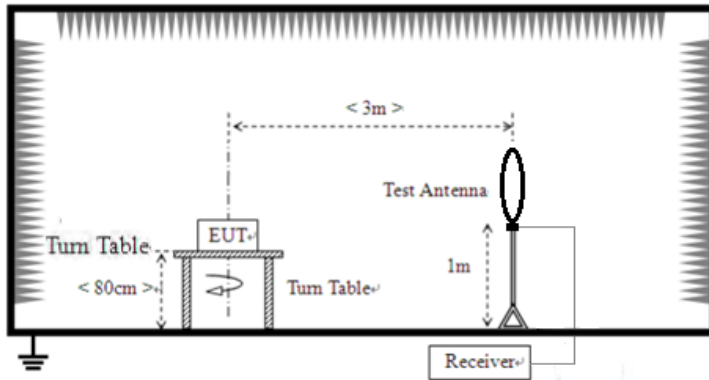
IEEE 802.11ac HT80								
Average value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preampl Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	25.08	32.36	9.72	23.83	43.33	54.00	-10.67	Horizontal
5700.00	26.03	32.50	9.79	23.84	44.48	54.00	-9.52	Horizontal
5720.00	25.22	32.53	9.81	23.85	43.71	54.00	-10.29	Horizontal
5725.00	29.71	32.53	9.83	23.86	48.21	54.00	-5.79	Horizontal
5850.00	28.25	32.70	9.99	23.87	47.07	54.00	-6.93	Horizontal
5855.00	25.01	32.72	9.99	23.88	43.84	54.00	-10.16	Horizontal
5875.00	25.34	32.74	10.04	23.89	44.23	54.00	-9.77	Horizontal
5925.00	25.32	32.80	10.11	23.90	44.33	54.00	-9.67	Horizontal
5650.00	25.43	32.36	9.72	23.83	43.68	54.00	-10.32	Vertical
5700.00	25.55	32.50	9.79	23.84	44.00	54.00	-10.00	Vertical
5720.00	25.24	32.53	9.81	23.85	43.73	54.00	-10.27	Vertical
5725.00	28.44	32.53	9.83	23.86	46.94	54.00	-7.06	Vertical
5850.00	28.25	32.70	9.99	23.87	47.07	54.00	-6.93	Vertical
5855.00	25.61	32.72	9.99	23.88	44.44	54.00	-9.56	Vertical
5875.00	25.17	32.74	10.04	23.89	44.06	54.00	-9.94	Vertical
5925.00	25.15	32.80	10.11	23.90	44.16	54.00	-9.84	Vertical

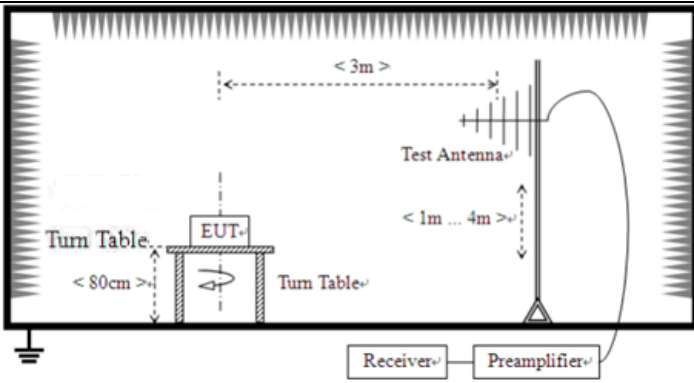
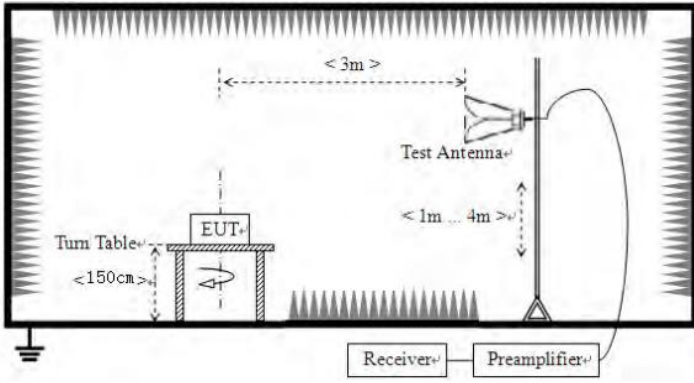
Remark:

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

7.7 Spurious Emission

7.7.1 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209, Part 15E Section 15.407(b)(4)				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	9kHz to 40GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9kHz-150KHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
	150kHz-30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		AV	1MHz	3MHz	Average Value
Limit:	Frequency		Limit (uV/m)	Value	Measurement Distance
	0.009MHz-0.490MHz		2400/F(KHz)	QP	300m
	0.490MHz-1.705MHz		24000/F(KHz)	QP	300m
	1.705MHz-30MHz		30	QP	30m
	30MHz-88MHz		100	QP	3m
	88MHz-216MHz		150	QP	
	216MHz-960MHz		200	QP	
	960MHz-1GHz		500	QP	
	Frequency		Limit (dBm/MHz)	Remark	
Above 1GHz		-27.0	Peak Value		
Test setup:	For radiated emissions from 9kHz to 30MHz				
					
	For radiated emissions from 30MHz to1GHz				

	 For radiated emissions above 1GHz 
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. 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. 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, quasi-peak 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 5.2 for details					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Test voltage:	AC 120V, 60Hz					
Test results:	Pass					

Remarks:

1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

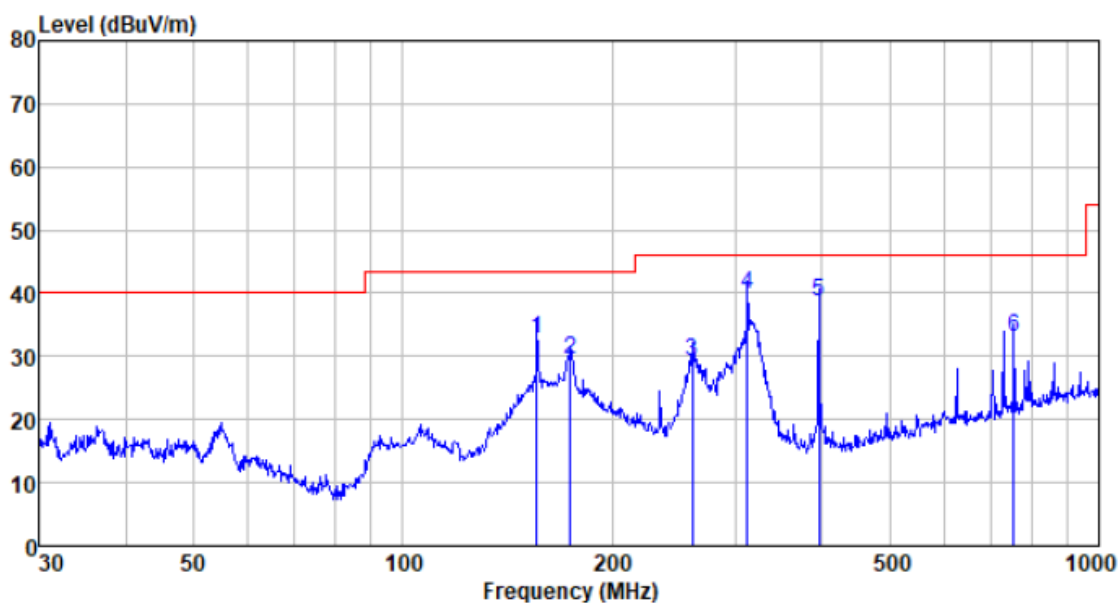
Measurement Data:**9 kHz ~ 30 MHz**

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Below 1GHz

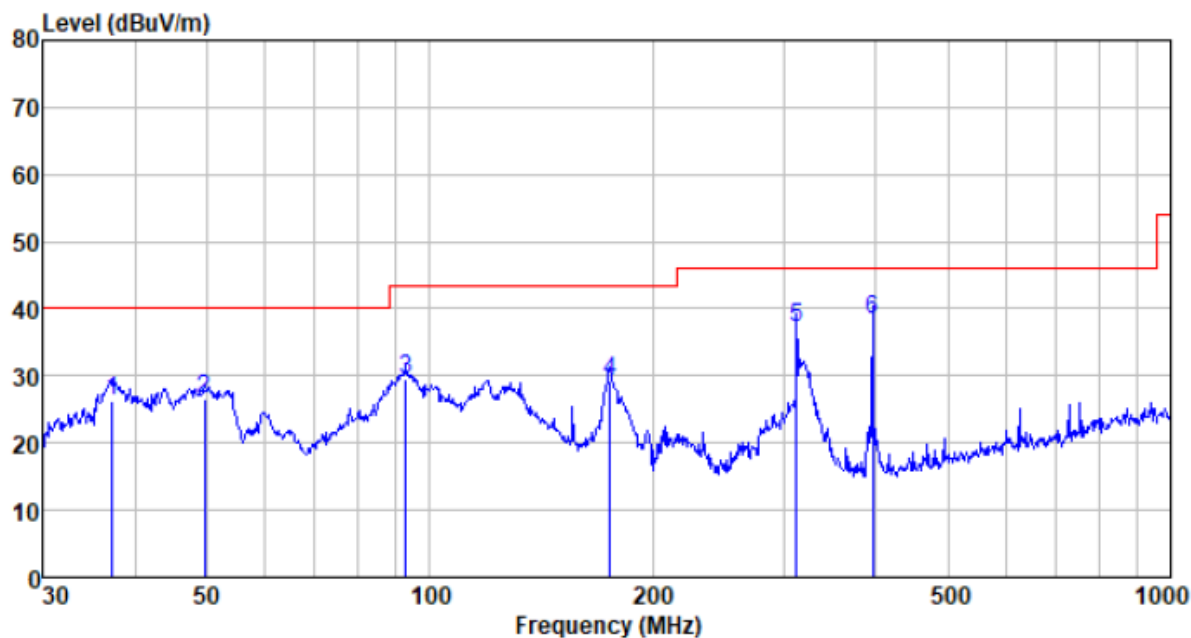
Pre-scan all test modes, found worst case at 802.11a(HT20), and so only show the test result of 802.11a(HT20)

Horizontal:



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
155.910	60.17	8.05	1.60	37.11	32.71	43.50	-10.79	QP
173.814	56.31	8.63	1.71	37.21	29.44	43.50	-14.06	QP
260.144	52.04	12.47	2.18	37.39	29.30	46.00	-16.70	QP
312.179	61.12	13.85	2.42	37.43	39.96	46.00	-6.04	QP
396.242	58.06	15.25	2.83	37.52	38.62	46.00	-7.38	QP
755.387	45.87	20.66	4.29	37.62	33.20	46.00	-12.80	QP

Vertical:



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
37.285	49.36	11.73	0.63	35.50	26.22	40.00	-13.78	QP
49.707	49.74	12.30	0.77	36.17	26.64	40.00	-13.36	QP
92.787	53.88	11.11	1.13	36.66	29.46	43.50	-14.04	QP
175.037	56.15	8.70	1.72	37.21	29.36	43.50	-14.14	QP
312.179	58.44	13.85	2.42	37.43	37.28	46.00	-8.72	QP
396.242	57.78	15.25	2.83	37.52	38.34	46.00	-7.66	QP

Above 1GHz:

802.11a,11n(HT20),11ac(HT20),11n(HT40),11ac(HT40),11ac(HT80) all have been tested ,Only the data of worst case at each channel plan (nominal bandwidth =20MHz, 40MHz, 80MHz) is reported.

Test mode:		802.11a		Test channel:		lowest	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dBuV/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
V	11490	21.28	21.64	42.92	54(Note3)	-11.08	PK
V	17235	21.71	21.80	43.51	54(Note3)	-10.49	PK
H	11490	22.35	21.83	44.18	54(Note3)	-9.82	PK
H	17235	20.92	21.67	42.59	54(Note3)	-11.41	PK

Test mode:		802.11a		Test channel:		Middle	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dBuV/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
V	11570	19.73	21.64	41.37	54(Note3)	-12.63	PK
V	17355	20.31	21.80	42.11	54(Note3)	-11.89	PK
H	11570	20.56	21.83	42.39	54(Note3)	-11.61	PK
H	17355	21.72	21.67	43.39	54(Note3)	-10.61	PK

Test mode:		802.11a		Test channel:		Highest	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dBuV/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
V	11650	21.39	21.64	43.03	54(Note3)	-10.97	PK
V	17475	21.07	21.80	42.87	54(Note3)	-11.13	PK
H	11650	20.27	21.83	42.10	54(Note3)	-11.90	PK
H	17475	20.69	21.67	42.36	54(Note3)	-11.64	PK

Test mode:		802.11ac(HT40)		Test channel:		Lowest	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dBuV/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
V	11510	22.31	21.67	43.98	54(Note3)	-10.02	PK
V	17265	21.36	21.83	43.19	54(Note3)	-10.81	PK
H	11510	20.91	21.67	42.58	54(Note3)	-11.42	PK
H	17265	21.93	21.83	43.76	54(Note3)	-10.24	PK

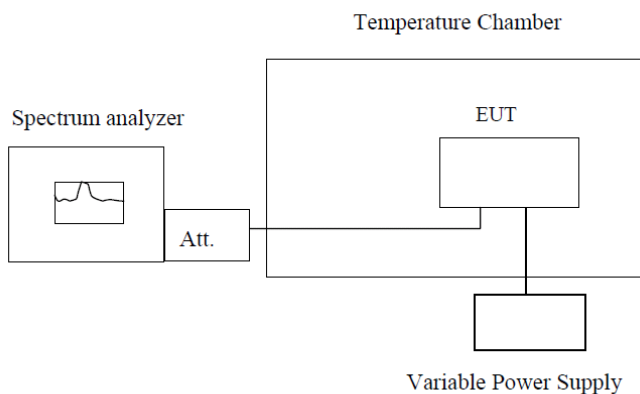
Test mode:		802.11ac(HT40)		Test channel:		Highest	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dBuV/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
V	11590	21.47	21.67	43.14	54(Note3)	-10.86	PK
V	17385	21.36	21.83	43.19	54(Note3)	-10.81	PK
H	11590	21.89	21.67	43.56	54(Note3)	-10.44	PK
H	17385	21.83	21.83	43.66	54(Note3)	-10.34	PK

Test mode:		802.11ac(HT80)		Test channel:		Middle	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dBuV/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
V	11550.00	20.22	21.65	41.87	54(Note3)	-12.13	PK
V	17325.00	20.17	21.81	41.98	54(Note3)	-12.02	PK
H	11550.00	20.53	21.65	42.18	54(Note3)	-11.82	PK
H	17325.00	21.53	21.81	43.34	54(Note3)	-10.66	PK

Note:

1. Measure Level = Reading Level + Factor.
2. The test trace is same as the ambient noise (the test frequency range: 18GHz~40GHz), therefore no data appear in the report.
3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

7.8 Frequency stability

Test Requirement:	FCC Part15 C Section 15.407(g)
Test Method:	ANSI C63.10:2013, FCC Part 2.1055
Limit:	Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified
Test Procedure:	The EUT was setup to ANSI C63.4, 2003; tested to 2.1055 for compliance to FCC Part 15.407(g) requirements.
Test setup:	 Note : Measurement setup for testing on Antenna connector
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement data:

802.11a					
Frequency stability versus Temp.					
Power Supply: DC 3.7V					
Temp. (°C)	Operating Frequency (MHz)	0 minute Measured Frequency (MHz)	2 minute Measured Frequency (MHz)	5 minute Measured Frequency (MHz)	10 minute Measured Frequency (MHz)
-30	5745	5743.0188	5744.7680	5744.8317	5743.3915
	5785	5784.0214	5784.7370	5784.4711	5783.4030
	5825	5823.7858	5823.2717	5824.5980	5824.4179
-20	5745	5744.2876	5743.2579	5744.1118	5744.1138
	5785	5784.8116	5783.5275	5784.7256	5784.8367
	5825	5824.0745	5823.6781	5824.9200	5824.3455
-10	5745	5743.3829	5744.3202	5744.6708	5744.2572
	5785	5783.3014	5783.4359	5784.7311	5784.6596
	5825	5824.2926	5824.9839	5824.8736	5824.3906
0	5745	5744.6907	5744.1357	5744.4411	5744.3554
	5785	5784.5887	5784.0515	5783.9521	5783.0342
	5825	5824.3401	5823.8584	5824.9143	5824.8067
10	5745	5744.3329	5744.6610	5744.8419	5744.1337
	5785	5784.0916	5783.5604	5784.1553	5784.6985
	5825	5823.3214	5824.4920	5824.1032	5824.0606
20	5745	5743.1449	5743.1359	5744.7108	5744.3062
	5785	5784.7618	5784.8212	5783.5166	5783.0345
	5825	5823.9756	5824.8130	5824.1652	5823.9558
30	5745	5743.2229	5743.6407	5744.0588	5744.4565
	5785	5784.7604	5783.4933	5784.5395	5784.1021
	5825	5824.8913	5823.9702	5824.5757	5824.7056
40	5745	5743.8880	5743.9465	5744.3965	5744.2573
	5785	5784.5074	5784.1010	5784.2594	5784.7775
	5825	5824.2836	5824.1252	5824.0786	5824.7694
50	5745	5743.6999	5743.0336	5743.2922	5744.7278
	5785	5784.2317	5783.3167	5783.0016	5784.3184
	5825	5823.8042	5823.4334	5824.4348	5824.5993

Frequency stability versus Voltage					
Temperature: 25°C					
Power Supply (DC)	Operating Frequency (MHz)	0 minute Measured Frequency (MHz)	2 minute Measured Frequency (MHz)	5 minute Measured Frequency (MHz)	10 minute Measured Frequency (MHz)
3.3	5745	5743.0663	5744.1692	5743.0471	5743.3969
	5785	5784.4133	5784.1078	5783.7167	5784.2497
	5825	5824.5504	5824.0520	5823.5864	5824.9868
3.7	5745	5744.3920	5744.1942	5743.0448	5744.0622
	5785	5784.1891	5784.3661	5784.8138	5784.4475
	5825	5824.6378	5824.1801	5824.8793	5823.3459
4.1	5745	5743.2550	5743.6900	5743.6894	5743.9290
	5785	5783.0044	5783.1581	5784.2808	5784.7892
	5825	5824.0336	5824.3650	5824.8647	5823.2033

Note: The worst case is FL=5744.0953MHz, FH=5824.9844MHz

802.11n(HT20)					
Frequency stability versus Temp.					
Power Supply: DC 3.7V					
Temp. (°C)	Operating Frequency (MHz)	0 minute Measured Frequency (MHz)	2 minute Measured Frequency (MHz)	5 minute Measured Frequency (MHz)	10 minute Measured Frequency (MHz)
-30	5745	5746.3725	5744.5939	5743.7732	5745.6061
	5785	5785.7133	5784.1838	5783.0273	5785.8131
	5825	5825.1509	5824.4635	5823.8649	5825.9112
-20	5745	5745.9123	5744.0757	5744.8245	5745.4071
	5785	5785.7451	5784.5252	5784.3945	5785.3715
	5825	5825.4287	5824.5138	5824.0008	5825.4596
-10	5745	5745.8781	5744.3446	5744.8192	5745.8338
	5785	5785.6787	5784.4810	5784.7701	5785.0667
	5825	5825.2640	5824.6715	5824.3669	5825.5881
0	5745	5745.6530	5744.5365	5744.9607	5745.7535
	5785	5785.9597	5784.1711	5784.6199	5785.6592
	5825	5825.3647	5824.8917	5824.8555	5825.5799
10	5745	5745.3687	5744.2320	5744.9260	5745.7111
	5785	5785.1975	5784.3713	5784.3407	5785.8038
	5825	5825.8311	5824.8706	5824.9589	5825.0100
20	5745	5745.4925	5744.4560	5744.4433	5745.1110
	5785	5785.0858	5784.9816	5784.6634	5785.8245
	5825	5825.7222	5824.6736	5824.5280	5825.9774
30	5745	5745.6047	5744.9782	5744.7283	5745.7677
	5785	5785.0393	5784.9590	5784.3075	5785.0847
	5825	5825.5603	5824.8885	5824.2675	5825.7619
40	5745	5745.0536	5744.5462	5744.2680	5745.4764
	5785	5785.7926	5784.7583	5784.3807	5785.8984
	5825	5825.3177	5824.8019	5824.9459	5825.5630
50	5745	5745.9176	5744.8167	5744.4061	5745.2810
	5785	5785.5935	5784.3276	5784.7630	5785.5383
	5825	5825.0444	5824.3803	5824.4857	5825.2921

Frequency stability versus Voltage					
Temperature: 25°C					
Power Supply (DC)	Operating Frequency (MHz)	0 minute Measured Frequency (MHz)	2 minute Measured Frequency (MHz)	5 minute Measured Frequency (MHz)	10 minute Measured Frequency (MHz)
3.3	5745	5746.8808	5745.2450	5744.5151	5743.8012
	5785	5785.7069	5785.3520	5784.8446	5783.3114
	5825	5825.0567	5825.5616	5824.9800	5823.4857
3.7	5745	5745.0538	5745.6227	5744.3061	5743.8436
	5785	5785.2564	5785.5114	5784.4739	5784.6930
	5825	5825.9776	5825.3041	5824.7959	5824.4274
4.1	5745	5745.9743	5745.0568	5744.3423	5744.2114
	5785	5785.6313	5785.6851	5784.1898	5784.8311
	5825	5825.2707	5825.7958	5824.2991	5824.3038

Note: The worst case is FL=5743.8207MHz, FH=5825.9832MHz

802.11ac(HT20)					
Frequency stability versus Temp.					
Power Supply: DC 3.7V					
Temp. (°C)	Operating Frequency (MHz)	0 minute Measured Frequency (MHz)	2 minute Measured Frequency (MHz)	5 minute Measured Frequency (MHz)	10 minute Measured Frequency (MHz)
-30	5745	5743.3653	5743.2892	5744.1142	5743.0874
	5785	5784.2583	5784.5033	5784.6087	5784.4029
	5825	5824.4740	5824.2235	5824.8601	5824.7107
-20	5745	5744.8643	5744.0703	5744.9774	5744.4122
	5785	5784.7942	5784.9235	5784.3333	5784.6871
	5825	5824.4256	5824.4973	5824.4767	5824.0509
-10	5745	5744.1189	5744.5810	5744.2544	5744.2701
	5785	5784.1467	5784.1513	5784.8571	5784.5624
	5825	5824.1651	5824.6068	5824.6372	5824.1911
0	5745	5744.8176	5744.8554	5744.4090	5744.6271
	5785	5784.7718	5784.7639	5784.1045	5784.1128
	5825	5824.4706	5824.1419	5824.1588	5824.3889
10	5745	5744.3986	5744.9082	5744.3816	5744.5162
	5785	5784.2943	5784.4301	5784.3179	5784.5007
	5825	5824.6796	5824.7331	5824.1822	5824.7226
20	5745	5744.0055	5744.5284	5744.5279	5744.3385
	5785	5784.9453	5784.6412	5784.8658	5784.2962
	5825	5824.7588	5824.9643	5824.7631	5824.1937
30	5745	5744.8481	5744.8219	5744.9040	5744.4914
	5785	5784.5558	5784.7303	5784.9727	5784.1665
	5825	5824.0564	5824.5574	5824.5195	5824.8284
40	5745	5744.1343	5744.9644	5744.1037	5744.0703
	5785	5784.1740	5784.6911	5784.5093	5784.9654
	5825	5824.3818	5824.7218	5824.6635	5824.5673
50	5745	5744.7893	5744.2104	5744.3380	5744.5117
	5785	5784.5928	5784.7149	5784.7972	5784.8930
	5825	5824.1335	5824.8907	5824.5825	5824.2391

Frequency stability versus Voltage					
Temperature: 25°C					
Power Supply (DC)	Operating Frequency (MHz)	0 minute Measured Frequency (MHz)	2 minute Measured Frequency (MHz)	5 minute Measured Frequency (MHz)	10 minute Measured Frequency (MHz)
108	5745	5743.0829	5743.7845	5745.7478	5745.5554
	5785	5784.9441	5783.7545	5785.0129	5785.5287
	5825	5824.5165	5823.4836	5825.7402	5825.6696
120	5745	5744.8089	5743.4461	5745.8197	5745.0374
	5785	5784.2669	5784.9750	5785.5525	5785.4227
	5825	5824.3393	5824.0516	5825.6525	5825.9015
132	5745	5744.5711	5744.5990	5745.5373	5745.0577
	5785	5784.7225	5784.8038	5785.9662	5785.9842
	5825	5824.7272	5824.0002	5825.3250	5825.0452

Note: The worst case is FL=5742.3838MHz, FH=5826.7890MHz

802.11n(HT40)					
Frequency stability versus Temp.					
Power Supply: DC 3.7V					
Temp. (°C)	Operating Frequency (MHz)	0 minute Measured Frequency (MHz)	2 minute Measured Frequency (MHz)	5 minute Measured Frequency (MHz)	10 minute Measured Frequency (MHz)
-30	5755	5755.6446	5754.7505	5753.8648	5756.7987
	5795	5795.4167	5794.4585	5794.1117	5796.5608
-20	5755	5755.8774	5754.7109	5754.9035	5755.4011
	5795	5795.2683	5794.7457	5794.6834	5795.3315
-10	5755	5755.4138	5754.2544	5754.5009	5755.2359
	5795	5795.3666	5794.7455	5794.7894	5795.0083
0	5755	5755.1341	5754.4392	5754.2333	5755.8597
	5795	5795.1402	5794.8193	5794.3207	5795.2689
10	5755	5755.6007	5754.1181	5754.5573	5755.5309
	5795	5795.6265	5794.6134	5794.4864	5795.8879
20	5755	5755.5567	5754.7939	5754.6667	5755.5744
	5795	5795.4907	5794.4069	5794.3359	5795.0402
30	5755	5755.7125	5754.8512	5754.4882	5755.1159
	5795	5795.9452	5794.0642	5794.3270	5795.8140
40	5755	5755.8870	5754.3446	5754.9008	5755.7784
	5795	5795.5348	5794.5827	5794.9555	5795.8484
50	5755	5755.1720	5754.3180	5754.8506	5755.7466
	5795	5795.4990	5794.4114	5794.6850	5795.7847

Frequency stability versus Voltage					
Temperature: 25°C					
Power Supply (DC)	Operating Frequency (MHz)	0 minute Measured Frequency (MHz)	2 minute Measured Frequency (MHz)	5 minute Measured Frequency (MHz)	10 minute Measured Frequency (MHz)
3.3	5755	5755.6132	5753.9744	5756.7378	5753.9558
	5795	5795.6008	5793.0784	5796.9085	5793.6762
3.7	5755	5755.6821	5754.8272	5756.7872	5754.6217
	5795	5795.0450	5794.5807	5795.4287	5794.2378
4.1	5755	5755.6543	5754.8852	5755.2539	5754.0239
	5795	5795.8617	5794.5106	5795.0255	5794.9938

Note: The worst case is FL=5753.0680MHz, FH=5796.5693MHz

802.11ac(HT40)					
Frequency stability versus Temp.					
Power Supply: DC 3.7V					
Temp. (°C)	Operating Frequency (MHz)	0 minute Measured Frequency (MHz)	2 minute Measured Frequency (MHz)	5 minute Measured Frequency (MHz)	10 minute Measured Frequency (MHz)
-30	5755	5755.2610	5753.5495	5755.8793	5753.8353
	5795	5795.8753	5793.4339	5795.7972	5793.0019
-20	5755	5755.9317	5754.8396	5755.9488	5754.7154
	5795	5795.6489	5794.7646	5795.7453	5794.0228
-10	5755	5755.4018	5754.4411	5755.2501	5754.0932
	5795	5795.1965	5794.4946	5795.2073	5794.9485
0	5755	5755.8923	5754.4949	5755.7408	5754.5351
	5795	5795.0816	5794.6432	5795.8453	5794.3341
10	5755	5755.3682	5754.8129	5755.9500	5754.2691
	5795	5795.3442	5794.5202	5795.6673	5794.7054
20	5755	5755.4222	5754.2784	5755.6678	5754.7234
	5795	5795.4619	5794.8710	5795.5788	5794.9181
30	5755	5755.7042	5754.7596	5755.5120	5754.4721
	5795	5795.9126	5794.7862	5795.7067	5794.7737
40	5755	5755.6940	5754.0605	5755.8627	5754.1320
	5795	5795.8091	5794.0207	5795.5280	5794.2946
50	5755	5755.6087	5754.1678	5755.8271	5754.3091
	5795	5795.4855	5794.4715	5795.0602	5794.4122

Frequency stability versus Voltage					
Temperature: 25°C					
Power Supply (DC)	Operating Frequency (MHz)	0 minute Measured Frequency (MHz)	2 minute Measured Frequency (MHz)	5 minute Measured Frequency (MHz)	10 minute Measured Frequency (MHz)
3.3	5755	5756.1365	5754.9623	5756.9165	5753.6848
	5795	5795.2459	5794.3043	5795.5611	5793.0280
3.7	5755	5755.3214	5754.0521	5755.8564	5753.0548
	5795	5795.2758	5794.2199	5795.0905	5793.1250
4.1	5755	5755.3597	5754.1626	5755.3504	5753.8711
	5795	5795.2007	5794.7167	5795.7352	5793.6477

Note: The worst case is FL=5752.4120MHz, FH=5796.5192MHz

802.11ac(HT80)					
Frequency stability versus Temp.					
Power Supply: DC 3.7V					
Temp. (°C)	Operating Frequency (MHz)	0 minute	2 minute	5 minute	10 minute
		Measured Frequency (MHz)	Measured Frequency (MHz)	Measured Frequency (MHz)	Measured Frequency (MHz)
-30	5775	5775.0513	5776.5154	5774.2495	5773.1477
-20	5775	5775.9077	5776.9467	5774.8017	5774.9359
-10	5775	5775.5302	5775.2406	5774.2662	5774.6494
0	5775	5775.0258	5775.1603	5774.4326	5774.0498
10	5775	5775.3428	5775.4621	5774.7858	5774.7409
20	5775	5775.8026	5775.5751	5774.8329	5774.3414
30	5775	5775.3884	5775.8674	5774.4270	5774.0943
40	5775	5775.9384	5775.5014	5774.6916	5774.5457
50	5775	5775.4815	5775.7948	5774.9905	5774.3625

Frequency stability versus Voltage					
Temperature: 25°C					
Power Supply (DC)	Operating Frequency (MHz)	0 minute	2 minute	5 minute	10 minute
		Measured Frequency (MHz)	Measured Frequency (MHz)	Measured Frequency (MHz)	Measured Frequency (MHz)
3.3	5775	5773.8518	5776.0334	5776.1942	5775.1171
3.7	5775	5773.4681	5775.8561	5776.4884	5775.6909
4.1	5775	5774.1158	5775.2666	5776.2259	5776.1766

Note: The worst case is FL=5773.1168MHz, FH=5776.7635MHz

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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