

Test Report (WIFI)

Applicant: Shanghai Notion Information Technology CO. LTD
Address of Applicant: Floor 5,Building 5,NO 289,Bisheng Rd, Pudong district, Shanghai, China
Manufacturer: Shanghai Notion Information Technology CO. LTD
Address of Manufacturer: Floor 5,Building 5,NO 289,Bisheng Rd, Pudong district, Shanghai, China
Equipment Under Test (EUT)

Product Name: 4G LTE Indoor Modem + Wifi Router
Model No.: R01, R05, R051, R0511, R0516, P01, P05, P051, P0511, P056I, AH-R0516-HP
FCC ID: 2AR45-CPE001
Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247
Date of sample receipt: June 11, 2019
Date of Test: June 12, 2019-July 01, 2019
Date of report issued: July 01, 2019
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	July 01, 2019	Original

Prepared By:

Tiger Chen

Date:

July 01, 2019

Project Engineer

Check By:

Robinson

Date:

July 01, 2019

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

Remarks:

1. Pass: The EUT complies with the essential requirements in the standard.
2. Test according to ANSI C63.10:2013

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	$\pm 4.64\text{dB}$	(1)
Radiated Emission	30MHz ~ 1000MHz	$\pm 4.64\text{dB}$	(1)
Radiated Emission	1GHz ~ 26.5GHz	$\pm 3.68\text{dB}$	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	$\pm 3.44\text{dB}$	(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:	4G LTE Indoor Modem + Wifi Router
Model No.:	R01, R05, R051, R0511, R0516, P01, P05, P051, P0511, P056I, AH-R0516-HP
Test Model No:	AH-R0516-HP
<i>Remark: All above models are identical in the same PCB layout, interior structure and electrical circuits. The only difference is model name for commercial purpose.</i>	
Serial No.:	R0516190705000001
Hardware Version:	P056I_1_10
Software Version:	P056INotion3_CP_R0516_V001_2.174.000_20190419_174141/20190701 -- P056INotion3_AP_R0516_V001 release
Test sample(s) ID:	GTS201906000093-1
Sample(s) Status:	Engineer sample
Operation Frequency:	2412MHz~2462MHz(802.11b/g/n(HT20)) 2422MHz~2452MHz(802.11n(HT40))
Channel Numbers:	802.11b/802.11g /802.11n(HT20): 11 802.11n(HT40):7
Channel Separation:	5MHz
Modulation Technology:	802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n: Orthogonal Frequency Division Multiplexing (OFDM) MIMO: 802.11n SISO: 802.11b/g
Antenna Type:	Integral Antenna
Antenna Gain:	2dBi(Declare by applicant)
Power Supply:	POWER ADAPTER Model:RD1201000-C55-91MG Input: AC 100-240V, 50/60Hz, 0.6A MAX Output: DC 12V, 1A Or Battery Li-Polymer: DC 3.7V, 3000mAh(11.1Wh)

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

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

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

5.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
<i>Remark: During the test, the dutycycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.</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:				
Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.				
Mode	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Data rate	1Mbps	6Mbps	6.5Mbps	13Mbps

5.3 Description of Support Units

None.

5.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations: ● FCC —Registration No.: 381383 Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 381383. ● Industry Canada (IC) —Registration No.: 9079A-2 The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2. ● NVLAP (LAB CODE:600179-0) Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0
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5.5 Test Location

All tests were performed at:
Global United Technology Services Co., Ltd. Address: No. 301-309, 3/F, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Tel: 0755-27798480 Fax: 0755-27798960

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. 20 2018	Oct. 19 2019
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 20 2018	Oct. 19 2019
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 20 2018	Oct. 19 2019
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 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	Artificial Mains Network	SCHWARZBECK MESS	NSLK8127	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

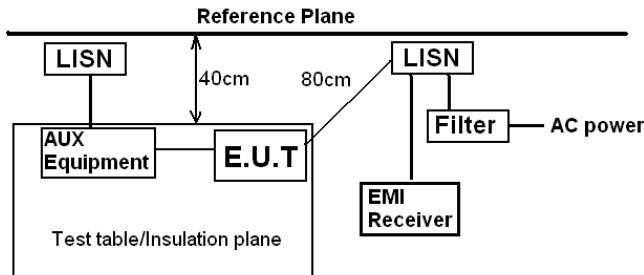
General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 26 2019	June. 25 2020
2	Barometer	ChangChun	DYM3	GTS255	June. 26 2019	June. 25 2020

7 Test results and Measurement Data

7.1 Antenna requirement

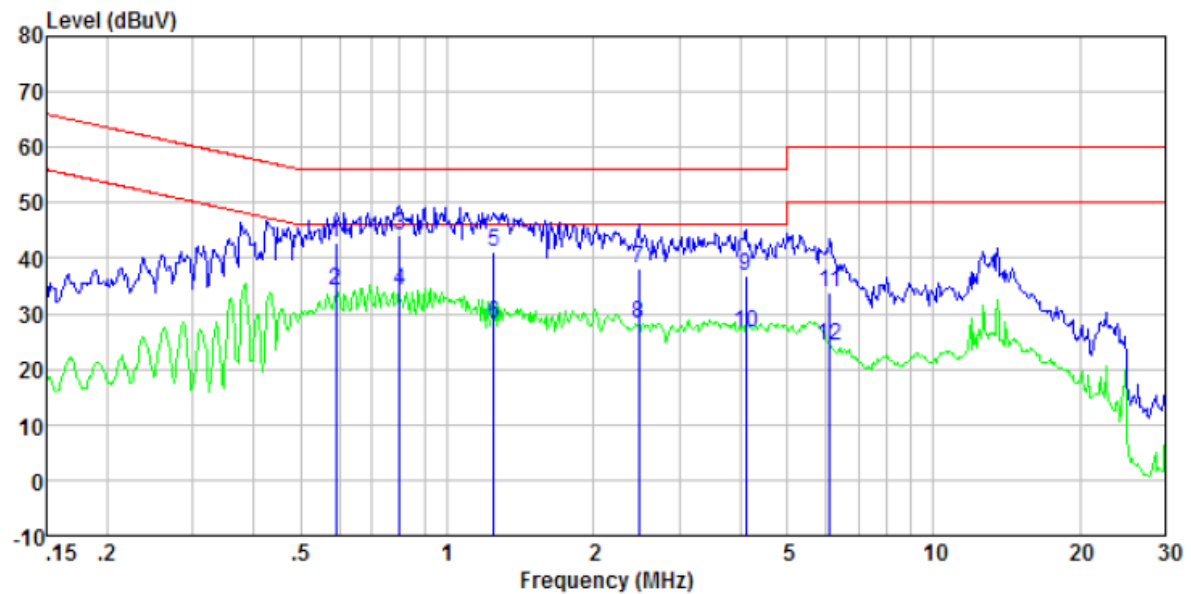
Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.	
EUT Antenna:	
<i>The antenna is integral antenna, the best case gain of the antenna is 2dBi, 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					
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  Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m					
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					

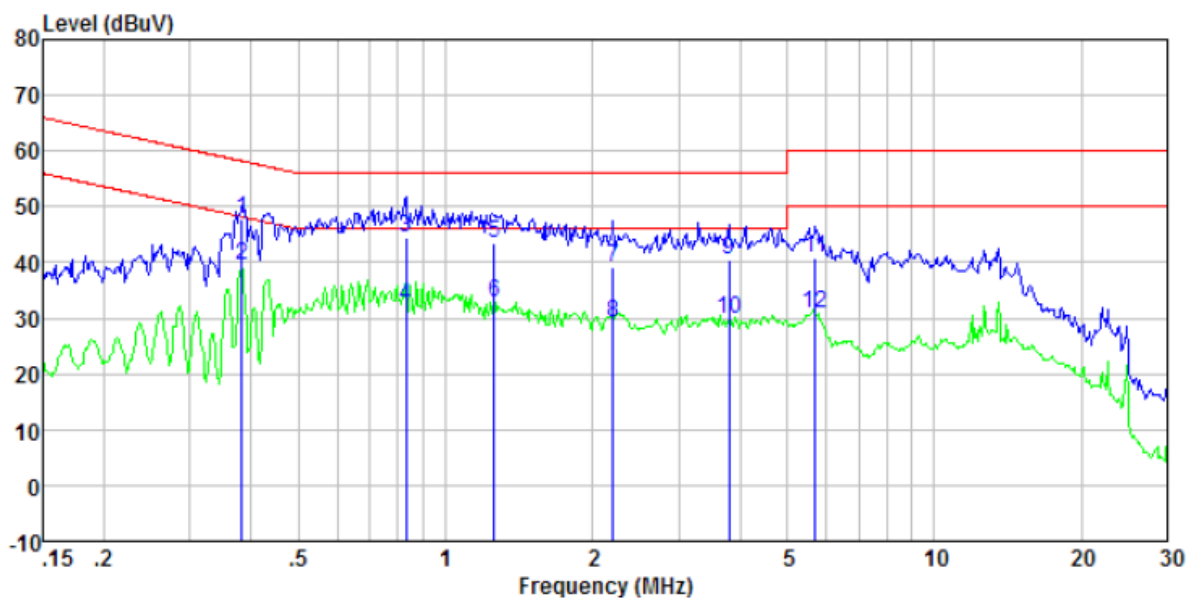
Measurement data

Line:



Freq MHz	Reading level dBuV	LISN/ISN factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0.59	42.33	0.29	0.12	42.74	56.00	-13.26	QP
0.59	33.66	0.29	0.12	34.07	46.00	-11.93	Average
0.80	43.79	0.24	0.14	44.17	56.00	-11.83	QP
0.80	33.89	0.24	0.14	34.27	46.00	-11.73	Average
1.25	40.84	0.20	0.16	41.20	56.00	-14.80	QP
1.25	27.95	0.20	0.16	28.31	46.00	-17.69	Average
2.47	37.86	0.20	0.18	38.24	56.00	-17.76	QP
2.47	27.68	0.20	0.18	28.06	46.00	-17.94	Average
4.11	36.57	0.20	0.18	36.95	56.00	-19.05	QP
4.11	26.13	0.20	0.18	26.51	46.00	-19.49	Average
6.12	33.40	0.20	0.18	33.78	60.00	-26.22	QP
6.12	23.69	0.20	0.18	24.07	50.00	-25.93	Average

Neutral:

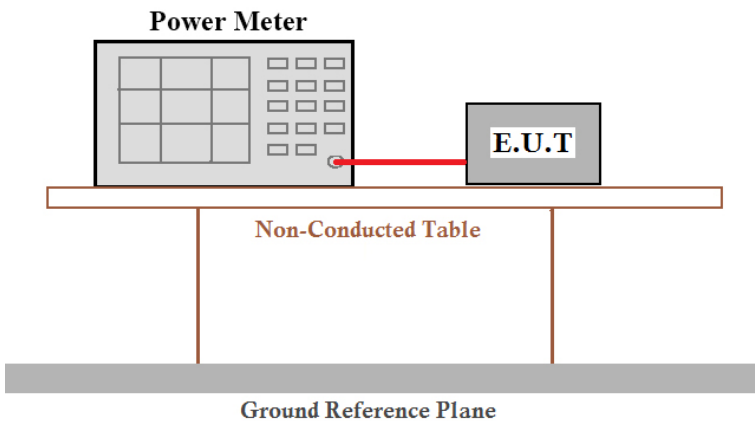


Freq MHz	Reading level dBuV	LISN/ISN factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0.38	47.45	0.36	0.10	47.91	58.21	-10.30	QP
0.38	39.19	0.36	0.10	39.65	48.21	-8.56	Average
0.83	43.97	0.23	0.14	44.34	56.00	-11.66	QP
0.83	31.90	0.23	0.14	32.27	46.00	-13.73	Average
1.26	43.09	0.20	0.16	43.45	56.00	-12.55	QP
1.26	32.64	0.20	0.16	33.00	46.00	-13.00	Average
2.20	38.80	0.20	0.18	39.18	56.00	-16.82	QP
2.20	28.85	0.20	0.18	29.23	46.00	-16.77	Average
3.80	40.13	0.20	0.18	40.51	56.00	-15.49	QP
3.80	29.45	0.20	0.18	29.83	46.00	-16.17	Average
5.71	40.46	0.20	0.18	40.84	60.00	-19.16	QP
5.71	30.54	0.20	0.18	30.92	50.00	-19.08	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

7.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB558074 D01 DTS Meas Guidance V05r02
Limit:	30dBm
Test setup:	 The diagram illustrates the test setup. A Power Meter is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which 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

ANT 1:

Test CH	Peak Output Power (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	15.30	13.49	13.37	12.60	30.00	Pass
Middle	15.01	14.54	13.63	12.59		
Highest	15.30	13.42	13.47	12.00		

ANT 2:

Test CH	Peak Output Power (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	15.61	13.89	13.40	12.59	30.00	Pass
Middle	14.79	14.54	13.69	12.56		
Highest	15.22	13.87	13.53	12.16		

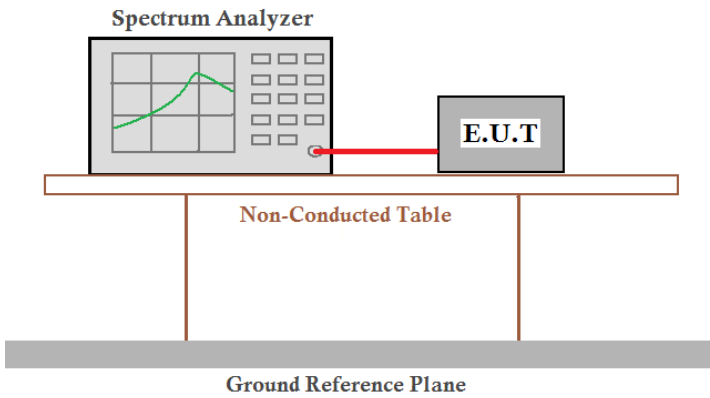
MIMO:

Modulation	Test CH	Peak Output Power (dBm)		Sum Output Power (dBm)	Limit (dBm)	Result
802.11n(HT20)	Lowest	ANT 1	13.37	16.10	30	Pass
		ANT 2	12.60			
	Middle	ANT 1	13.63	16.24		
		ANT 2	12.59			
	Highest	ANT 1	13.47	15.89		
		ANT 2	12.00			
802.11n(HT40)	Lowest	ANT 1	13.40	16.11	30	Pass
		ANT 2	12.59			
	Middle	ANT 1	13.69	16.26		
		ANT 2	12.56			
	Highest	ANT 1	13.53	16.00		
		ANT 2	12.16			

Note: transmit signals are completely *uncorrelated*,

Directional gain = $10 \times \log [(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{ANT}]$ dBi = $10 \times \log [(10^{2/10} + 10^{2/10})/2]$ = 2dBi

7.4 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB558074 D01 DTS Meas Guidance V05r02
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

ANT 1:

Test CH	Channel Bandwidth (MHz)				Limit(KHz)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	9.555	14.150	15.983	35.303	>500	Pass
Middle	9.613	15.164	15.178	34.977		
Highest	10.076	15.454	15.270	35.329		

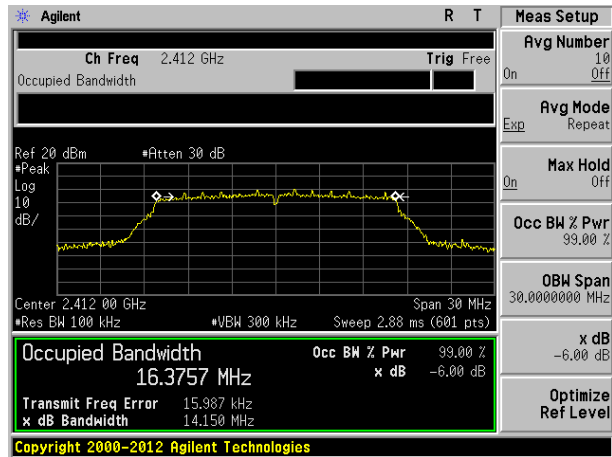
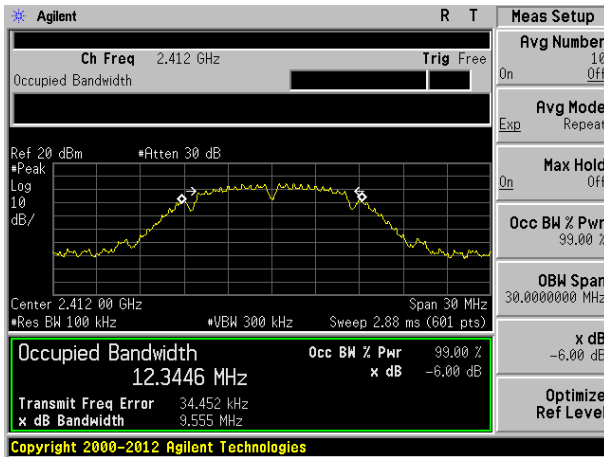
ANT 2:

Test CH	Channel Bandwidth (MHz)				Limit(KHz)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	9.598	15.045	15.978	33.975	>500	Pass
Middle	9.573	15.519	15.182	35.295		
Highest	9.122	15.164	16.459	35.363		

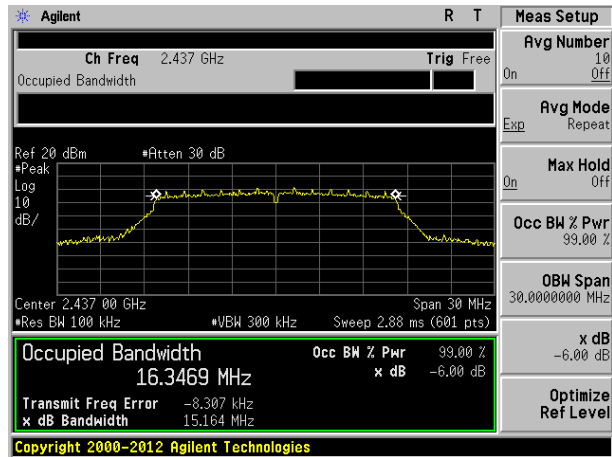
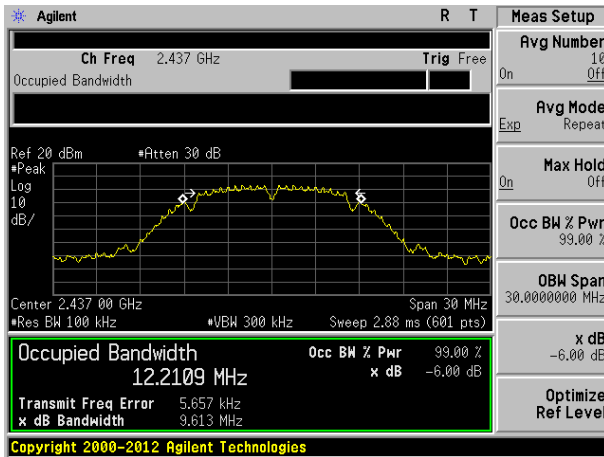
Test plot as follows:

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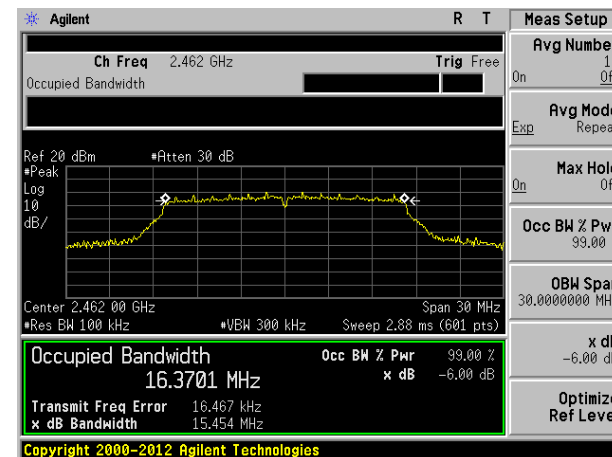
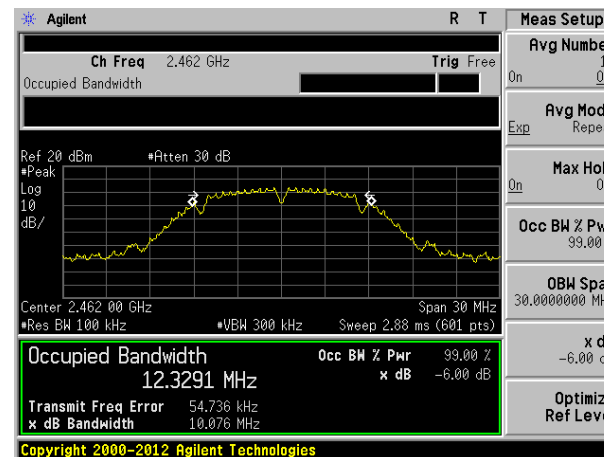
Test mode:	802.11b	Test mode:	802.11g
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Lowest channel

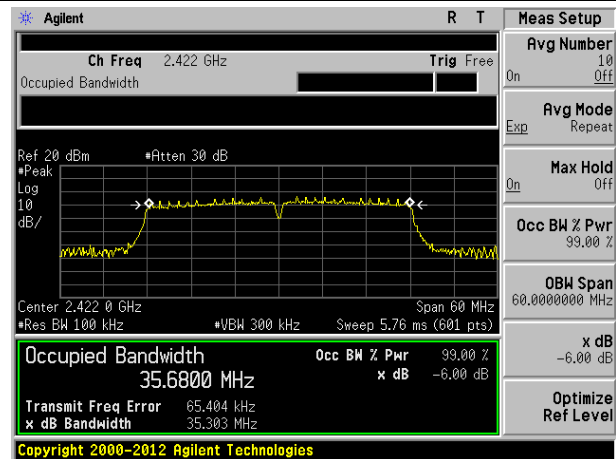
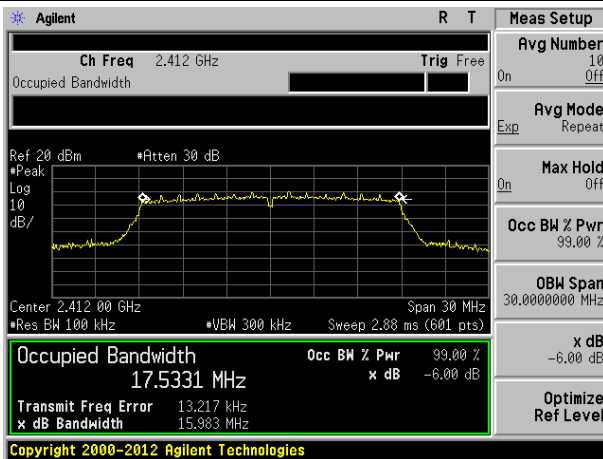


Middle channel

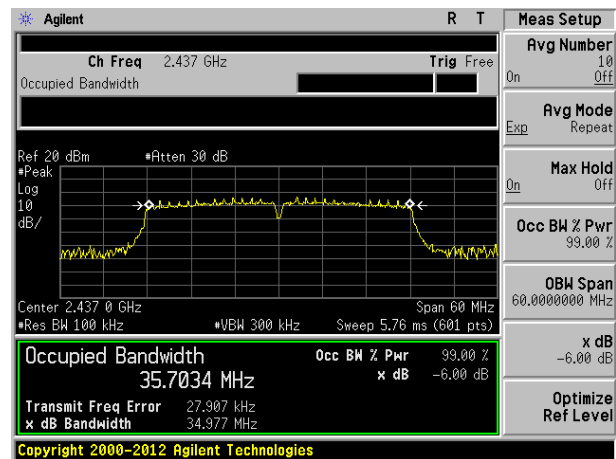
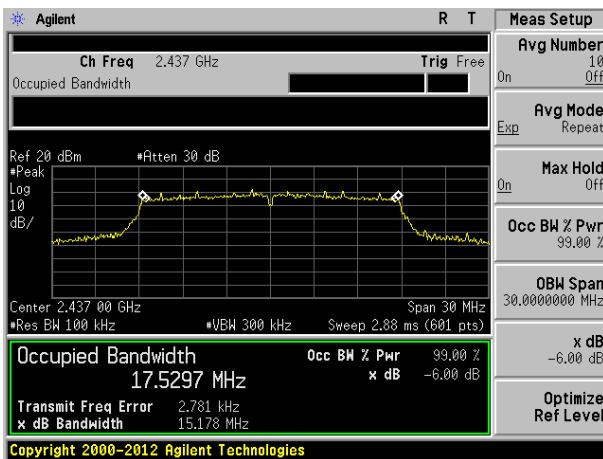


Highest channel

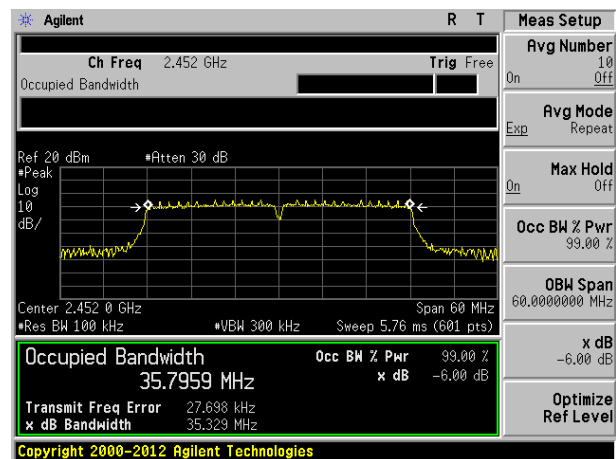
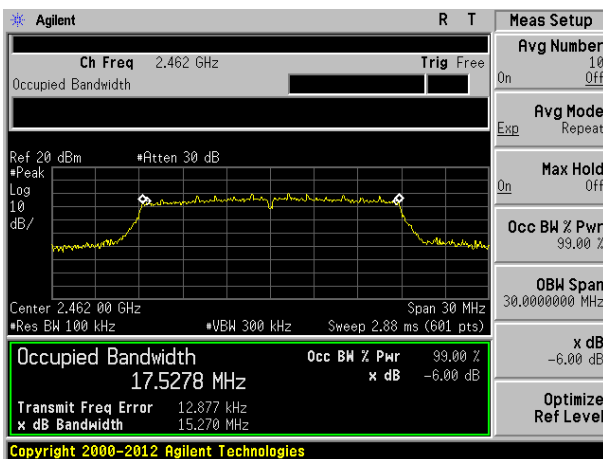
Test mode:	802.11n(HT20)	Test mode:	802.11n(HT40)
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Lowest channel



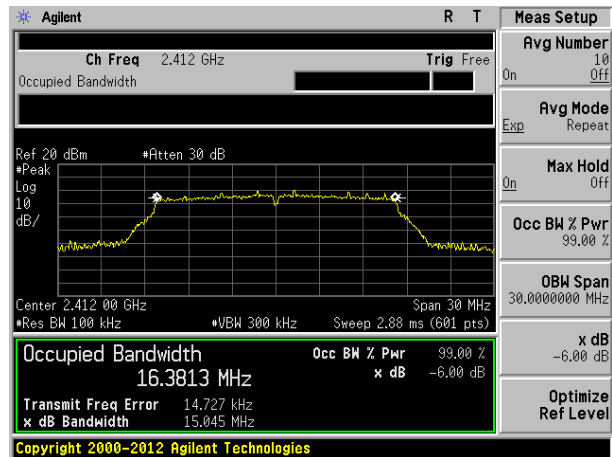
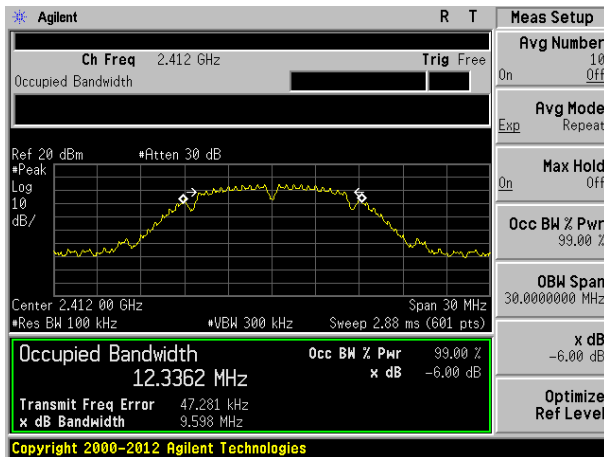
Middle channel



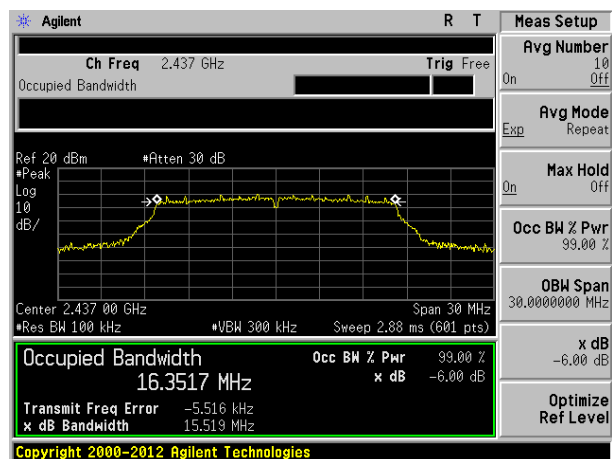
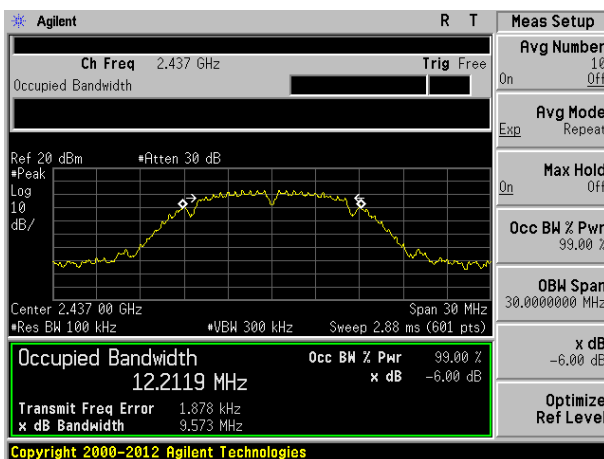
Highest channel

ANT 2:

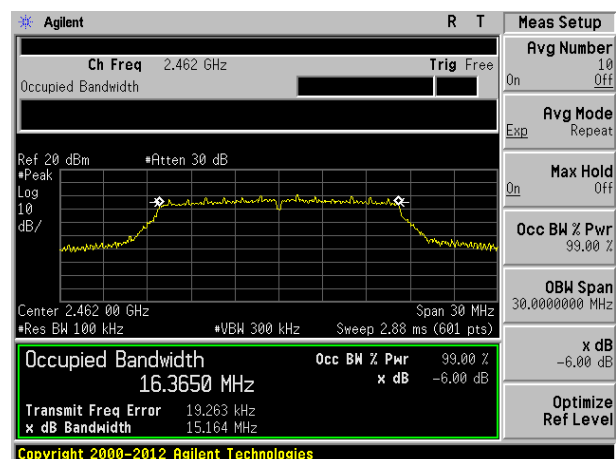
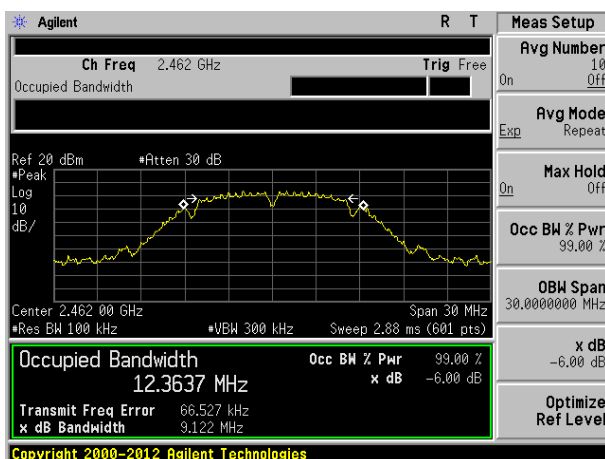
Test mode:	802.11b	Test mode:	802.11g
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Lowest channel

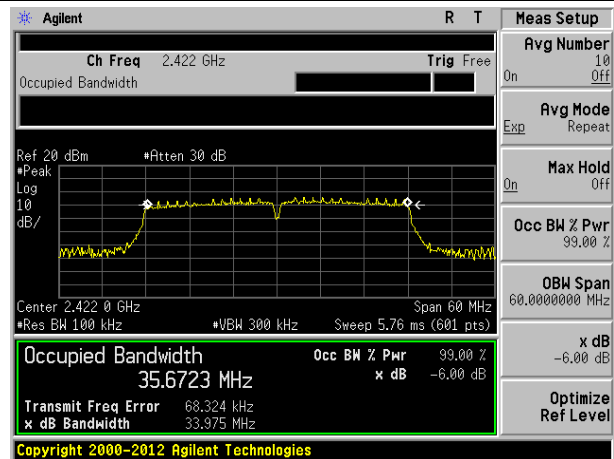
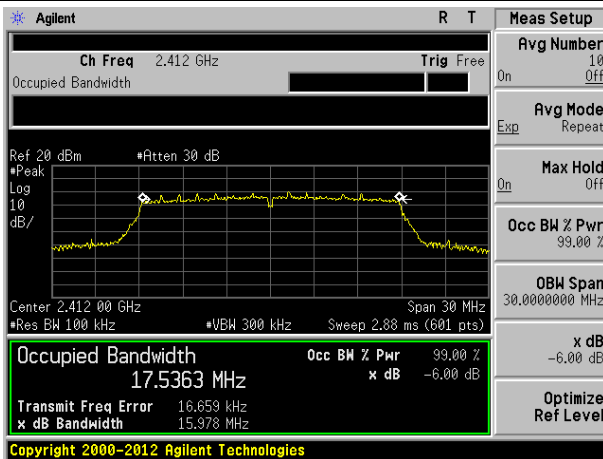


Middle channel

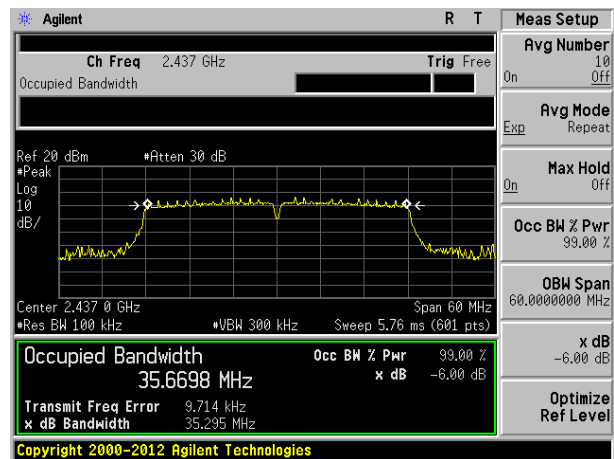
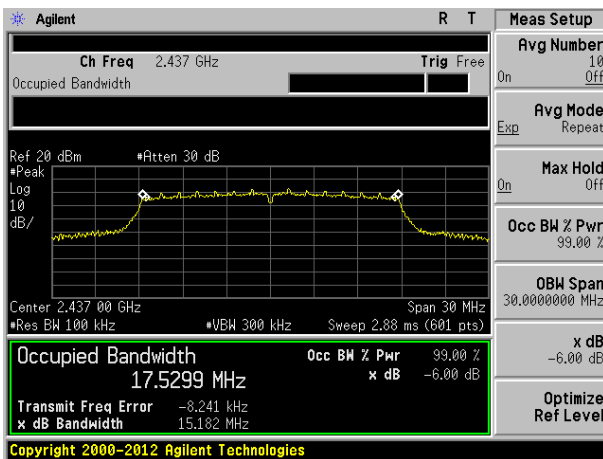


Highest channel

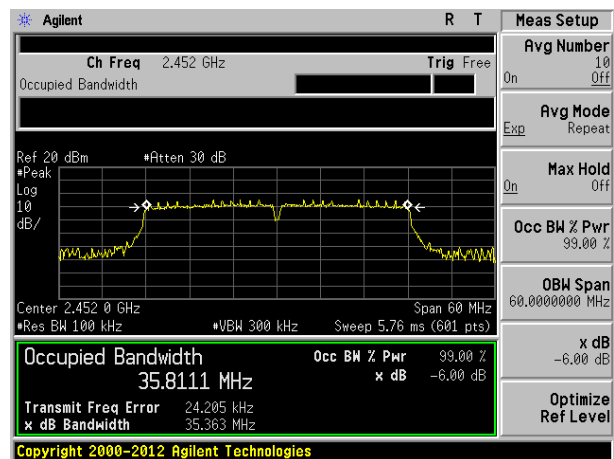
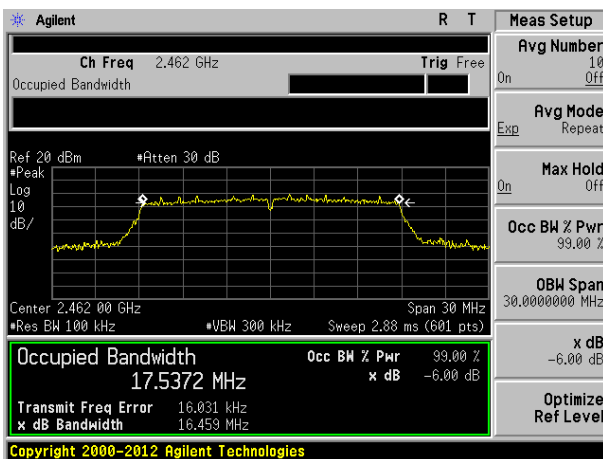
Test mode:	802.11n(HT20)	Test mode:	802.11n(HT40)
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Lowest channel

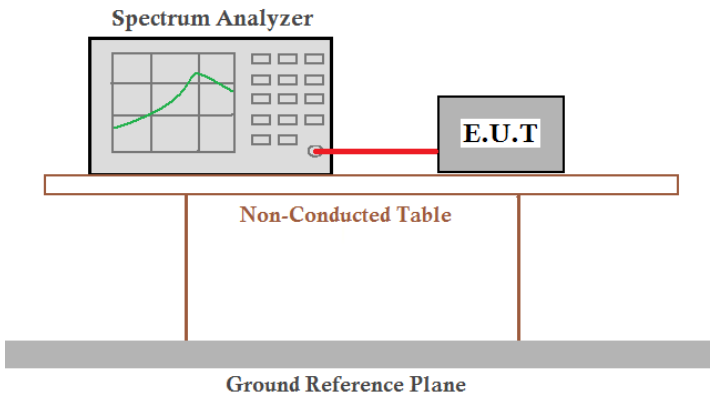


Middle channel



Highest channel

7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB558074 D01 DTS Meas Guidance V05r02
Limit:	8dBm/3kHz
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. Below the table is 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

ANT 1:

Test CH	Power Spectral Density (dBm/3kHz)				Limit (dBm/3kHz)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	-9.38	-14.99	-12.72	-18.81	8.00	Pass
Middle	-10.20	-13.74	-12.44	-18.26		
Highest	-7.18	-13.57	-15.00	-19.08		

ANT 2:

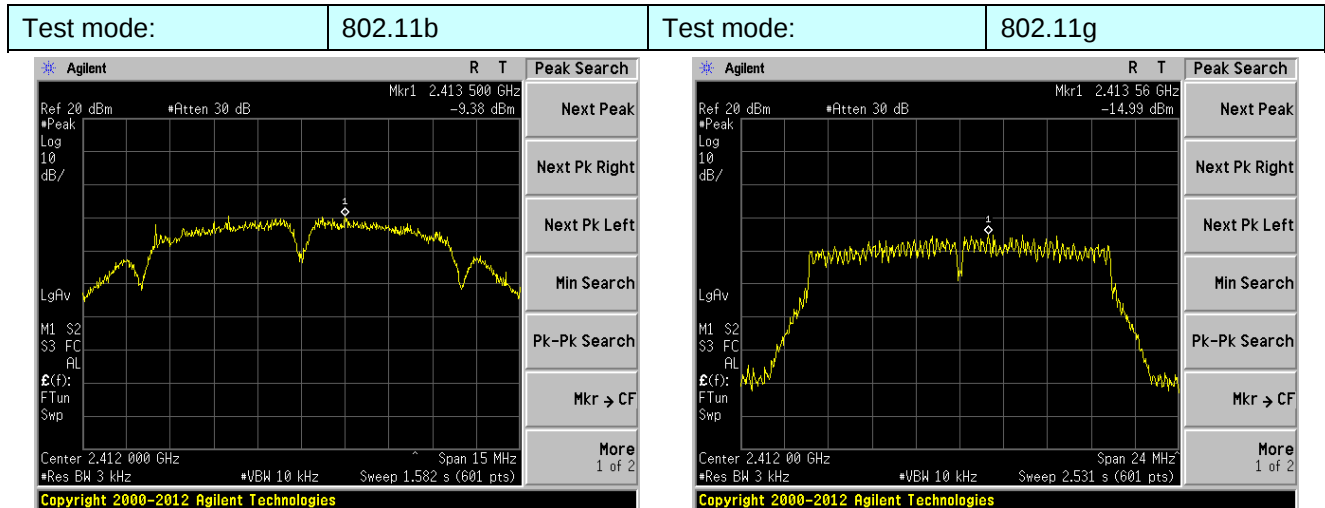
Test CH	Power Spectral Density (dBm/3kHz)				Limit (dBm/3kHz)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	-9.38	-15.04	-14.78	-19.06	8.00	Pass
Middle	-9.79	-12.99	-12.25	-19.19		
Highest	-10.45	-13.88	-15.09	-19.76		

MIMO:

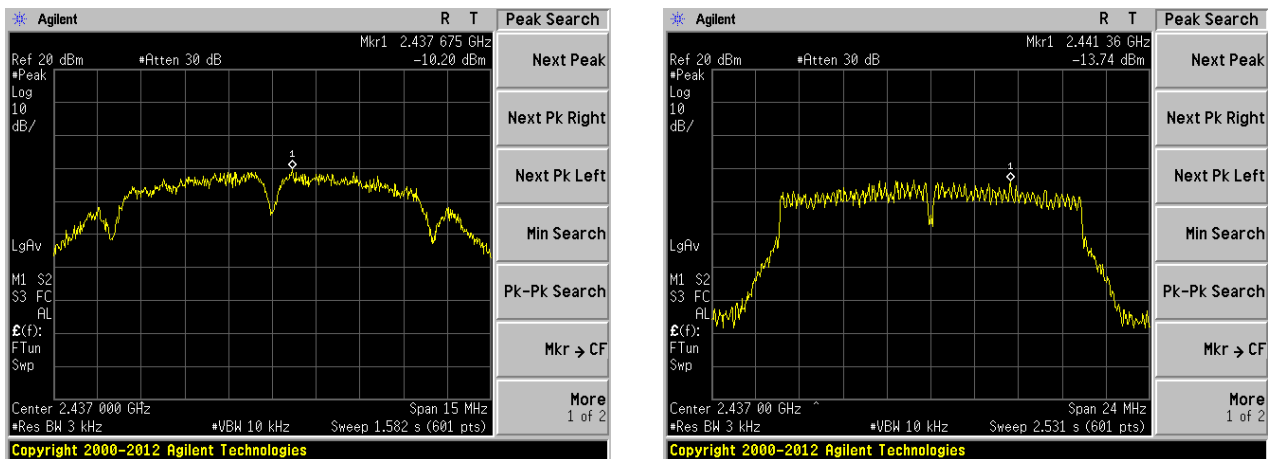
Modulation	Test CH	Power Spectral Density (dBm)		Sum Output (dBm)	Limit (dBm/3kHz)	Result
802.11n(HT20)	Lowest	ANT 1	-12.72	-11.68	8	Pass
		ANT 2	-18.81			
	Middle	ANT 1	-12.44	-11.34		
		ANT 2	-18.26			
	Highest	ANT 1	-15.00	-13.48		
		ANT 2	-19.08			
802.11n(HT40)	Lowest	ANT 1	-14.78	-13.31	8	Pass
		ANT 2	-19.06			
	Middle	ANT 1	-12.25	-11.36		
		ANT 2	-19.19			
	Highest	ANT 1	-15.09	-13.73		
		ANT 2	-19.76			

Test plot as follows:

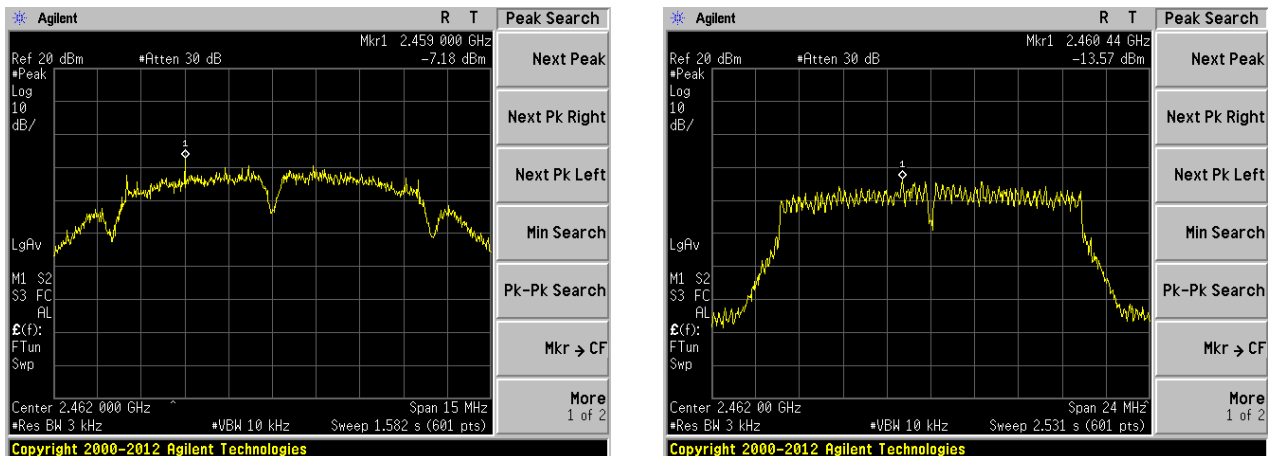
ANT 1:



Lowest channel

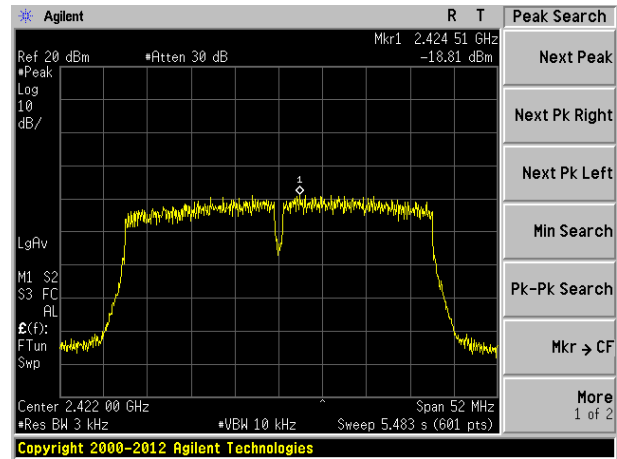
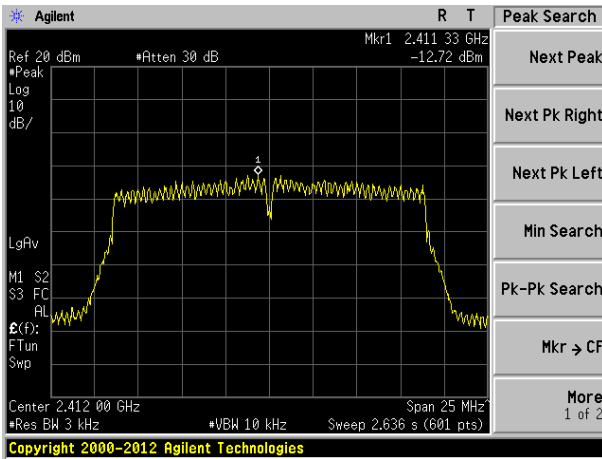


Middle channel

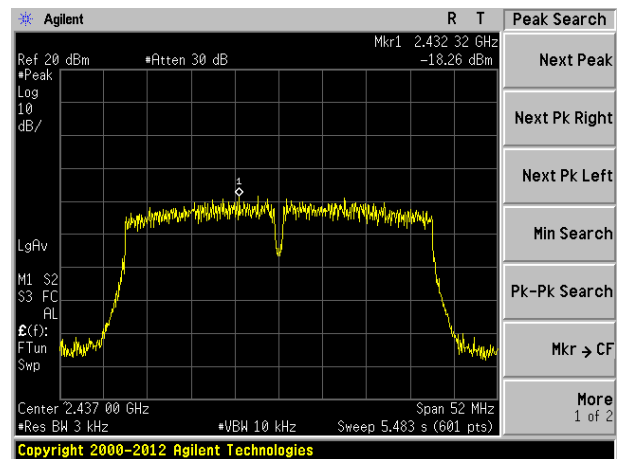
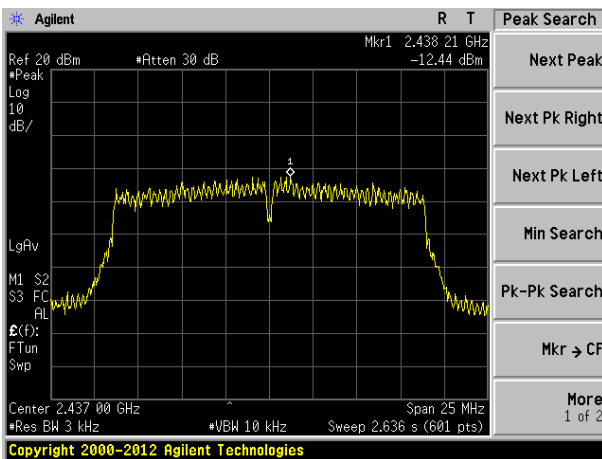


Highest channel

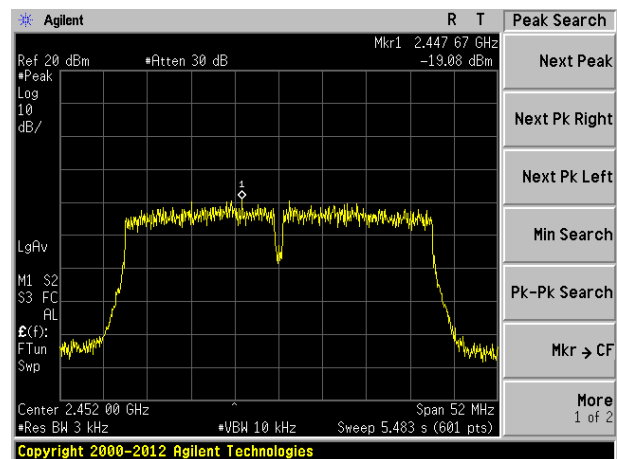
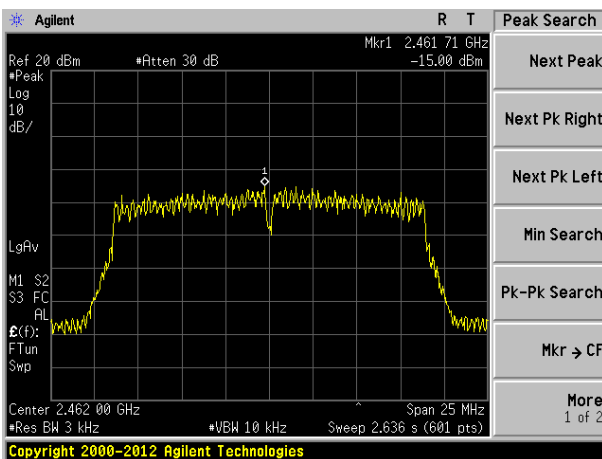
Test mode:	802.11n(HT20)	Test mode:	802.11n(HT40)
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Lowest channel



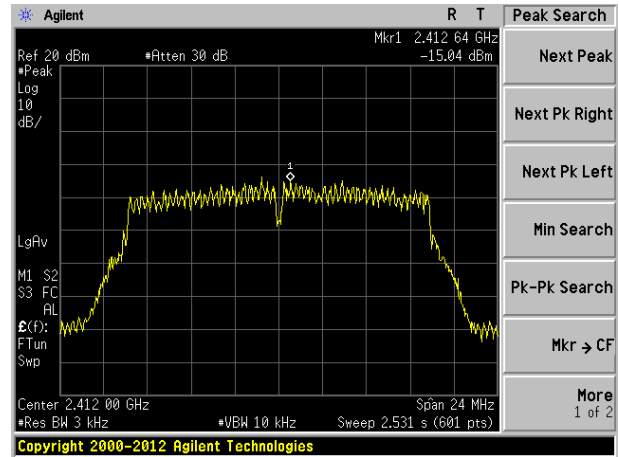
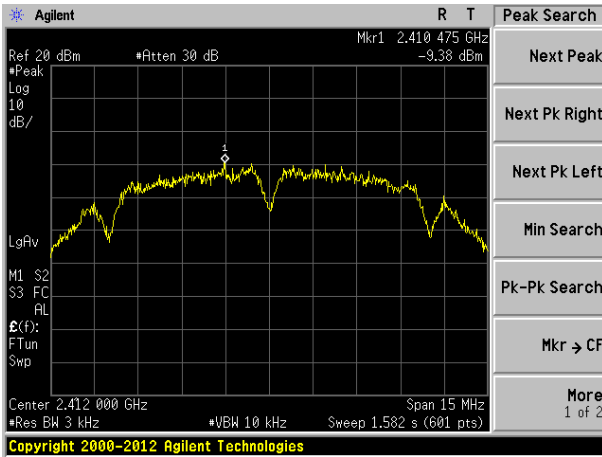
Middle channel



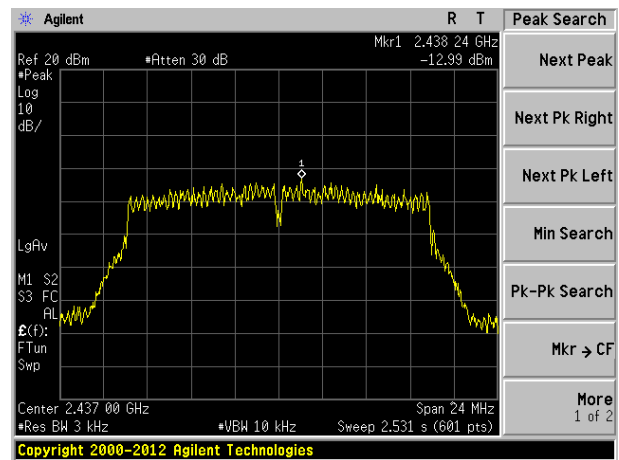
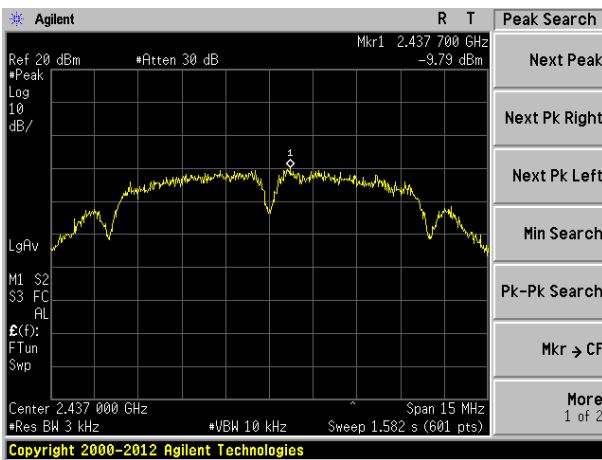
Highest channel

ANT 2:

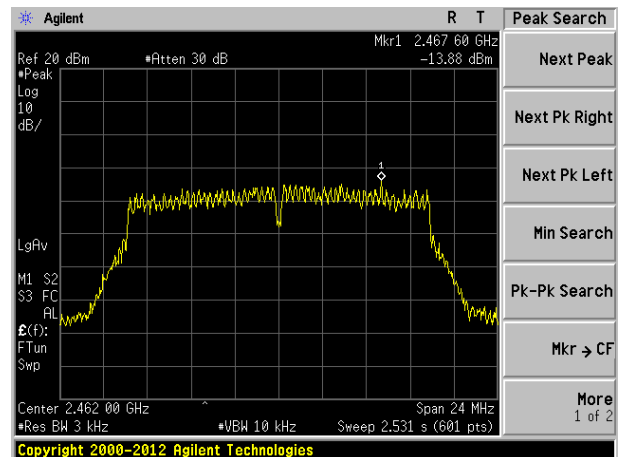
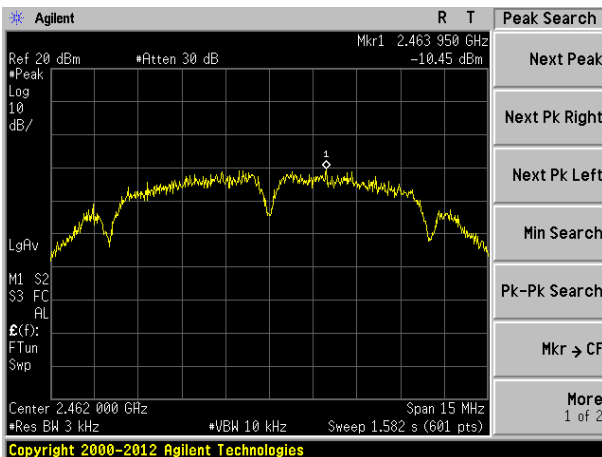
Test mode:	802.11b	Test mode:	802.11g
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Lowest channel

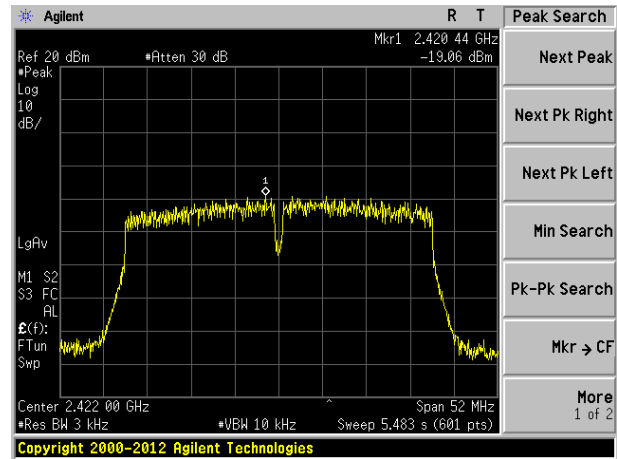
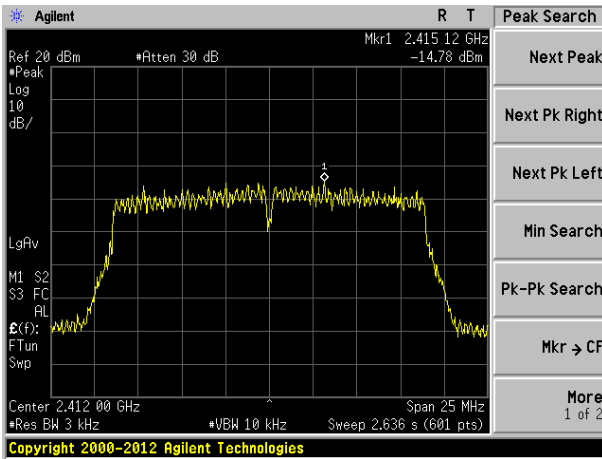


Middle channel

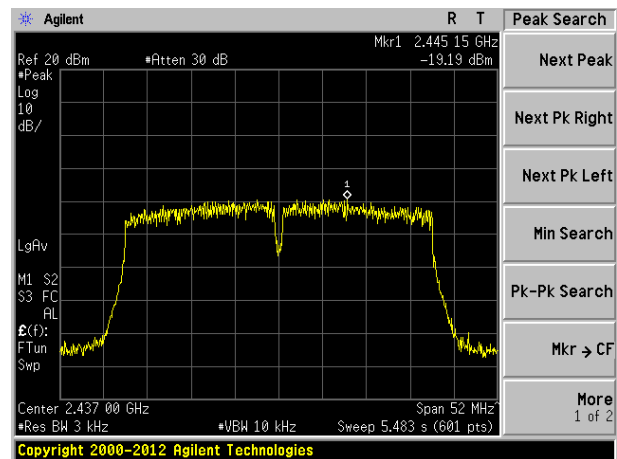
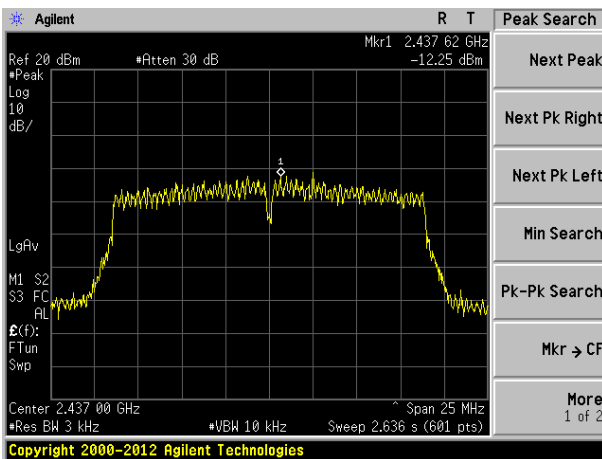


Highest channel

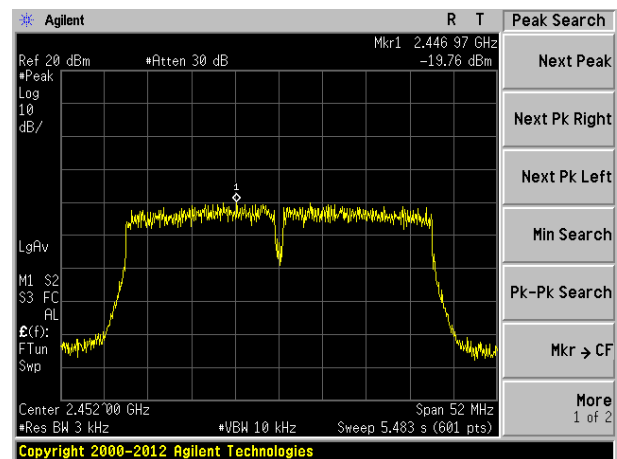
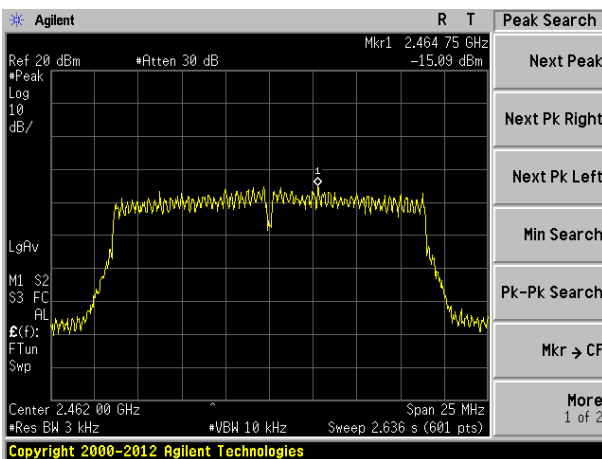
Test mode:	802.11n(HT20)	Test mode:	802.11n(HT40)
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Lowest channel



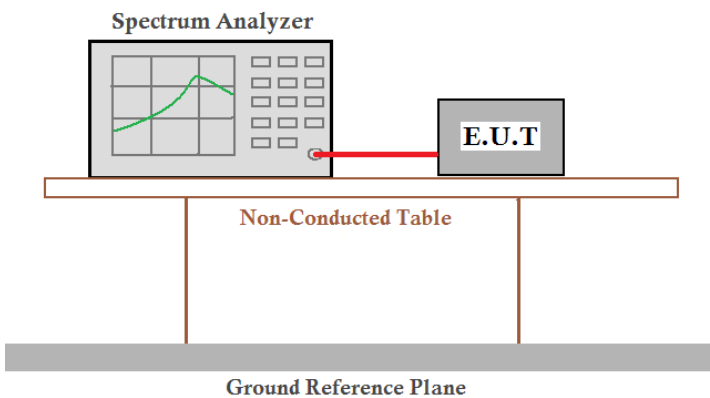
Middle channel



Highest channel

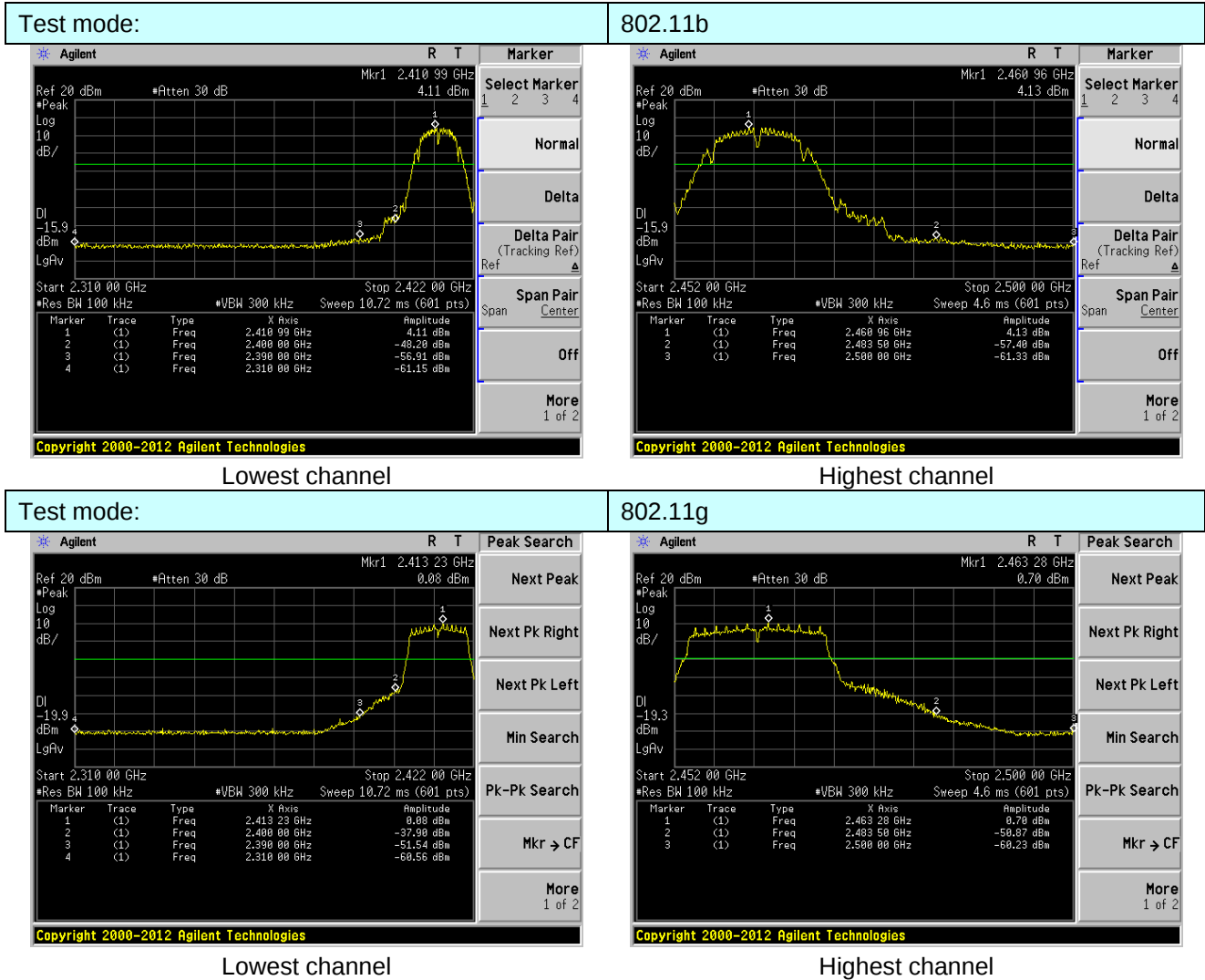
7.6 Band edges

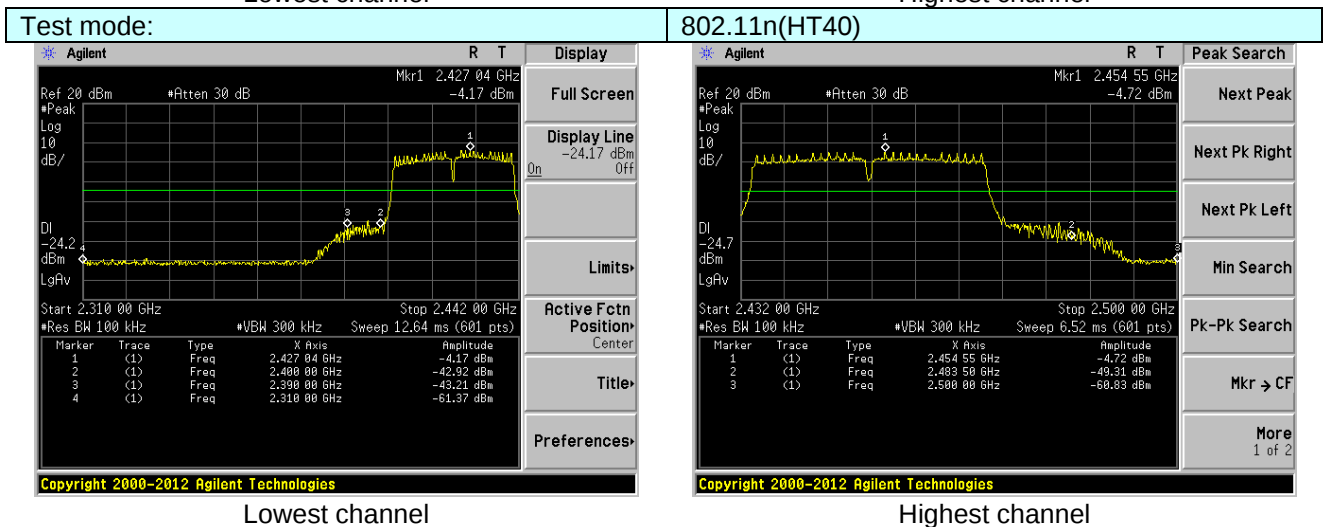
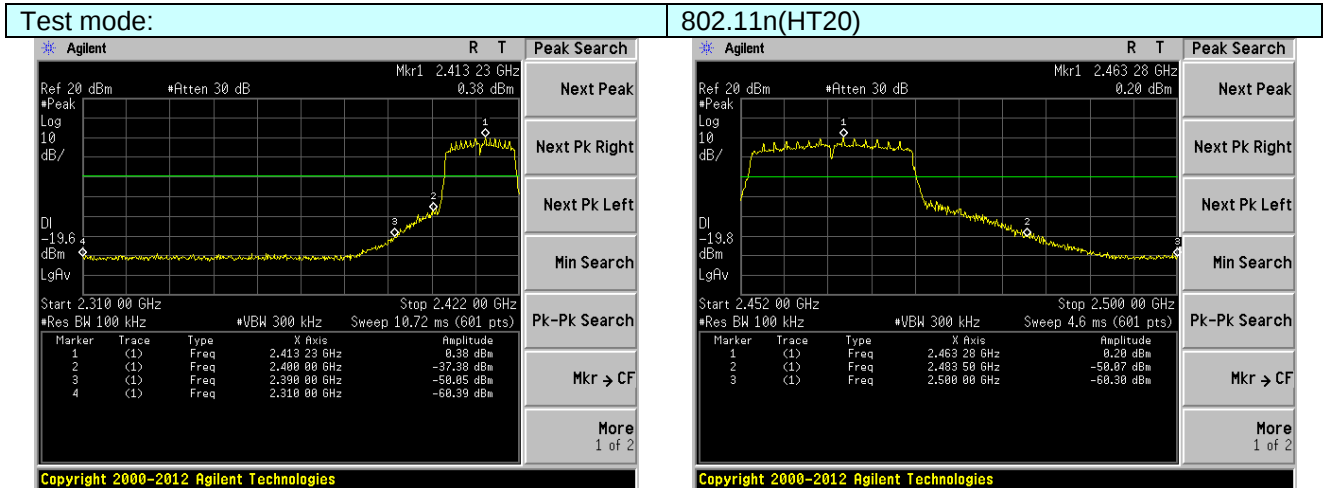
7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074 D01 DTS Meas Guidance V05r02
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:	 The diagram illustrates the test setup for conducted emission measurement. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table, which is supported by two vertical legs. Below the table is a Ground Reference Plane, represented by a thick grey bar.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

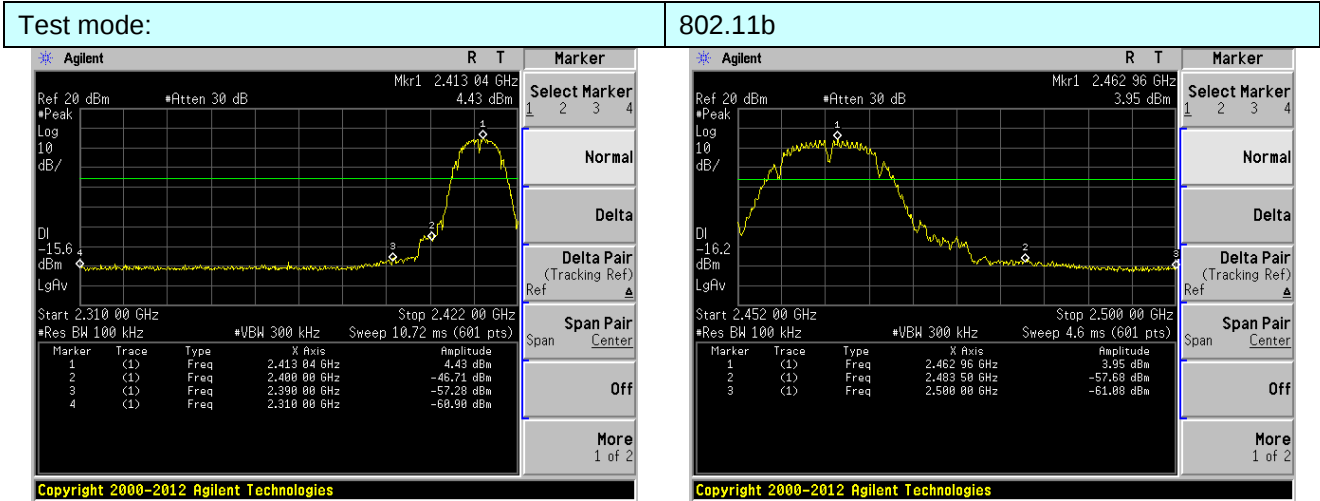
Test plot as follows:

ANT 1:



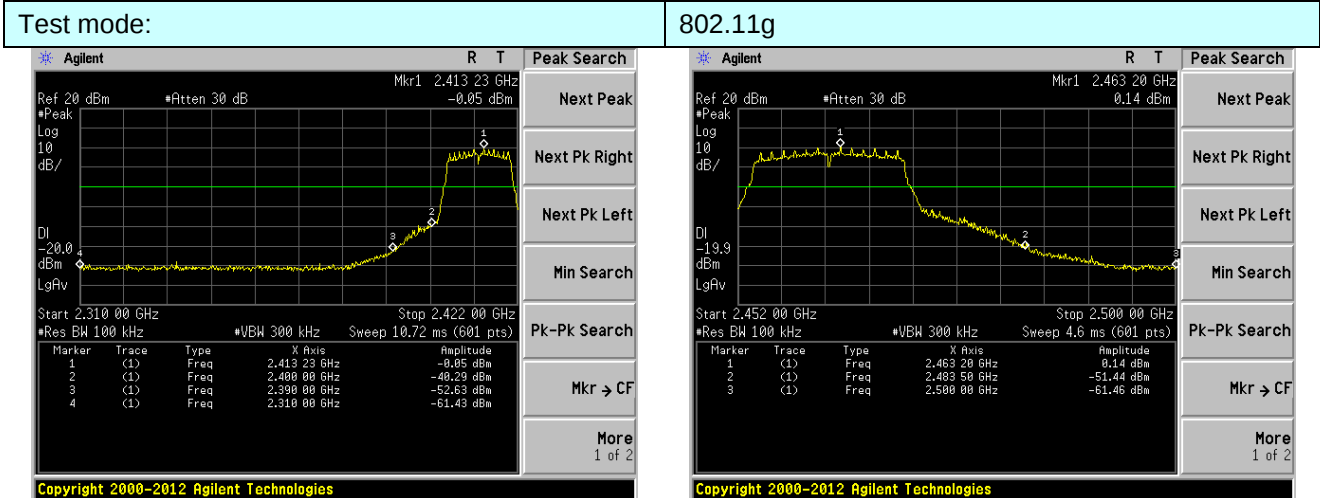


ANT 2:



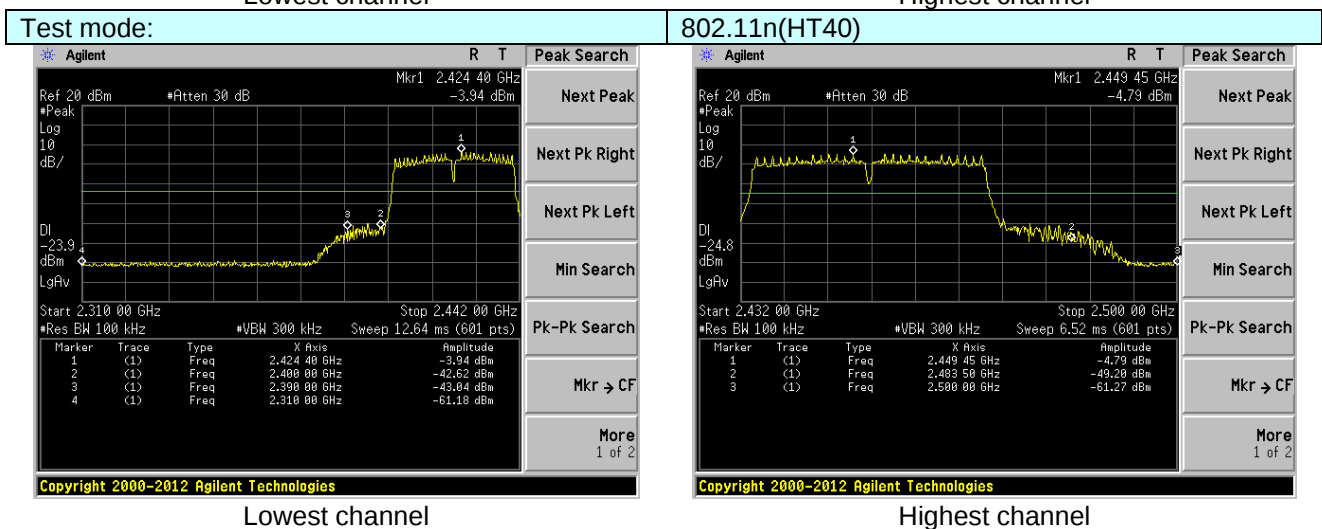
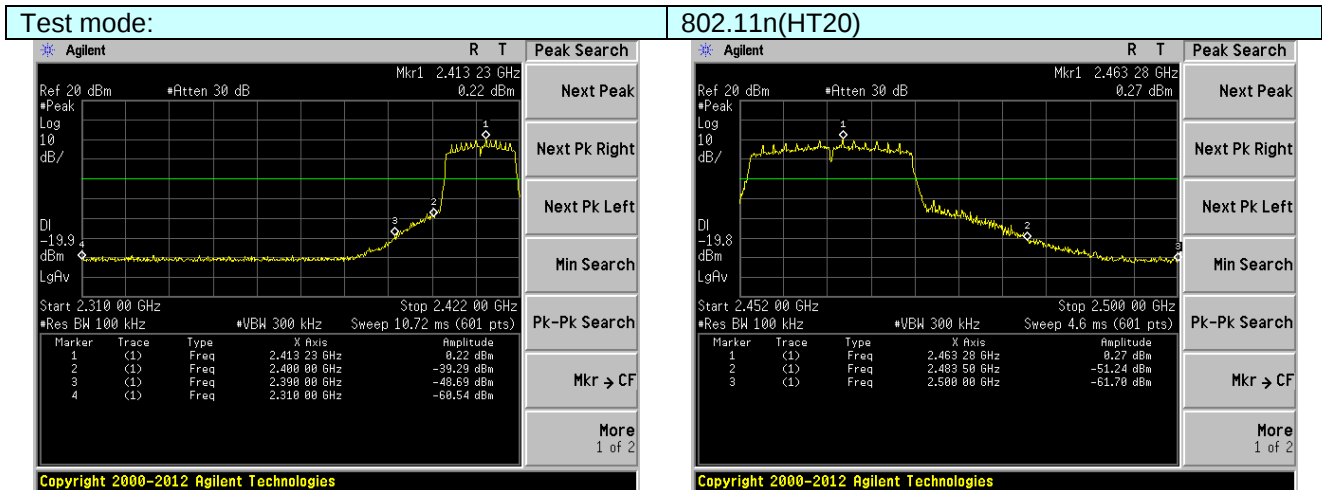
Lowest channel

Highest channel

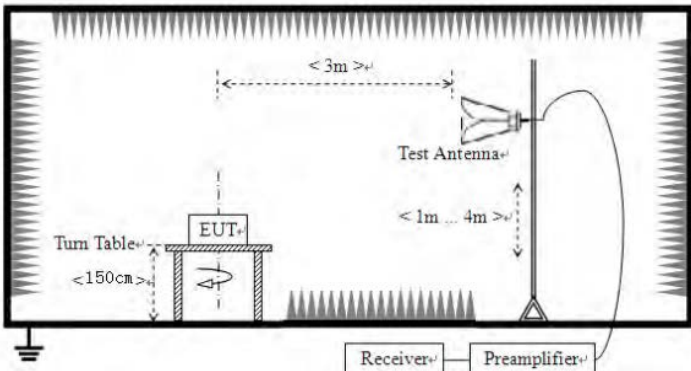


Lowest channel

Highest channel



7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Average	1MHz	3MHz	Average
Limit:	Frequency		Limit (dBuV/m @3m)		Value
	Above 1GHz		54.00		Average
			74.00		Peak
Test setup:					
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.2 for details				
Test voltage:	AC 120V, 60Hz				
Test results:	Pass				

Measurement data:

Test mode:	802.11b	Test channel:	Lowest
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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
2310.00	39.97	27.14	6.19	42.04	31.26	74.00	-42.74	Horizontal
2390.00	48.43	27.37	6.31	42.11	40.00	74.00	-34.00	Horizontal
2310.00	38.54	27.14	6.19	42.04	29.83	74.00	-44.17	Vertical
2390.00	49.77	27.37	6.31	42.11	41.34	74.00	-32.66	Vertical

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
2310.00	30.22	27.14	6.19	42.04	21.51	54.00	-32.49	Horizontal
2390.00	37.33	27.37	6.31	42.11	28.90	54.00	-25.10	Horizontal
2310.00	28.90	27.14	6.19	42.04	20.19	54.00	-33.81	Vertical
2390.00	39.33	27.37	6.31	42.11	30.90	54.00	-23.10	Vertical

Test mode:	802.11b	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	48.91	27.66	6.45	42.01	41.01	74.00	-32.99	Horizontal
2500.00	41.28	27.70	6.47	42.00	33.45	74.00	-40.55	Horizontal
2483.50	48.83	27.66	6.45	42.01	40.93	74.00	-33.07	Vertical
2500.00	42.50	27.70	6.47	42.00	34.67	74.00	-39.33	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	37.33	27.66	6.45	42.01	29.43	54.00	-24.57	Horizontal
2500.00	33.75	27.70	6.47	42.00	25.92	54.00	-28.08	Horizontal
2483.50	38.13	27.66	6.45	42.01	30.23	54.00	-23.77	Vertical
2500.00	32.57	27.70	6.47	42.00	24.74	54.00	-29.26	Vertical

Test mode:	802.11g	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	39.92	27.14	6.19	42.04	31.21	74.00	-42.79	Horizontal
2390.00	48.35	27.37	6.31	42.11	39.92	74.00	-34.08	Horizontal
2310.00	38.48	27.14	6.19	42.04	29.77	74.00	-44.23	Vertical
2390.00	49.68	27.37	6.31	42.11	41.25	74.00	-32.75	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
2310.00	30.18	27.14	6.19	42.04	21.47	54.00	-32.53	Horizontal
2390.00	37.29	27.37	6.31	42.11	28.86	54.00	-25.14	Horizontal
2310.00	28.86	27.14	6.19	42.04	20.15	54.00	-33.85	Vertical
2390.00	39.28	27.37	6.31	42.11	30.85	54.00	-23.15	Vertical

Test mode:	802.11g	Test channel:	Highest
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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
2483.50	48.83	27.66	6.45	42.01	40.93	74.00	-33.07	Horizontal
2500.00	41.21	27.70	6.47	42.00	33.38	74.00	-40.62	Horizontal
2483.50	48.74	27.66	6.45	42.01	40.84	74.00	-33.16	Vertical
2500.00	42.43	27.70	6.47	42.00	34.60	74.00	-39.40	Vertical

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
2483.50	37.28	27.66	6.45	42.01	29.38	54.00	-24.62	Horizontal
2500.00	33.71	27.70	6.47	42.00	25.88	54.00	-28.12	Horizontal
2483.50	38.07	27.66	6.45	42.01	30.17	54.00	-23.83	Vertical
2500.00	32.53	27.70	6.47	42.00	24.70	54.00	-29.30	Vertical

Test mode:	802.11n(HT20)	Test channel:	Lowest
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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
2310.00	40.46	27.14	6.19	42.04	31.75	74.00	-42.25	Horizontal
2390.00	49.07	27.37	6.31	42.11	40.64	74.00	-33.36	Horizontal
2310.00	39.06	27.14	6.19	42.04	30.35	74.00	-43.65	Vertical
2390.00	50.55	27.37	6.31	42.11	42.12	74.00	-31.88	Vertical

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
2310.00	30.56	27.14	6.19	42.04	21.85	54.00	-32.15	Horizontal
2390.00	37.73	27.37	6.31	42.11	29.30	54.00	-24.70	Horizontal
2310.00	29.29	27.14	6.19	42.04	20.58	54.00	-33.42	Vertical
2390.00	39.76	27.37	6.31	42.11	31.33	54.00	-22.67	Vertical

Test mode:	802.11n(HT20)	Test channel:	Highest
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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	49.60	27.66	6.45	42.01	41.70	74.00	-32.30	Horizontal
2500.00	41.81	27.70	6.47	42.00	33.98	74.00	-40.02	Horizontal
2483.50	49.62	27.66	6.45	42.01	41.72	74.00	-32.28	Vertical
2500.00	43.13	27.70	6.47	42.00	35.30	74.00	-38.70	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	37.75	27.66	6.45	42.01	29.85	54.00	-24.15	Horizontal
2500.00	34.08	27.70	6.47	42.00	26.25	54.00	-27.75	Horizontal
2483.50	38.59	27.66	6.45	42.01	30.69	54.00	-23.31	Vertical
2500.00	32.91	27.70	6.47	42.00	25.08	54.00	-28.92	Vertical

Test mode:	802.11n(HT40)	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	40.22	27.14	6.19	42.04	31.51	74.00	-42.49	Horizontal
2390.00	48.76	27.37	6.31	42.11	40.33	74.00	-33.67	Horizontal
2310.00	38.81	27.14	6.19	42.04	30.10	74.00	-43.90	Vertical
2390.00	50.17	27.37	6.31	42.11	41.74	74.00	-32.26	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
2310.00	30.40	27.14	6.19	42.04	21.69	54.00	-32.31	Horizontal
2390.00	37.53	27.37	6.31	42.11	29.10	54.00	-24.90	Horizontal
2310.00	29.10	27.14	6.19	42.04	20.39	54.00	-33.61	Vertical
2390.00	39.55	27.37	6.31	42.11	31.12	54.00	-22.88	Vertical

Test mode:	802.11n(HT40)	Test channel:	Highest
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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	49.27	27.66	6.45	42.01	41.37	74.00	-32.63	Horizontal
2500.00	41.55	27.70	6.47	42.00	33.72	74.00	-40.28	Horizontal
2483.50	49.23	27.66	6.45	42.01	41.33	74.00	-32.67	Vertical
2500.00	42.82	27.70	6.47	42.00	34.99	74.00	-39.01	Vertical

Average value:

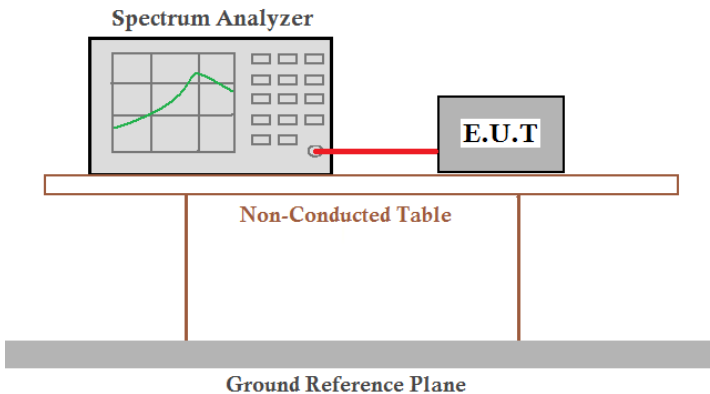
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	37.54	27.66	6.45	42.01	29.64	54.00	-24.36	Horizontal
2500.00	33.92	27.70	6.47	42.00	26.09	54.00	-27.91	Horizontal
2483.50	38.36	27.66	6.45	42.01	30.46	54.00	-23.54	Vertical
2500.00	32.74	27.70	6.47	42.00	24.91	54.00	-29.09	Vertical

Notes:

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.

7.7 Spurious Emission

7.7.1 Conducted Emission Method

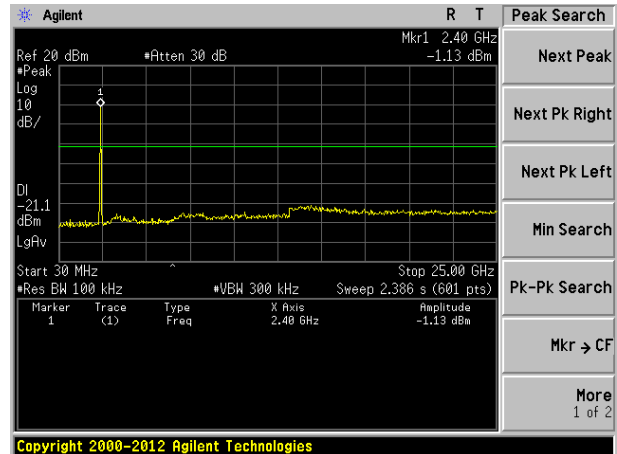
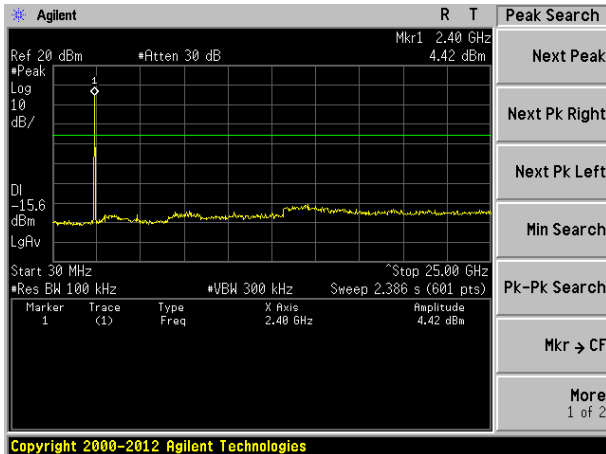
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074 D01 DTS Meas Guidance V05r02
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall 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:	 The diagram illustrates the test setup for conducted emission measurement. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table, which is supported by two vertical legs. Below the table is a Ground Reference Plane, represented by a thick grey bar.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Test plot as follows:

ANT 1:

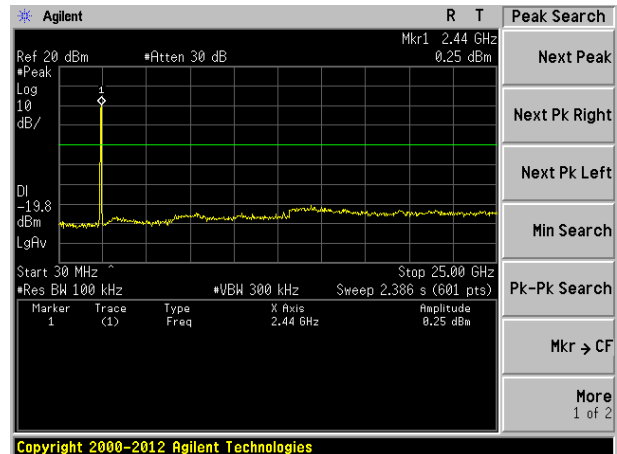
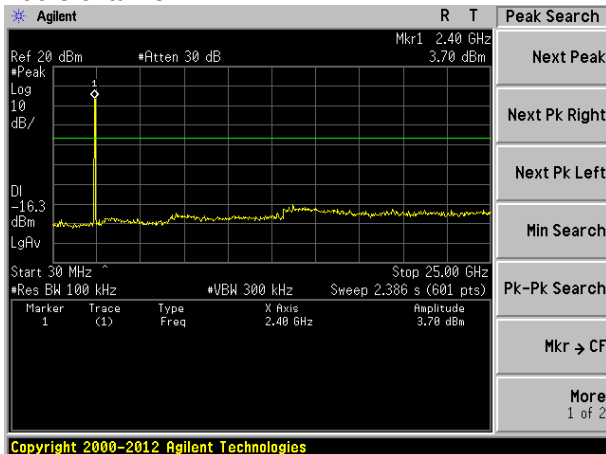
Test mode:	802.11b	Test mode:	802.11g
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Lowest channel



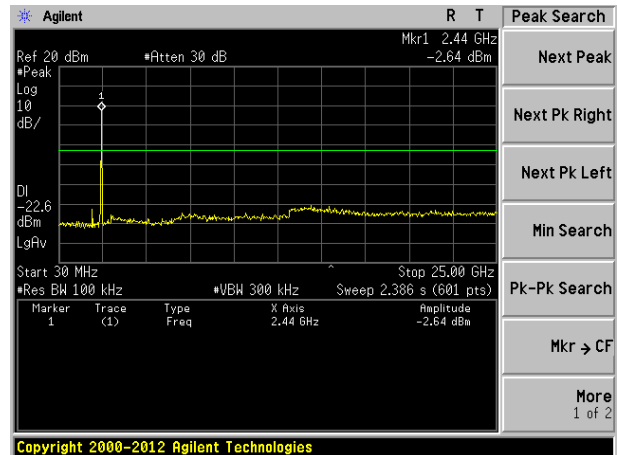
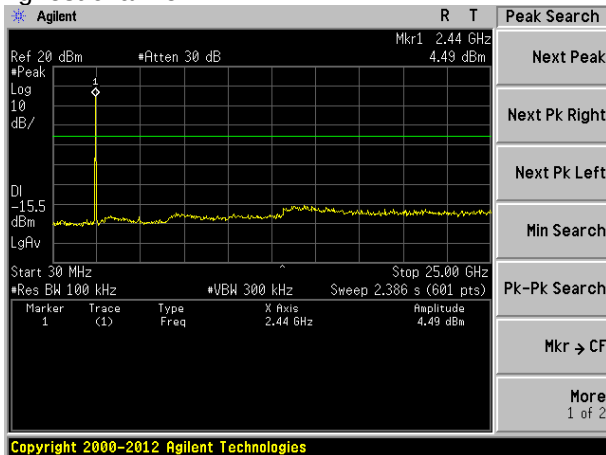
30MHz~25GHz

Middle channel



30MHz~25GHz

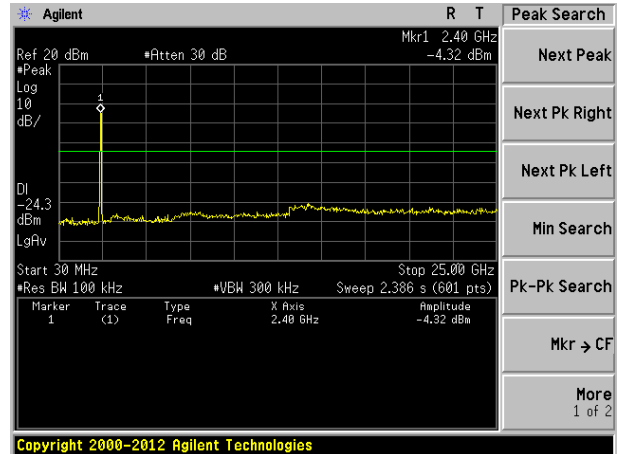
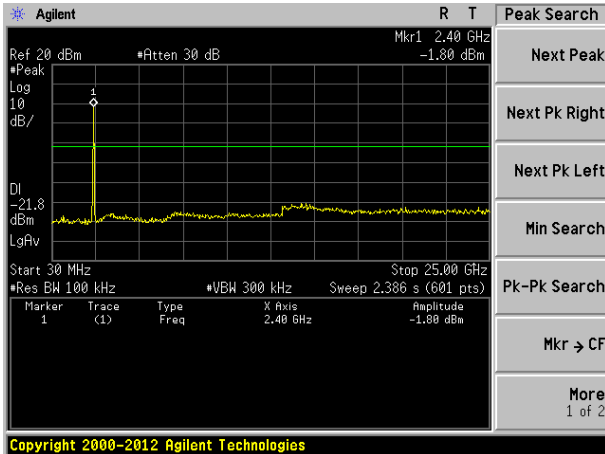
Highest channel



30MHz~25GHz

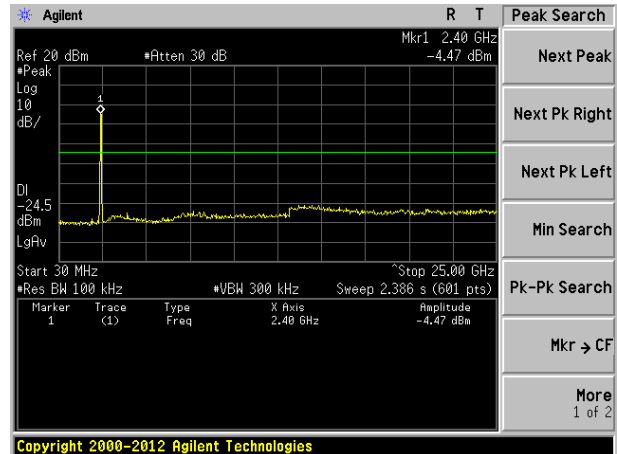
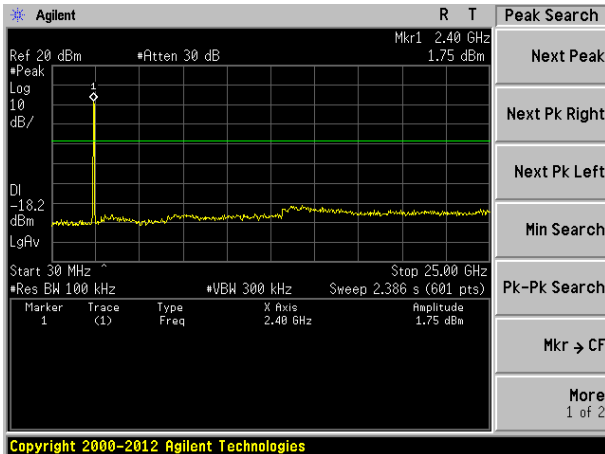
Test mode:	802.11n(HT20)	Test mode:	802.11n(HT40)
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Lowest channel



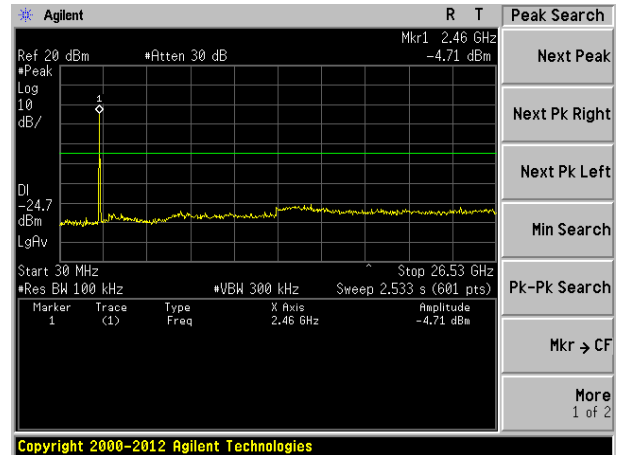
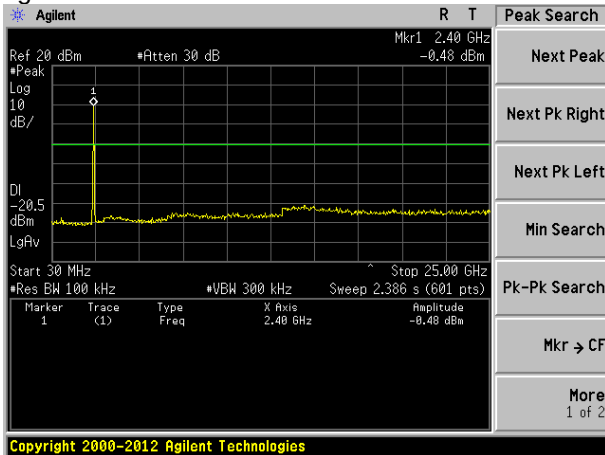
30MHz~25GHz

Middle channel



30MHz~25GHz

Highest channel

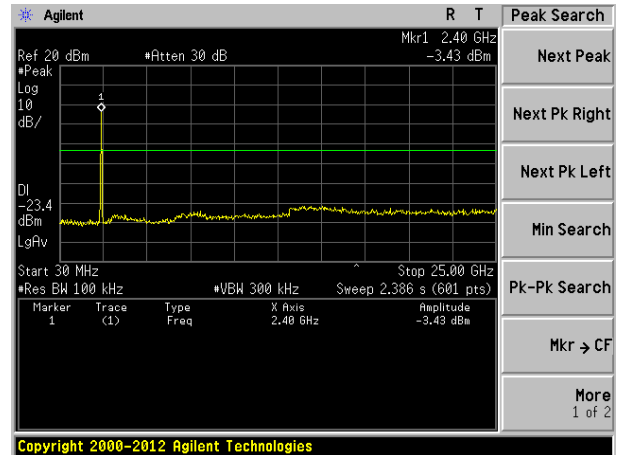
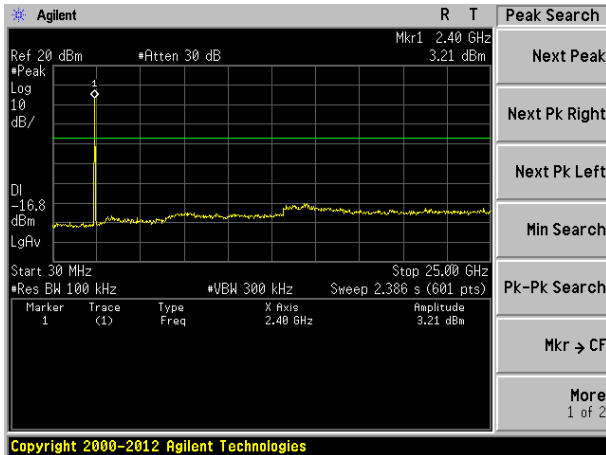


30MHz~25GHz

ANT 2:

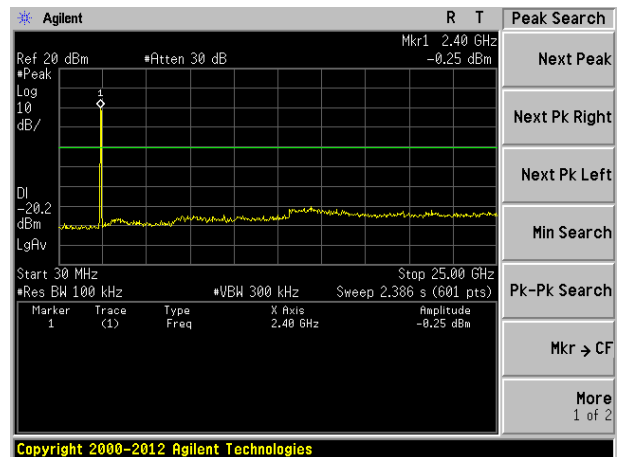
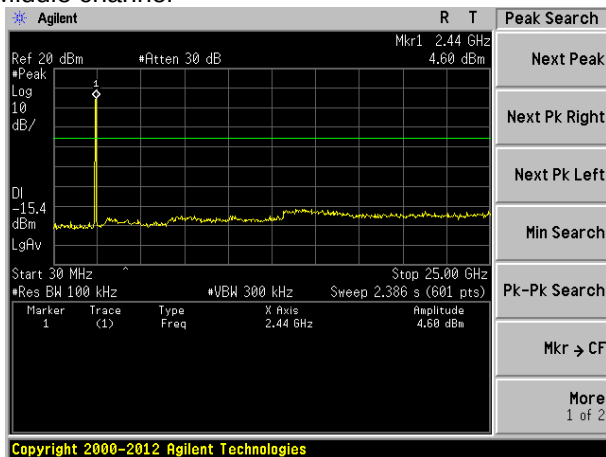
Test mode:	802.11b	Test mode:	802.11g
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Lowest channel



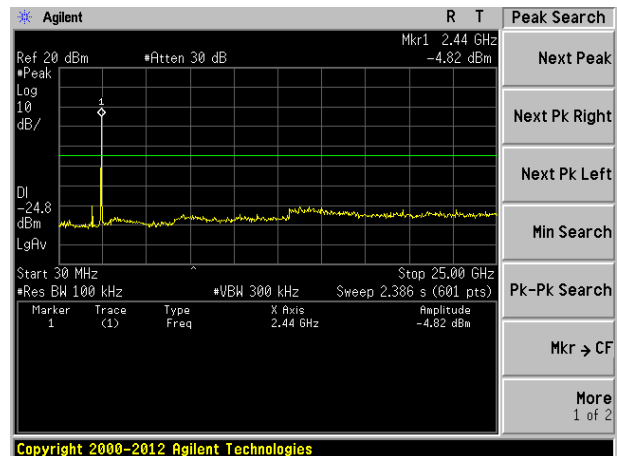
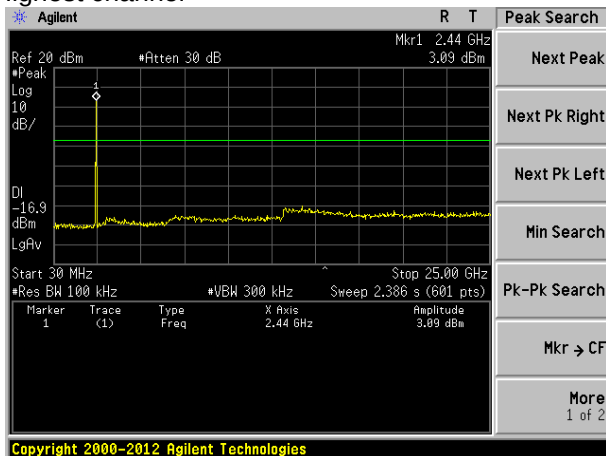
30MHz~25GHz

Middle channel



30MHz~25GHz

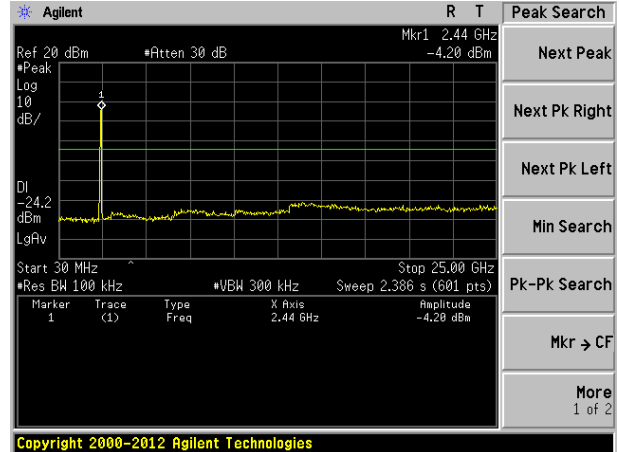
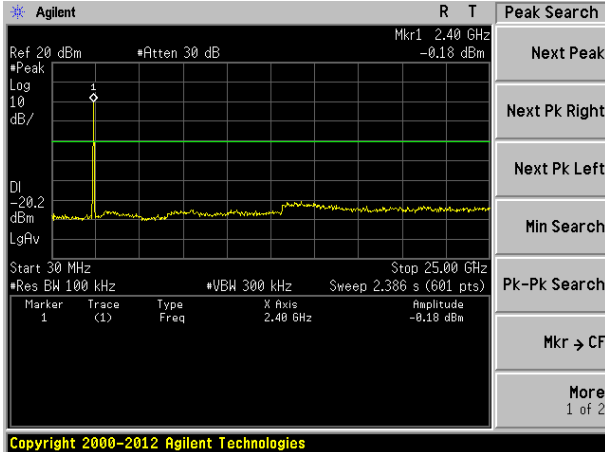
Highest channel



30MHz~25GHz

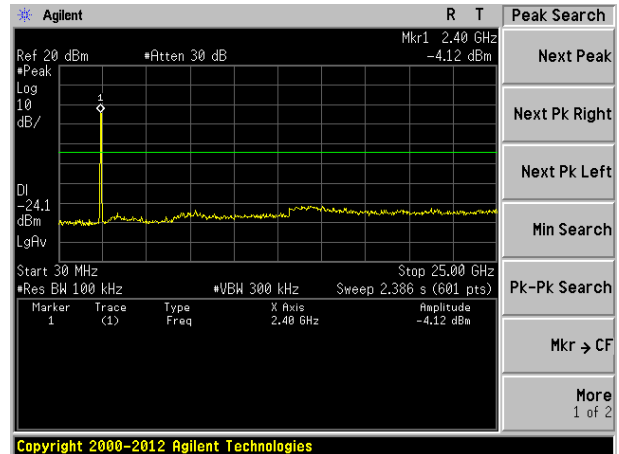
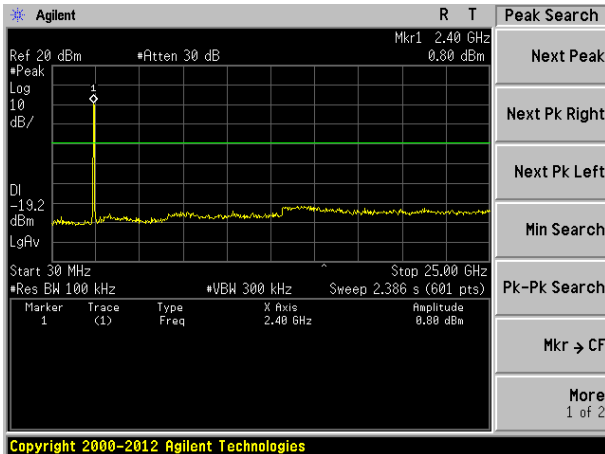
Test mode:	802.11n(HT20)	Test mode:	802.11n(HT40)
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Lowest channel



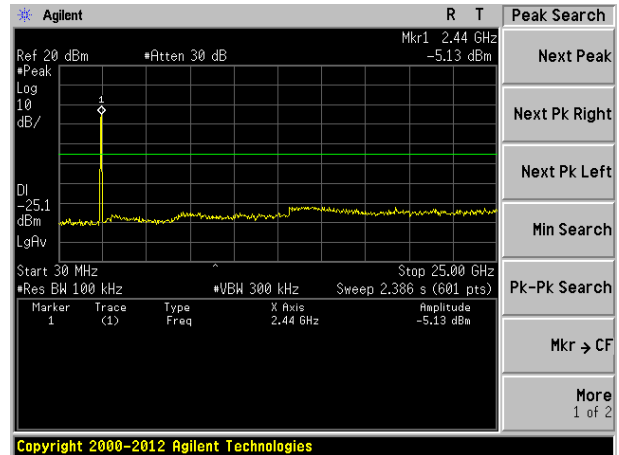
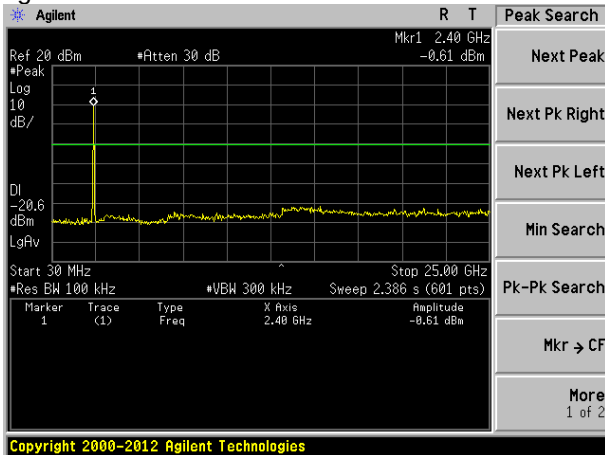
30MHz~25GHz

Middle channel



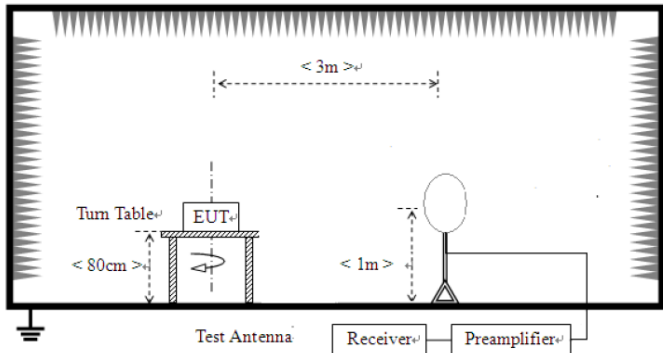
30MHz~25GHz

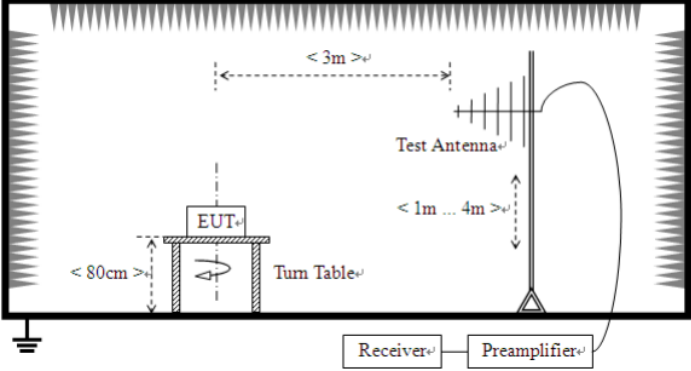
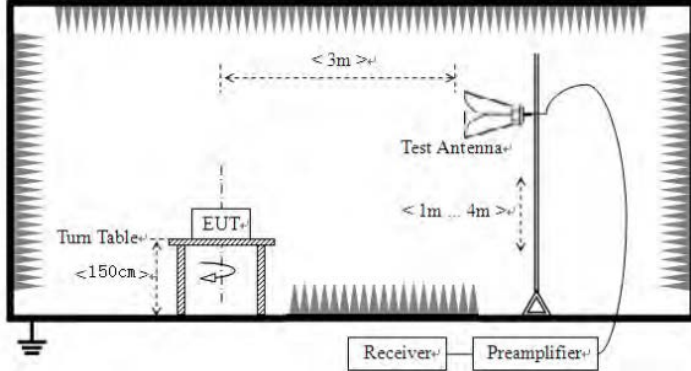
Highest channel



30MHz~25GHz

7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
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	30m
	1.705MHz-30MHz	30		QP	30m
	30MHz-88MHz	100		QP	3m
	88MHz-216MHz	150		QP	
	216MHz-960MHz	200		QP	
	960MHz-1GHz	500		QP	
	Above 1GHz	500		Average	
		5000		Peak	
Test setup:	For radiated emissions from 9kHz to 30MHz				
					
	For radiated emissions from 30MHz to 1GHz				

	 For radiated emissions above 1GHz 
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

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.

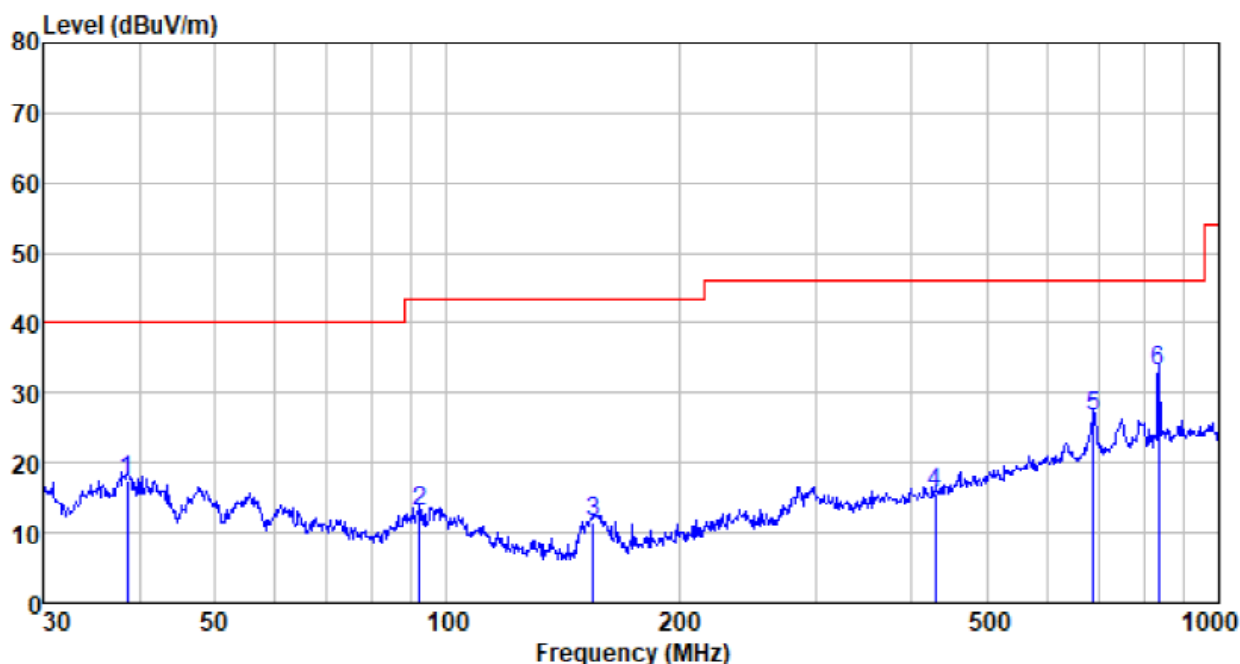
Measurement data:

■ 9kHz~30MHz

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.

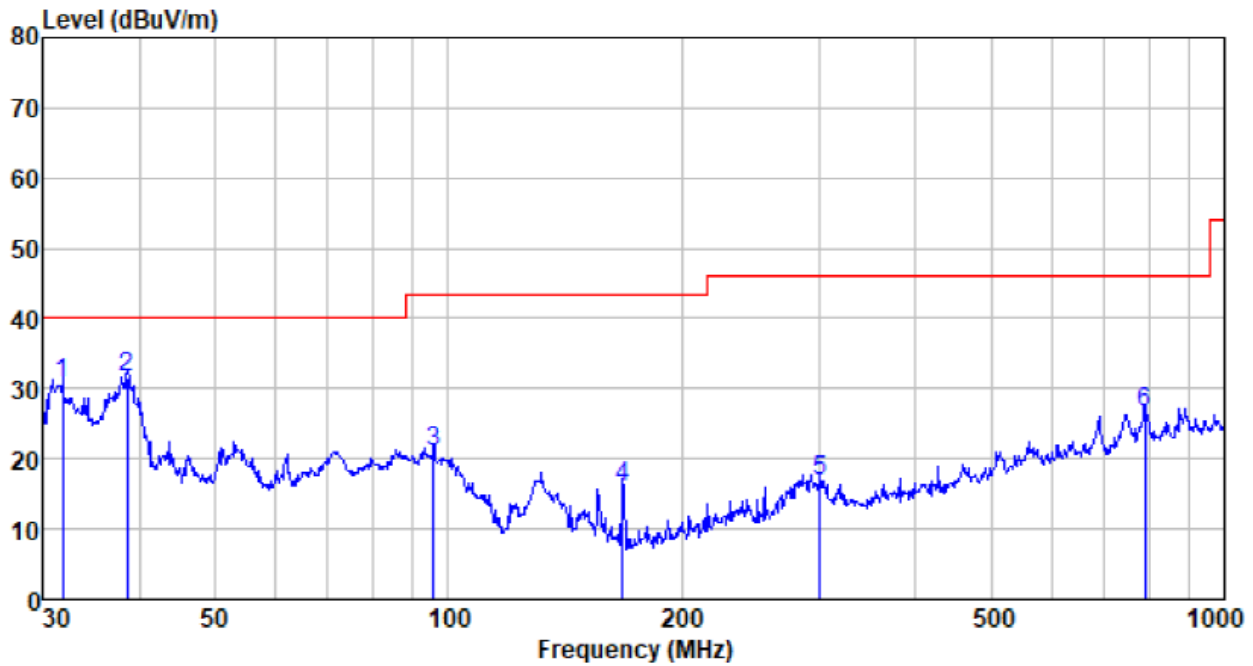
■ Below 1GHz

Horizontal:



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
38.616	40.48	11.98	0.65	35.58	17.53	40.00	-22.47	QP
92.139	37.35	11.04	1.13	36.66	12.86	43.50	-30.64	QP
154.821	39.02	7.95	1.60	37.10	11.47	43.50	-32.03	QP
429.523	34.31	15.95	2.99	37.52	15.73	46.00	-30.27	QP
687.151	40.69	19.59	4.05	37.62	26.71	46.00	-19.29	QP
836.244	44.26	21.75	4.60	37.61	33.00	46.00	-13.00	QP

Vertical:



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
31.843	53.95	11.24	0.57	35.14	30.62	40.00	-9.38	QP
38.616	54.59	11.98	0.65	35.58	31.64	40.00	-8.36	QP
95.762	45.00	11.59	1.16	36.69	21.06	43.50	-22.44	QP
167.824	43.11	8.46	1.67	37.18	16.06	43.50	-27.44	QP
301.422	38.37	13.63	2.37	37.42	16.95	46.00	-29.05	QP
790.619	38.71	21.21	4.42	37.62	26.72	46.00	-19.28	QP

■ Above 1GHz

Test mode:	802.11b	Test channel:	Lowest
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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	38.79	31.79	8.62	32.10	47.10	74.00	-26.90	Vertical
7236.00	33.27	36.19	11.68	31.97	49.17	74.00	-24.83	Vertical
9648.00	32.04	38.07	14.16	31.56	52.71	74.00	-21.29	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	37.69	31.79	8.62	32.10	46.00	74.00	-28.00	Horizontal
7236.00	33.14	36.19	11.68	31.97	49.04	74.00	-24.96	Horizontal
9648.00	31.67	38.07	14.16	31.56	52.34	74.00	-21.66	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	27.99	31.79	8.62	32.10	36.30	54.00	-17.70	Vertical
7236.00	22.17	36.19	11.68	31.97	38.07	54.00	-15.93	Vertical
9648.00	22.41	38.07	14.16	31.56	43.08	54.00	-10.92	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	27.31	31.79	8.62	32.10	35.62	54.00	-18.38	Horizontal
7236.00	21.74	36.19	11.68	31.97	37.64	54.00	-16.36	Horizontal
9648.00	21.44	38.07	14.16	31.56	42.11	54.00	-11.89	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Notes:

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:	802.11b	Test channel:	Middle
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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	38.11	31.85	8.66	32.12	46.50	74.00	-27.50	Vertical
7311.00	33.50	36.37	11.71	31.91	49.67	74.00	-24.33	Vertical
9748.00	33.17	38.27	14.25	31.56	54.13	74.00	-19.87	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	38.78	31.85	8.66	32.12	47.17	74.00	-26.83	Horizontal
7311.00	32.24	36.37	11.71	31.91	48.41	74.00	-25.59	Horizontal
9748.00	33.10	38.27	14.25	31.56	54.06	74.00	-19.94	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	29.06	31.85	8.66	32.12	37.45	54.00	-16.55	Vertical
7311.00	21.85	36.37	11.71	31.91	38.02	54.00	-15.98	Vertical
9748.00	22.45	38.27	14.25	31.56	43.41	54.00	-10.59	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	28.96	31.85	8.66	32.12	37.35	54.00	-16.65	Horizontal
7311.00	21.35	36.37	11.71	31.91	37.52	54.00	-16.48	Horizontal
9748.00	22.84	38.27	14.25	31.56	43.80	54.00	-10.20	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Notes:

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

Test mode:	802.11b	Test channel:	Highest
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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	42.74	31.90	8.70	32.15	51.19	74.00	-22.81	Vertical
7386.00	33.61	36.49	11.76	31.83	50.03	74.00	-23.97	Vertical
9848.00	36.06	38.62	14.31	31.77	57.22	74.00	-16.78	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	42.38	31.90	8.70	32.15	50.83	74.00	-23.17	Horizontal
7386.00	32.68	36.49	11.76	31.83	49.10	74.00	-24.90	Horizontal
9848.00	32.31	38.62	14.31	31.77	53.47	74.00	-20.53	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	33.82	31.90	8.70	32.15	42.27	54.00	-11.73	Vertical
7386.00	23.57	36.49	11.76	31.83	39.99	54.00	-14.01	Vertical
9848.00	24.60	38.62	14.31	31.77	45.76	54.00	-8.24	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	32.85	31.90	8.70	32.15	41.30	54.00	-12.70	Horizontal
7386.00	22.11	36.49	11.76	31.83	38.53	54.00	-15.47	Horizontal
9848.00	21.60	38.62	14.31	31.77	42.76	54.00	-11.24	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Notes:

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

Test mode:	802.11g	Test channel:	lowest
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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	38.73	31.79	8.62	32.10	47.04	74.00	-26.96	Vertical
7236.00	33.23	36.19	11.68	31.97	49.13	74.00	-24.87	Vertical
9648.00	32.01	38.07	14.16	31.56	52.68	74.00	-21.32	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	37.64	31.79	8.62	32.10	45.95	74.00	-28.05	Horizontal
7236.00	33.10	36.19	11.68	31.97	49.00	74.00	-25.00	Horizontal
9648.00	31.64	38.07	14.16	31.56	52.31	74.00	-21.69	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	27.93	31.79	8.62	32.10	36.24	54.00	-17.76	Vertical
7236.00	22.13	36.19	11.68	31.97	38.03	54.00	-15.97	Vertical
9648.00	22.38	38.07	14.16	31.56	43.05	54.00	-10.95	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	27.26	31.79	8.62	32.10	35.57	54.00	-18.43	Horizontal
7236.00	21.71	36.19	11.68	31.97	37.61	54.00	-16.39	Horizontal
9648.00	21.41	38.07	14.16	31.56	42.08	54.00	-11.92	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Notes:

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

Test mode:	802.11g	Test channel:	Middle
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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	38.06	31.85	8.66	32.12	46.45	74.00	-27.55	Vertical
7311.00	33.47	36.37	11.71	31.91	49.64	74.00	-24.36	Vertical
9748.00	33.15	38.27	14.25	31.56	54.11	74.00	-19.89	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	38.74	31.85	8.66	32.12	47.13	74.00	-26.87	Horizontal
7311.00	32.22	36.37	11.71	31.91	48.39	74.00	-25.61	Horizontal
9748.00	33.08	38.27	14.25	31.56	54.04	74.00	-19.96	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	29.01	31.85	8.66	32.12	37.40	54.00	-16.60	Vertical
7311.00	21.82	36.37	11.71	31.91	37.99	54.00	-16.01	Vertical
9748.00	22.42	38.27	14.25	31.56	43.38	54.00	-10.62	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	28.92	31.85	8.66	32.12	37.31	54.00	-16.69	Horizontal
7311.00	21.32	36.37	11.71	31.91	37.49	54.00	-16.51	Horizontal
9748.00	22.82	38.27	14.25	31.56	43.78	54.00	-10.22	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Notes:

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

Test mode:	802.11g	Test channel:	Highest
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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	42.65	31.90	8.70	32.15	51.10	74.00	-22.90	Vertical
7386.00	33.55	36.49	11.76	31.83	49.97	74.00	-24.03	Vertical
9848.00	36.02	38.62	14.31	31.77	57.18	74.00	-16.82	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	42.30	31.90	8.70	32.15	50.75	74.00	-23.25	Horizontal
7386.00	32.63	36.49	11.76	31.83	49.05	74.00	-24.95	Horizontal
9848.00	32.27	38.62	14.31	31.77	53.43	74.00	-20.57	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	33.74	31.90	8.70	32.15	42.19	54.00	-11.81	Vertical
7386.00	23.52	36.49	11.76	31.83	39.94	54.00	-14.06	Vertical
9848.00	24.56	38.62	14.31	31.77	45.72	54.00	-8.28	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	32.78	31.90	8.70	32.15	41.23	54.00	-12.77	Horizontal
7386.00	22.06	36.49	11.76	31.83	38.48	54.00	-15.52	Horizontal
9848.00	21.56	38.62	14.31	31.77	42.72	54.00	-11.28	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Notes:

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

Test mode:	802.11n(HT20)	Test channel:	Lowest
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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	38.47	31.79	8.62	32.10	46.78	74.00	-27.22	Vertical
7236.00	33.07	36.19	11.68	31.97	48.97	74.00	-25.03	Vertical
9648.00	31.89	38.07	14.16	31.56	52.56	74.00	-21.44	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	37.42	31.79	8.62	32.10	45.73	74.00	-28.27	Horizontal
7236.00	32.96	36.19	11.68	31.97	48.86	74.00	-25.14	Horizontal
9648.00	31.53	38.07	14.16	31.56	52.20	74.00	-21.80	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	27.70	31.79	8.62	32.10	36.01	54.00	-17.99	Vertical
7236.00	21.97	36.19	11.68	31.97	37.87	54.00	-16.13	Vertical
9648.00	22.27	38.07	14.16	31.56	42.94	54.00	-11.06	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	27.06	31.79	8.62	32.10	35.37	54.00	-18.63	Horizontal
7236.00	21.57	36.19	11.68	31.97	37.47	54.00	-16.53	Horizontal
9648.00	21.31	38.07	14.16	31.56	41.98	54.00	-12.02	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Notes:

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

Test mode:	802.11n(HT20)	Test channel:	Middle
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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	37.84	31.85	8.66	32.12	46.23	74.00	-27.77	Vertical
7311.00	33.34	36.37	11.71	31.91	49.51	74.00	-24.49	Vertical
9748.00	33.05	38.27	14.25	31.56	54.01	74.00	-19.99	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	38.56	31.85	8.66	32.12	46.95	74.00	-27.05	Horizontal
7311.00	32.10	36.37	11.71	31.91	48.27	74.00	-25.73	Horizontal
9748.00	32.99	38.27	14.25	31.56	53.95	74.00	-20.05	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	28.81	31.85	8.66	32.12	37.20	54.00	-16.80	Vertical
7311.00	21.69	36.37	11.71	31.91	37.86	54.00	-16.14	Vertical
9748.00	22.33	38.27	14.25	31.56	43.29	54.00	-10.71	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	28.75	31.85	8.66	32.12	37.14	54.00	-16.86	Horizontal
7311.00	21.21	36.37	11.71	31.91	37.38	54.00	-16.62	Horizontal
9748.00	22.73	38.27	14.25	31.56	43.69	54.00	-10.31	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Notes:

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

Test mode:	802.11n(HT20)	Test channel:	Highest
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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	42.28	31.90	8.70	32.15	50.73	74.00	-23.27	Vertical
7386.00	33.32	36.49	11.76	31.83	49.74	74.00	-24.26	Vertical
9848.00	35.85	38.62	14.31	31.77	57.01	74.00	-16.99	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	41.99	31.90	8.70	32.15	50.44	74.00	-23.56	Horizontal
7386.00	32.43	36.49	11.76	31.83	48.85	74.00	-25.15	Horizontal
9848.00	32.12	38.62	14.31	31.77	53.28	74.00	-20.72	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	33.40	31.90	8.70	32.15	41.85	54.00	-12.15	Vertical
7386.00	23.30	36.49	11.76	31.83	39.72	54.00	-14.28	Vertical
9848.00	24.40	38.62	14.31	31.77	45.56	54.00	-8.44	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	32.49	31.90	8.70	32.15	40.94	54.00	-13.06	Horizontal
7386.00	21.86	36.49	11.76	31.83	38.28	54.00	-15.72	Horizontal
9848.00	21.42	38.62	14.31	31.77	42.58	54.00	-11.42	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Notes:

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

Test mode:	802.11n(HT40)	Test channel:	Lowest
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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	38.96	31.81	8.63	32.11	47.29	74.00	-26.71	Vertical
7266.00	33.38	36.28	11.69	31.94	49.41	74.00	-24.59	Vertical
9688.00	32.11	38.13	14.21	31.52	52.93	74.00	-21.07	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4844.00	37.84	31.81	8.63	32.11	46.17	74.00	-27.83	Horizontal
7266.00	33.23	36.28	11.69	31.94	49.26	74.00	-24.74	Horizontal
9688.00	31.74	38.13	14.21	31.52	52.56	74.00	-21.44	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	28.15	31.81	8.63	32.11	36.48	54.00	-17.52	Vertical
7266.00	22.27	36.28	11.69	31.94	38.30	54.00	-15.70	Vertical
9688.00	22.48	38.13	14.21	31.52	43.30	54.00	-10.70	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	27.45	31.81	8.63	32.11	35.78	54.00	-18.22	Horizontal
7266.00	21.84	36.28	11.69	31.94	37.87	54.00	-16.13	Horizontal
9688.00	21.51	38.13	14.21	31.52	42.33	54.00	-11.67	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Notes:

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

Test mode:	802.11n(HT40)	Test channel:	Middle
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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	38.25	31.85	8.66	32.12	46.64	74.00	-27.36	Vertical
7311.00	33.59	36.37	11.71	31.91	49.76	74.00	-24.24	Vertical
9748.00	33.24	38.27	14.25	31.56	54.20	74.00	-19.80	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	38.90	31.85	8.66	32.12	47.29	74.00	-26.71	Horizontal
7311.00	32.32	36.37	11.71	31.91	48.49	74.00	-25.51	Horizontal
9748.00	33.16	38.27	14.25	31.56	54.12	74.00	-19.88	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	29.19	31.85	8.66	32.12	37.58	54.00	-16.42	Vertical
7311.00	21.93	36.37	11.71	31.91	38.10	54.00	-15.90	Vertical
9748.00	22.51	38.27	14.25	31.56	43.47	54.00	-10.53	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.07	31.85	8.66	32.12	37.46	54.00	-16.54	Horizontal
7311.00	21.43	36.37	11.71	31.91	37.60	54.00	-16.40	Horizontal
9748.00	22.89	38.27	14.25	31.56	43.85	54.00	-10.15	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Notes:

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

Test mode:	802.11n(HT40)	Test channel:	Highest
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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	42.98	31.88	8.68	32.13	51.41	74.00	-22.59	Vertical
7356.00	33.77	36.45	11.75	31.86	50.11	74.00	-23.89	Vertical
9808.00	36.17	38.43	14.29	31.68	57.21	74.00	-16.79	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	42.59	31.88	8.68	32.13	51.02	74.00	-22.98	Horizontal
7356.00	32.82	36.45	11.75	31.86	49.16	74.00	-24.84	Horizontal
9808.00	32.41	38.43	14.29	31.68	53.45	74.00	-20.55	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	34.05	31.88	8.68	32.13	42.48	54.00	-11.52	Vertical
7356.00	23.72	36.45	11.75	31.86	40.06	54.00	-13.94	Vertical
9808.00	24.71	38.43	14.29	31.68	45.75	54.00	-8.25	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	33.05	31.88	8.68	32.13	41.48	54.00	-12.52	Horizontal
7356.00	22.24	36.45	11.75	31.86	38.58	54.00	-15.42	Horizontal
9808.00	21.70	38.43	14.29	31.68	42.74	54.00	-11.26	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Notes:

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.

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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