

# TEST REPORT

**Applicant:** Osborne Technologies Limited

**Address of Applicant:** Unit 14 Capitol Court, Capitol Park, Dodworth, Barnsley, South Yorkshire, United Kingdom

**Manufacturer:** Osborne Technologies Limited

**Address of Manufacturer:** Unit 14 Capitol Court, Capitol Park, Dodworth, Barnsley, South Yorkshire, United Kingdom

**Equipment Under Test (EUT)**

Product Name: AIO Video Conferencing Unit

Model No.: TC03

Trade Mark: TANGO

**FCC ID:** 2AYJ4-TC03

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

**Date of sample receipt:** Dec. 25, 2020

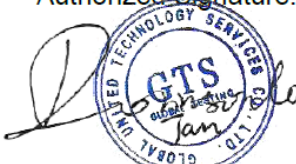
**Date of Test:** Dec. 25, 2020 to Jan. 07, 2021

**Date of report issued:** Jan. 07, 2021

**Test Result :** PASS \*

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

Authorized Signature:



**Robinson Luo**  
**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	Jan. 07, 2021	Original

Prepared By:

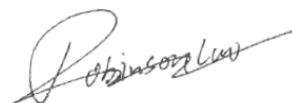


Date:

Jan. 07, 2021

Project Engineer

Check By:



Date:

Jan. 07, 2021

Reviewer

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## 4 Test Summary

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

*Remark: Test according to ANSI C63.10:2013 and RSS-Gen*

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

### Measurement Uncertainty

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

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

## 5 General Information

### 5.1 General Description of EUT

Product Name:	AIO Video Conferencing Unit
Model No.:	TC03
Serial No.:	N/A
Hardware Version:	H1.0
Software Version:	S1.0
Test sample(s) ID:	GTSL202012000316-1
Sample(s) Status:	Engineer sample
Sample(s) Status	Engineer sample
Channel numbers:	802.11b/802.11g /802.11n(HT20):11 802.11n(HT40):7
Channel separation:	5MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n(H20)/802.11n(HT40): Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	FPCB Antenna
Antenna gain:	Ant1: 0dBi Ant2: 0dBi
	The Antenna 1 support for 2.4G, the Antenna 2 support for 2.4G, 2.4G transmitting do not support MIMO.
Power supply:	AC120V,60Hz

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	X	

**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 &gt;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.
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## 5.4 Deviation from Standards

None.
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## 5.5 Abnormalities from Standard Conditions

None.
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## 5.6 Test Facility

<p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> <li>● <b>FCC —Registration No.: 381383</b> 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.</li> <li>● <b>IC —Registration No.: 9079A</b> 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</li> <li>● <b>NVLAP (LAB CODE:600179-0)</b> Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0</li> </ul>
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## 5.7 Test Location

All tests were performed at:
<p>Global United Technology Services Co., Ltd. Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Tel: 0755-27798480 Fax: 0755-27798960</p>

## 5.8 Additional Instructions

Test Software	Realtek Test Tool
Power level setup	<15dBm

## 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. 02 2020	July. 01 2025
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. 25 2020	June. 24 2021
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 25 2020	June. 24 2021
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 25 2020	June. 24 2021
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 25 2020	June. 24 2021
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June. 25 2020	June. 24 2021
9	Coaxial Cable	GTS	N/A	GTS211	June. 25 2020	June. 24 2021
10	Coaxial cable	GTS	N/A	GTS210	June. 25 2020	June. 24 2021
11	Coaxial Cable	GTS	N/A	GTS212	June. 25 2020	June. 24 2021
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 25 2020	June. 24 2021
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 25 2020	June. 24 2021
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 25 2020	June. 24 2021
15	Band filter	Amindeon	82346	GTS219	June. 25 2020	June. 24 2021
16	Power Meter	Anritsu	ML2495A	GTS540	June. 25 2020	June. 24 2021
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 25 2020	June. 24 2021
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 25 2020	June. 24 2021
19	Splitter	Agilent	11636B	GTS237	June. 25 2020	June. 24 2021
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 25 2020	June. 24 2021
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 19 2020	Oct. 18 2021
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 19 2020	Oct. 18 2021
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 19 2020	Oct. 18 2021
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 25 2020	June. 24 2021



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. 25 2020	June. 24 2021
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 25 2020	June. 24 2021
4	ENV216 2-L-V-NETZNACHB.DE	ROHDE&SCHWARZ	ENV216	GTS226	June. 25 2020	June. 24 2021
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. 25 2020	June. 24 2021
8	Absorbing clamp	Elektronik-Feinmechanik	MDS21	GTS229	June. 25 2020	June. 24 2021
9	ISN	SCHWARZBECK	NTFM 8158	GTD565	June. 25 2020	June. 24 2021

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. 25 2020	June. 24 2021
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 25 2020	June. 24 2021
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 25 2020	June. 24 2021
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 25 2020	June. 24 2021
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 25 2020	June. 24 2021
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 25 2020	June. 24 2021
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 25 2020	June. 24 2021
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 25 2020	June. 24 2021

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. 25 2020	June. 24 2021
2	Barometer	ChangChun	DYM3	GTS255	June. 25 2020	June. 24 2021

## 7 Test results and Measurement Data

### 7.1 Antenna requirement

<b>Standard requirement:</b>	FCC Part15 C Section 15.203 /247(c)
<p><b>15.203 requirement:</b>            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.</p> <p><b>15.247(c) (1)(i) requirement:</b>            (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.</p>	
<b>EUT Antenna:</b>	
<p><i>The antennas are internal permanent antenna, the best case gain of the antennas are 0dBi, reference to the appendix II for details</i></p>	

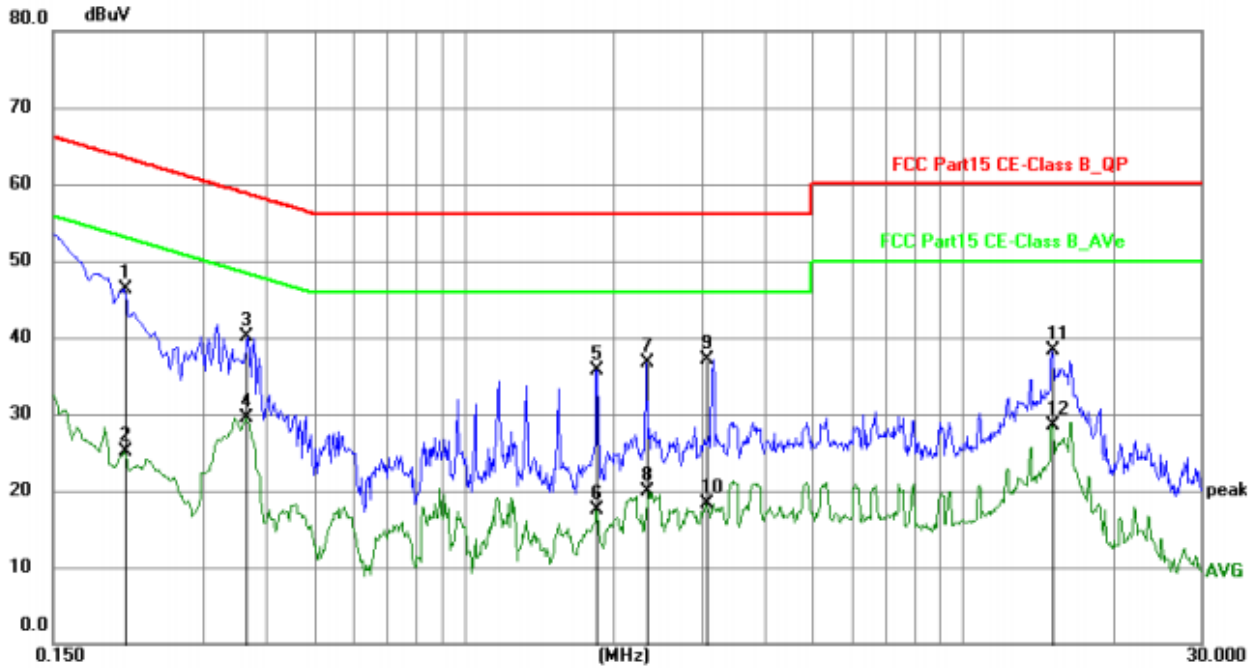
## 7.2 Conducted Emissions

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:	<p>Remark E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>					
Test procedure:	<ol style="list-style-type: none"> <li>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.</li> <li>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).</li> <li>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.</li> </ol>					
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: Both high and low voltages have been tested to show only the worst low voltage test data.

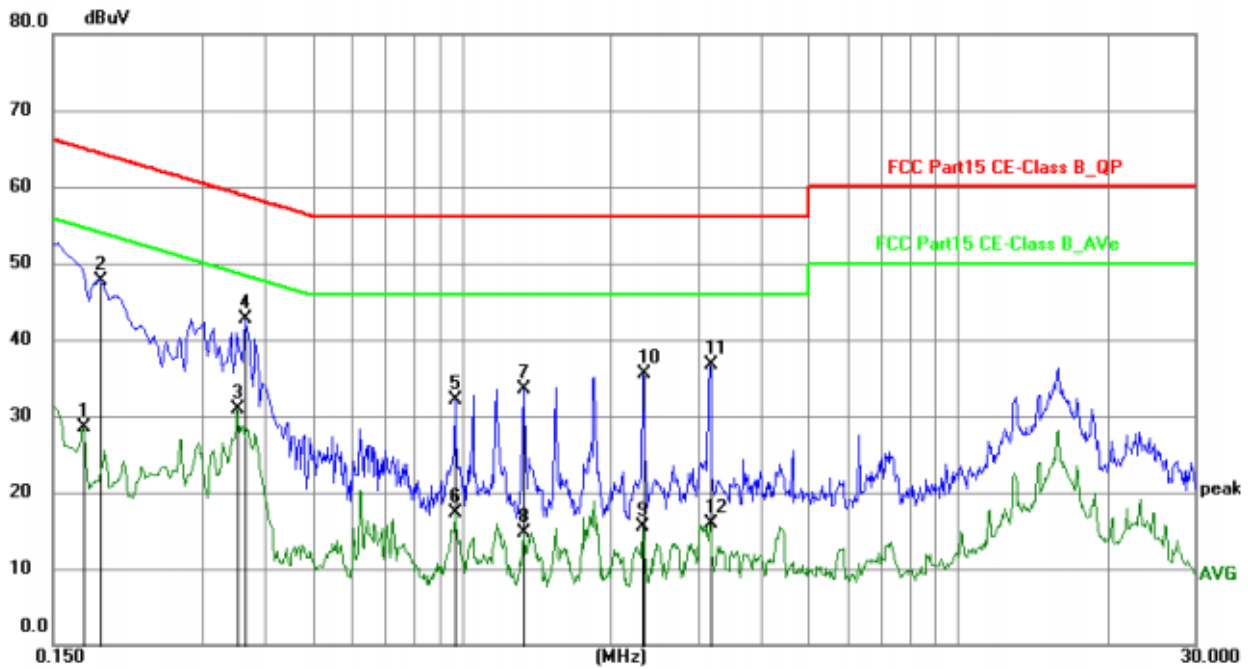
**Measurement data**

Line:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2085	34.44	11.88	46.32	63.26	-16.94	QP	P	
2	0.2085	13.18	11.88	25.06	53.26	-28.20	AVG	P	
3	0.3660	29.02	11.16	40.18	58.59	-18.41	QP	P	
4	0.3660	18.30	11.16	29.46	48.59	-19.13	AVG	P	
5	1.8465	25.54	10.23	35.77	56.00	-20.23	QP	P	
6	1.8465	7.25	10.23	17.48	46.00	-28.52	AVG	P	
7	2.3235	26.55	10.11	36.66	56.00	-19.34	QP	P	
8	2.3235	9.77	10.11	19.88	46.00	-26.12	AVG	P	
9	3.0660	27.28	9.90	37.18	56.00	-18.82	QP	P	
10	3.0660	8.46	9.90	18.36	46.00	-27.64	AVG	P	
11	15.0900	29.07	9.17	38.24	60.00	-21.76	QP	P	
12	15.0900	19.35	9.17	28.52	50.00	-21.48	AVG	P	

**Neutral:**

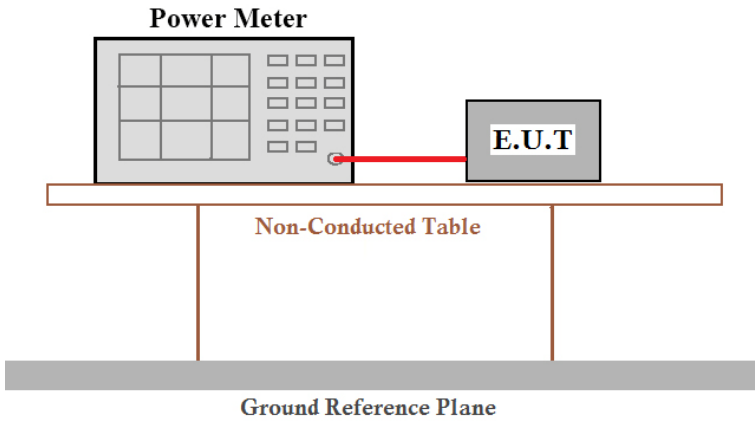


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1725	16.01	12.51	28.52	54.84	-26.32	AVG	P	
2	0.1864	35.52	12.22	47.74	64.20	-16.46	QP	P	
3	0.3525	19.60	11.22	30.82	48.90	-18.08	AVG	P	
4	0.3660	31.46	11.16	42.62	58.59	-15.97	QP	P	
5	0.9735	21.61	10.45	32.06	56.00	-23.94	QP	P	
6	0.9735	6.80	10.45	17.25	46.00	-28.75	AVG	P	
7	1.3335	23.13	10.36	33.49	56.00	-22.51	QP	P	
8	1.3335	4.36	10.36	14.72	46.00	-31.28	AVG	P	
9	2.3190	5.41	10.11	15.52	46.00	-30.48	AVG	P	
10	2.3235	25.46	10.11	35.57	56.00	-20.43	QP	P	
11	3.1695	26.82	9.83	36.65	56.00	-19.35	peak	P	
12	3.1695	6.13	9.83	15.96	46.00	-30.04	AVG	P	

*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

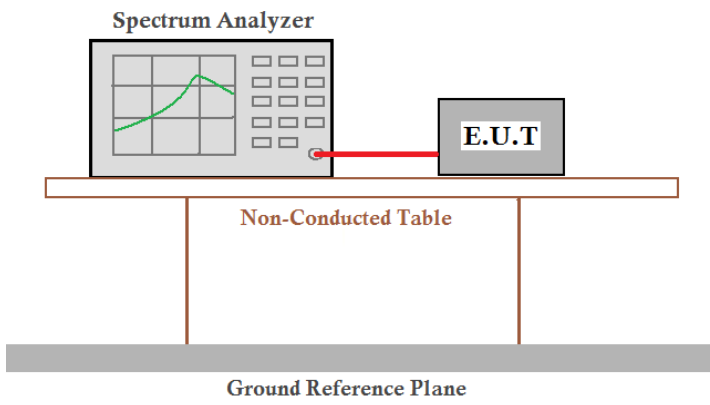
Test Requirement :	FCC Part15 C Section 15.247 (b)(3)
Test Method :	KDB558074 D01 DTS Meas Guidance v05or02
Limit:	30dBm
Test setup:	 <p>The diagram illustrates the test setup. A Power Meter is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which is supported by a Ground Reference Plane.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

### Measurement Data

Test CH	Peak Output Power (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	13.812	12.899	12.619	11.975	30.00	Pass
Middle	13.636	12.628	12.473	11.676		
Highest	13.559	12.477	12.482	11.242		

Note: The worst case is ANT1 and record the report.

## 7.4 Channel Bandwidth & 99% Occupancy Bandwidth

Test Requirement :	FCC Part15 C Section 15.247 (a)(2)
Test Method :	KDB558074 D01 DTS Meas Guidance v05or02
Limit:	>500KHz
Test setup:	 <p>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.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

**Measurement Data**

Test CH	Channel Bandwidth (MHz)				Limit(KHz)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	10.28	16.30	16.41	35.44	>500	Pass
Middle	8.958	16.41	17.68	35.39		
Highest	9.535	16.31	17.25	35.63		

Test CH	99% Occupy Bandwidth (MHz)				Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	
Lowest	14.573	16.468	17.626	35.883	Pass
Middle	14.691	16.430	17.654	36.034	
Highest	14.553	16.427	17.658	36.089	

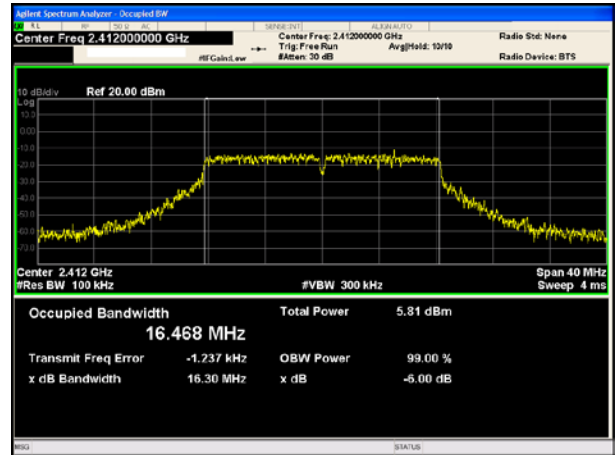
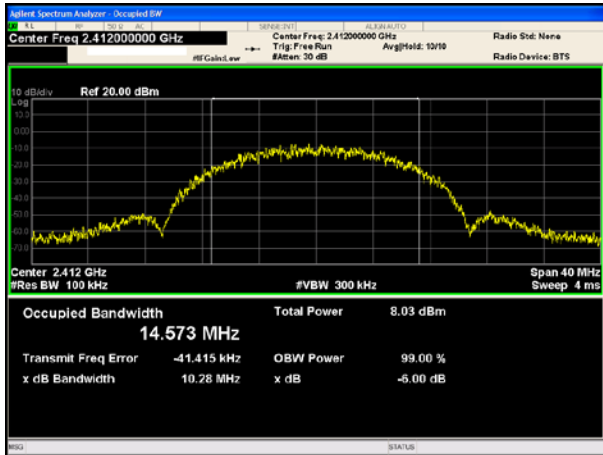
Note: The worst case is ANT1 and record the report.



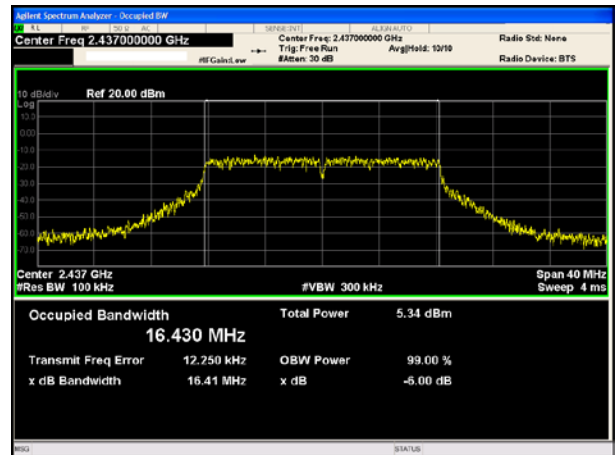
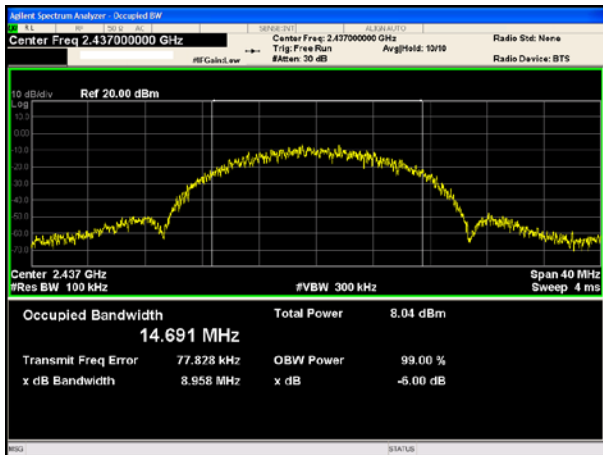
Test plot as follows:

802.11b	802.11g	
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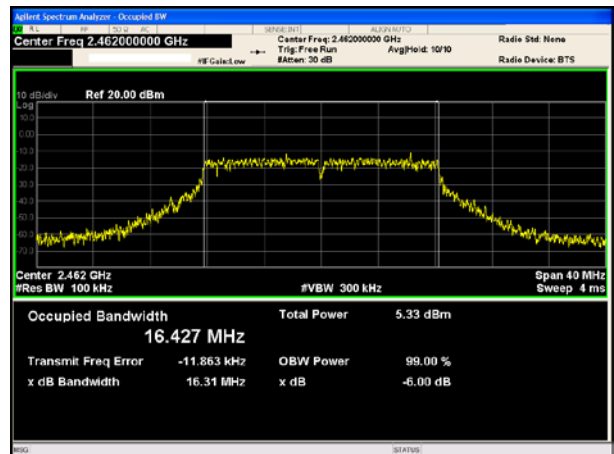
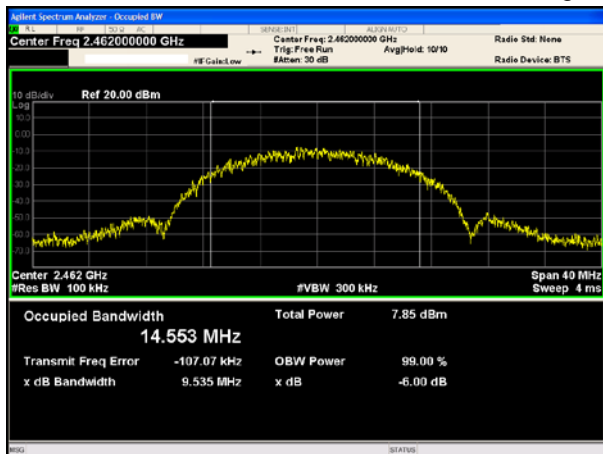
Lowest channel



Middle channel

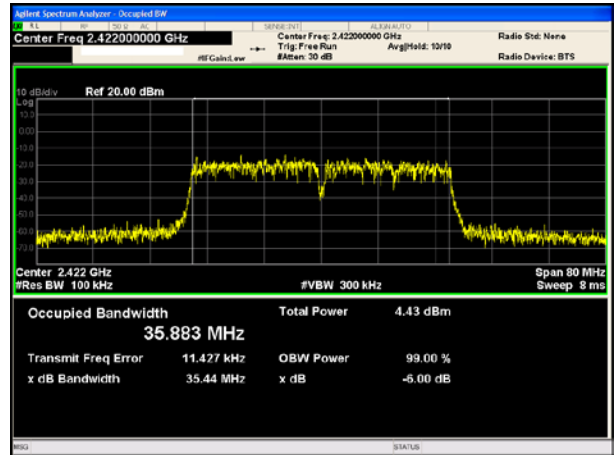
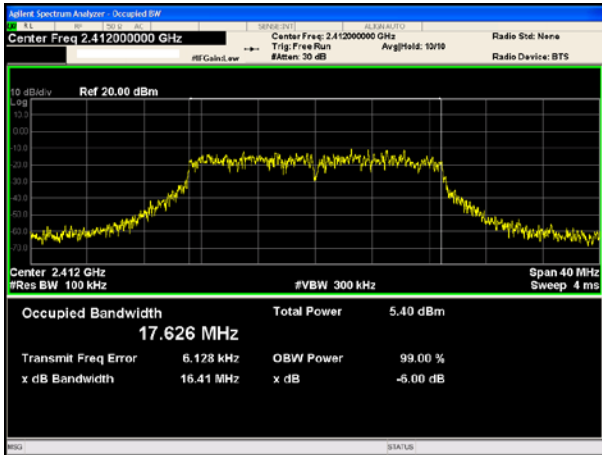


Highest channel

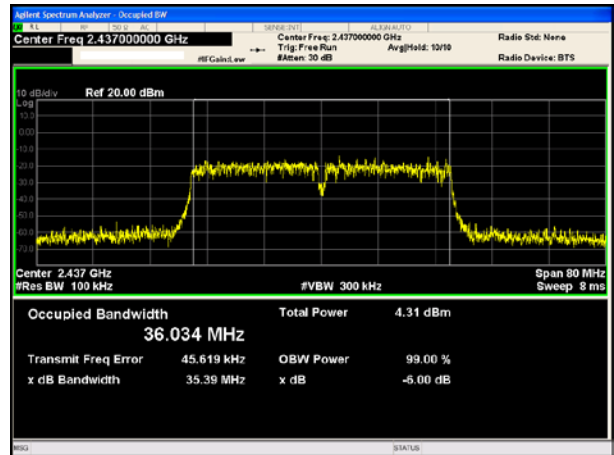
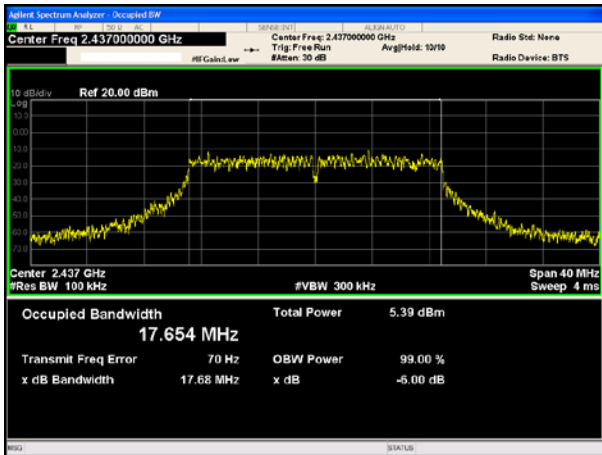


802.11n(HT20)		802.11n(HT40)	
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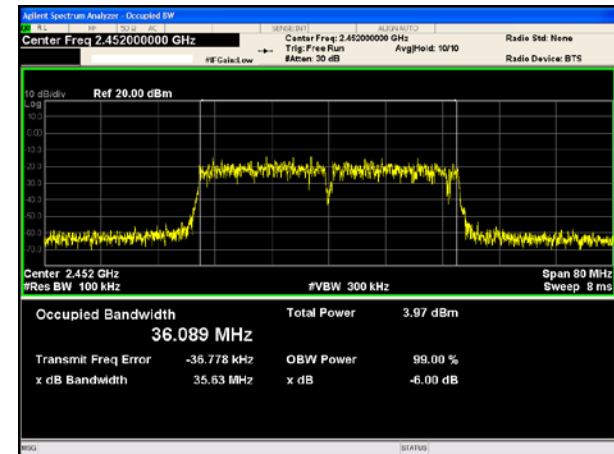
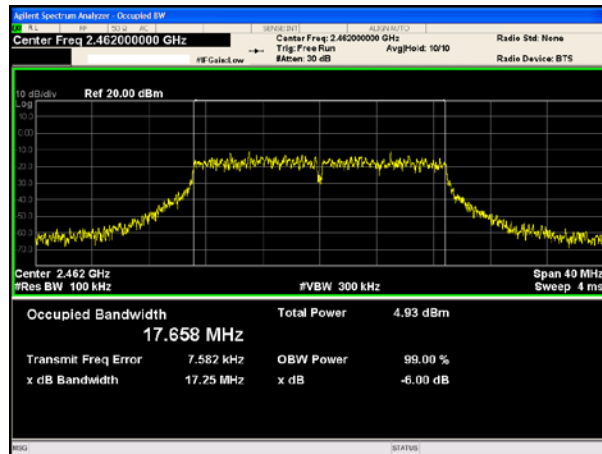
Lowest channel



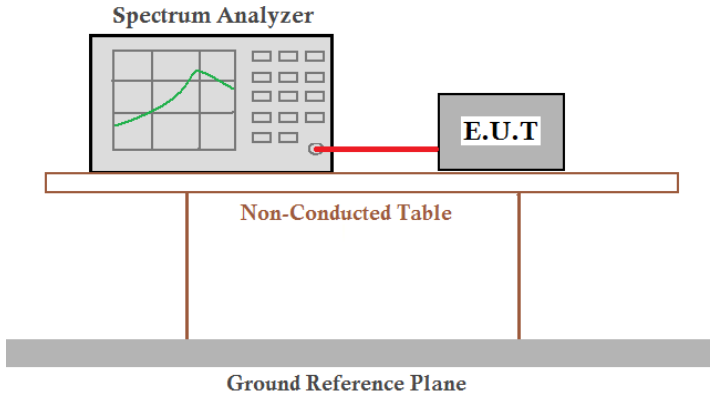
Middle channel



Highest channel



## 7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB558074 D01 DTS Meas Guidance v05or02
Limit:	8dBm/3kHz
Test setup:	 <p>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.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

### Measurement Data

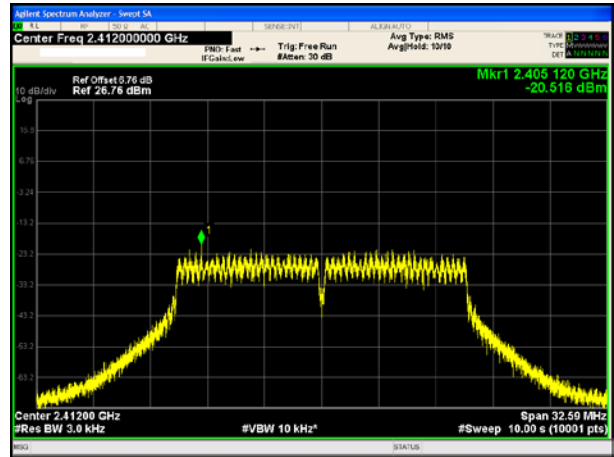
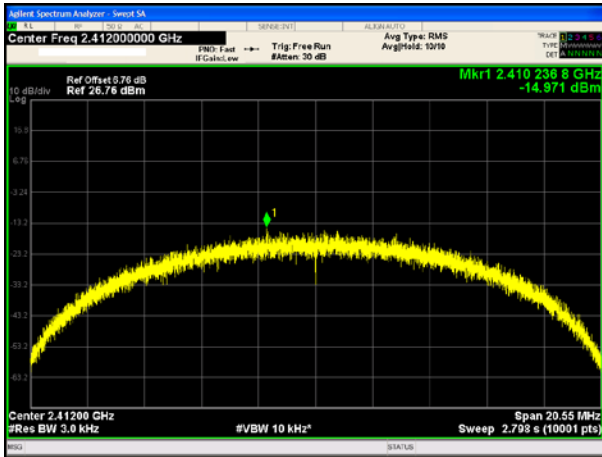
Test CH	Power Spectral Density (dBm/3kHz)				Limit (dBm/3kHz)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	-14.971	-20.516	-20.575	-23.454	8.00	Pass
Middle	-16.266	-21.823	-19.598	-22.818		
Highest	-15.493	-20.693	-20.843	-23.755		

Note: The worst case is ANT1 and record the report.

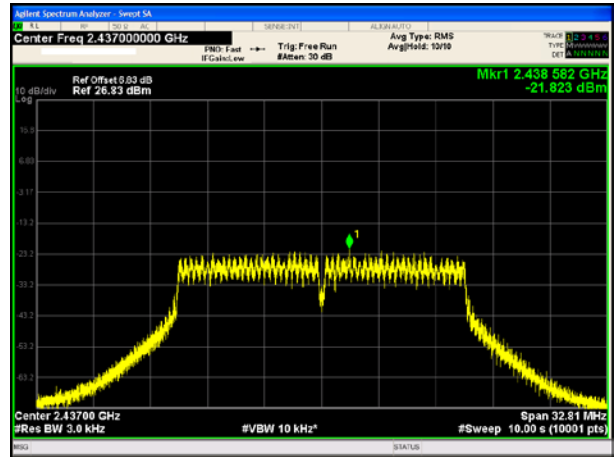
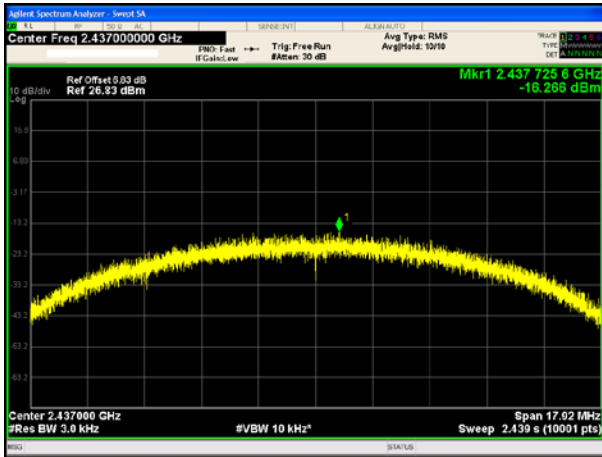
Test plot as follows:

802.11b		802.11g	
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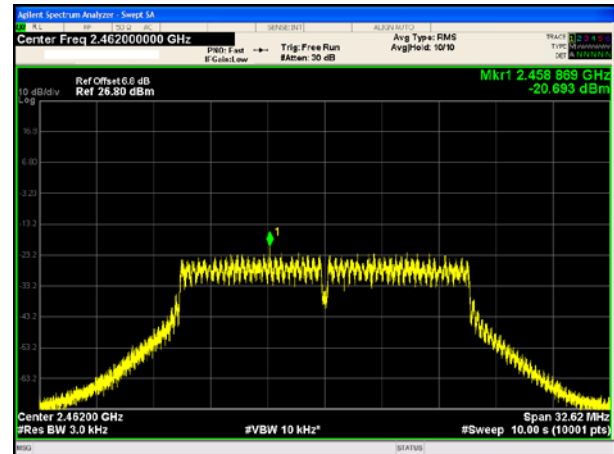
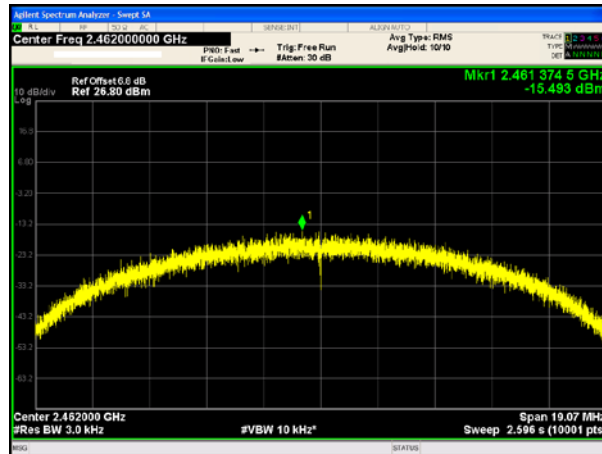
Lowest channel



Middle channel

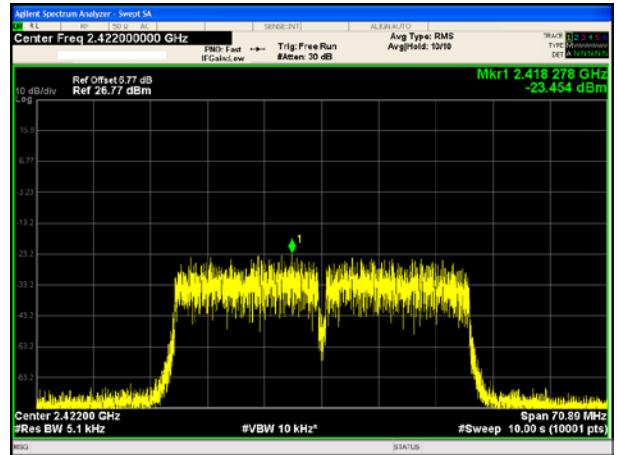
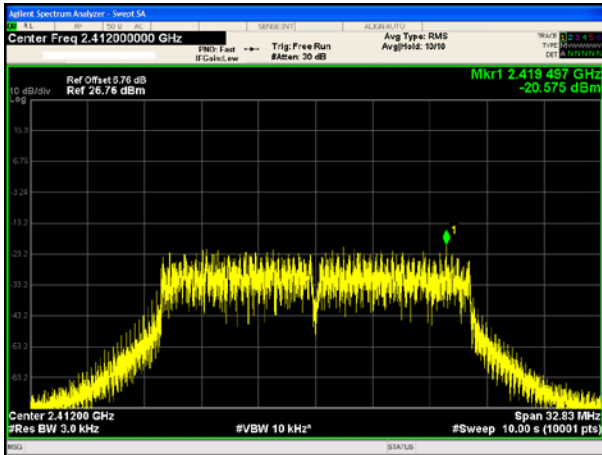


Highest channel

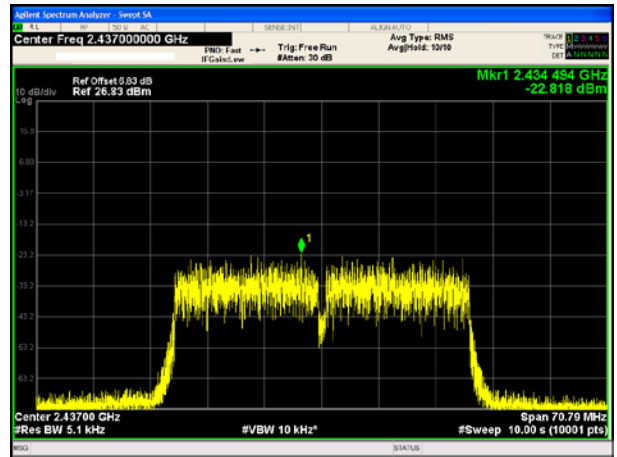
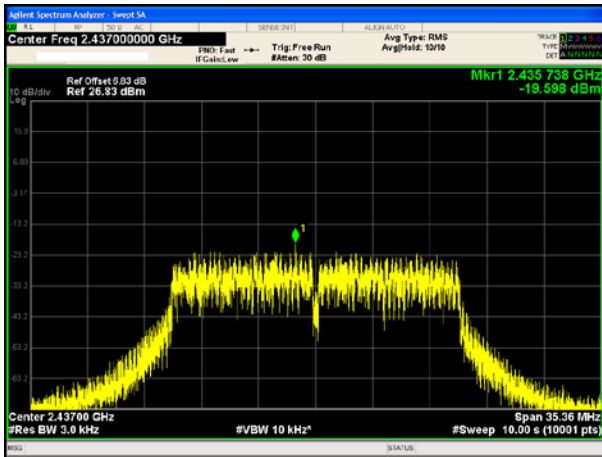


802.11n(HT20)		802.11n(HT40)	
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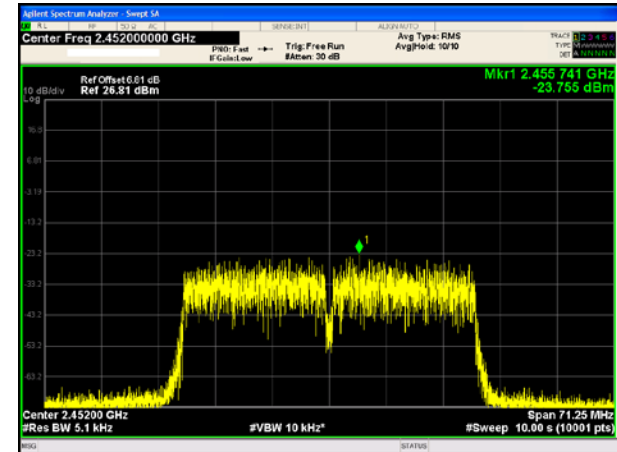
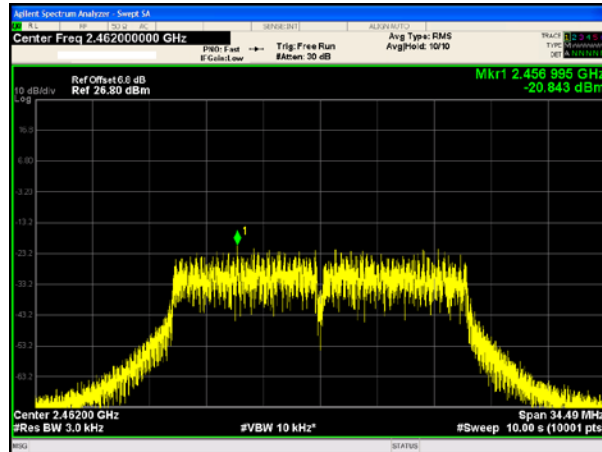
Lowest channel



Middle channel

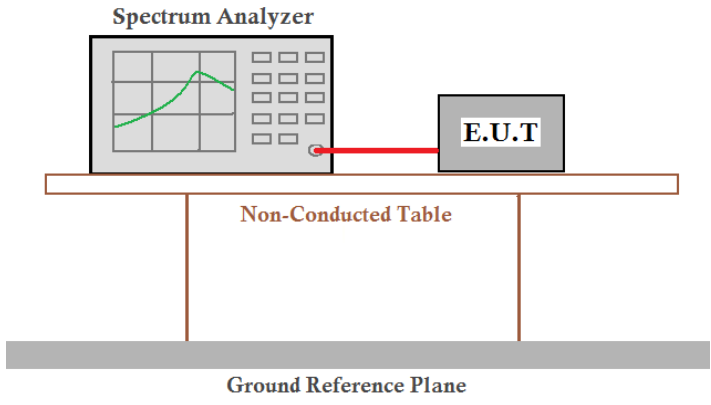


Highest channel



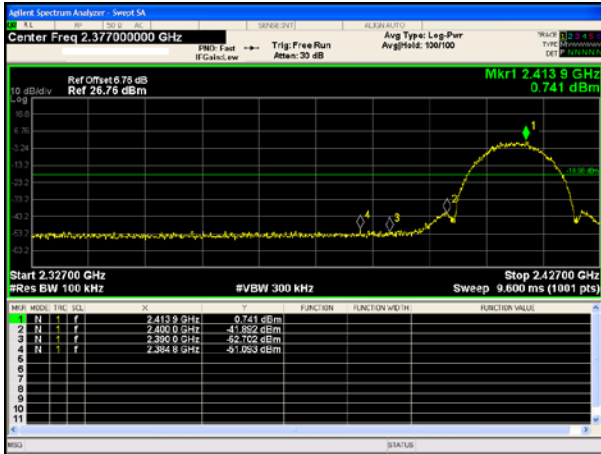
## 7.6 Band edges

### 7.6.1 Conducted Emission Method

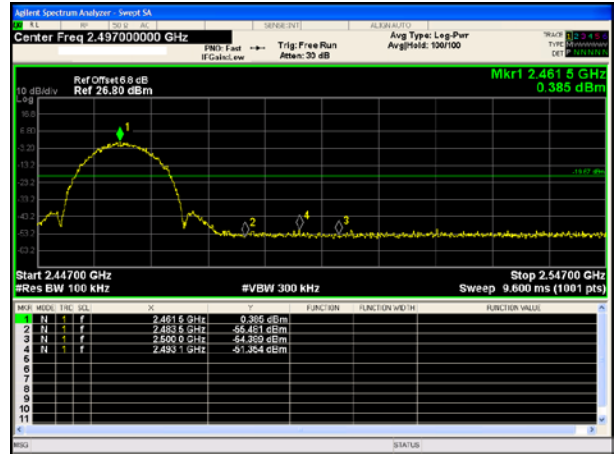
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074 D01 DTS Meas Guidance v05or02
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall 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:	 <p>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 two vertical legs. Below the table is a Ground Reference Plane.</p>
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:

Test mode: 802.11b



Lowest channel



Highest channel

Test mode: 802.11g

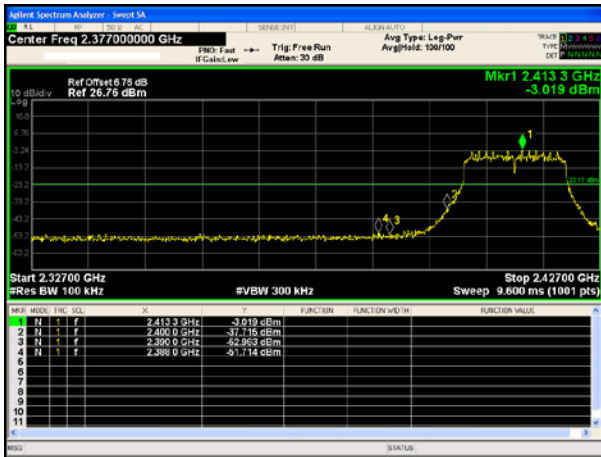


Lowest channel

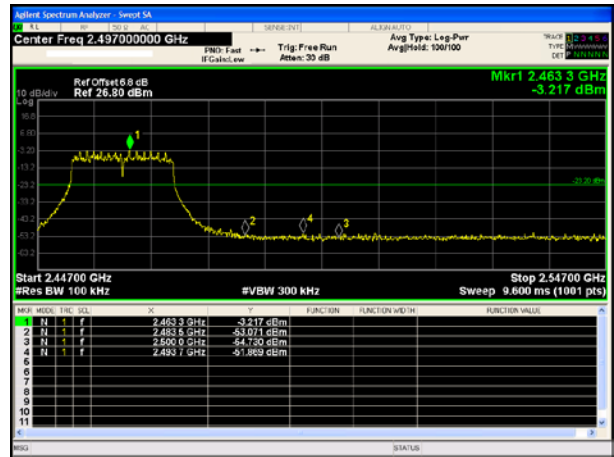


Highest channel

Test mode: 802.11n(HT20)

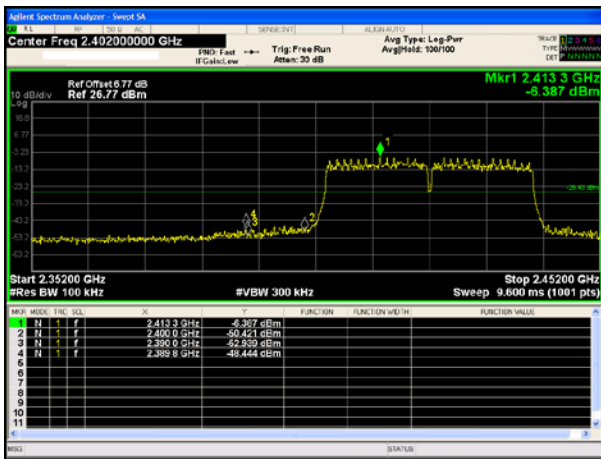


Lowest channel

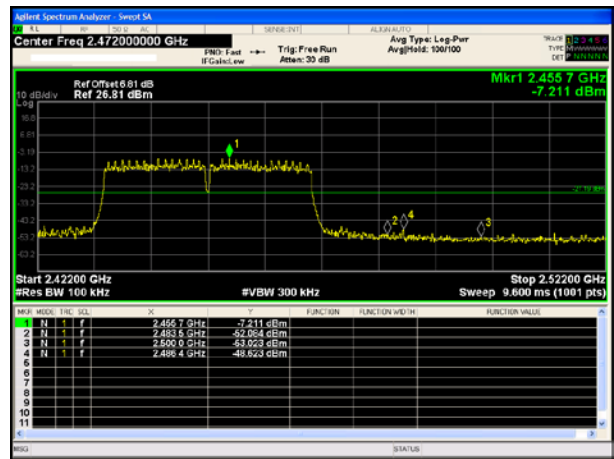


Highest channel

Test mode: 802.11n(HT40)



Lowest channel



Highest channel

Note: The worst case is ANT1 and record the report.



## 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				Average
					Peak
Test setup:					
Test Procedure:	<ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>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.</li> <li>7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.</li> </ol>				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.2 for details				
Test results:	Pass				

**Measurement data:**

**All antennas have test, only the worst case ANT 1 report.**

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
2390.00	60.73	20.15	7.42	38.06	50.24	74.00	-23.76	Horizontal
2400.00	52.46	20.15	7.42	38.06	41.97	74.00	-32.03	Horizontal
2390.00	60.48	20.15	7.42	38.06	49.99	74.00	-24.01	Vertical
2400.00	52.31	20.15	7.42	38.06	41.82	74.00	-32.18	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
2390.00	52.68	20.15	7.42	38.06	42.19	54.00	-11.81	Horizontal
2400.00	43.87	20.15	7.42	38.06	33.38	54.00	-20.62	Horizontal
2390.00	52.48	20.15	7.42	38.06	41.99	54.00	-12.01	Vertical
2400.00	44.25	20.15	7.42	38.06	33.76	54.00	-20.24	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	62.28	20.54	7.45	38.17	52.10	74.00	-21.90	Horizontal
2485.50	52.81	20.54	7.45	38.17	42.63	74.00	-31.37	Horizontal
2483.50	60.89	20.54	7.45	38.20	50.68	74.00	-23.32	Vertical
2485.50	51.42	20.54	7.45	38.20	41.21	74.00	-32.79	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	54.28	20.54	7.45	38.17	44.10	54.00	-9.90	Horizontal
2485.50	43.27	20.54	7.45	38.17	33.09	54.00	-20.91	Horizontal
2483.50	53.55	20.54	7.45	38.20	43.34	54.00	-10.66	Vertical
2485.50	43.06	20.54	7.45	38.20	32.85	54.00	-21.15	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
2390.00	63.05	20.15	7.42	38.06	52.56	74.00	-21.44	Horizontal
2400.00	55.63	20.15	7.42	38.06	45.14	74.00	-28.86	Horizontal
2390.00	64.30	20.15	7.42	38.06	53.81	74.00	-20.19	Vertical
2400.00	51.99	20.15	7.42	38.06	41.50	74.00	-32.50	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
2390.00	54.22	20.15	7.42	38.06	43.73	54.00	-10.27	Horizontal
2400.00	46.38	20.15	7.42	38.06	35.89	54.00	-18.11	Horizontal
2390.00	55.29	20.15	7.42	38.06	44.80	54.00	-9.20	Vertical
2400.00	42.58	20.15	7.42	38.06	32.09	54.00	-21.91	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)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	59.79	20.54	7.45	38.17	49.61	74.00	-24.39	Horizontal
2485.50	54.82	20.54	7.45	38.17	44.64	74.00	-29.36	Horizontal
2483.50	60.43	20.54	7.45	38.20	50.22	74.00	-23.78	Vertical
2485.50	52.77	20.54	7.45	38.20	42.56	74.00	-31.44	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	51.26	20.54	7.45	38.17	41.08	54.00	-12.92	Horizontal
2485.50	46.65	20.54	7.45	38.17	36.47	54.00	-17.53	Horizontal
2483.50	52.36	20.54	7.45	38.20	42.15	54.00	-11.85	Vertical
2485.50	43.28	20.54	7.45	38.20	33.07	54.00	-20.93	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)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	60.84	20.15	7.42	38.06	50.35	74.00	-23.65	Horizontal
2400.00	52.36	20.15	7.42	38.06	41.87	74.00	-32.13	Horizontal
2390.00	63.22	20.15	7.42	38.06	52.73	74.00	-21.27	Vertical
2400.00	53.97	20.15	7.42	38.06	43.48	74.00	-30.52	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
2390.00	53.22	20.15	7.42	38.06	42.73	54.00	-11.27	Horizontal
2400.00	43.68	20.15	7.42	38.06	33.19	54.00	-20.81	Horizontal
2390.00	54.87	20.15	7.42	38.06	44.38	54.00	-9.62	Vertical
2400.00	46.24	20.15	7.42	38.06	35.75	54.00	-18.25	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	59.79	20.54	7.45	38.17	49.61	74.00	-24.39	Horizontal
2485.50	54.98	20.54	7.45	38.17	44.80	74.00	-29.20	Horizontal
2483.50	62.79	20.54	7.45	38.20	52.58	74.00	-21.42	Vertical
2485.50	54.13	20.54	7.45	38.20	43.92	74.00	-30.08	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	51.24	20.54	7.45	38.17	41.06	54.00	-12.94	Horizontal
2485.50	46.35	20.54	7.45	38.17	36.17	54.00	-17.83	Horizontal
2483.50	53.69	20.54	7.45	38.20	43.48	54.00	-10.52	Vertical
2485.50	45.68	20.54	7.45	38.20	35.47	54.00	-18.53	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
2390.00	61.60	20.15	7.42	38.06	51.11	74.00	-22.89	Horizontal
2400.00	52.78	20.15	7.42	38.06	42.29	74.00	-31.71	Horizontal
2390.00	61.68	20.15	7.42	38.06	51.19	74.00	-22.81	Vertical
2400.00	51.72	20.15	7.42	38.06	41.23	74.00	-32.77	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
2390.00	52.36	20.15	7.42	38.06	41.87	54.00	-12.13	Horizontal
2400.00	43.28	20.15	7.42	38.06	32.79	54.00	-21.21	Horizontal
2390.00	54.27	20.15	7.42	38.06	43.78	54.00	-10.22	Vertical
2400.00	43.26	20.15	7.42	38.06	32.77	54.00	-21.23	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	61.07	20.54	7.45	38.17	50.89	74.00	-23.11	Horizontal
2485.50	52.75	20.54	7.45	38.17	42.57	74.00	-31.43	Horizontal
2483.50	63.83	20.54	7.45	38.20	53.62	74.00	-20.38	Vertical
2485.50	50.69	20.54	7.45	38.20	40.48	74.00	-33.52	Vertical

**Average value:**

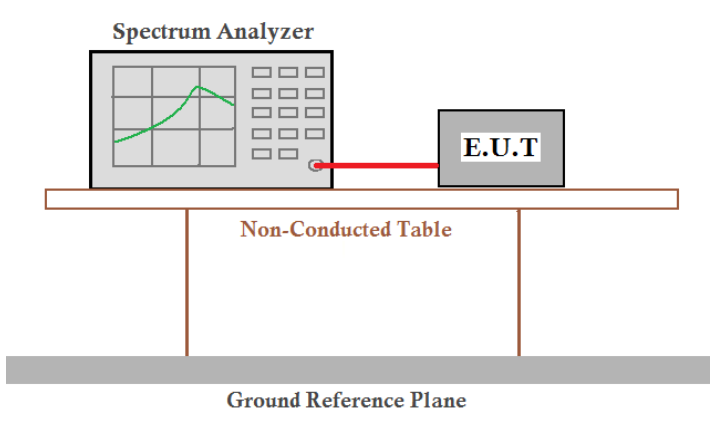
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	53.24	20.54	7.45	38.17	43.06	54.00	-10.94	Horizontal
2485.50	43.16	20.54	7.45	38.17	32.98	54.00	-21.02	Horizontal
2483.50	55.27	20.54	7.45	38.20	45.06	54.00	-8.94	Vertical
2485.50	42.26	20.54	7.45	38.20	32.05	54.00	-21.95	Vertical

**Remarks:**

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

## 7.7 Spurious Emission

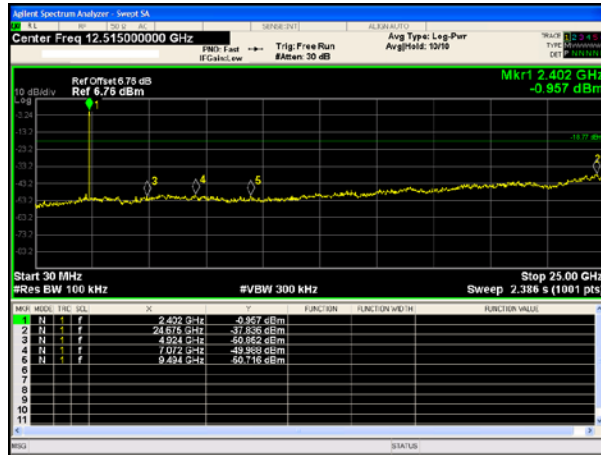
### 7.7.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074 D01 DTS Meas Guidance v05or02
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:	 <p>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 two legs. Below the table is a Ground Reference Plane.</p>
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:

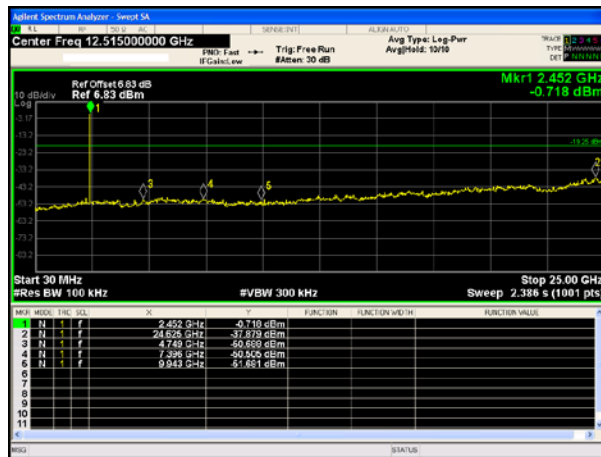
802.11b

Lowest channel



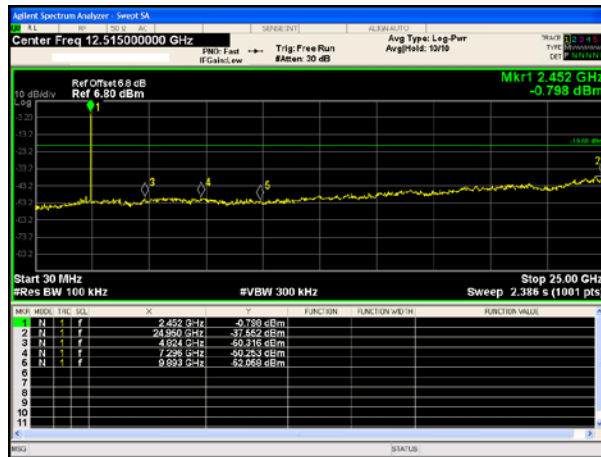
30MHz~12.75GHz

Middle channel



30MHz~12.75GHz

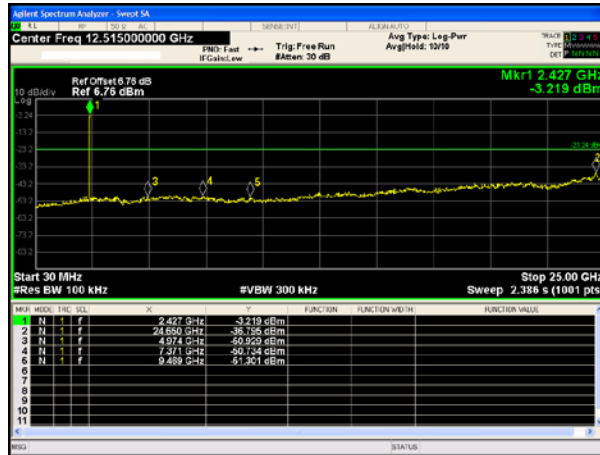
Highest channel



30MHz~12.75GHz

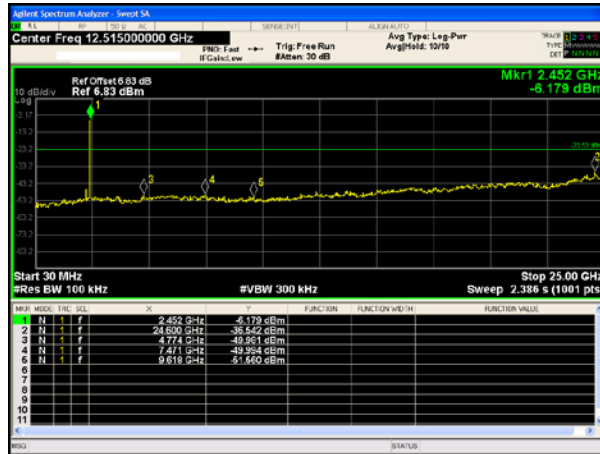
802.11g

Lowest channel



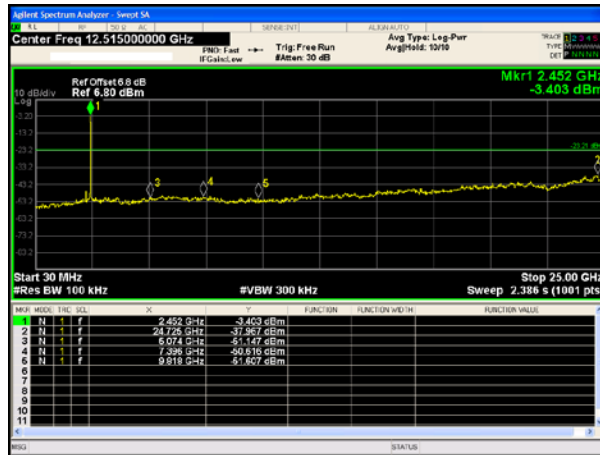
30MHz~12.75GHz

Middle channel



30MHz~12.75GHz

Highest channel

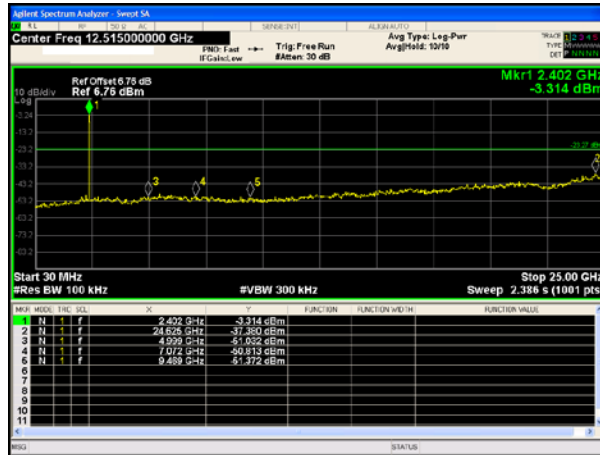


30MHz~12.75GHz



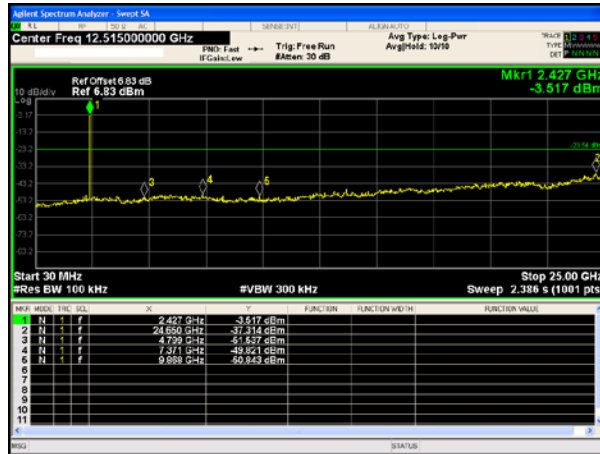
802.11n(HT20)

Lowest channel



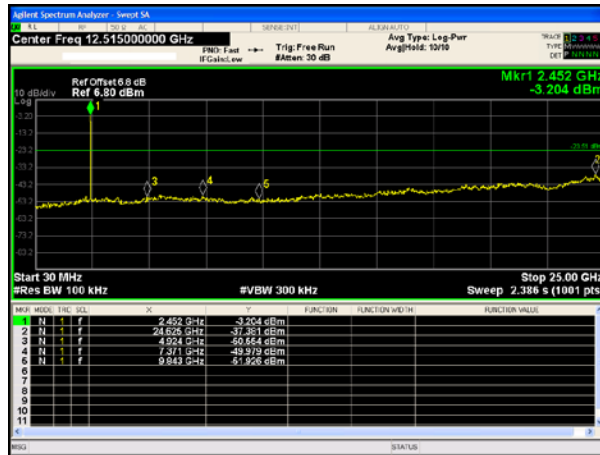
30MHz~12.75GHz

Middle channel



30MHz~12.75GHz

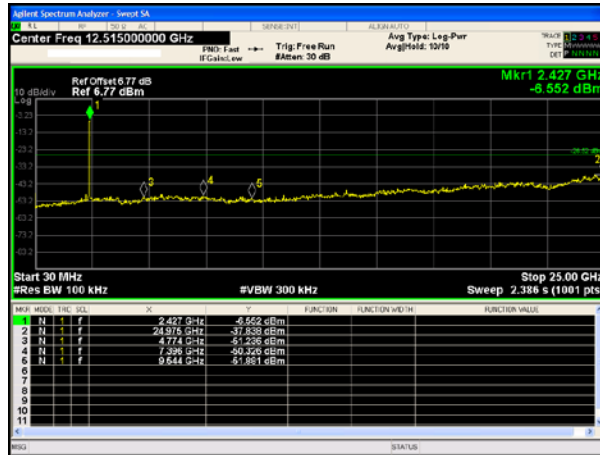
Highest channel



30MHz~12.75GHz

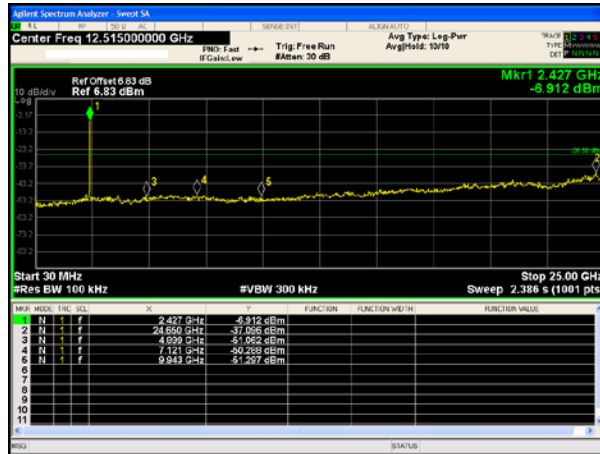
802.11n(HT40)

Lowest channel



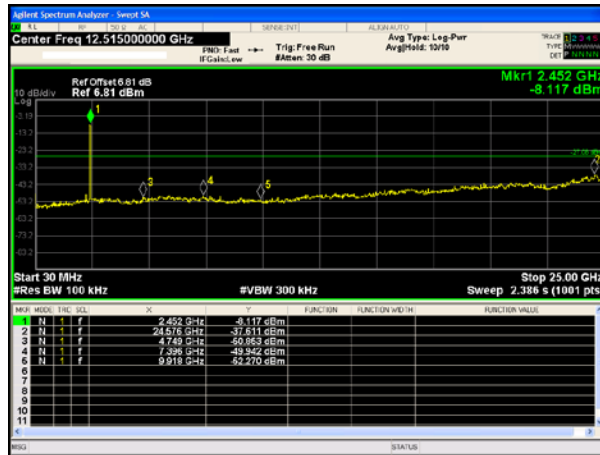
30MHz~12.75GHz

Middle channel



30MHz~12.75GHz

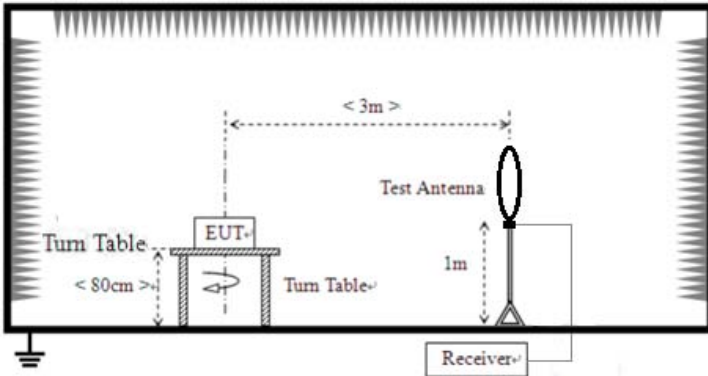
Highest channel

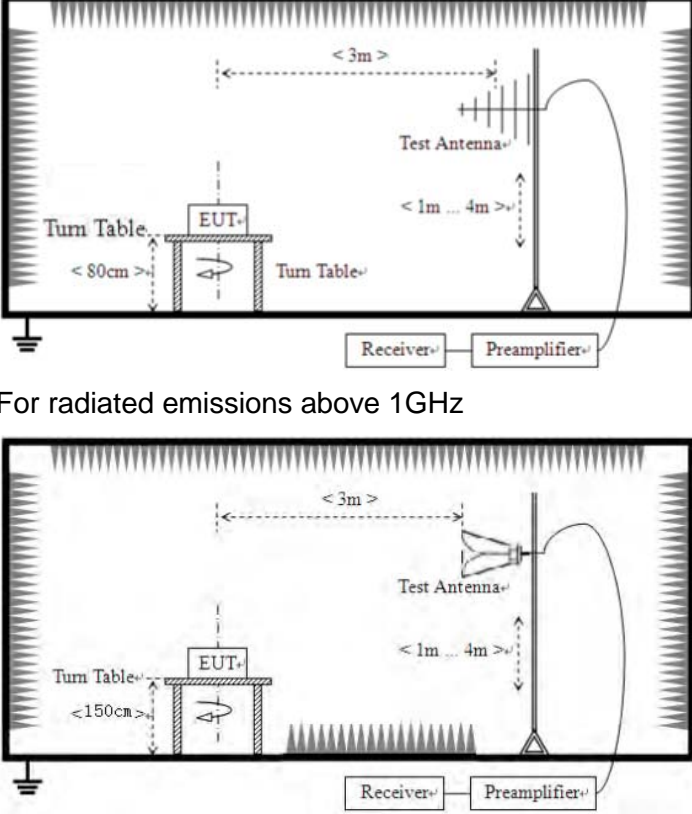


30MHz~12.75GHz

Note: The worst case is ANT1 and record the report.

## 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	100KHz	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	300m	
	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				
	 <p>The diagram illustrates the test setup for radiated emissions from 9kHz to 30MHz. It shows an Equipment Under Test (EUT) placed on a turn table. A test antenna is positioned 3m away from the EUT. The antenna is mounted on a stand that is 1m high. A receiver is connected to the antenna. The turn table has a diameter of less than 80cm. The entire setup is enclosed in a shielded chamber.</p>				
For radiated emissions from 30MHz to 1GHz					

	 <p>For radiated emissions above 1GHz</p>
<p>Test Procedure:</p>	<ol style="list-style-type: none"> <li>1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>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.</li> </ol>
<p>Test Instruments:</p>	<p>Refer to section 6.0 for details</p>
<p>Test mode:</p>	<p>Refer to section 5.2 for details</p>

Test voltage:	AC120V 60Hz					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Test voltage:	AC 120V, 60Hz					
Test results:	Pass					

*Remarks:*

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

**Measurement data:**

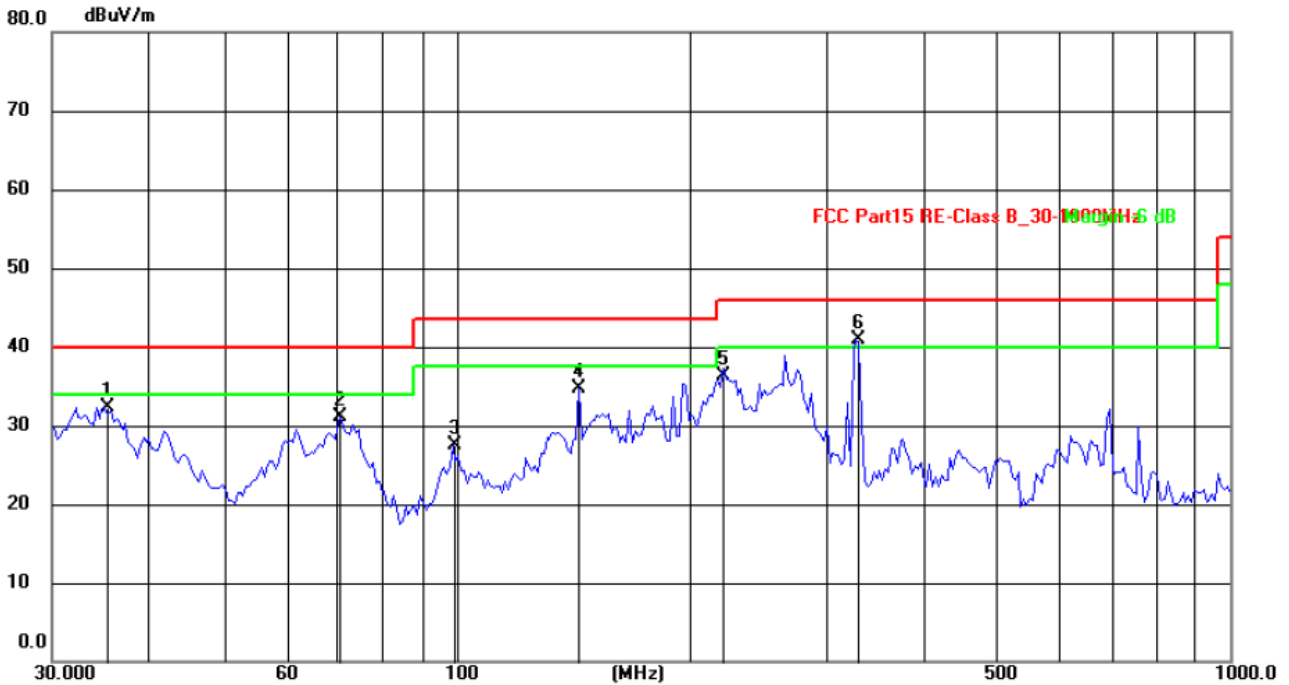
■ **9kHz~30MHz**

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

■ Below 1GHz

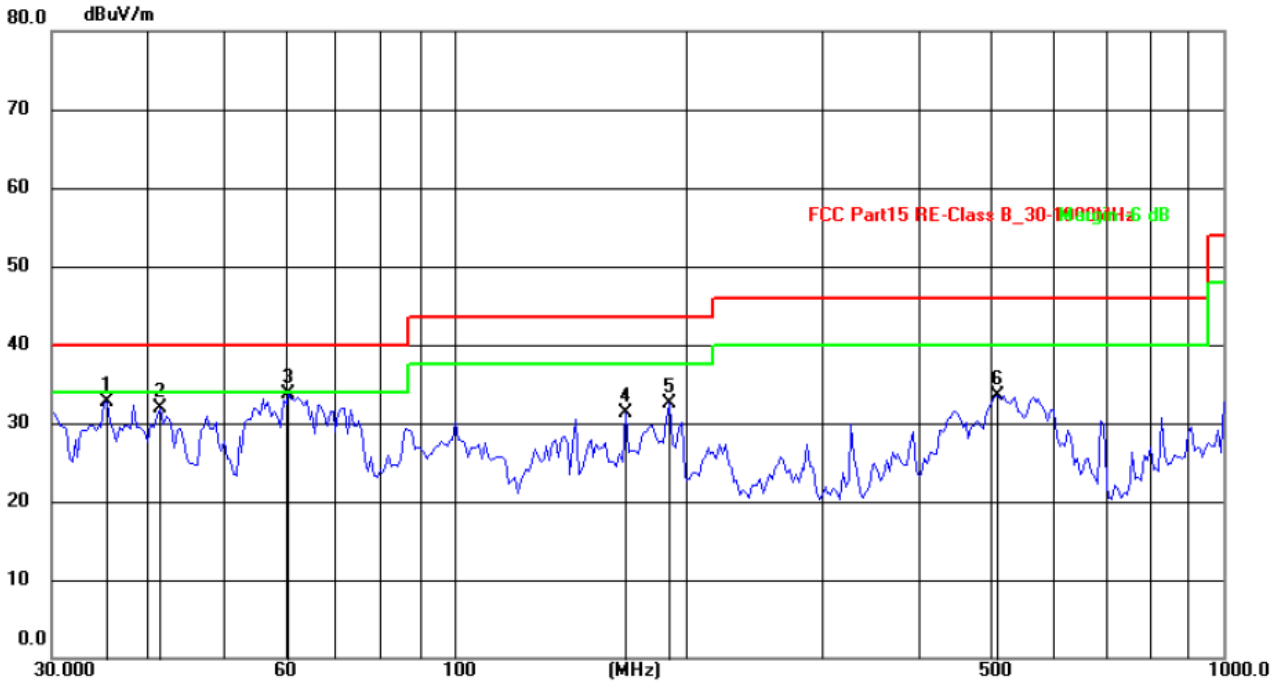
Pre-scan all test modes, found worst case at 802.11b 2462MHz, and so only show the test result of 802.11b 2462MHz and ANT1 and record the report.

Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	35.1278	47.32	-15.02	32.30	40.00	-7.70	QP	120	36		
2	70.8315	48.16	-17.10	31.06	40.00	-8.94	QP	135	74		
3	98.8326	47.32	-19.87	27.45	43.50	-16.05	QP	117	112		
4	144.0819	51.94	-17.23	34.71	43.50	-8.79	QP	109	268		
5	221.3920	55.15	-18.90	36.25	46.00	-9.75	QP	210	174		
6	328.4627	59.70	-18.86	40.84	46.00	-5.16	QP	158	66		

**Vertical:**



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	35.4369	50.22	-17.54	32.68	40.00	-7.32	QP	110	38		
2	41.4941	48.76	-16.93	31.83	40.00	-8.17	QP	105	57		
3	61.0242	52.11	-18.42	33.69	40.00	-6.31	QP	120	128		
4	167.2366	52.10	-20.74	31.36	43.50	-12.14	QP	107	40		
5	190.7390	53.78	-21.21	32.57	43.50	-10.93	QP	116	119		
6	509.1501	46.81	-13.23	33.58	46.00	-12.42	QP	105	241		

■ 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	66.41	25.66	7.85	39.55	60.37	74.00	-13.63	Vertical
7236.00	67.12	24.55	7.52	38.33	60.86	74.00	-13.14	Vertical
9648.00	53.26	25.59	8.75	38.25	49.35	74.00	-24.65	Vertical
12060.00	52.29	26.59	9.72	38.33	50.27	74.00	-23.73	Vertical
4824.00	65.28	25.66	7.85	39.55	59.24	74.00	-14.76	Horizontal
7236.00	68.24	24.55	7.52	38.33	61.98	74.00	-12.02	Horizontal
9648.00	54.21	25.59	8.75	38.25	50.30	74.00	-23.70	Horizontal
12060.00	52.19	26.59	9.72	38.33	50.17	74.00	-23.83	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	57.18	25.66	7.85	39.55	51.14	54.00	-2.86	Vertical
7236.00	58.66	24.55	7.52	38.33	52.40	54.00	-1.60	Vertical
9648.00	45.02	25.59	8.75	38.25	41.11	54.00	-12.89	Vertical
12060.00	43.66	26.59	9.72	38.33	41.64	54.00	-12.36	Vertical
4824.00	57.25	25.66	7.85	39.55	51.21	54.00	-2.79	Horizontal
7236.00	59.23	24.55	7.52	38.33	52.97	54.00	-1.03	Horizontal
9648.00	47.13	25.59	8.75	38.25	43.22	54.00	-10.78	Horizontal
12060.00	45.23	26.59	9.72	38.33	43.21	54.00	-10.79	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.*
3. The worst case is ANT1 and record the report.



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	65.36	25.45	7.57	38.89	59.49	74.00	-14.51	Vertical
7311.00	51.30	24.78	7.35	38.78	44.65	74.00	-29.35	Vertical
9748.00	57.17	25.69	8.57	38.57	52.86	74.00	-21.14	Vertical
12185.00	50.70	26.11	9.62	38.78	47.65	74.00	-26.35	Vertical
4874.00	57.26	25.45	7.57	38.89	51.39	74.00	-22.61	Horizontal
7311.00	43.54	24.78	7.35	38.78	36.89	74.00	-37.11	Horizontal
9748.00	49.01	25.69	8.57	38.57	44.70	74.00	-29.30	Horizontal
12185.00	42.36	26.11	9.62	38.78	39.31	74.00	-34.69	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	56.32	25.45	7.57	38.89	50.28	54.00	-3.72	Vertical
7311.00	43.25	24.78	7.35	38.78	36.99	54.00	-17.01	Vertical
9748.00	49.24	25.69	8.57	38.57	45.33	54.00	-8.67	Vertical
12185.00	43.15	26.11	9.62	38.78	41.13	54.00	-12.87	Vertical
4874.00	49.36	25.45	7.57	38.89	43.32	54.00	-10.68	Horizontal
7311.00	36.58	24.78	7.35	38.78	30.32	54.00	-23.68	Horizontal
9748.00	41.23	25.69	8.57	38.57	37.32	54.00	-16.68	Horizontal
12185.00	35.26	26.11	9.62	38.78	33.24	54.00	-20.76	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.
3. The worst case is ANT1 and record the report.

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	63.91	25.45	7.46	38.75	58.07	74.00	-15.93	Vertical
7386.00	58.10	24.78	7.82	38.65	52.05	74.00	-21.95	Vertical
9848.00	52.45	26.47	8.35	38.58	48.69	74.00	-25.31	Vertical
12310.00	46.98	26.54	9.25	38.66	44.11	74.00	-29.89	Vertical
4924.00	60.12	25.45	7.46	38.75	54.28	74.00	-19.72	Horizontal
7386.00	57.12	24.78	7.82	38.65	51.07	74.00	-22.93	Horizontal
9848.00	53.48	26.47	8.35	38.58	49.72	74.00	-24.28	Horizontal
12310.00	47.77	26.54	9.25	38.66	44.90	74.00	-29.10	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	55.23	25.45	7.46	38.75	49.39	54.00	-4.61	Vertical
7386.00	49.67	24.78	7.82	38.65	43.62	54.00	-10.38	Vertical
9848.00	45.12	26.47	8.35	38.58	41.36	54.00	-12.64	Vertical
12310.00	38.33	26.54	9.25	38.66	35.46	54.00	-18.54	Vertical
4924.00	52.36	25.45	7.46	38.75	46.52	54.00	-7.48	Horizontal
7386.00	50.11	24.78	7.82	38.65	44.06	54.00	-9.94	Horizontal
9848.00	46.27	26.47	8.35	38.58	42.51	54.00	-11.49	Horizontal
12310.00	42.13	26.54	9.25	38.66	39.26	54.00	-14.74	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.
3. The worst case is ANT1 and record the report.

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	62.35	25.66	7.85	39.55	56.31	74.00	-17.69	Vertical
7236.00	58.63	24.55	7.52	38.33	52.37	74.00	-21.63	Vertical
9648.00	53.12	25.59	8.75	38.25	49.21	74.00	-24.79	Vertical
12060.00	47.23	26.59	9.72	38.33	45.21	74.00	-28.79	Vertical
4824.00	61.02	25.66	7.85	39.55	54.98	74.00	-19.02	Horizontal
7236.00	58.23	24.55	7.52	38.33	51.97	74.00	-22.03	Horizontal
9648.00	52.14	25.59	8.75	38.25	48.23	74.00	-25.77	Horizontal
12060.00	47.36	26.59	9.72	38.33	45.34	74.00	-28.66	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	54.13	25.66	7.85	39.55	48.09	54.00	-5.91	Vertical
7236.00	48.36	24.55	7.52	38.33	42.10	54.00	-11.90	Vertical
9648.00	44.27	25.59	8.75	38.25	40.36	54.00	-13.64	Vertical
12060.00	38.33	26.59	9.72	38.33	36.31	54.00	-17.69	Vertical
4824.00	51.22	25.66	7.85	39.55	45.18	54.00	-8.82	Horizontal
7236.00	49.63	24.55	7.52	38.33	43.37	54.00	-10.63	Horizontal
9648.00	45.36	25.59	8.75	38.25	41.45	54.00	-12.55	Horizontal
12060.00	42.15	26.59	9.72	38.33	40.13	54.00	-13.87	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.
3. The worst case is ANT1 and record the report.

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	61.23	25.45	7.57	38.89	38.89	74.00	-18.64	Vertical
7311.00	57.62	24.78	7.35	38.78	38.78	74.00	-23.03	Vertical
9748.00	54.22	25.69	8.57	38.57	38.57	74.00	-24.09	Vertical
12185.00	48.11	26.11	9.62	38.78	38.78	74.00	-28.94	Vertical
4874.00	60.15	25.45	7.57	38.89	38.89	74.00	-19.72	Horizontal
7311.00	58.32	24.78	7.35	38.78	38.78	74.00	-22.33	Horizontal
9748.00	53.16	25.69	8.57	38.57	38.57	74.00	-25.15	Horizontal
12185.00	48.24	26.11	9.62	38.78	38.78	74.00	-28.81	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	53.47	25.45	7.57	38.89	47.60	54.00	-6.40	Vertical
7311.00	49.33	24.78	7.35	38.78	42.68	54.00	-11.32	Vertical
9748.00	45.15	25.69	8.57	38.57	40.84	54.00	-13.16	Vertical
12185.00	39.17	26.11	9.62	38.78	36.12	54.00	-17.88	Vertical
4874.00	52.14	25.45	7.57	38.89	46.27	54.00	-7.73	Horizontal
7311.00	49.68	24.78	7.35	38.78	43.03	54.00	-10.97	Horizontal
9748.00	46.17	25.69	8.57	38.57	41.86	54.00	-12.14	Horizontal
12185.00	43.12	26.11	9.62	38.78	40.07	54.00	-13.93	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.
3. The worst case is ANT1 and record the report.

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	62.14	25.45	7.46	38.75	56.30	74.00	-17.70	Vertical
7386.00	58.22	24.78	7.82	38.65	52.17	74.00	-21.83	Vertical
9848.00	54.31	26.47	8.35	38.58	50.55	74.00	-23.45	Vertical
12310.00	49.16	26.54	9.25	38.66	46.29	74.00	-27.71	Vertical
4924.00	60.13	25.45	7.46	38.75	54.29	74.00	-19.71	Horizontal
7386.00	58.21	24.78	7.82	38.65	52.16	74.00	-21.84	Horizontal
9848.00	53.14	26.47	8.35	38.58	49.38	74.00	-24.62	Horizontal
12310.00	48.35	26.54	9.25	38.66	45.48	74.00	-28.52	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	54.12	25.45	7.46	38.75	48.25	54.00	-5.75	Vertical
7386.00	49.36	24.78	7.82	38.65	42.71	54.00	-11.29	Vertical
9848.00	46.22	26.47	8.35	38.58	41.91	54.00	-12.09	Vertical
12310.00	39.47	26.54	9.25	38.66	36.42	54.00	-17.58	Vertical
4924.00	52.17	25.45	7.46	38.75	46.3	54.00	-7.70	Horizontal
7386.00	49.57	24.78	7.82	38.65	42.92	54.00	-11.08	Horizontal
9848.00	46.33	26.47	8.35	38.58	42.02	54.00	-11.98	Horizontal
12310.00	44.15	26.54	9.25	38.66	41.10	54.00	-12.90	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.
3. The worst case is ANT1 and record the report.

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	61.23	25.66	7.85	39.55	55.19	74.00	-18.81	Vertical
7236.00	59.33	24.55	7.52	38.33	53.07	74.00	-20.93	Vertical
9648.00	55.17	25.59	8.75	38.25	51.26	74.00	-22.74	Vertical
12060.00	49.23	26.59	9.72	38.33	47.21	74.00	-26.79	Vertical
4824.00	61.05	25.66	7.85	39.55	55.01	74.00	-18.99	Horizontal
7236.00	58.32	24.55	7.52	38.33	52.06	74.00	-21.94	Horizontal
9648.00	54.13	25.59	8.75	38.25	50.22	74.00	-23.78	Horizontal
12060.00	49.22	26.59	9.72	38.33	47.20	74.00	-26.80	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	54.26	25.66	7.85	39.55	48.39	54.00	-5.61	Vertical
7236.00	49.33	24.55	7.52	38.33	42.68	54.00	-11.32	Vertical
9648.00	46.35	25.59	8.75	38.25	42.04	54.00	-11.96	Vertical
12060.00	39.57	26.59	9.72	38.33	36.52	54.00	-17.48	Vertical
4824.00	53.12	25.66	7.85	39.55	47.25	54.00	-6.75	Horizontal
7236.00	49.66	24.55	7.52	38.33	43.01	54.00	-10.99	Horizontal
9648.00	46.38	25.59	8.75	38.25	42.07	54.00	-11.93	Horizontal
12060.00	45.13	26.59	9.72	38.33	42.08	54.00	-11.92	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.*
3. The worst case is ANT1 and record the report.

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	61.03	25.45	7.57	38.89	55.16	74.00	-18.84	Vertical
7311.00	58.36	24.78	7.35	38.78	51.71	74.00	-22.29	Vertical
9748.00	56.12	25.69	8.57	38.57	51.81	74.00	-22.19	Vertical
12185.00	49.23	26.11	9.62	38.78	46.18	74.00	-27.82	Vertical
4874.00	60.22	25.45	7.57	38.89	54.35	74.00	-19.65	Horizontal
7311.00	58.34	24.78	7.35	38.78	51.69	74.00	-22.31	Horizontal
9748.00	54.16	25.69	8.57	38.57	49.85	74.00	-24.15	Horizontal
12185.00	48.33	26.11	9.62	38.78	45.28	74.00	-28.72	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	53.26	25.45	7.57	38.89	47.39	54.00	-6.61	Vertical
7311.00	49.65	24.78	7.35	38.78	43.00	54.00	-11.00	Vertical
9748.00	45.28	25.69	8.57	38.57	40.97	54.00	-13.03	Vertical
12185.00	39.88	26.11	9.62	38.78	36.83	54.00	-17.17	Vertical
4874.00	53.26	25.45	7.57	38.89	47.39	54.00	-6.61	Horizontal
7311.00	49.85	24.78	7.35	38.78	43.20	54.00	-10.80	Horizontal
9748.00	47.26	25.69	8.57	38.57	42.95	54.00	-11.05	Horizontal
12185.00	45.36	26.11	9.62	38.78	42.31	54.00	-11.69	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.
3. The worst case is ANT1 and record the report.

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	61.05	25.45	7.46	38.75	55.21	74.00	-18.79	Vertical
7386.00	59.14	24.78	7.82	38.65	53.09	74.00	-20.91	Vertical
9848.00	56.32	26.47	8.35	38.58	52.56	74.00	-21.44	Vertical
12310.00	49.55	26.54	9.25	38.66	46.68	74.00	-27.32	Vertical
4924.00	60.55	25.45	7.46	38.75	54.71	74.00	-19.29	Horizontal
7386.00	59.57	24.78	7.82	38.65	53.52	74.00	-20.48	Horizontal
9848.00	54.26	26.47	8.35	38.58	50.50	74.00	-23.50	Horizontal
12310.00	49.36	26.54	9.25	38.66	46.49	74.00	-27.51	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	54.12	25.45	7.46	38.75	48.28	54.00	-5.72	Vertical
7386.00	49.63	24.78	7.82	38.65	43.58	54.00	-10.42	Vertical
9848.00	45.33	26.47	8.35	38.58	41.57	54.00	-12.43	Vertical
12310.00	39.68	26.54	9.25	38.66	36.81	54.00	-17.19	Vertical
4924.00	52.17	25.45	7.46	38.75	46.33	54.00	-7.67	Horizontal
7386.00	49.68	24.78	7.82	38.65	43.63	54.00	-10.37	Horizontal
9848.00	47.63	26.47	8.35	38.58	43.87	54.00	-10.13	Horizontal
12310.00	45.21	26.54	9.25	38.66	42.34	54.00	-11.66	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.*
3. The worst case is ANT1 and record the report.



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	61.25	25.66	7.85	39.55	55.21	74.00	-18.79	Vertical
7266.00	59.34	24.55	7.52	38.33	53.08	74.00	-20.92	Vertical
9688.00	56.58	25.59	8.75	38.25	52.67	74.00	-21.33	Vertical
12110.00	49.65	26.59	9.72	38.33	47.63	74.00	-26.37	Vertical
4844.00	61.03	25.66	7.85	39.55	54.99	74.00	-19.01	Horizontal
7266.00	59.63	24.55	7.52	38.33	53.37	74.00	-20.63	Horizontal
9688.00	55.24	25.59	8.75	38.25	51.33	74.00	-22.67	Horizontal
12110.00	49.65	26.59	9.72	38.33	47.63	74.00	-26.37	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	54.23	25.66	7.85	39.55	48.19	54.00	-5.81	Vertical
7266.00	49.58	24.55	7.52	38.33	43.32	54.00	-10.68	Vertical
9688.00	45.65	25.59	8.75	38.25	41.74	54.00	-12.26	Vertical
12110.00	39.25	26.59	9.72	38.33	37.23	54.00	-16.77	Vertical
4844.00	52.16	25.66	7.85	39.55	46.12	54.00	-7.88	Horizontal
7266.00	49.56	24.55	7.52	38.33	43.30	54.00	-10.70	Horizontal
9688.00	47.33	25.59	8.75	38.25	43.42	54.00	-10.58	Horizontal
12110.00	45.28	26.59	9.72	38.33	43.26	54.00	-10.74	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.
3. The worst case is ANT1 and record the report.

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	60.23	25.45	7.57	38.89	54.36	74.00	-19.64	Vertical
7311.00	58.63	24.78	7.35	38.78	51.98	74.00	-22.02	Vertical
9748.00	56.21	25.69	8.57	38.57	51.90	74.00	-22.10	Vertical
12185.00	48.63	26.11	9.62	38.78	45.58	74.00	-28.42	Vertical
4874.00	60.15	25.45	7.57	38.89	54.28	74.00	-19.72	Horizontal
7311.00	58.63	24.78	7.35	38.78	51.98	74.00	-22.02	Horizontal
9748.00	55.24	25.69	8.57	38.57	50.93	74.00	-23.07	Horizontal
12185.00	49.35	26.11	9.62	38.78	46.30	74.00	-27.70	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	54.36	25.45	7.57	38.89	48.49	54.00	-5.51	Vertical
7311.00	48.66	24.78	7.35	38.78	42.01	54.00	-11.99	Vertical
9748.00	46.21	25.69	8.57	38.57	41.90	54.00	-12.10	Vertical
12185.00	39.89	26.11	9.62	38.78	36.84	54.00	-17.16	Vertical
4874.00	52.47	25.45	7.57	38.89	46.60	54.00	-7.40	Horizontal
7311.00	49.68	24.78	7.35	38.78	43.03	54.00	-10.97	Horizontal
9748.00	47.23	25.69	8.57	38.57	42.92	54.00	-11.08	Horizontal
12185.00	44.36	26.11	9.62	38.78	41.31	54.00	-12.69	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.
3. The worst case is ANT1 and record the report.

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	61.22	25.45	7.46	38.75	55.38	74.00	-18.62	Vertical
7356.00	59.24	24.78	7.82	38.65	53.19	74.00	-20.81	Vertical
9808.00	55.23	26.47	8.35	38.58	51.47	74.00	-22.53	Vertical
12260.00	48.63	26.54	9.25	38.66	45.76	74.00	-28.24	Vertical
4904.00	61.05	25.45	7.46	38.75	55.21	74.00	-18.79	Horizontal
7356.00	58.24	24.78	7.82	38.65	52.19	74.00	-21.81	Horizontal
9808.00	54.32	26.47	8.35	38.58	50.56	74.00	-23.44	Horizontal
12260.00	49.33	26.54	9.25	38.66	46.46	74.00	-27.54	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	55.23	25.45	7.46	38.75	49.39	54.00	-4.61	Vertical
7356.00	49.25	24.78	7.82	38.65	43.20	54.00	-10.80	Vertical
9808.00	46.21	26.47	8.35	38.58	42.45	54.00	-11.55	Vertical
12260.00	39.58	26.54	9.25	38.66	36.71	54.00	-17.29	Vertical
4904.00	52.14	25.45	7.46	38.75	46.30	54.00	-7.70	Horizontal
7356.00	49.37	24.78	7.82	38.65	43.32	54.00	-10.68	Horizontal
9808.00	48.21	26.47	8.35	38.58	44.45	54.00	-9.55	Horizontal
12260.00	43.15	26.54	9.25	38.66	40.28	54.00	-13.72	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.
3. The worst case is ANT1 and record the report.

## 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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