

FCC REPORT

Applicant: Shenzhen YIDONG Technology Co.,Ltd.

Address of Applicant: Floor 1-5,Building B, Area B, Yuanfen Industrial Zone,
Dalang, Bao'an District, Shenzhen, China

Equipment Under Test (EUT)

Product Name: Flat Computer

Model No.: XR2N1

FCC ID: LU7-XR2N1

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247:2014

Date of sample receipt: November 23, 2015

Date of Test: November 24-December 01, 2015

Date of report issued: December 02, 2015

Test Result : PASS *

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

Authorized Signature:



Robinson Lo

Laboratory Manager

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

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2 Version

Version No.	Date	Description
00	December 02, 2015	Original

Prepared By:

Sam. Gao

Date:

December 02, 2015

Project Engineer

Check By:

hank. yan

Date:

December 02, 2015

Reviewer

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4 Test Summary

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

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

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	$\pm 4.34\text{dB}$	(1)
Radiated Emission	30MHz ~ 1000MHz	$\pm 4.24\text{dB}$	(1)
Radiated Emission	1GHz ~ 26.5GHz	$\pm 4.68\text{dB}$	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	$\pm 3.45\text{dB}$	(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 Client Information

Applicant:	Shenzhen YIDONG Technology Co.,Ltd.
Address of Applicant:	Floor 1-5,Building B, Area B, Yuanfen Industrial Zone, Dalang, Bao'an District, Shenzhen, China
Manufacturer/ Factory:	Shenzhen YIDONG Technology Co.,Ltd.
Address of Manufacturer Factory:	Floor 1-5,Building B, Area B, Yuanfen Industrial Zone, Dalang, Bao'an District, Shenzhen, China

5.2 General Description of EUT

Product Name:	Flat Computer
Model No.:	XR2N1
Operation Frequency:	802.11b/802.11g/802.11n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz
Channel numbers:	802.11b/802.11g/802.11n(HT20): 11 802.11n(HT40): 7
Channel bandwidth:	802.11b/802.11g/802.11n(HT20) : 20MHz 802.11n(HT40): 40MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n(H20)/802.11n(H40): Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	Integral Antenna
Antenna gain:	2dBi for 2.4G band(declare by Applicant)
Power supply:	Adapter: Model No.: STC-C0503000-Z Input: AC 100~240V~50/60Hz 0.4A Output: DC 5.0V 3000mA 7500mAh Battery

Operation Frequency each of channel @ 2.4G Band							
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)			
	2.4G Band			
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Lowest channel	2412	2412	2412	2422
Middle channel	2437	2437	2437	2437
Highest channel	2462	2462	2462	2452

5.3 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
<i>Remark: During the test, 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:

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

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

5.4 Description of Support Units

None.

5.5 Test Facility

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

- **FCC —Registration No.: 600491**

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 28, 2013.

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

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. Has been

Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, June 26, 2013.

5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Room 301-309, 3th Floor, Block A, Huafeng Jinyuan Business Building, No. 300 Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, China

Tel: 0755-27798480

Fax: 0755-27798960

6 Test Instruments list

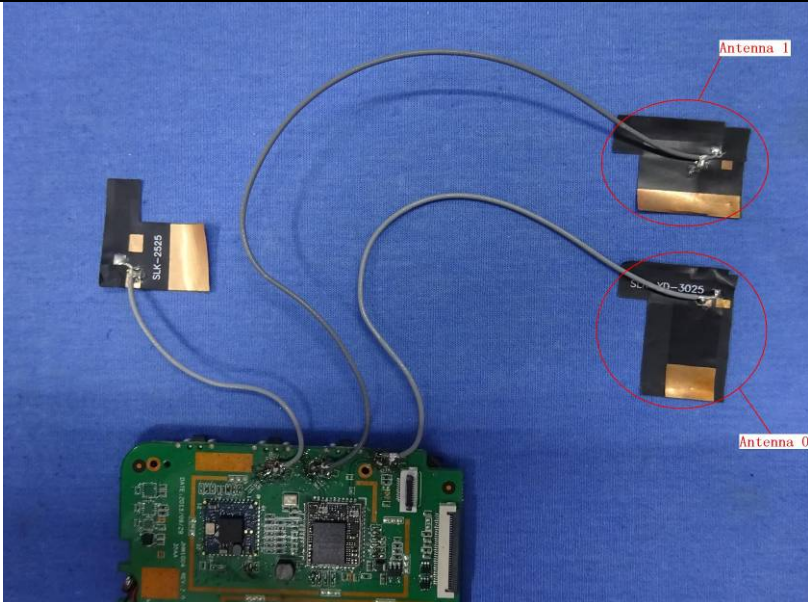
Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 28 2015	Mar. 27 2016
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June 30 2015	June 29 2016
4	Spectrum analyzer	Agilent	E4447A	GTS516	June 30 2015	June 29 2016
5	Spectrum Analyzer	Agilent	E4440A	GTS533	Nov. 18 2015	Nov. 17 2016
6	BiConiLog Antenna	SCHWARZBECK MESS- ELEKTRONIK	VULB9163	GTS214	Feb. 22 2015	Feb. 21 2016
7	Double -ridged waveguide horn	SCHWARZBECK MESS- ELEKTRONIK	9120D-829	GTS208	June 30 2015	June 29 2016
8	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 28 2015	Mar. 27 2016
9	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
10	Coaxial Cable	GTS	N/A	GTS213	Mar. 28 2015	Mar. 27 2016
11	Coaxial Cable	GTS	N/A	GTS211	Mar. 28 2015	Mar. 27 2016
12	Coaxial cable	GTS	N/A	GTS210	Mar. 28 2015	Mar. 27 2016
13	Coaxial Cable	GTS	N/A	GTS212	Mar. 28 2015	Mar. 27 2016
14	Amplifier(100kHz- 3GHz)	HP	8347A	GTS204	June 30 2015	June 29 2016
15	Amplifier(2GHz- 20GHz)	HP	8349B	GTS206	June 30 2015	June 29 2016
16	Amplifier (18-40GHz)	MITEQ	AMF-6F-18004000- 29-8P	GTS534	June 30 2015	June 29 2016
17	Band filter	Amindeon	82346	GTS219	Mar. 28 2015	Mar. 27 2016
18	Constant temperature and humidity box	Oregon Scientific	BA-888	GTS248	Mar. 28 2015	Mar. 27 2016
19	D.C. Power Supply	Instek	PS-3030	GTS232	Mar. 28 2015	Mar. 27 2016
20	Universal radio communication tester	Rohde & Schwarz	CMU200	GTS235	Mar. 28 2015	Mar. 27 2016
21	Splitter	Agilent	11636B	GTS237	Mar. 28 2015	Mar. 27 2016
22	Power Meter	Anritsu	ML2495A	GTS540	June 30 2015	June 29 2016
23	Power Sensor	Anritsu	MA2411B	GTS541	June 30 2015	June 29 2016

Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	June 30 2015	June 29 2016
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	June 30 2015	June 29 2016
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	June 30 2015	June 29 2016
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June 30 2015	June 29 2016
5	LISN	SCHWARZBECK MESS- ELEKTRONIK	NSLK 8127	GTS226	June 30 2015	June 29 2016
6	Coaxial Cable	GTS	N/A	GTS227	June 30 2015	June 29 2016
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

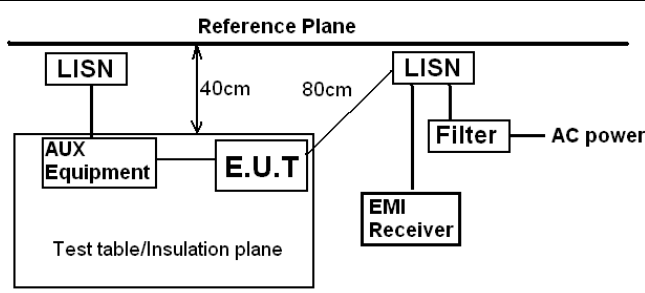
General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	ChangChun	DYM3	GTS257	July 07 2015	July 06 2016

7 Test results and Measurement Data

7.1 Antenna requirement

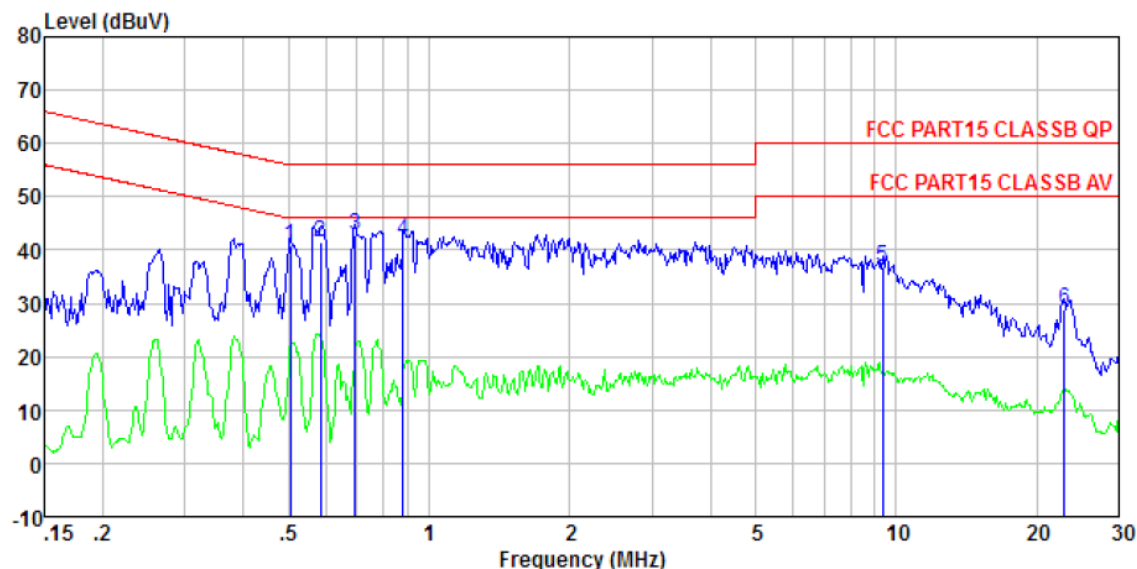
Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique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

Measurement data

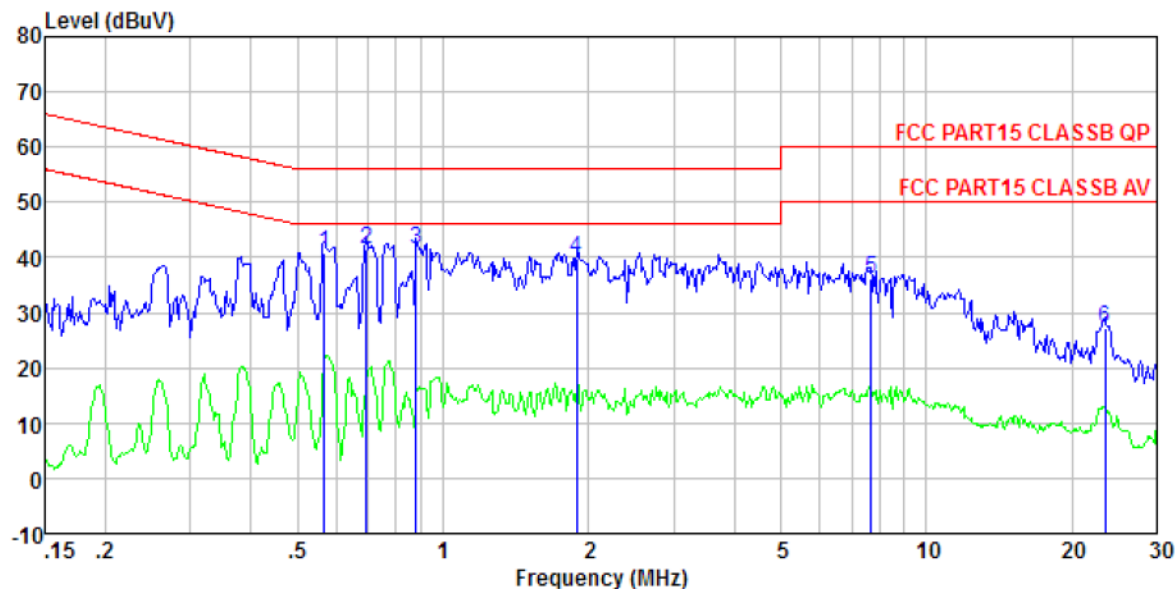
Line:



Site : Shielded room
Condition : FCC PART15 CLASSB QP LISN-2013 LINE
Job No. : 1944RF
Test mode : WiFi mode
Test Engineer: Joe

	Freq	Read Level	LISN Level	Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.505	40.49	40.72	0.12	0.11	56.00	-15.28	QP
2	0.585	41.36	41.61	0.13	0.12	56.00	-14.39	QP
3	0.694	42.48	42.75	0.14	0.13	56.00	-13.25	QP
4	0.880	41.66	41.93	0.14	0.13	56.00	-14.07	QP
5	9.352	36.27	36.75	0.29	0.19	60.00	-23.25	QP
6	22.896	27.79	28.98	0.96	0.23	60.00	-31.02	QP

Neutral:



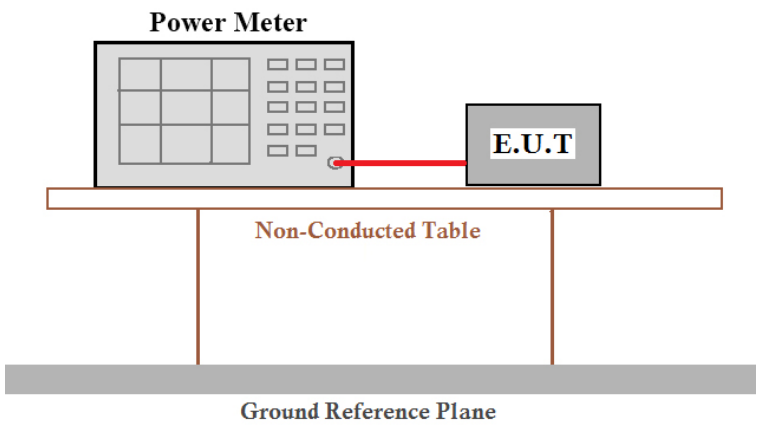
Site : Shielded room
Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL
Job No. : 1944RF
Test mode : WiFi mode
Test Engineer: Joe

	Read	LISN	Cable	Limit	Over	
Freq	Level	Level	Factor	Loss	Line	Limit
MHz	dBuV	dBuV	dB	dB	dBuV	dB
1	0.567	40.75	40.94	0.07	0.12	56.00
2	0.694	41.20	41.40	0.07	0.13	56.00
3	0.880	41.16	41.36	0.07	0.13	56.00
4	1.888	39.47	39.70	0.09	0.14	56.00
5	7.687	35.74	36.11	0.19	0.18	60.00
6	23.387	25.96	27.10	0.91	0.23	60.00

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 C Section 15.247 (b)(3)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03
Limit:	30dBm
Test setup:	 The diagram illustrates the test setup. A Power Meter and an E.U.T. (Equipment Under Test) are connected by a red cable. They are positioned on a Non-Conducted Table, which is elevated from a Ground Reference Plane by two vertical supports.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data

802.11b/802.11g SISO mode: ANT0

Test CH	Peak Output Power (dBm)		Limit(dBm)	Result
	802.11b	802.11g		
Lowest	18.73	16.39	30.00	Pass
Middle	18.79	16.22		
Highest	18.48	15.79		

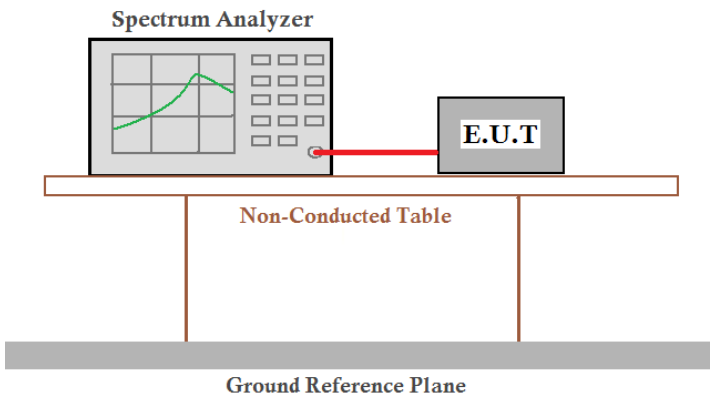
802.11b/802.11g SISO mode: ANT1

Test CH	Peak Output Power (dBm)		Limit(dBm)	Result
	802.11b	802.11g		
Lowest	15.25	14.27	30.00	Pass
Middle	15.94	14.70		
Highest	15.88	14.18		

802.11n MIMO mode:

Test mode	Channel	Read Level (dBm)		Read Level (mW)	Total Peak Output Power (mW)	Total Peak Output Power (dBm)	Limit (dBm)	Result
802.11n (HT20)	Lowest	ANT0	10.22	10.52	18.80	12.74	30.00	Pass
		ANT1	9.18	8.28				
	Middle	ANT0	9.92	9.82	17.10	12.33		
		ANT1	8.62	7.28				
	Highest	ANT0	9.85	9.66	17.04	12.31		
		ANT1	8.68	7.38				

7.4 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03
Limit:	>500KHz
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer 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 5.3 for details
Test results:	Pass

Measurement Data

Antenna 0:

Test CH	Channel Bandwidth (MHz)			Limit (KHz)	Result
	802.11b	802.11g	802.11n(HT20)		
Lowest	8.472	16.088	16.114	>500	Pass
Middle	8.464	16.375	16.242		
Highest	8.734	16.069	16.302		

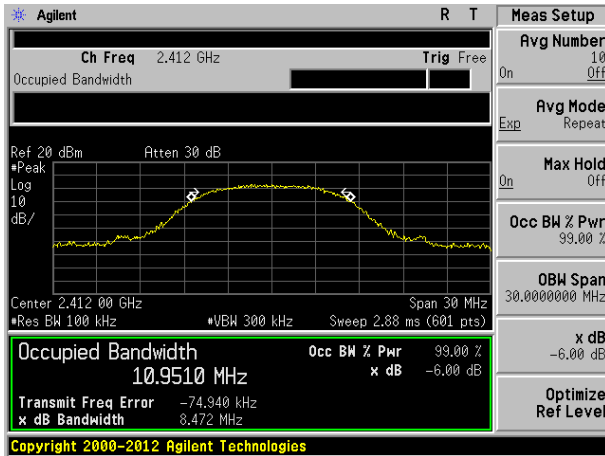
Antenna 1:

Test CH	Channel Bandwidth (MHz)			Limit (KHz)	Result
	802.11b	802.11g	802.11n(HT20)		
Lowest	8.804	16.060	16.403	>500	Pass
Middle	8.442	16.369	16.367		
Highest	7.740	15.903	16.576		

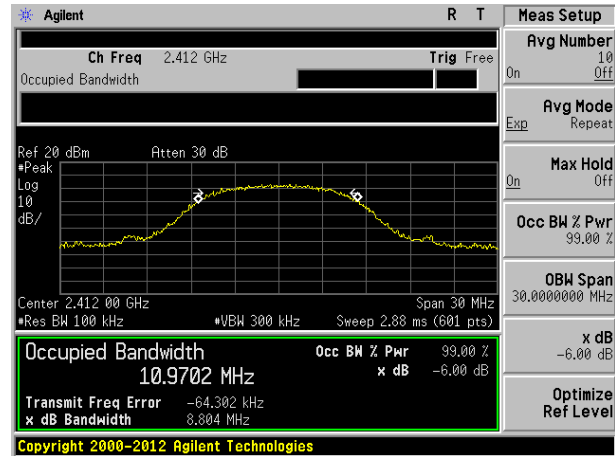
Test plot as follows:

Test mode: 802.11b

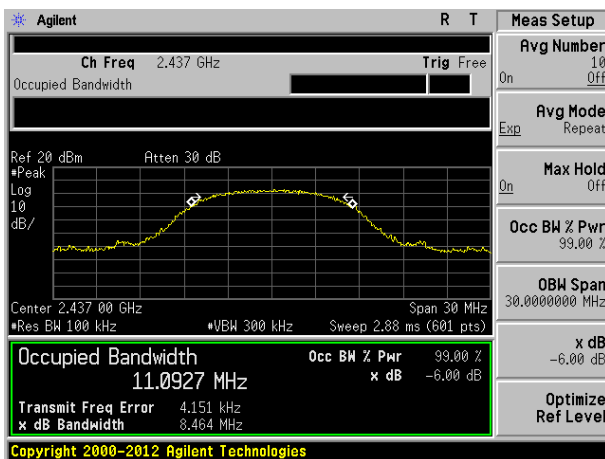
Antenna 0: Antenna 1:



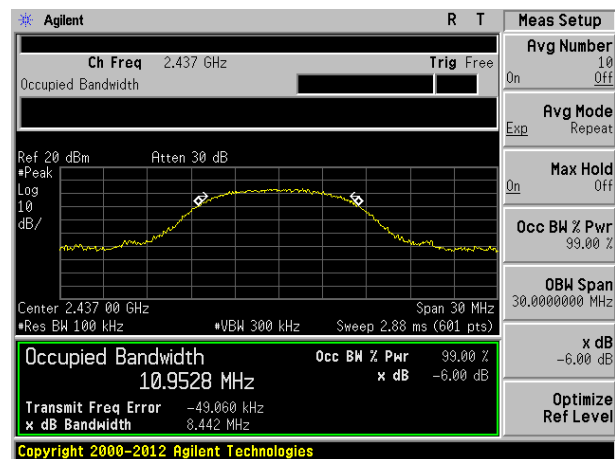
Lowest channel



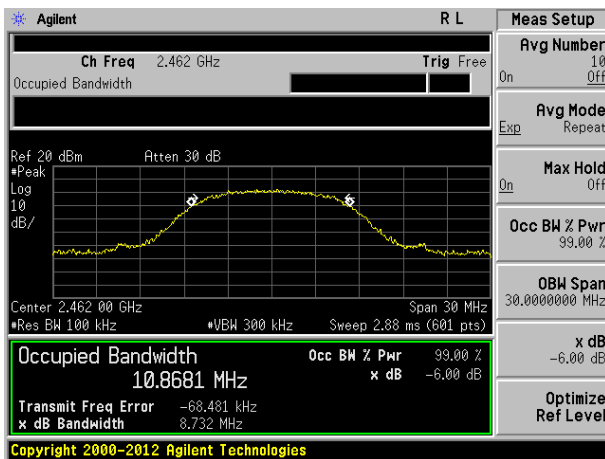
Lowest channel



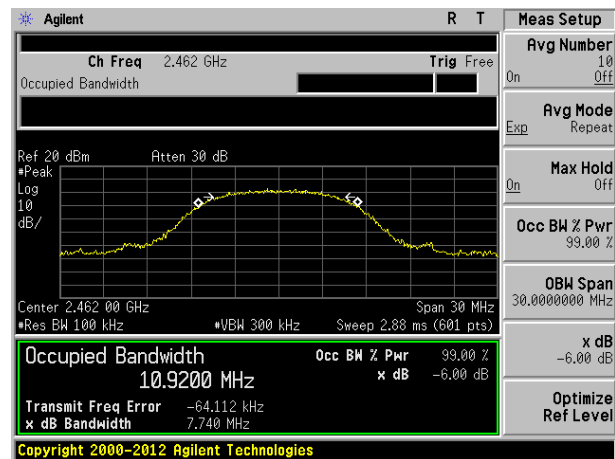
Middle channel



Middle channel



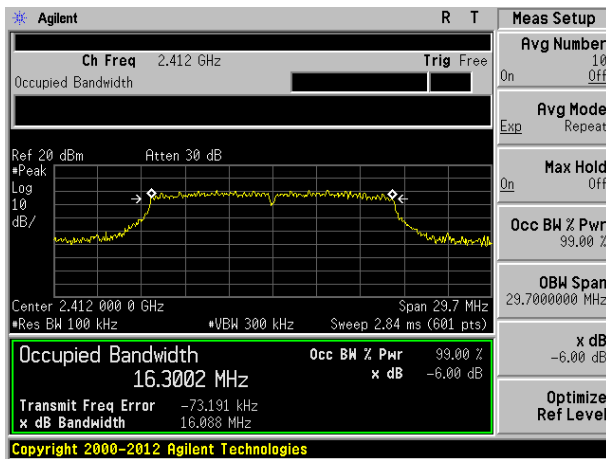
Highest channel



Highest channel

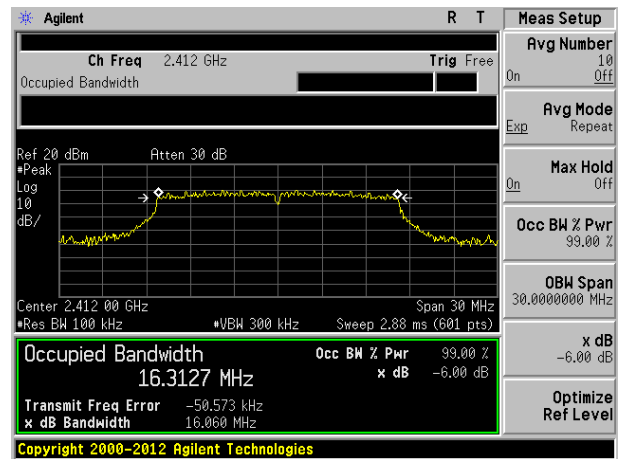
Test mode: 802.11g

Antenna 0:

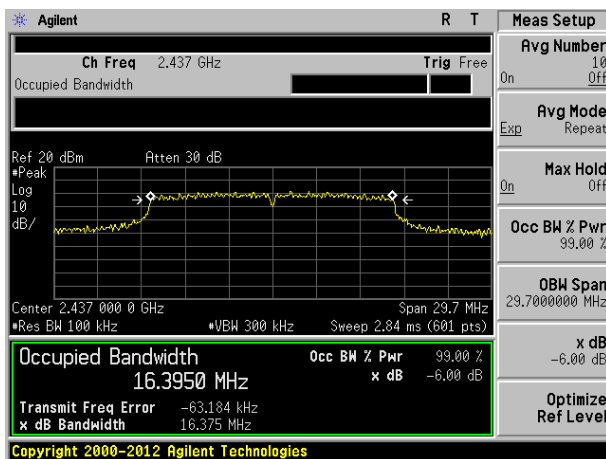


Lowest channel

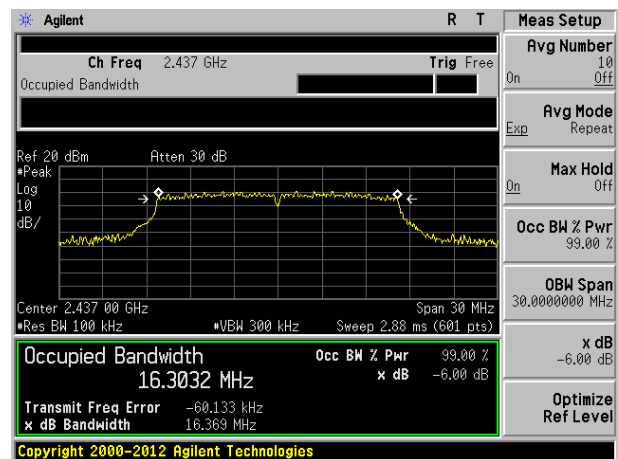
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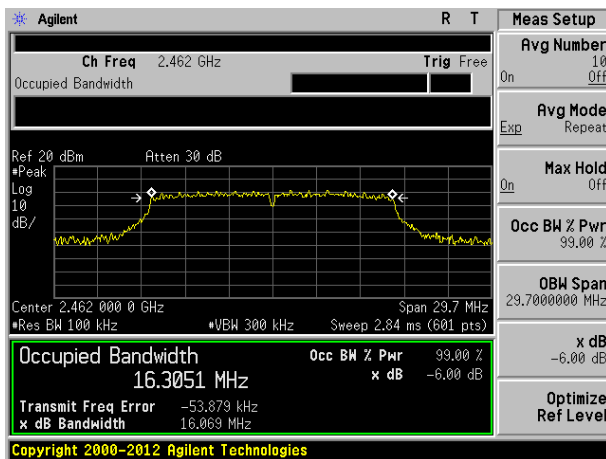
Lowest channel



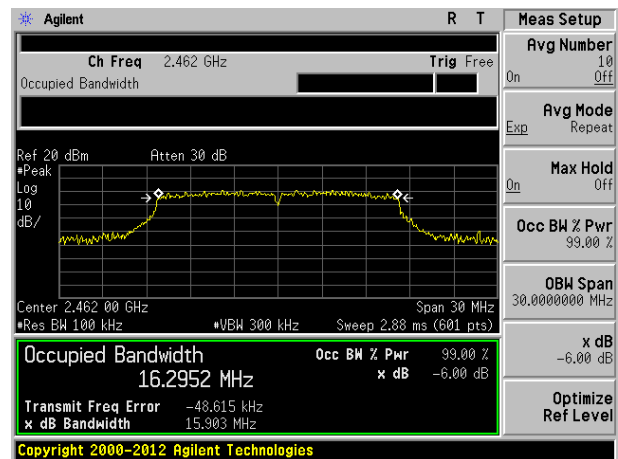
Middle channel



Middle channel



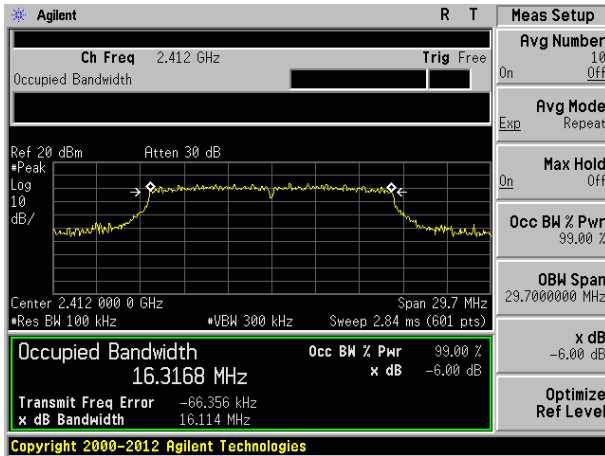
Highest channel



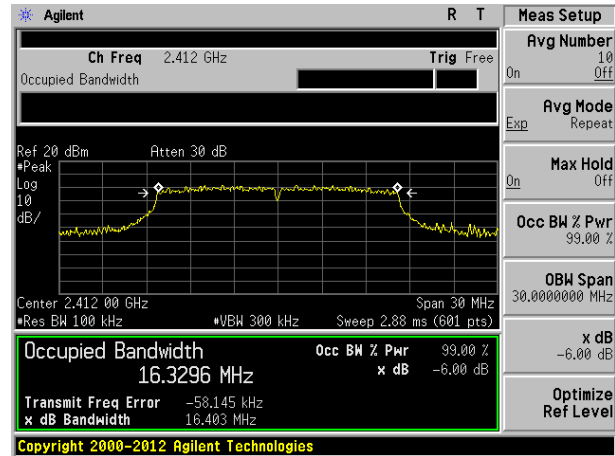
Highest channel

Test mode: 802.11n(HT20)

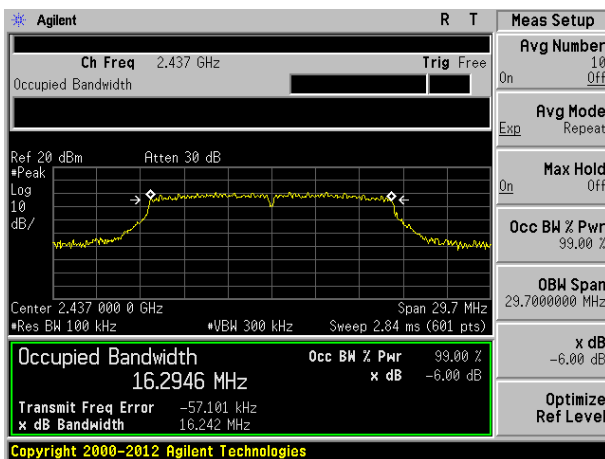
Antenna 0:	Antenna 1:
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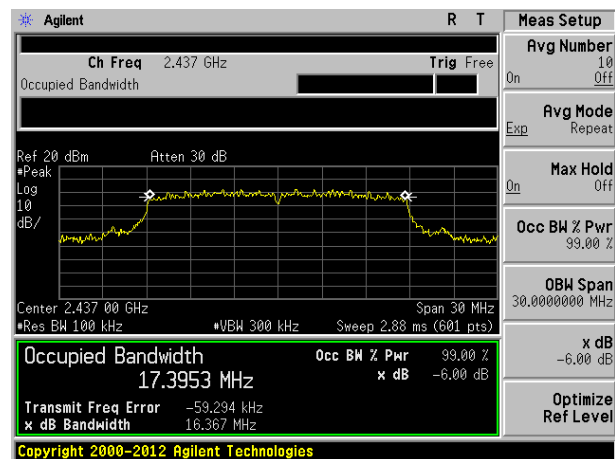
Lowest channel



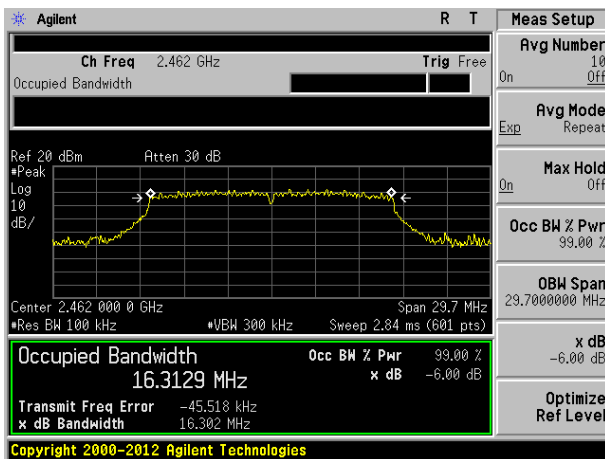
Lowest channel



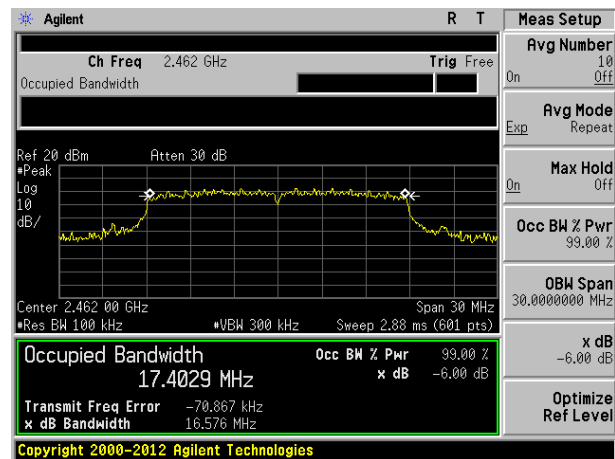
Middle channel



Middle channel

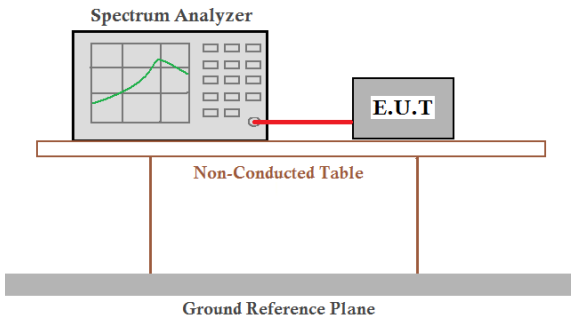


Highest channel



Highest channel

7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03
Limit:	8dBm
Test setup:	 The diagram illustrates the test setup. 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. Below the table is a Ground Reference Plane.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data

802.11b/802.11g SISO mode: Antenna 0

Test CH	Power Spectral Density (dBm)		Limit (dBm/3kHz)	Result
	802.11b	802.11g		
Lowest	3.83	0.74	8.00	Pass
Middle	3.94	1.17		
Highest	2.49	1.41		

802.11b/802.11g SISO mode: Antenna 1

Test CH	Power Spectral Density (dBm)		Limit (dBm/3kHz)	Result
	802.11b	802.11g		
Lowest	4.01	0.80	8.00	Pass
Middle	3.54	1.01		
Highest	2.04	1.10		

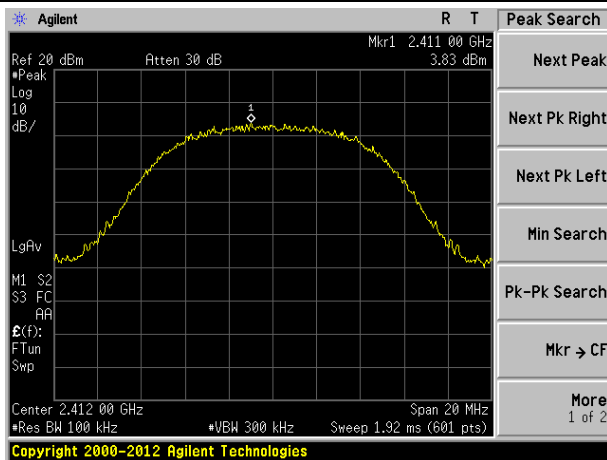
802.11n MIMO mode: AN0+AN1:

Test CH	Power Spectral Density (dBm)			Limit (dBm/3kHz)	Result
	802.11n(HT20)				
	ANT0	ANT1	Total		
Lowest	1.91	1.69	4.81	8.00	Pass
Middle	0.74	2.59	4.77		
Highest	2.12	2.70	5.43		

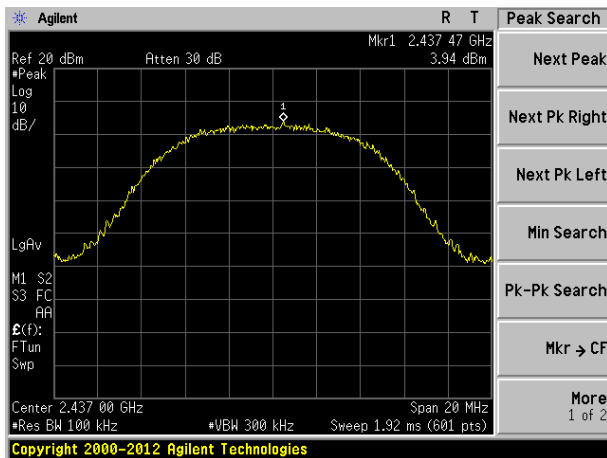
Test plot as follows:

Test mode: 802.11b

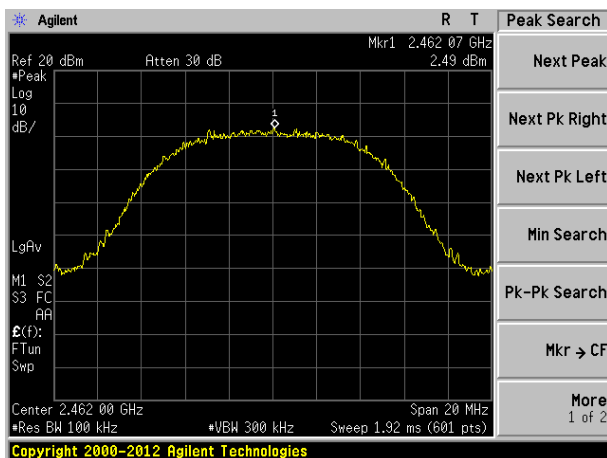
Antenna 0:



Lowest channel

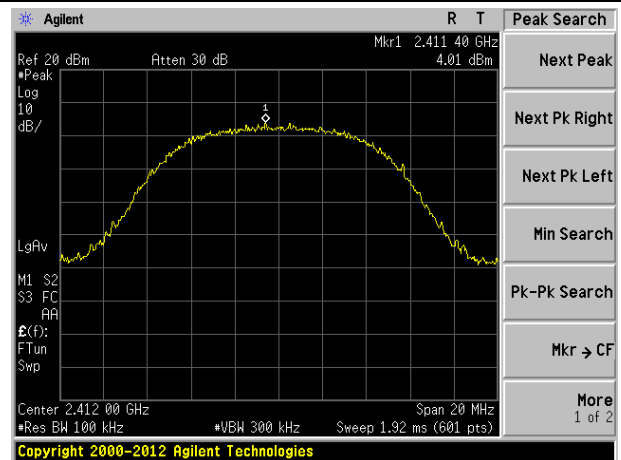


Middle channel

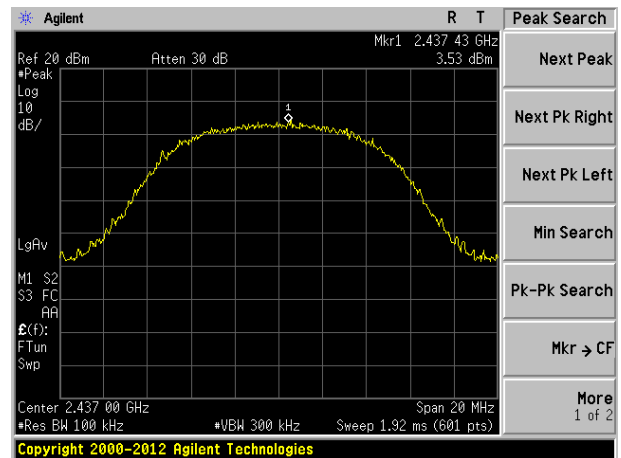


Highest channel

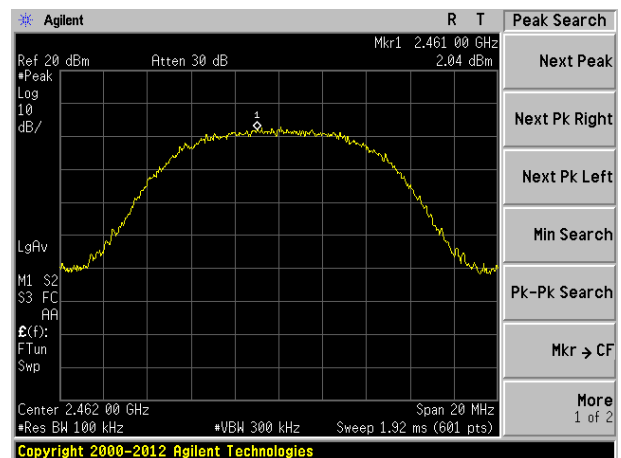
Antenna 1:



Lowest channel



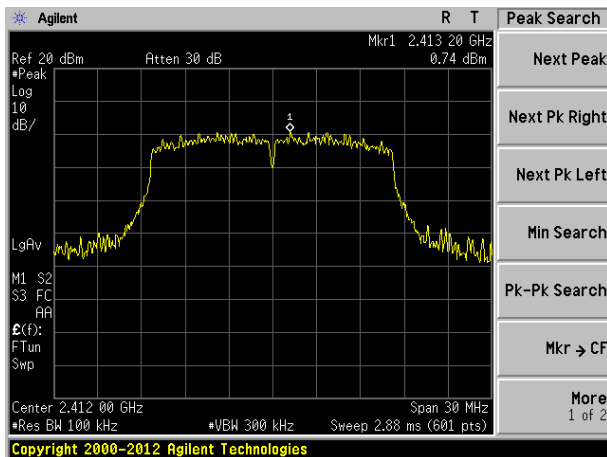
Middle channel



Highest channel

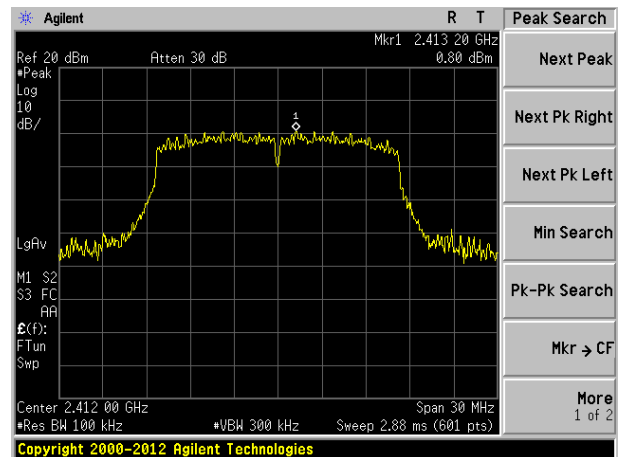
Test mode: 802.11g

Antenna 0:

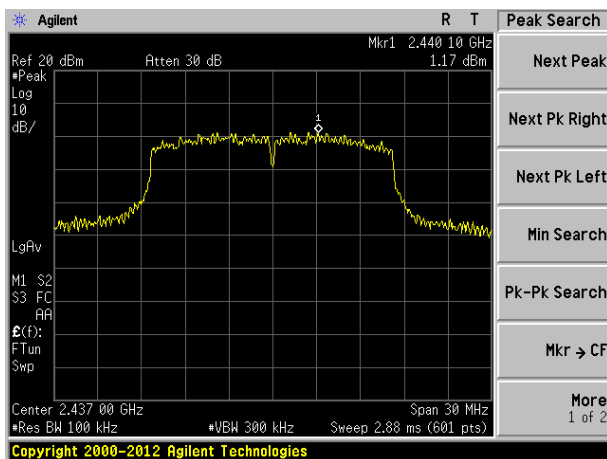


Lowest channel

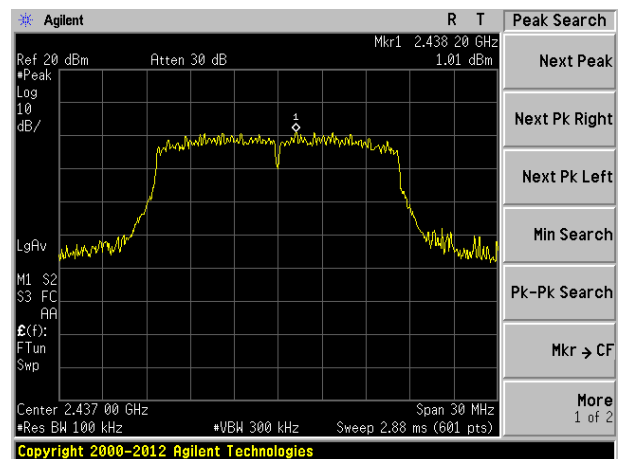
Antenna 1:



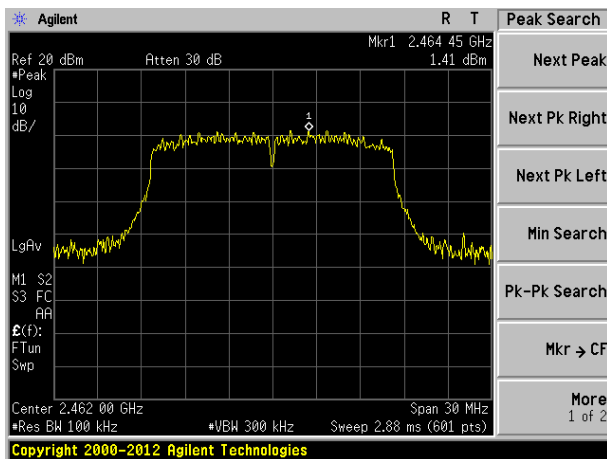
Lowest channel



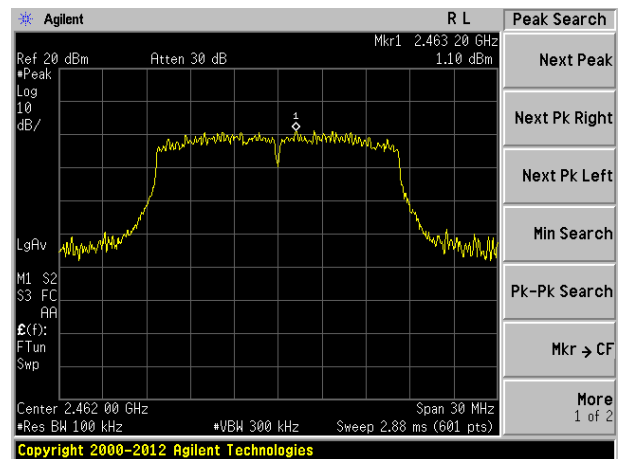
Middle channel



Middle channel



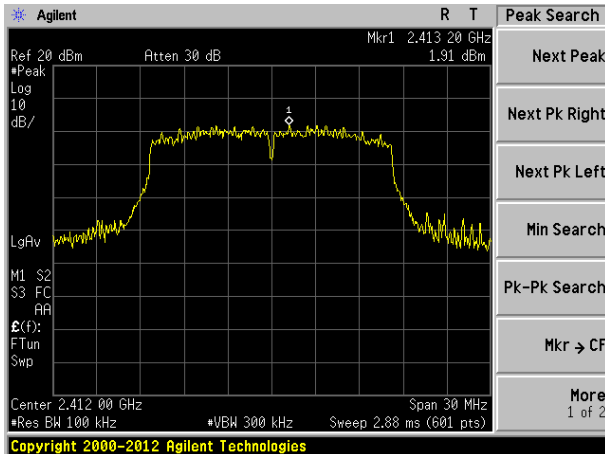
Highest channel



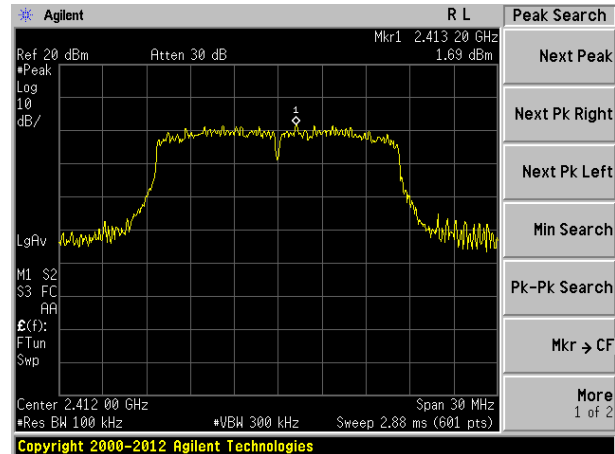
Highest channel

Test mode: 802.11n(HT20)

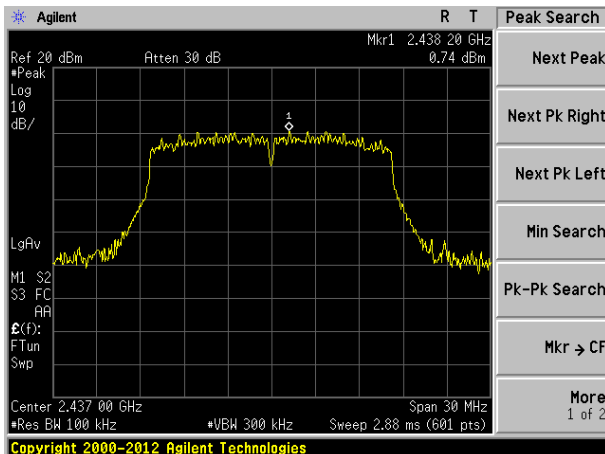
Antenna 0:	Antenna 1:
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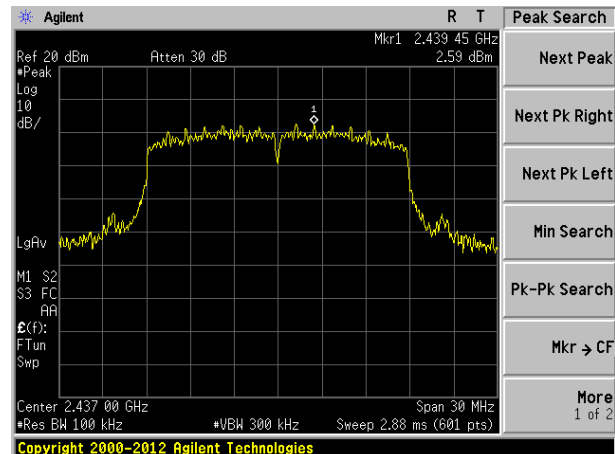
Lowest channel



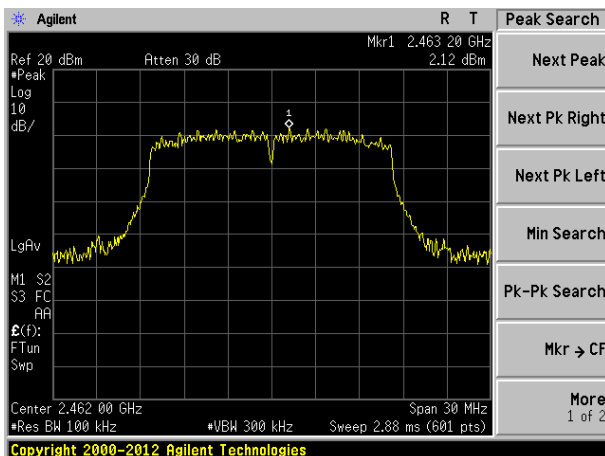
Lowest channel



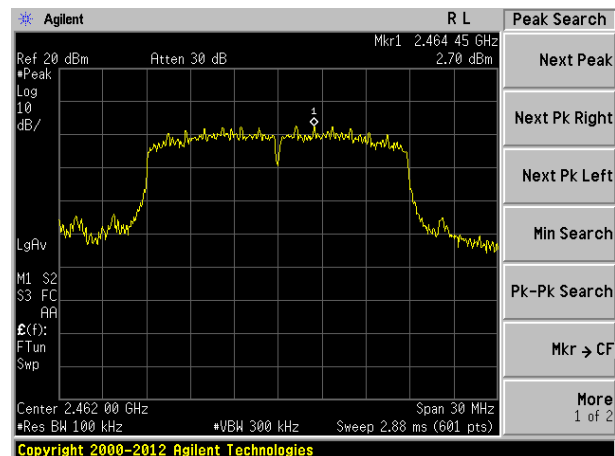
Middle channel



Middle channel



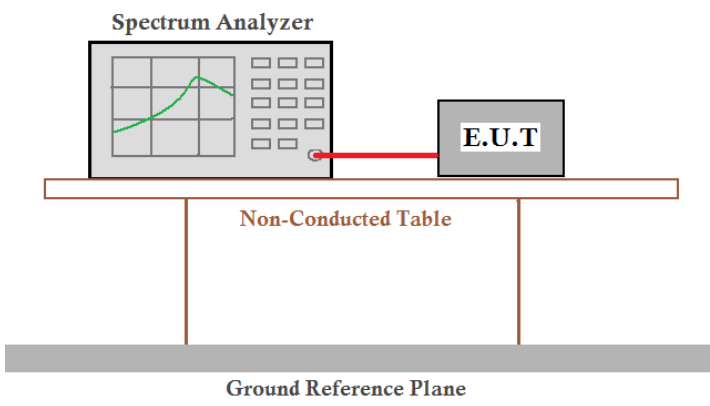
Highest channel



Highest channel

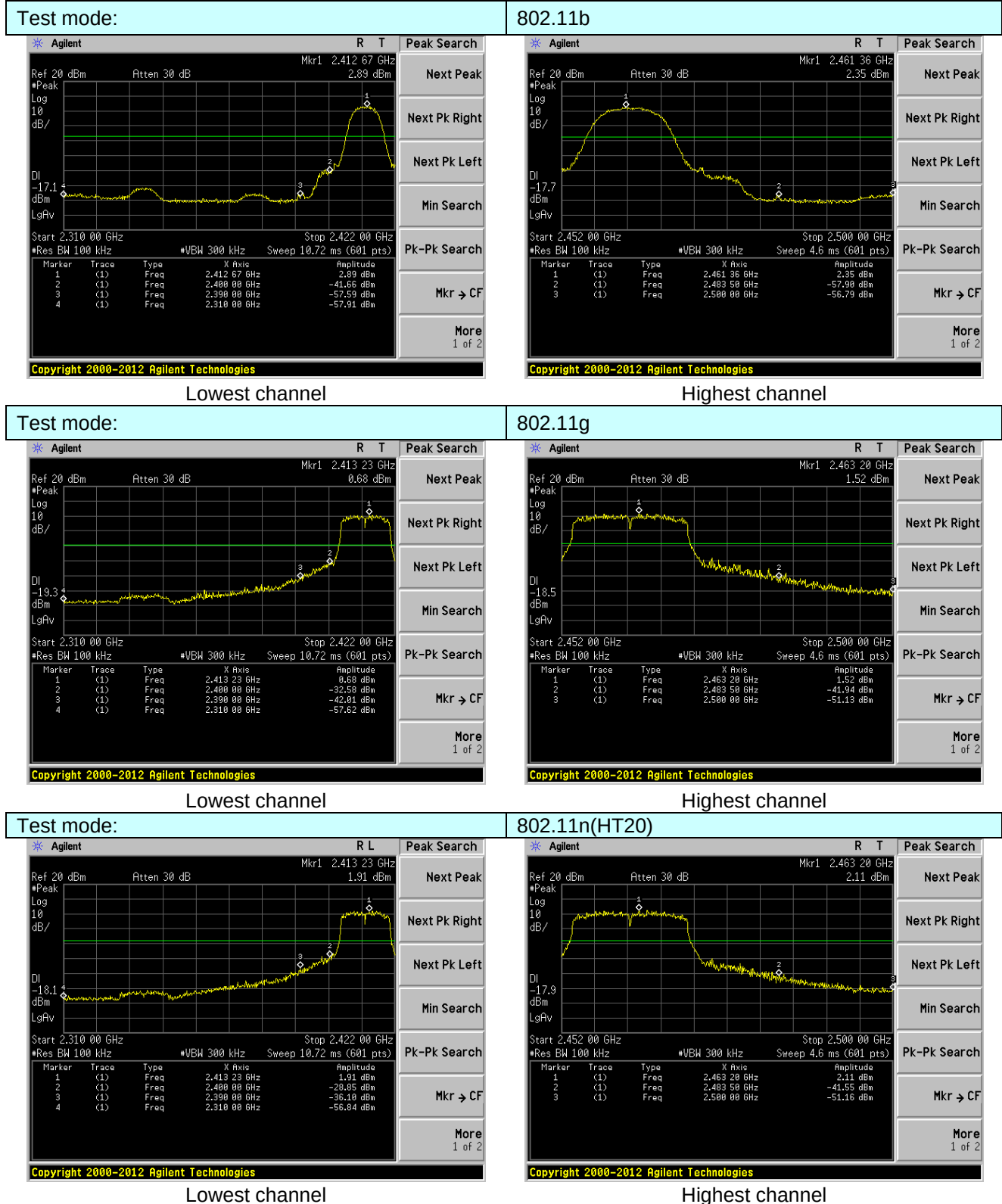
7.6 Band edges

7.6.1 Conducted Emission Method

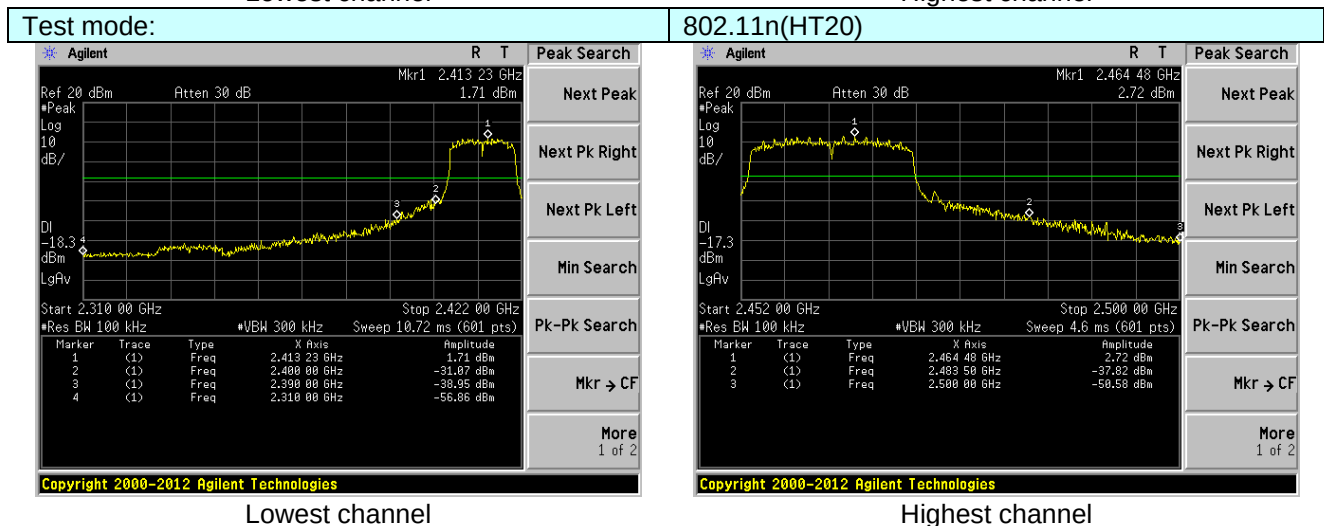
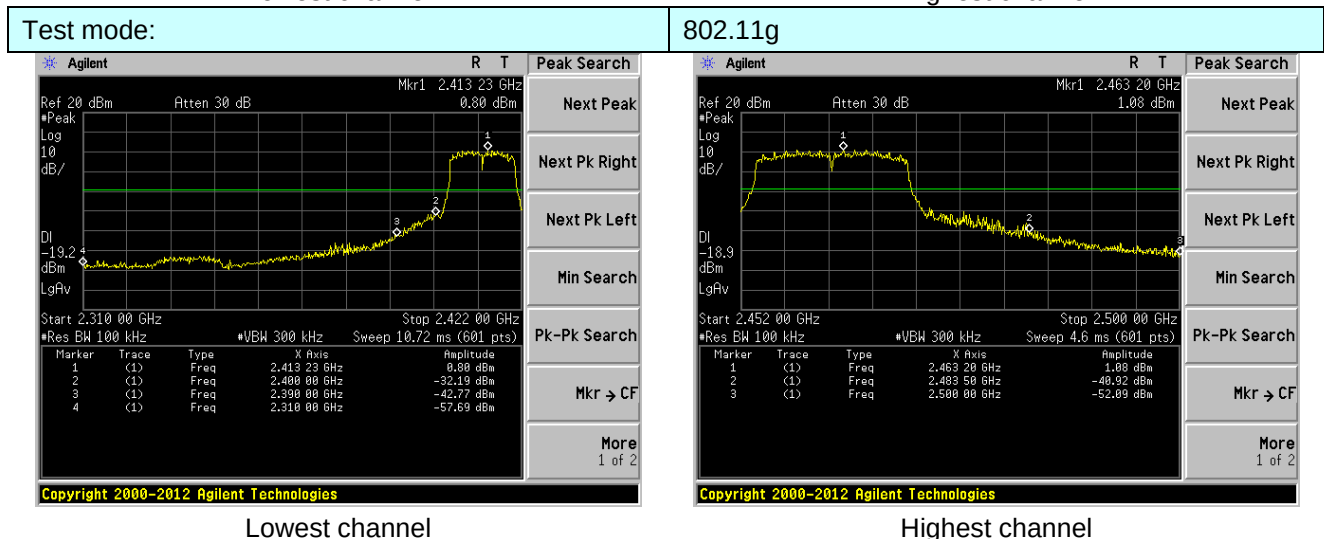
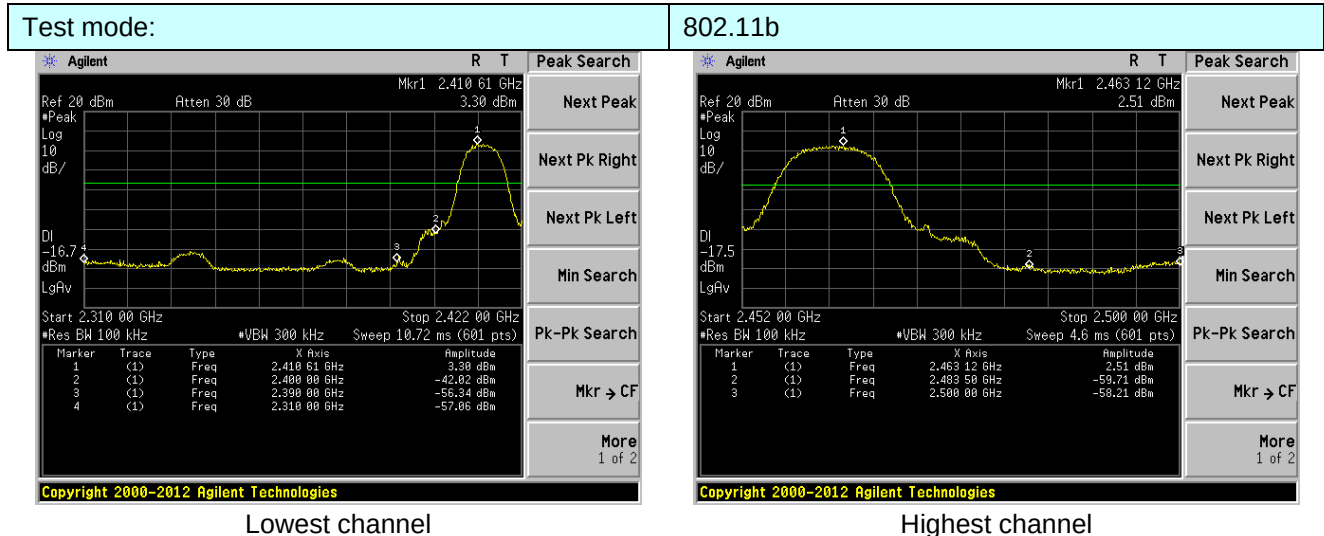
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meads Guidance V03
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	 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 5.3 for details
Test results:	Pass

Test plot as follows:

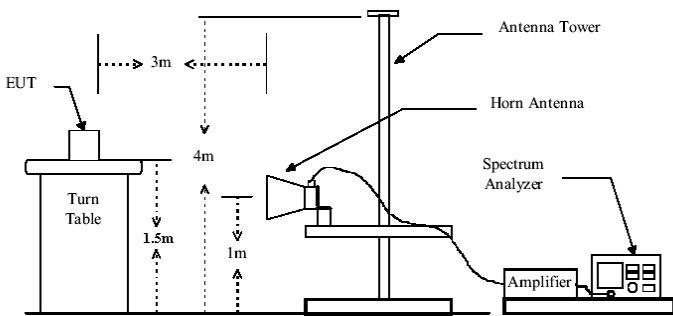
Antenna 0:



Antenna 1:



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:	30MHz 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
		Peak	1MHz	10Hz	Average
Limit:	Frequency		Limit (dBuV/m @3m)		Value
	Above 1GHz		54.00		Average
			74.00		Peak
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 5.3 for details				
Test results:	Pass				

Measurement data:

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

802.11b SISO mode:ANT0

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
2390.00	51.24	27.59	5.38	34.01	50.20	74.00	-23.80	Horizontal
2400.00	60.12	27.58	5.39	34.01	59.08	74.00	-14.92	Horizontal
2390.00	52.90	27.59	5.38	34.01	51.86	74.00	-22.14	Vertical
2400.00	61.81	27.58	5.39	34.01	60.77	74.00	-13.23	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
2390.00	38.12	27.59	5.38	34.01	37.08	54.00	-16.92	Horizontal
2400.00	46.37	27.58	5.39	34.01	45.33	54.00	-8.67	Horizontal
2390.00	39.91	27.59	5.38	34.01	38.87	54.00	-15.13	Vertical
2400.00	47.47	27.58	5.39	34.01	46.43	54.00	-7.57	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)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	51.73	27.53	5.47	33.92	50.81	74.00	-23.19	Horizontal
2500.00	47.68	27.55	5.49	29.93	50.79	74.00	-23.21	Horizontal
2483.50	53.90	27.53	5.47	33.92	52.98	74.00	-21.02	Vertical
2500.00	50.12	27.55	5.49	29.93	53.23	74.00	-20.77	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	38.42	27.53	5.47	33.92	37.50	54.00	-16.50	Horizontal
2500.00	34.60	27.55	5.49	29.93	37.71	54.00	-16.29	Horizontal
2483.50	40.34	27.53	5.47	33.92	39.42	54.00	-14.58	Vertical
2500.00	36.47	27.55	5.49	29.93	39.58	54.00	-14.42	Vertical

Remark:

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

802.11b SISO mode:ANT1

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
2390.00	49.74	27.59	5.38	34.01	48.70	74.00	-25.30	Horizontal
2400.00	58.12	27.58	5.39	34.01	57.08	74.00	-16.92	Horizontal
2390.00	51.29	27.59	5.38	34.01	50.25	74.00	-23.75	Vertical
2400.00	59.40	27.58	5.39	34.01	58.36	74.00	-15.64	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
2390.00	37.05	27.59	5.38	34.01	36.01	54.00	-17.99	Horizontal
2400.00	45.14	27.58	5.39	34.01	44.10	54.00	-9.90	Horizontal
2390.00	38.72	27.59	5.38	34.01	37.68	54.00	-16.32	Vertical
2400.00	46.12	27.58	5.39	34.01	45.08	54.00	-8.92	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)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	49.58	27.53	5.47	33.92	48.66	74.00	-25.34	Horizontal
2500.00	46.02	27.55	5.49	29.93	49.13	74.00	-24.87	Horizontal
2483.50	51.45	27.53	5.47	33.92	50.53	74.00	-23.47	Vertical
2500.00	48.17	27.55	5.49	29.93	51.28	74.00	-22.72	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	37.13	27.53	5.47	33.92	36.21	54.00	-17.79	Horizontal
2500.00	33.60	27.55	5.49	29.93	36.71	54.00	-17.29	Horizontal
2483.50	38.91	27.53	5.47	33.92	37.99	54.00	-16.01	Vertical
2500.00	35.40	27.55	5.49	29.93	38.51	54.00	-15.49	Vertical

Remark:

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

802.11g SISO mode:ANT0

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)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	50.42	27.59	5.38	34.01	49.38	74.00	-24.62	Horizontal
2400.00	59.02	27.58	5.39	34.01	57.98	74.00	-16.02	Horizontal
2390.00	52.02	27.59	5.38	34.01	50.98	74.00	-23.02	Vertical
2400.00	60.49	27.58	5.39	34.01	59.45	74.00	-14.55	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
2390.00	37.54	27.59	5.38	34.01	36.50	54.00	-17.50	Horizontal
2400.00	45.70	27.58	5.39	34.01	44.66	54.00	-9.34	Horizontal
2390.00	39.26	27.59	5.38	34.01	38.22	54.00	-15.78	Vertical
2400.00	46.73	27.58	5.39	34.01	45.69	54.00	-8.31	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	50.55	27.53	5.47	33.92	49.63	74.00	-24.37	Horizontal
2500.00	46.77	27.55	5.49	29.93	49.88	74.00	-24.12	Horizontal
2483.50	52.56	27.53	5.47	33.92	51.64	74.00	-22.36	Vertical
2500.00	49.05	27.55	5.49	29.93	52.16	74.00	-21.84	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	37.71	27.53	5.47	33.92	36.79	54.00	-17.21	Horizontal
2500.00	34.05	27.55	5.49	29.93	37.16	54.00	-16.84	Horizontal
2483.50	39.55	27.53	5.47	33.92	38.63	54.00	-15.37	Vertical
2500.00	35.88	27.55	5.49	29.93	38.99	54.00	-15.01	Vertical

Remark:

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

802.11g SISO mode:ANT1

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)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	50.31	27.59	5.38	34.01	49.27	74.00	-24.73	Horizontal
2400.00	58.87	27.58	5.39	34.01	57.83	74.00	-16.17	Horizontal
2390.00	51.89	27.59	5.38	34.01	50.85	74.00	-23.15	Vertical
2400.00	60.30	27.58	5.39	34.01	59.26	74.00	-14.74	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
2390.00	37.45	27.59	5.38	34.01	36.41	54.00	-17.59	Horizontal
2400.00	45.60	27.58	5.39	34.01	44.56	54.00	-9.44	Horizontal
2390.00	39.17	27.59	5.38	34.01	38.13	54.00	-15.87	Vertical
2400.00	46.63	27.58	5.39	34.01	45.59	54.00	-8.41	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	50.39	27.53	5.47	33.92	49.47	74.00	-24.53	Horizontal
2500.00	46.64	27.55	5.49	29.93	49.75	74.00	-24.25	Horizontal
2483.50	52.37	27.53	5.47	33.92	51.45	74.00	-22.55	Vertical
2500.00	48.90	27.55	5.49	29.93	52.01	74.00	-21.99	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	37.62	27.53	5.47	33.92	36.70	54.00	-17.30	Horizontal
2500.00	33.97	27.55	5.49	29.93	37.08	54.00	-16.92	Horizontal
2483.50	39.44	27.53	5.47	33.92	38.52	54.00	-15.48	Vertical
2500.00	35.80	27.55	5.49	29.93	38.91	54.00	-15.09	Vertical

Remark:

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

802.11n MIMO mode: ANT0+ANT1

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
2390.00	50.42	27.59	5.38	34.01	49.38	74.00	-24.62	Horizontal
2400.00	59.03	27.58	5.39	34.01	57.99	74.00	-16.01	Horizontal
2390.00	52.02	27.59	5.38	34.01	50.98	74.00	-23.02	Vertical
2400.00	60.49	27.58	5.39	34.01	59.45	74.00	-14.55	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
2390.00	37.54	27.59	5.38	34.01	36.50	54.00	-17.50	Horizontal
2400.00	45.70	27.58	5.39	34.01	44.66	54.00	-9.34	Horizontal
2390.00	39.26	27.59	5.38	34.01	38.22	54.00	-15.78	Vertical
2400.00	46.73	27.58	5.39	34.01	45.69	54.00	-8.31	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)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	50.55	27.53	5.47	33.92	49.63	74.00	-24.37	Horizontal
2500.00	46.77	27.55	5.49	29.93	49.88	74.00	-24.12	Horizontal
2483.50	52.56	27.53	5.47	33.92	51.64	74.00	-22.36	Vertical
2500.00	49.05	27.55	5.49	29.93	52.16	74.00	-21.84	Vertical

Average value:

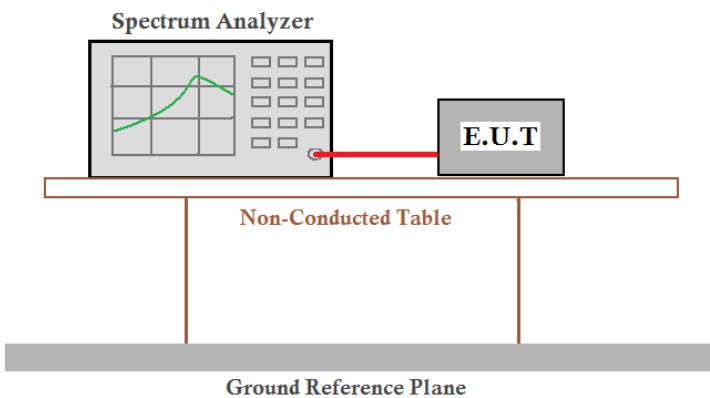
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	37.72	27.53	5.47	33.92	36.80	54.00	-17.20	Horizontal
2500.00	34.05	27.55	5.49	29.93	37.16	54.00	-16.84	Horizontal
2483.50	39.55	27.53	5.47	33.92	38.63	54.00	-15.37	Vertical
2500.00	35.89	27.55	5.49	29.93	39.00	54.00	-15.00	Vertical

Remark:

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

7.7 Spurious Emission

7.7.1 Conducted Emission Method

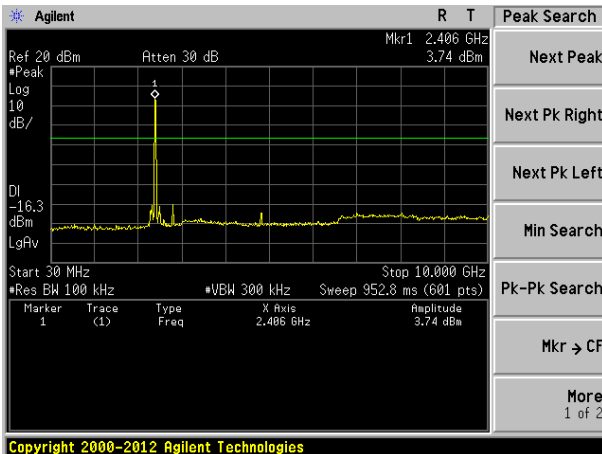
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	 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 5.3 for details
Test results:	Pass

Test plot as follows:

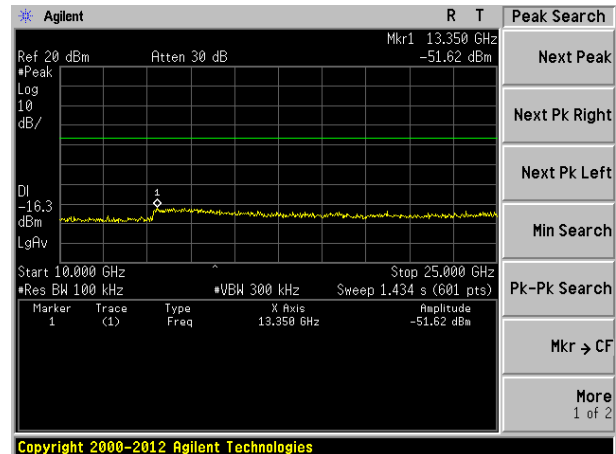
Antenna 0:

Test mode:	802.11b
------------	---------

Lowest channel

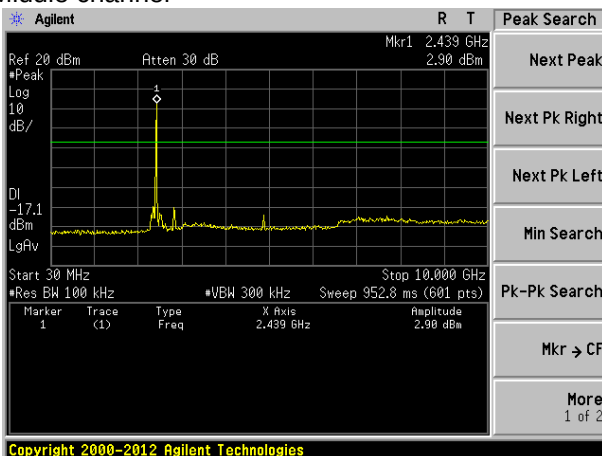


30MHz~10GHz

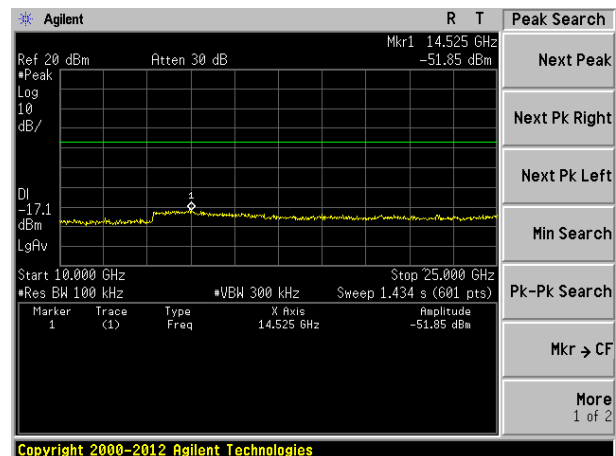


10GHz~25GHz

Middle channel

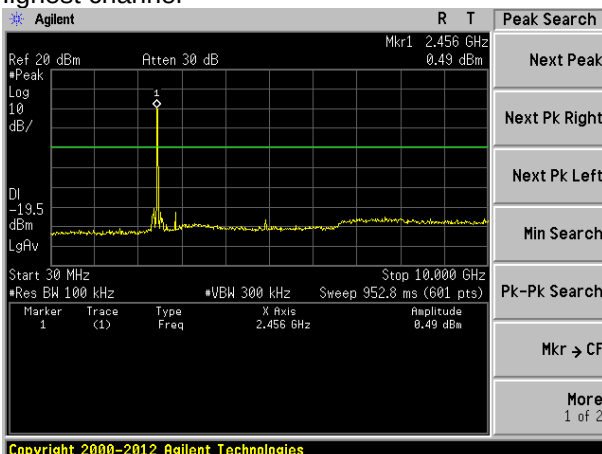


30MHz~10GHz

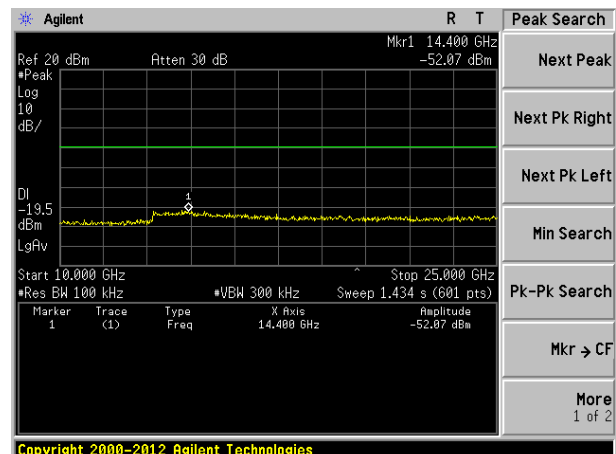


10GHz~25GHz

Highest channel



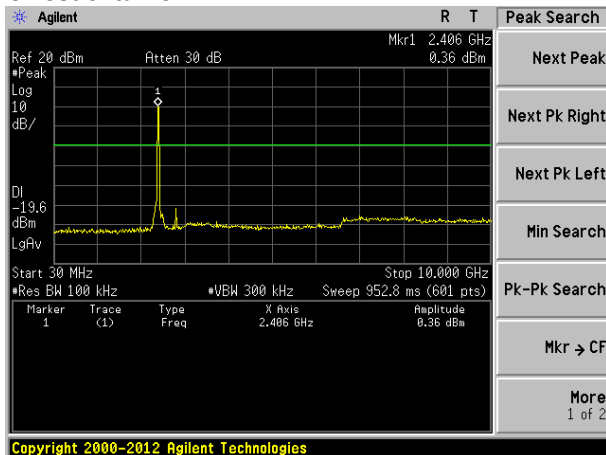
30MHz~10GHz



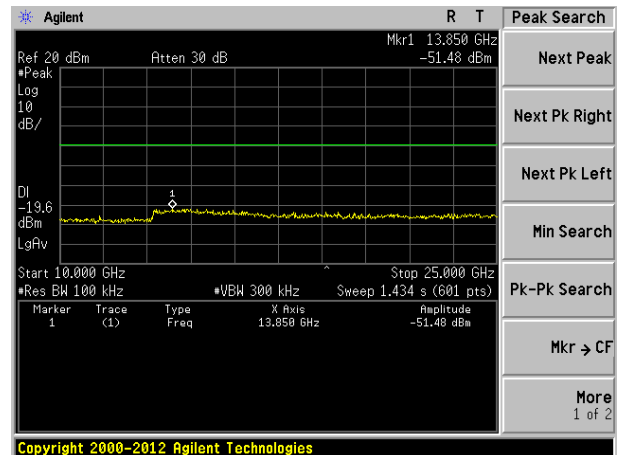
10GHz~25GHz

Test mode:	802.11g
------------	---------

Lowest channel

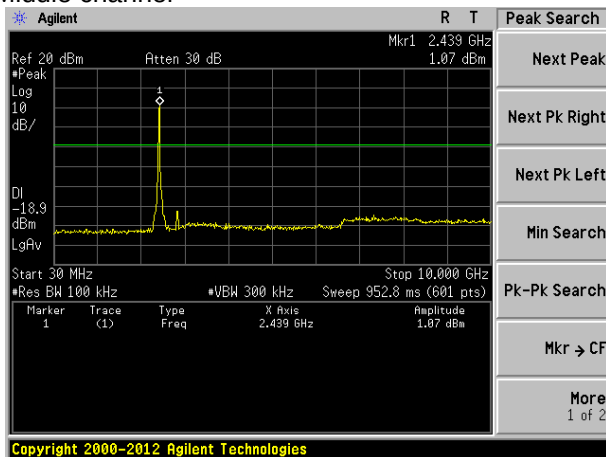


30MHz~10GHz

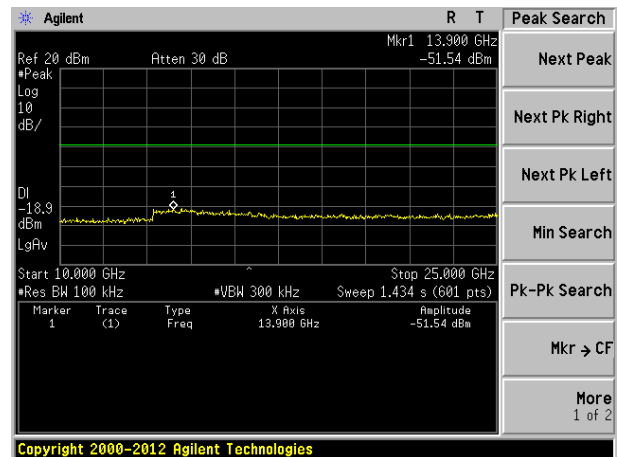


10GHz~25GHz

Middle channel

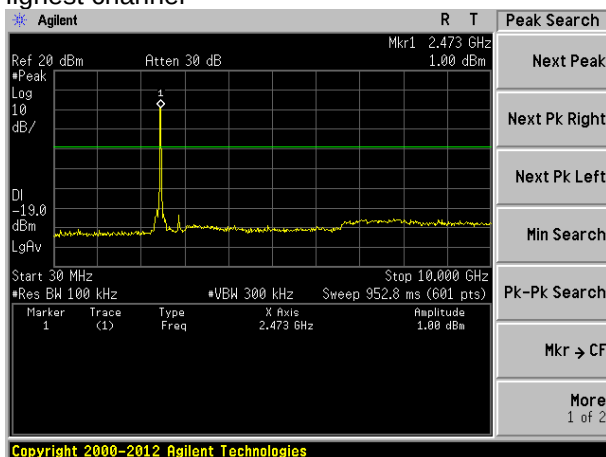


30MHz~10GHz

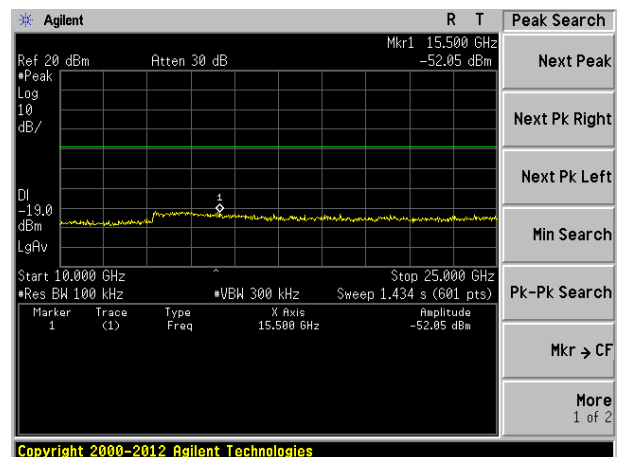


10GHz~25GHz

Highest channel



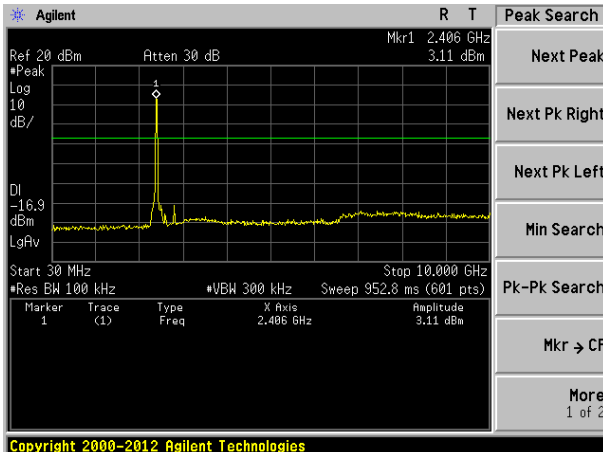
30MHz~10GHz



10GHz~25GHz

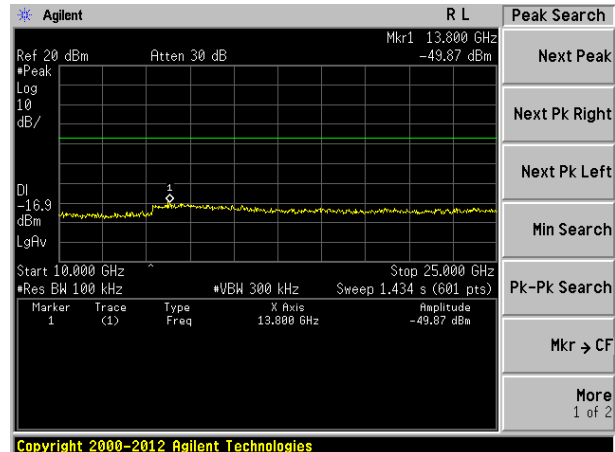
Test mode:	802.11n(HT20)
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Lowest channel



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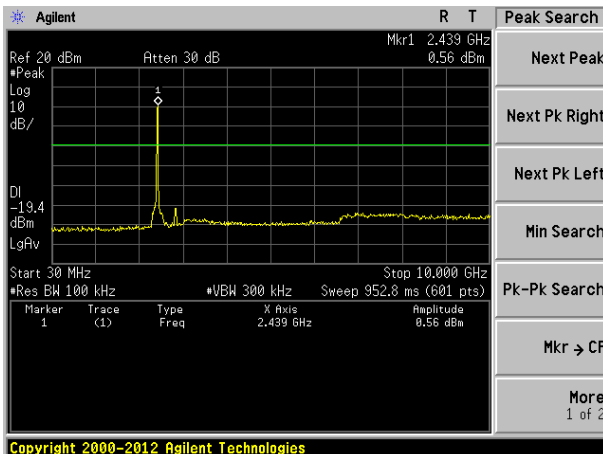
30MHz~10GHz



Copyright 2000-2012 Agilent Technologies

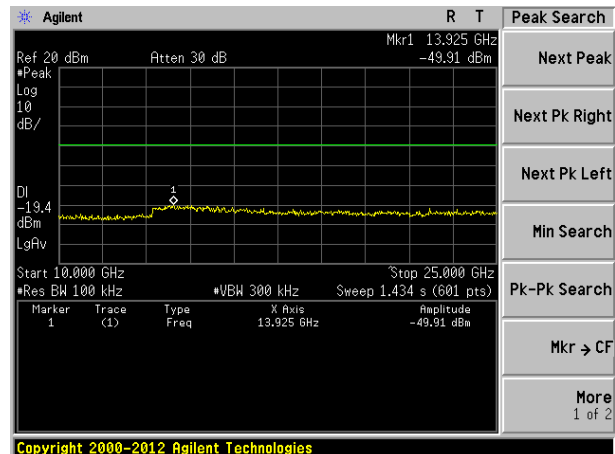
10GHz~25GHz

Middle channel



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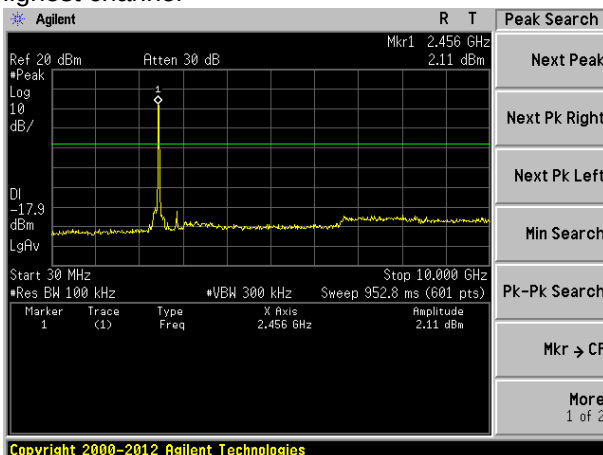
30MHz~10GHz



Copyright 2000-2012 Agilent Technologies

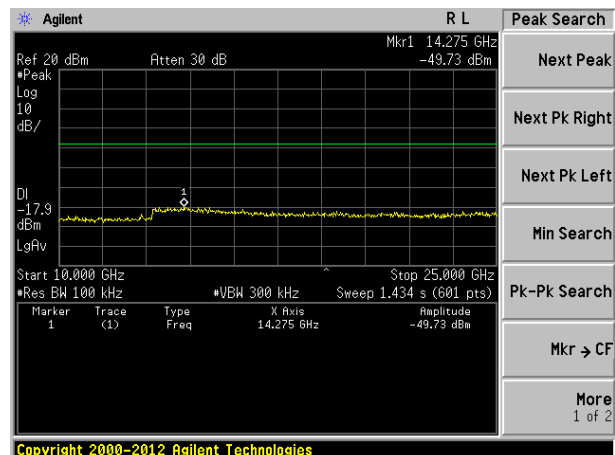
10GHz~25GHz

Highest channel



Copyright 2000-2012 Agilent Technologies

30MHz~10GHz



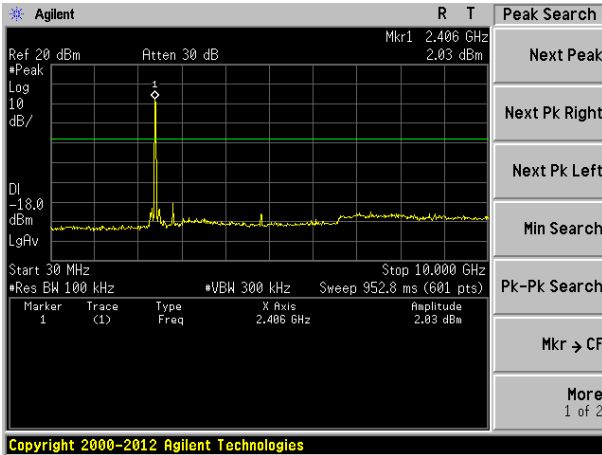
Copyright 2000-2012 Agilent Technologies

10GHz~25GHz

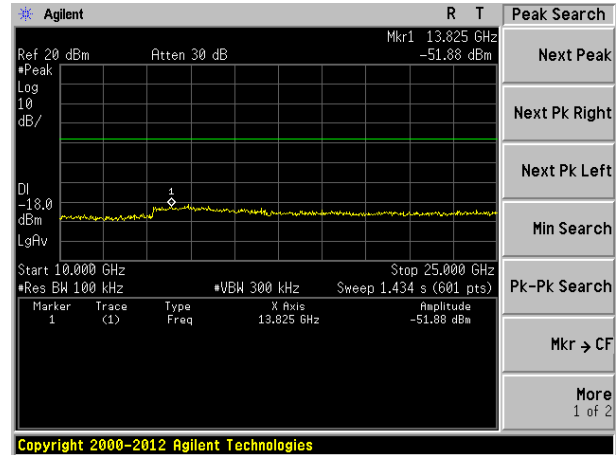
Antenna 1:

Test mode:	802.11b
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Lowest channel

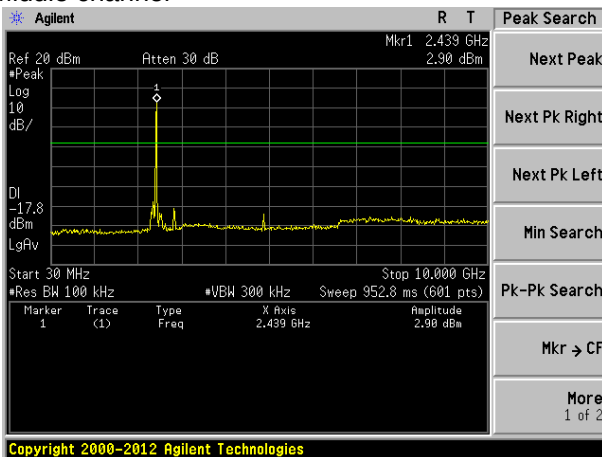


30MHz~10GHz

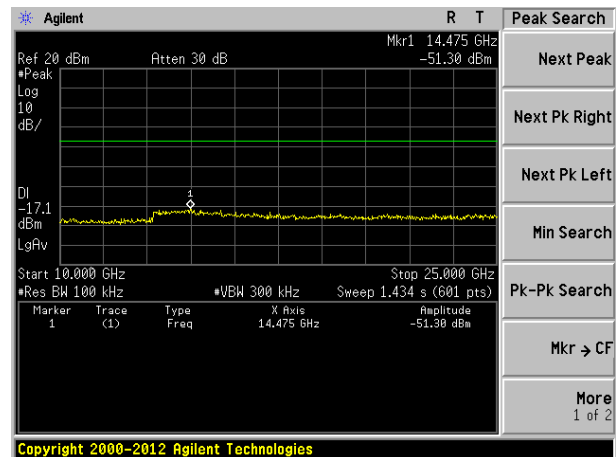


10GHz~25GHz

Middle channel

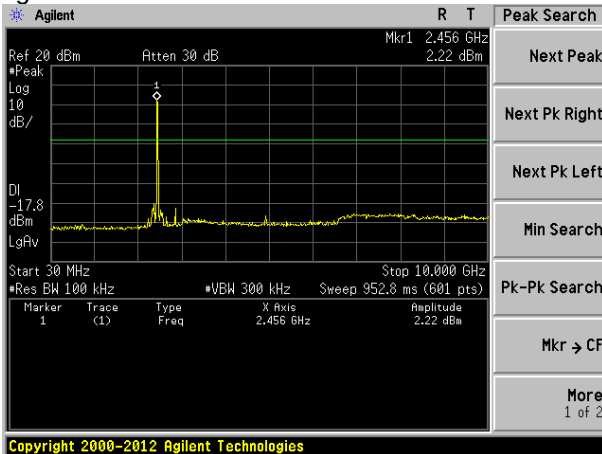


30MHz~10GHz

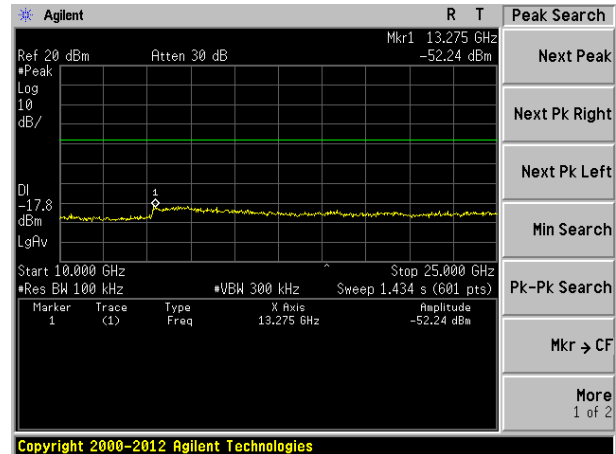


10GHz~25GHz

Highest channel



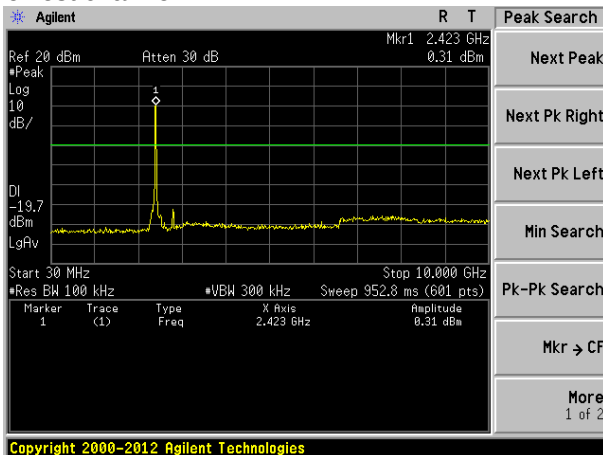
30MHz~10GHz



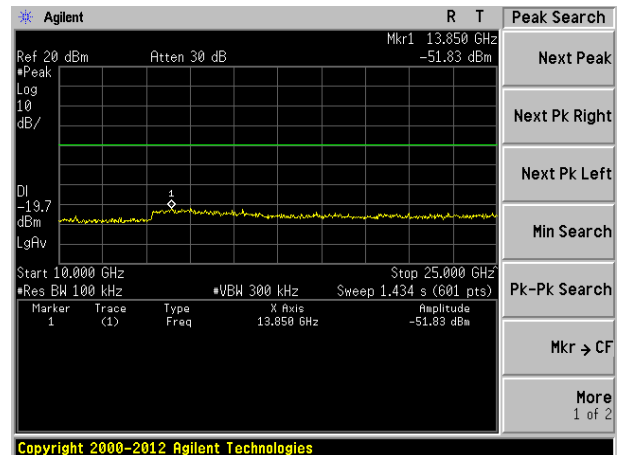
10GHz~25GHz

Test mode:	802.11g
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Lowest channel

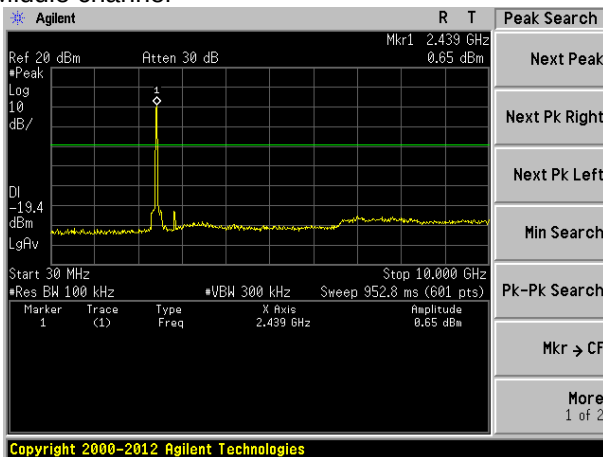


30MHz~10GHz

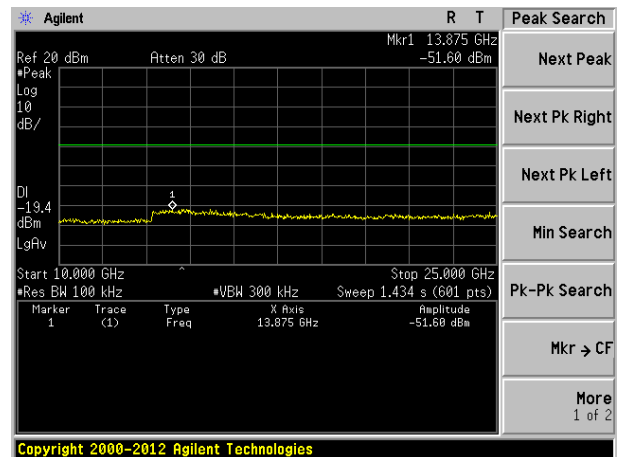


10GHz~25GHz

Middle channel

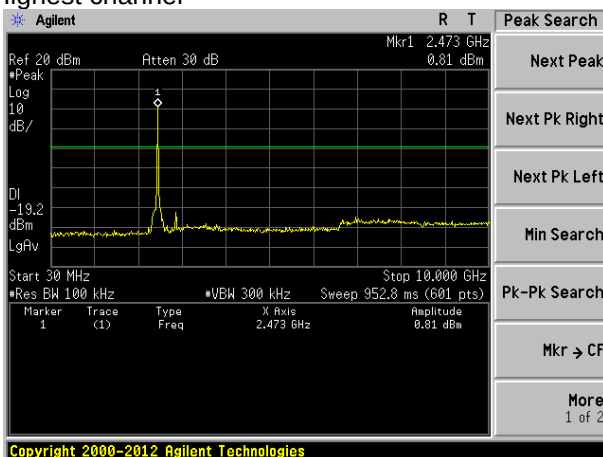


30MHz~10GHz

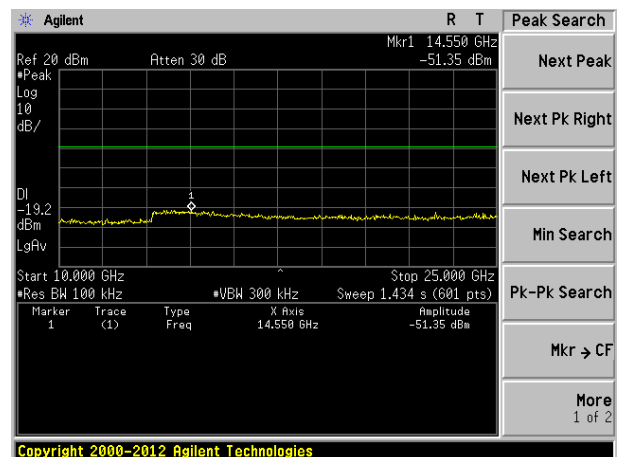


10GHz~25GHz

Highest channel



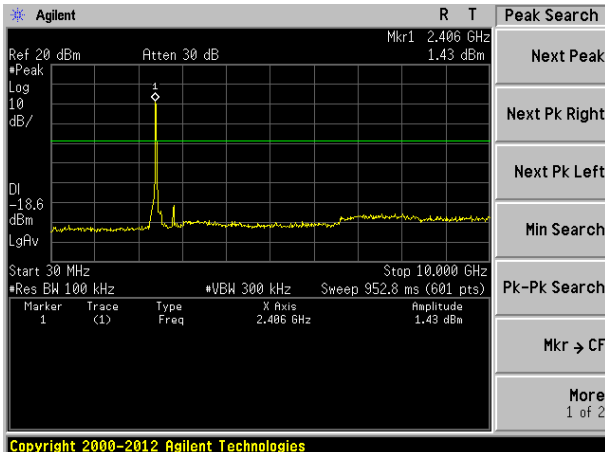
30MHz~10GHz



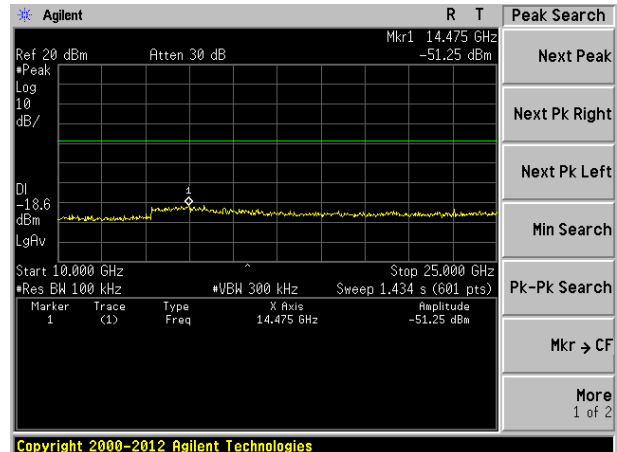
10GHz~25GHz

Test mode:	802.11n(HT20)
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Lowest channel

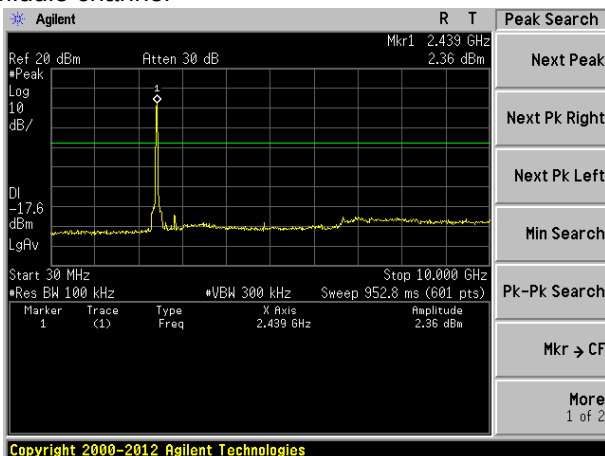


30MHz~10GHz

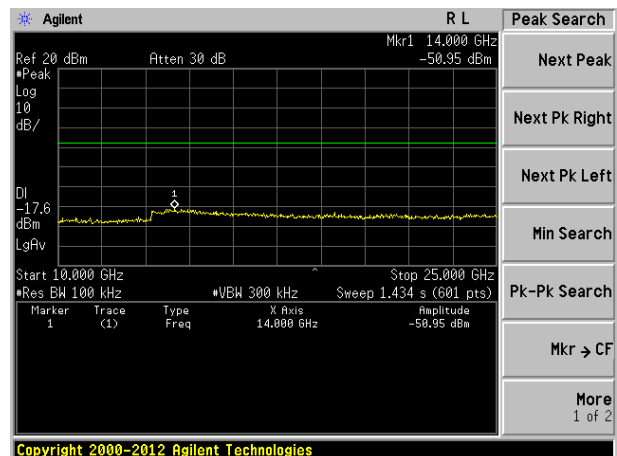


10GHz~25GHz

Middle channel

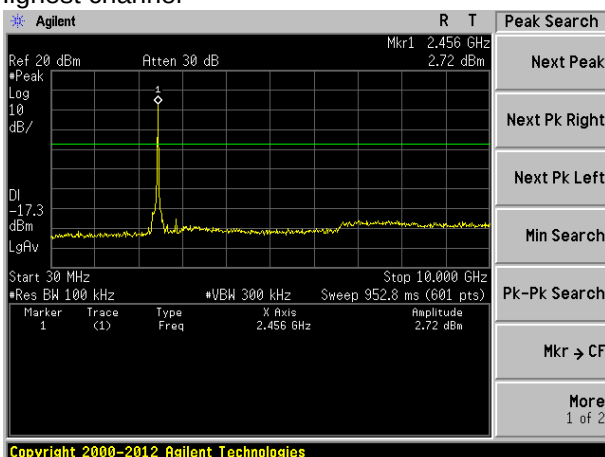


30MHz~10GHz

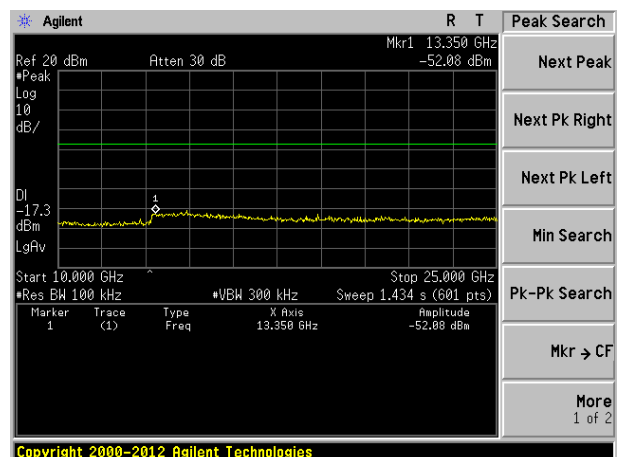


10GHz~25GHz

Highest channel

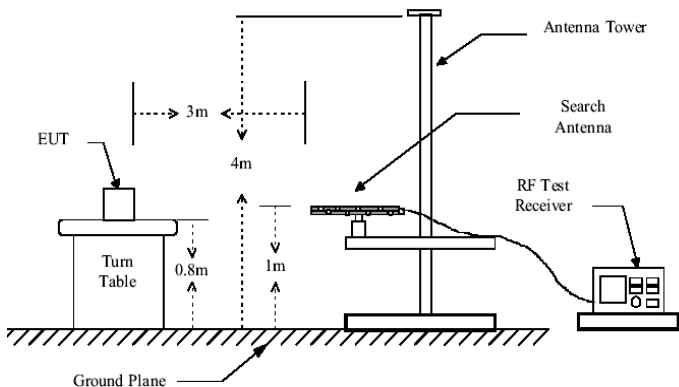
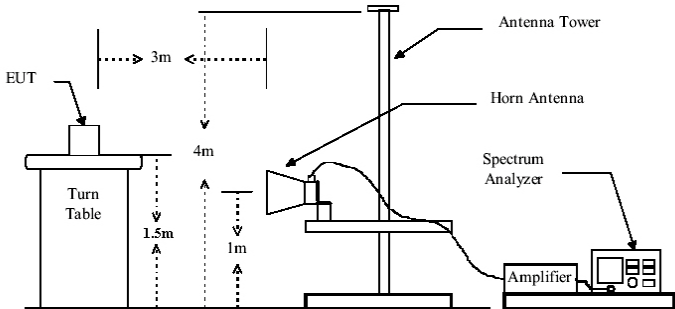


30MHz~10GHz



10GHz~25GHz

7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	30MHz to 40GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
Peak		1MHz	10Hz	Average	
Limit:	Frequency		Limit (dBuV/m @3m)		Value
	30MHz-88MHz		40.00		Quasi-peak
	88MHz-216MHz		43.50		Quasi-peak
	216MHz-960MHz		46.00		Quasi-peak
	960MHz-1GHz		54.00		Quasi-peak
	Above 1GHz		54.00		Average
74.00			Peak		
Test setup:	Below 1GHz				
					
	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 5.3 for details
Test results:	Pass

Remark:

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

Measurement Data

■ Below 1GHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
41.57	33.44	15.57	0.68	30.04	19.65	40.00	-20.35	Vertical
68.63	29.56	11.20	0.93	29.86	11.83	40.00	-28.17	Vertical
128.56	43.00	11.12	1.43	29.52	26.03	43.50	-17.47	Vertical
201.39	36.99	12.60	1.85	29.21	22.23	43.50	-21.27	Vertical
357.93	33.72	16.38	2.66	29.70	23.06	46.00	-22.94	Vertical
711.67	30.42	20.95	4.13	29.20	26.30	46.00	-19.70	Vertical
53.32	32.28	15.10	0.80	29.97	18.21	40.00	-21.79	Horizontal
82.36	39.25	11.43	1.05	29.78	21.95	40.00	-18.05	Horizontal
155.36	37.17	10.48	1.60	29.38	19.87	43.50	-23.63	Horizontal
275.16	41.29	14.55	2.25	29.83	28.26	46.00	-17.74	Horizontal
381.25	33.03	16.64	2.77	29.59	22.85	46.00	-23.15	Horizontal
593.05	28.04	20.35	3.70	29.30	22.79	46.00	-23.21	Horizontal

■ Above 1GHz

802.11b SISO mode: ANT0

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
4824.00	40.53	31.79	8.62	32.10	48.84	74.00	-25.16	Vertical
7236.00	34.37	36.19	11.68	31.97	50.27	74.00	-23.73	Vertical
9648.00	32.82	38.07	14.16	31.56	53.49	74.00	-20.51	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	39.16	31.79	8.62	32.10	47.47	74.00	-26.53	Horizontal
7236.00	34.10	36.19	11.68	31.97	50.00	74.00	-24.00	Horizontal
9648.00	32.39	38.07	14.16	31.56	53.06	74.00	-20.94	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)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	29.60	31.79	8.62	32.10	37.91	54.00	-16.09	Vertical
7236.00	23.23	36.19	11.68	31.97	39.13	54.00	-14.87	Vertical
9648.00	23.16	38.07	14.16	31.56	43.83	54.00	-10.17	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.69	31.79	8.62	32.10	37.00	54.00	-17.00	Horizontal
7236.00	22.68	36.19	11.68	31.97	38.58	54.00	-15.42	Horizontal
9648.00	22.14	38.07	14.16	31.56	42.81	54.00	-11.19	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

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

Test mode:	802.11b	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	39.55	31.85	8.66	32.12	47.94	74.00	-26.06	Vertical
7311.00	34.41	36.37	11.71	31.91	50.58	74.00	-23.42	Vertical
9748.00	33.82	38.27	14.25	31.56	54.78	74.00	-19.22	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.99	31.85	8.66	32.12	48.38	74.00	-25.62	Horizontal
7311.00	33.04	36.37	11.71	31.91	49.21	74.00	-24.79	Horizontal
9748.00	33.70	38.27	14.25	31.56	54.66	74.00	-19.34	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	30.38	31.85	8.66	32.12	38.77	54.00	-15.23	Vertical
7311.00	22.73	36.37	11.71	31.91	38.90	54.00	-15.10	Vertical
9748.00	23.07	38.27	14.25	31.56	44.03	54.00	-9.97	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	30.10	31.85	8.66	32.12	38.49	54.00	-15.51	Horizontal
7311.00	22.12	36.37	11.71	31.91	38.29	54.00	-15.71	Horizontal
9748.00	23.42	38.27	14.25	31.56	44.38	54.00	-9.62	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

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

Test mode:	802.11b	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	45.22	31.90	8.70	32.15	53.67	74.00	-20.33	Vertical
7386.00	35.18	36.49	11.76	31.83	51.60	74.00	-22.40	Vertical
9848.00	37.18	38.62	14.31	31.77	58.34	74.00	-15.66	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	44.47	31.90	8.70	32.15	52.92	74.00	-21.08	Horizontal
7386.00	34.05	36.49	11.76	31.83	50.47	74.00	-23.53	Horizontal
9848.00	33.34	38.62	14.31	31.77	54.50	74.00	-19.50	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	36.11	31.90	8.70	32.15	44.56	54.00	-9.44	Vertical
7386.00	25.09	36.49	11.76	31.83	41.51	54.00	-12.49	Vertical
9848.00	25.68	38.62	14.31	31.77	46.84	54.00	-7.16	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.82	31.90	8.70	32.15	43.27	54.00	-10.73	Horizontal
7386.00	23.44	36.49	11.76	31.83	39.86	54.00	-14.14	Horizontal
9848.00	22.59	38.62	14.31	31.77	43.75	54.00	-10.25	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

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

802.11b SISO mode: ANT1

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	39.23	31.81	8.63	32.11	47.56	74.00	-26.44	Vertical
7236.00	33.55	36.28	11.69	31.94	49.58	74.00	-24.42	Vertical
9648.00	32.24	38.13	14.21	31.52	53.06	74.00	-20.94	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.07	31.81	8.63	32.11	46.40	74.00	-27.60	Horizontal
7236.00	33.38	36.28	11.69	31.94	49.41	74.00	-24.59	Horizontal
9648.00	31.85	38.13	14.21	31.52	52.67	74.00	-21.33	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	28.40	31.81	8.63	32.11	36.73	54.00	-17.27	Vertical
7236.00	22.44	36.28	11.69	31.94	38.47	54.00	-15.53	Vertical
9648.00	22.60	38.13	14.21	31.52	43.42	54.00	-10.58	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	27.66	31.81	8.63	32.11	35.99	54.00	-18.01	Horizontal
7236.00	21.98	36.28	11.69	31.94	38.01	54.00	-15.99	Horizontal
9648.00	21.61	38.13	14.21	31.52	42.43	54.00	-11.57	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

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

Test mode:	802.11b	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	38.47	31.85	8.66	32.12	46.86	74.00	-27.14	Vertical
7311.00	33.74	36.37	11.71	31.91	49.91	74.00	-24.09	Vertical
9748.00	33.34	38.27	14.25	31.56	54.30	74.00	-19.70	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.09	31.85	8.66	32.12	47.48	74.00	-26.52	Horizontal
7311.00	32.45	36.37	11.71	31.91	48.62	74.00	-25.38	Horizontal
9748.00	33.26	38.27	14.25	31.56	54.22	74.00	-19.78	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

Average value:

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	29.40	31.85	8.66	32.12	37.79	54.00	-16.21	Vertical
7311.00	22.07	36.37	11.71	31.91	38.24	54.00	-15.76	Vertical
9748.00	22.61	38.27	14.25	31.56	43.57	54.00	-10.43	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.25	31.85	8.66	32.12	37.64	54.00	-16.36	Horizontal
7311.00	21.55	36.37	11.71	31.91	37.72	54.00	-16.28	Horizontal
9748.00	22.98	38.27	14.25	31.56	43.94	54.00	-10.06	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “*”, means this data is the 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	43.37	31.88	8.68	32.13	51.80	74.00	-22.20	Vertical
7386.00	34.01	36.45	11.75	31.86	50.35	74.00	-23.65	Vertical
9848.00	36.35	38.43	14.29	31.68	57.39	74.00	-16.61	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	42.91	31.88	8.68	32.13	51.34	74.00	-22.66	Horizontal
7386.00	33.03	36.45	11.75	31.86	49.37	74.00	-24.63	Horizontal
9848.00	32.57	38.43	14.29	31.68	53.61	74.00	-20.39	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	34.40	31.88	8.68	32.13	42.83	54.00	-11.17	Vertical
7386.00	23.96	36.45	11.75	31.86	40.30	54.00	-13.70	Vertical
9848.00	24.88	38.43	14.29	31.68	45.92	54.00	-8.08	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	33.35	31.88	8.68	32.13	41.78	54.00	-12.22	Horizontal
7386.00	22.45	36.45	11.75	31.86	38.79	54.00	-15.21	Horizontal
9848.00	21.85	38.43	14.29	31.68	42.89	54.00	-11.11	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

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

802.11g SISO mode: ANT0

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	40.06	31.79	8.62	32.10	48.37	74.00	-25.63	Vertical
7236.00	34.07	36.19	11.68	31.97	49.97	74.00	-24.03	Vertical
9648.00	32.61	38.07	14.16	31.56	53.28	74.00	-20.72	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.77	31.79	8.62	32.10	47.08	74.00	-26.92	Horizontal
7236.00	33.84	36.19	11.68	31.97	49.74	74.00	-24.26	Horizontal
9648.00	32.19	38.07	14.16	31.56	52.86	74.00	-21.14	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	29.16	31.79	8.62	32.10	37.47	54.00	-16.53	Vertical
7236.00	22.94	36.19	11.68	31.97	38.84	54.00	-15.16	Vertical
9648.00	22.96	38.07	14.16	31.56	43.63	54.00	-10.37	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.32	31.79	8.62	32.10	36.63	54.00	-17.37	Horizontal
7236.00	22.42	36.19	11.68	31.97	38.32	54.00	-15.68	Horizontal
9648.00	21.95	38.07	14.16	31.56	42.62	54.00	-11.38	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor*
2. *"*", means this data is the 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	39.16	31.85	8.66	32.12	47.55	74.00	-26.45	Vertical
7311.00	34.17	36.37	11.71	31.91	50.34	74.00	-23.66	Vertical
9748.00	33.65	38.27	14.25	31.56	54.61	74.00	-19.39	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.67	31.85	8.66	32.12	48.06	74.00	-25.94	Horizontal
7311.00	32.82	36.37	11.71	31.91	48.99	74.00	-25.01	Horizontal
9748.00	33.54	38.27	14.25	31.56	54.50	74.00	-19.50	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	30.02	31.85	8.66	32.12	38.41	54.00	-15.59	Vertical
7311.00	22.49	36.37	11.71	31.91	38.66	54.00	-15.34	Vertical
9748.00	22.90	38.27	14.25	31.56	43.86	54.00	-10.14	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.79	31.85	8.66	32.12	38.18	54.00	-15.82	Horizontal
7311.00	21.91	36.37	11.71	31.91	38.08	54.00	-15.92	Horizontal
9748.00	23.26	38.27	14.25	31.56	44.22	54.00	-9.78	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

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

Test mode:	802.11g	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	44.55	31.90	8.70	32.15	53.00	74.00	-21.00	Vertical
7386.00	34.75	36.49	11.76	31.83	51.17	74.00	-22.83	Vertical
9848.00	36.88	38.62	14.31	31.77	58.04	74.00	-15.96	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	43.90	31.90	8.70	32.15	52.35	74.00	-21.65	Horizontal
7386.00	33.68	36.49	11.76	31.83	50.10	74.00	-23.90	Horizontal
9848.00	33.06	38.62	14.31	31.77	54.22	74.00	-19.78	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	35.49	31.90	8.70	32.15	43.94	54.00	-10.06	Vertical
7386.00	24.68	36.49	11.76	31.83	41.10	54.00	-12.90	Vertical
9848.00	25.39	38.62	14.31	31.77	46.55	54.00	-7.45	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.29	31.90	8.70	32.15	42.74	54.00	-11.26	Horizontal
7386.00	23.08	36.49	11.76	31.83	39.50	54.00	-14.50	Horizontal
9848.00	22.32	38.62	14.31	31.77	43.48	54.00	-10.52	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

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

802.11g SISO mode: ANT1

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	39.59	31.79	8.62	32.10	47.90	74.00	-26.10	Vertical
7236.00	33.77	36.19	11.68	31.97	49.67	74.00	-24.33	Vertical
9648.00	32.40	38.07	14.16	31.56	53.07	74.00	-20.93	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.37	31.79	8.62	32.10	46.68	74.00	-27.32	Horizontal
7236.00	33.58	36.19	11.68	31.97	49.48	74.00	-24.52	Horizontal
9648.00	32.00	38.07	14.16	31.56	52.67	74.00	-21.33	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	28.73	31.79	8.62	32.10	37.04	54.00	-16.96	Vertical
7236.00	22.66	36.19	11.68	31.97	38.56	54.00	-15.44	Vertical
9648.00	22.76	38.07	14.16	31.56	43.43	54.00	-10.57	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	27.94	31.79	8.62	32.10	36.25	54.00	-17.75	Horizontal
7236.00	22.17	36.19	11.68	31.97	38.07	54.00	-15.93	Horizontal
9648.00	21.76	38.07	14.16	31.56	42.43	54.00	-11.57	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamp Factor
2. “*”, means this data is the 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	38.77	31.85	8.66	32.12	47.16	74.00	-26.84	Vertical
7311.00	33.92	36.37	11.71	31.91	50.09	74.00	-23.91	Vertical
9748.00	33.47	38.27	14.25	31.56	54.43	74.00	-19.57	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.34	31.85	8.66	32.12	47.73	74.00	-26.27	Horizontal
7311.00	32.61	36.37	11.71	31.91	48.78	74.00	-25.22	Horizontal
9748.00	33.38	38.27	14.25	31.56	54.34	74.00	-19.66	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	29.67	31.85	8.66	32.12	38.06	54.00	-15.94	Vertical
7311.00	22.25	36.37	11.71	31.91	38.42	54.00	-15.58	Vertical
9748.00	22.73	38.27	14.25	31.56	43.69	54.00	-10.31	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.48	31.85	8.66	32.12	37.87	54.00	-16.13	Horizontal
7311.00	21.71	36.37	11.71	31.91	37.88	54.00	-16.12	Horizontal
9748.00	23.10	38.27	14.25	31.56	44.06	54.00	-9.94	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

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

Test mode:	802.11g	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	43.88	31.90	8.70	32.15	52.33	74.00	-21.67	Vertical
7386.00	34.33	36.49	11.76	31.83	50.75	74.00	-23.25	Vertical
9848.00	36.58	38.62	14.31	31.77	57.74	74.00	-16.26	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	43.34	31.90	8.70	32.15	51.79	74.00	-22.21	Horizontal
7386.00	33.31	36.49	11.76	31.83	49.73	74.00	-24.27	Horizontal
9848.00	32.78	38.62	14.31	31.77	53.94	74.00	-20.06	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	34.87	31.90	8.70	32.15	43.32	54.00	-10.68	Vertical
7386.00	24.27	36.49	11.76	31.83	40.69	54.00	-13.31	Vertical
9848.00	25.10	38.62	14.31	31.77	46.26	54.00	-7.74	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	33.76	31.90	8.70	32.15	42.21	54.00	-11.79	Horizontal
7386.00	22.72	36.49	11.76	31.83	39.14	54.00	-14.86	Horizontal
9848.00	22.06	38.62	14.31	31.77	43.22	54.00	-10.78	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

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

802.11n MIMO mode: ANT0+ANT1

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	39.68	31.79	8.62	32.10	47.99	74.00	-26.01	Vertical
7236.00	33.83	36.19	11.68	31.97	49.73	74.00	-24.27	Vertical
9648.00	32.44	38.07	14.16	31.56	53.11	74.00	-20.89	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.45	31.79	8.62	32.10	46.76	74.00	-27.24	Horizontal
7236.00	33.63	36.19	11.68	31.97	49.53	74.00	-24.47	Horizontal
9648.00	32.04	38.07	14.16	31.56	52.71	74.00	-21.29	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	28.81	31.79	8.62	32.10	37.12	54.00	-16.88	Vertical
7236.00	22.71	36.19	11.68	31.97	38.61	54.00	-15.39	Vertical
9648.00	22.80	38.07	14.16	31.56	43.47	54.00	-10.53	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.02	31.79	8.62	32.10	36.33	54.00	-17.67	Horizontal
7236.00	22.22	36.19	11.68	31.97	38.12	54.00	-15.88	Horizontal
9648.00	21.79	38.07	14.16	31.56	42.46	54.00	-11.54	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

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

Test mode:	802.11n(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	38.84	31.85	8.66	32.12	47.23	74.00	-26.77	Vertical
7311.00	33.97	36.37	11.71	31.91	50.14	74.00	-23.86	Vertical
9748.00	33.50	38.27	14.25	31.56	54.46	74.00	-19.54	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.40	31.85	8.66	32.12	47.79	74.00	-26.21	Horizontal
7311.00	32.65	36.37	11.71	31.91	48.82	74.00	-25.18	Horizontal
9748.00	33.41	38.27	14.25	31.56	54.37	74.00	-19.63	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	29.74	31.85	8.66	32.12	38.13	54.00	-15.87	Vertical
7311.00	22.30	36.37	11.71	31.91	38.47	54.00	-15.53	Vertical
9748.00	22.77	38.27	14.25	31.56	43.73	54.00	-10.27	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.54	31.85	8.66	32.12	37.93	54.00	-16.07	Horizontal
7311.00	21.75	36.37	11.71	31.91	37.92	54.00	-16.08	Horizontal
9748.00	23.13	38.27	14.25	31.56	44.09	54.00	-9.91	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

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

Test mode:	802.11n(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	44.01	31.90	8.70	32.15	52.46	74.00	-21.54	Vertical
7386.00	34.41	36.49	11.76	31.83	50.83	74.00	-23.17	Vertical
9848.00	36.63	38.62	14.31	31.77	57.79	74.00	-16.21	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	43.45	31.90	8.70	32.15	51.90	74.00	-22.10	Horizontal
7386.00	33.38	36.49	11.76	31.83	49.80	74.00	-24.20	Horizontal
9848.00	32.84	38.62	14.31	31.77	54.00	74.00	-20.00	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

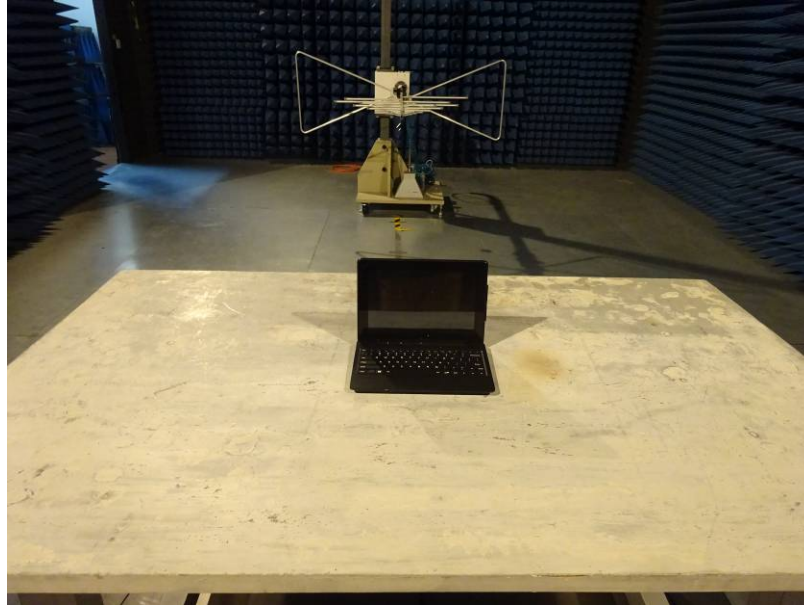
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	34.99	31.90	8.70	32.15	43.44	54.00	-10.56	Vertical
7386.00	24.35	36.49	11.76	31.83	40.77	54.00	-13.23	Vertical
9848.00	25.15	38.62	14.31	31.77	46.31	54.00	-7.69	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	33.86	31.90	8.70	32.15	42.31	54.00	-11.69	Horizontal
7386.00	22.79	36.49	11.76	31.83	39.21	54.00	-14.79	Horizontal
9848.00	22.11	38.62	14.31	31.77	43.27	54.00	-10.73	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

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

8 Test Setup Photo

Radiated Emission



Conducted Emission



9 EUT Constructional Details

Reference to the test report No. GTSE15100194401

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