TEST REPORT

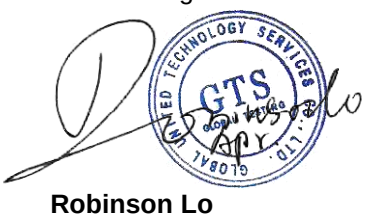
Applicant:	Elo Touch Solutions, Inc.
Address of Applicant:	670 N McCarthy Blvd, Suite 100 Milpitas CA 95035, USA
Manufacturer/Factory:	Elo Touch Solutions, Inc.
Address of Manufacturer/Factory:	670 N McCarthy Blvd, Suite 100 Milpitas CA 95035, USA

Equipment Under Test (EUT)

Product Name:	Touch All-in-One Computer
Model No.:	ESY15I1D
Trade Mark:	Elo
FCC ID:	RBWESY15I1D
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247
Date of sample receipt:	Mar. 28, 2020
Date of Test:	Mar. 28, 2020~Apr. 01, 2021
Date of report issued:	Apr. 01, 2021
Test Result :	PASS *

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

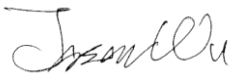
Authorized Signature:



Robinson Lo
Laboratory Manager

2 Version

Version No.	Date	Description
00	*Apr. 01, 2021*	*Original*

Prepared By:  ***Date:*** Apr. 01, 2021

Tested/Project Engineer

Check By:  ***Date:*** Apr. 01, 2021

Reviewer

3 Contents

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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

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:	Touch All-in-One Computer
Model No.:	ESY15I1D
Serial No.:	N/A
Hardware Version:	N/A
Software Version:	N/A
Test sample(s) ID:	GTSL202103000292-1(Engineer sample) GTSL202103000292-2(Normal 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(HT20)/802.11n(HT40): Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	FPCB antenna
Antenna gain:	Antenna 1:1dBi Antenna 2:1dBi MIMO: 4.01dBi
Power supply:	DC 19V 3.0A

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

Note:

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

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

5.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode

Remark: During the test, the dutycycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data. New battery is used during all test.

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

Manufacturer	Description	Model	Serial Number
/	/	/	/

5.4 Deviation from Standards

None.

5.5 Abnormalities from Standard Conditions

None.

5.6 Test Facility

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

● **FCC —Registration No.: 381383**

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 381383.

● **IC —Registration No.: 9079A**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A

● **NVLAP (LAB CODE:600179-0)**

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0

5.7 Test Location

All tests were performed at:

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

5.8 Additional Instructions

Test Software	Special test command provided by manufacturer
Power level setup	Default

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
9	Spectrum Analyzer	R&S	FSV40	GTS559	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

Standard requirement:	FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

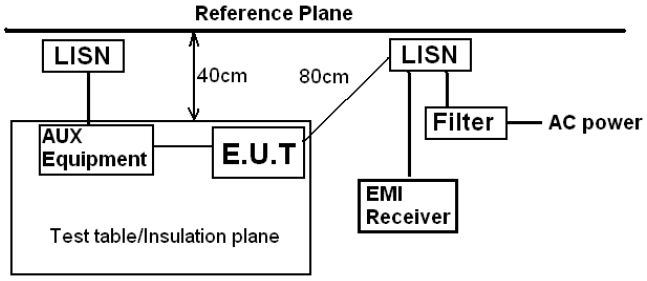
15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

EUT Antenna:

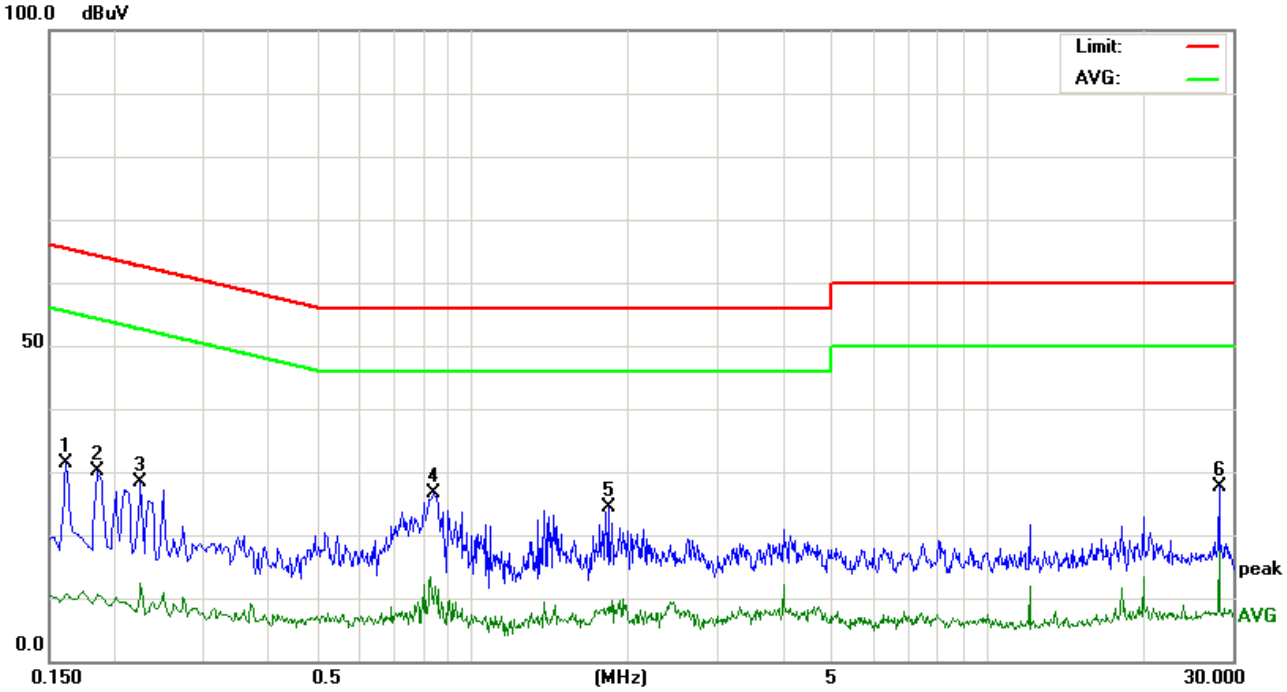
The antenna is FPC antenna, the best case gain of the antenna is 1.0dBi, reference to the appendix II for details

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:	 *Remark:* *E.U.T: Equipment Under Test* *LISN: Line Impedence 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 5.2 for details
Test environment:	Temp.: 25 °C / Humid.: 52% / Press.: 1012mbar
Test voltage:	AC 120V
Test results:	Pass

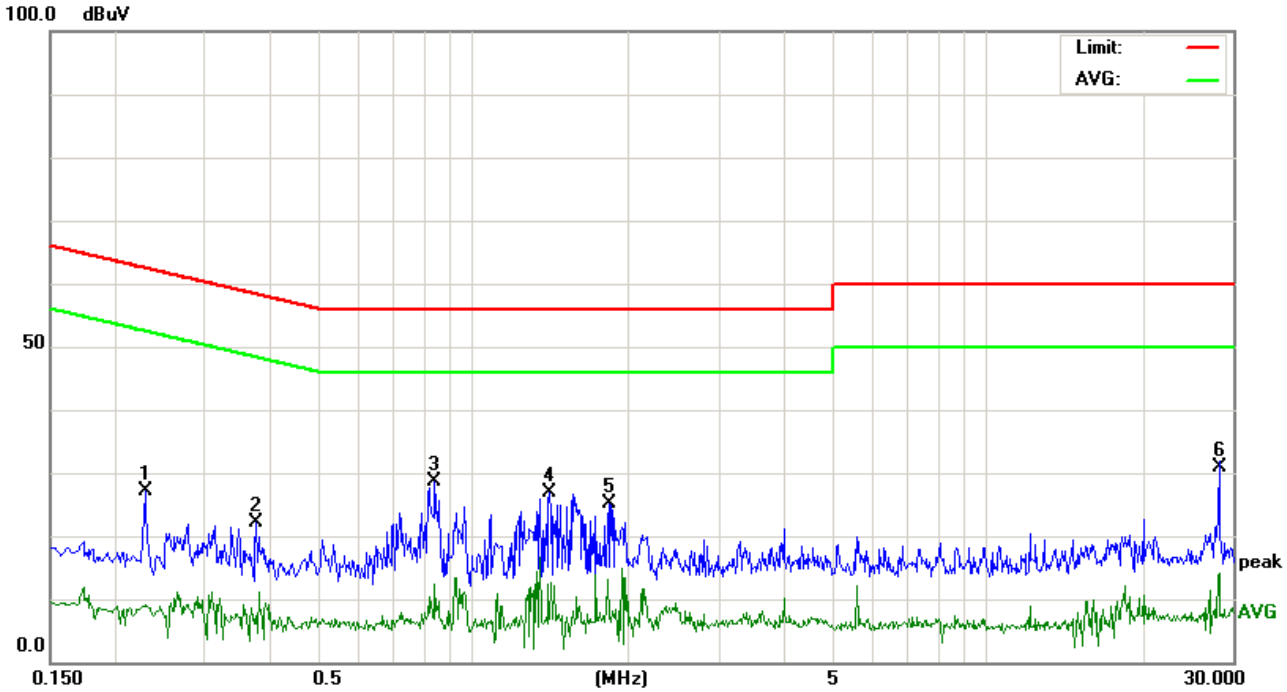
Measurement data

Line:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1620	19.76	11.68	31.44	65.36	-33.92	peak
2		0.1860	18.80	11.31	30.11	64.21	-34.10	peak
3		0.2260	17.53	10.96	28.49	62.59	-34.10	peak
4	*	0.8380	16.66	9.95	26.61	56.00	-29.39	peak
5		1.8380	14.51	9.99	24.50	56.00	-31.50	peak
6		28.1900	25.50	2.02	27.52	60.00	-32.48	peak

Neutral:

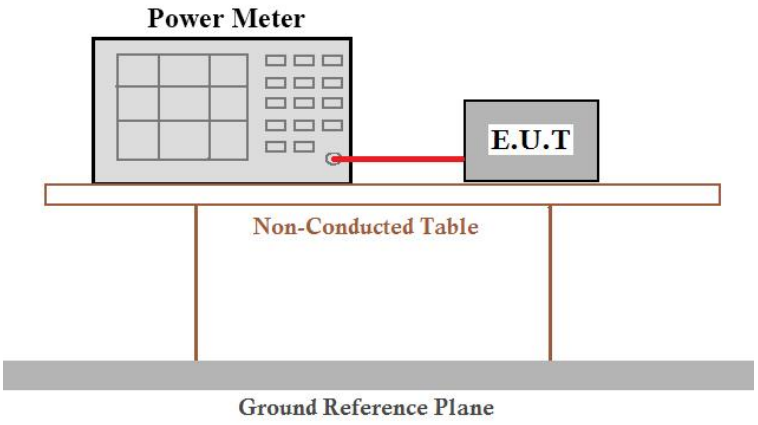


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.2300	16.16	10.95	27.11	62.45	-35.34	peak
2		0.3780	12.02	10.14	22.16	58.32	-36.16	peak
3	*	0.8420	18.74	9.95	28.69	56.00	-27.31	peak
4		1.4060	16.83	9.96	26.79	56.00	-29.21	peak
5		1.8300	15.09	9.98	25.07	56.00	-30.93	peak
6		28.1620	28.75	2.02	30.77	60.00	-29.23	peak

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 :	KDB558074 D01 DTS Meas Guidance v05r02 ANSI C63.10:2013
Limit:	30dBm
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

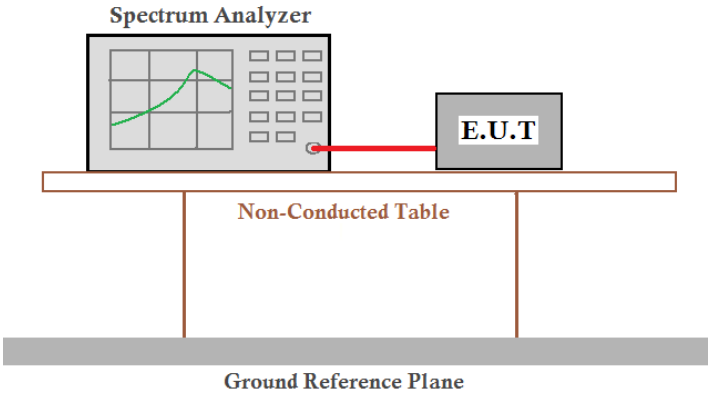
Measurement Data

Test CH	Ant 1 Peak Output Power (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	1.11	0.62	-1.75	-1.73	30.00	Pass
Middle	0.55	-0.15	-2.47	-2.08		
Highest	0.73	0.11	-2.34	-2.06		

Test CH	Ant 2 Peak Output Power (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	0.92	0.59	-1.87	-1.91	30.00	Pass
Middle	0.52	-0.19	-2.35	-2.14		
Highest	0.32	-0.58	-2.7	-2.47		

Test CH	Ant 1+Ant 2 Peak Output Power (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	-	-	1.20	1.19	30.00	Pass
Middle	-	-	0.60	0.90		
Highest	-	-	0.49	0.75		

7.4 Channel Bandwidth

Test Requirement :	FCC Part15 C Section 15.247 (a)(2)
Test Method :	KDB558074 D01 DTS Meas Guidance v05r02 ANSI C63.10:2013
Limit:	>500KHz
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data

ANT1:

Test CH	Channel Bandwidth (MHz)				Limit(KHz)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	10.11	16.365	17.58	36.354	>500	Pass
Middle	10.104	16.362	17.598	36.366		
Highest	10.095	16.374	17.58	36.33		

ANT2:

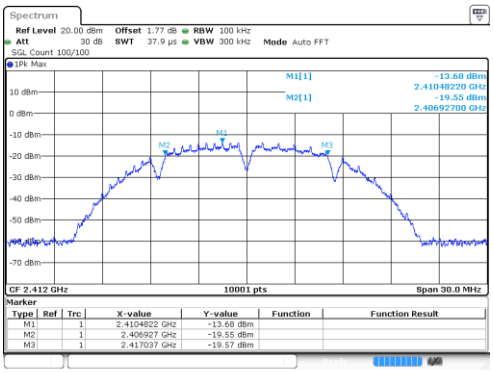
Test CH	Channel Bandwidth (MHz)				Limit(KHz)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	10.095	16.371	17.577	36.384	>500	Pass
Middle	10.11	16.35	17.592	36.324		
Highest	10.113	16.404	17.598	36.342		

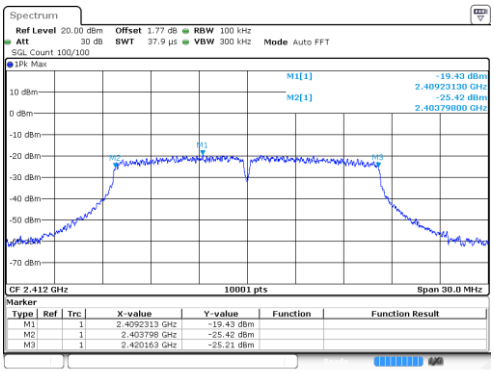
Test plot as follows:

-6dB BW:

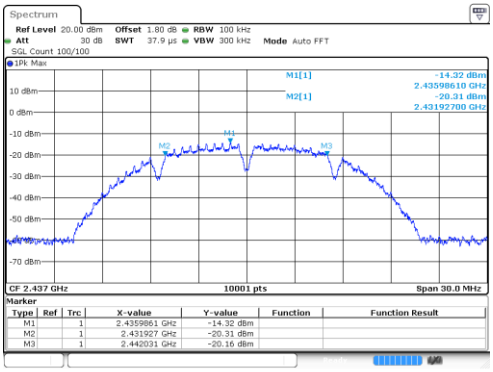
ANT1:

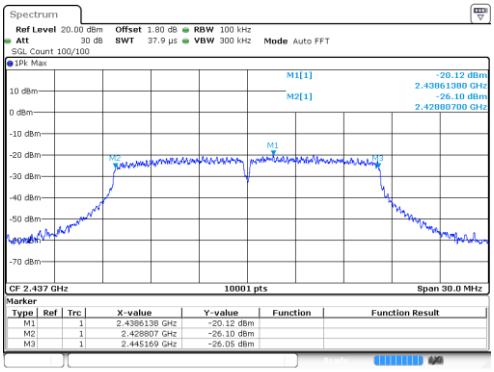
Test mode:	802.11b	Test mode:	802.11g



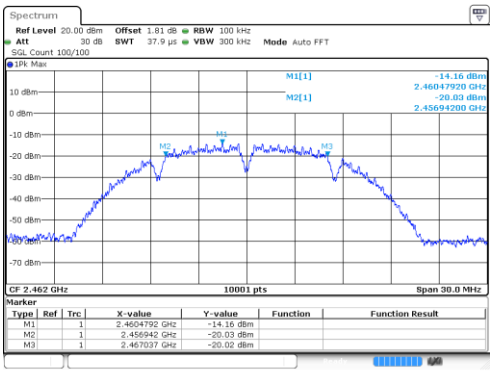


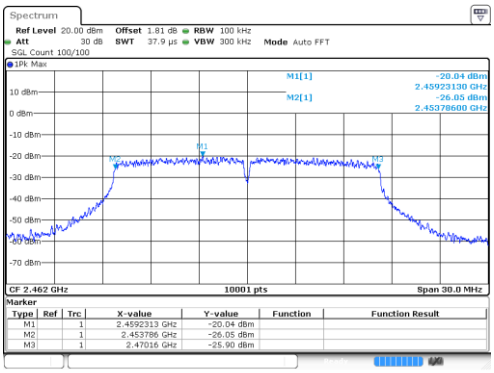
Lowest channel





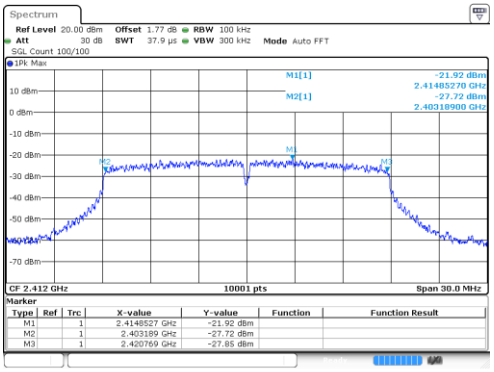
Middle channel

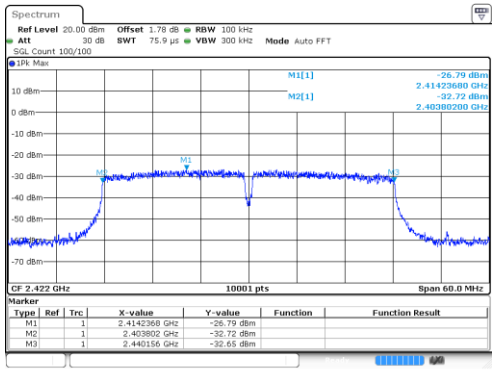




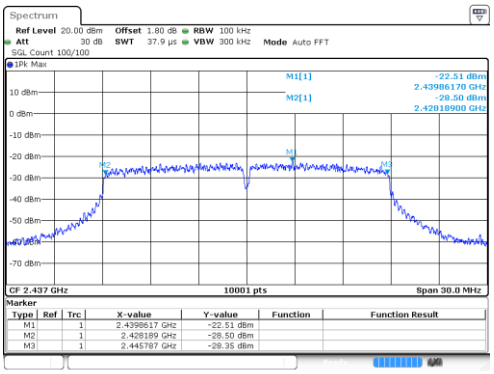
Highest channel

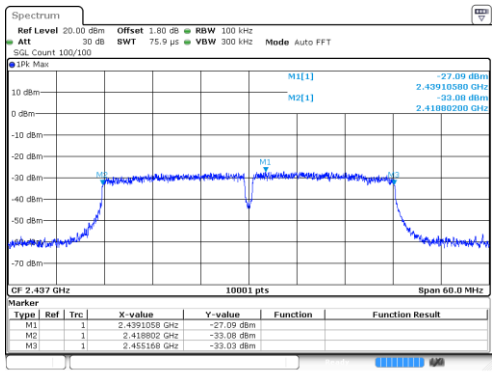
Test mode:	802.11n(HT20)	Test mode:	802.11n(HT40)



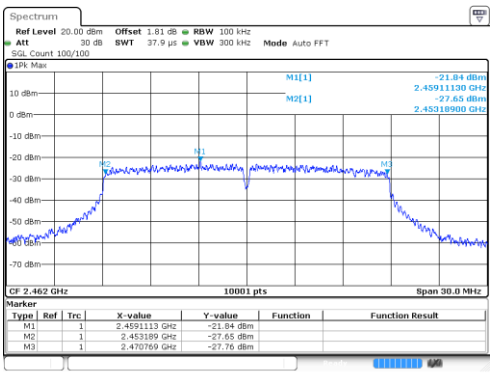


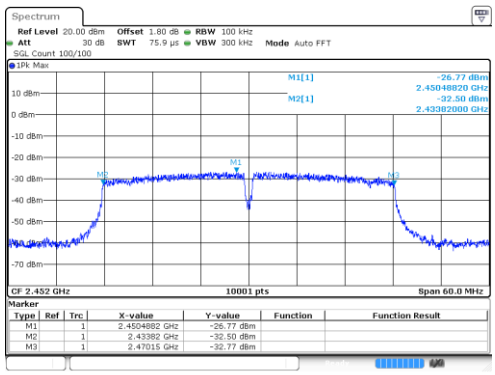
Lowest channel





Middle channel

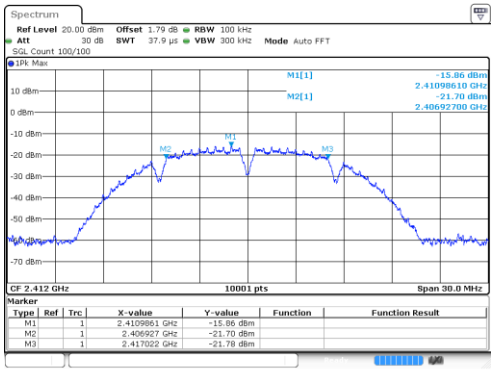


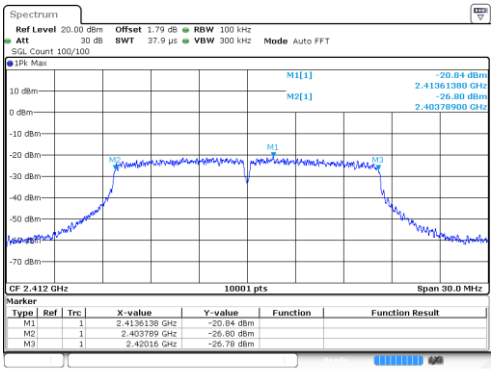


Highest channel

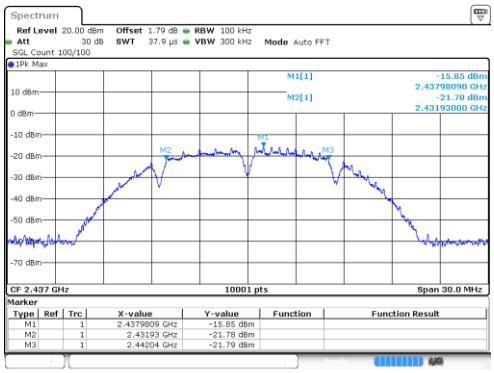
ANT2:

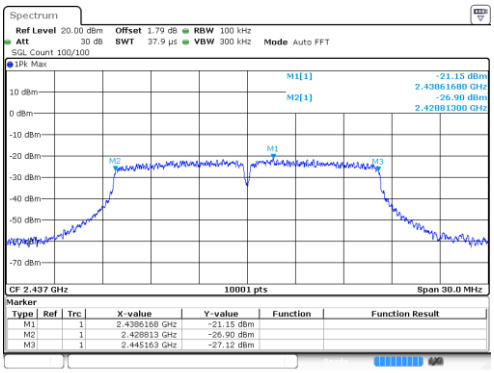
Test mode:	802.11b	Test mode:	802.11g



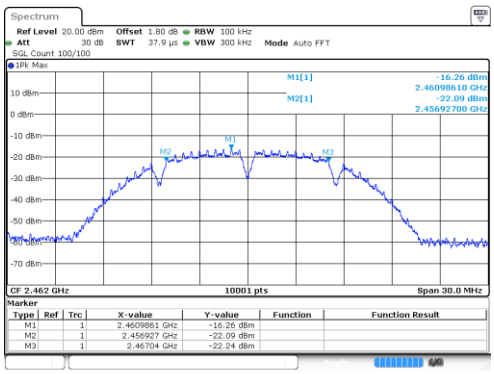


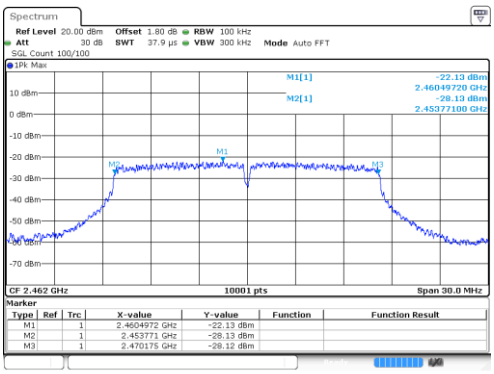
Lowest channel





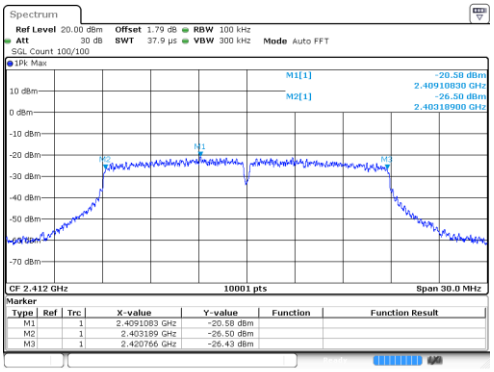
Middle channel

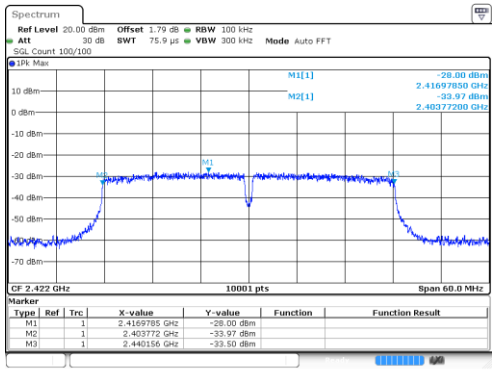




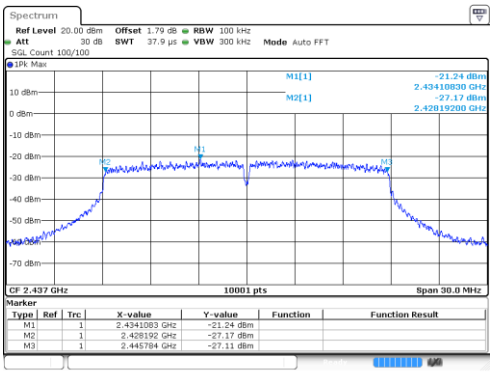
Highest channel

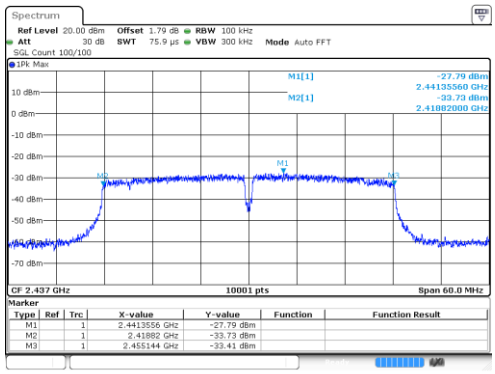
Test mode:	802.11n(HT20)	Test mode:	802.11n(HT40)



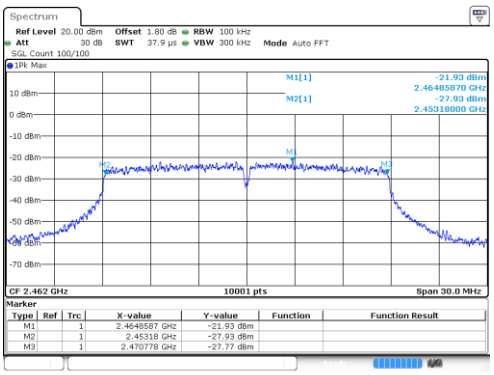


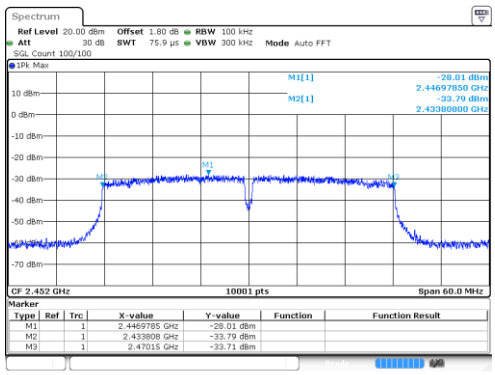
Lowest channel





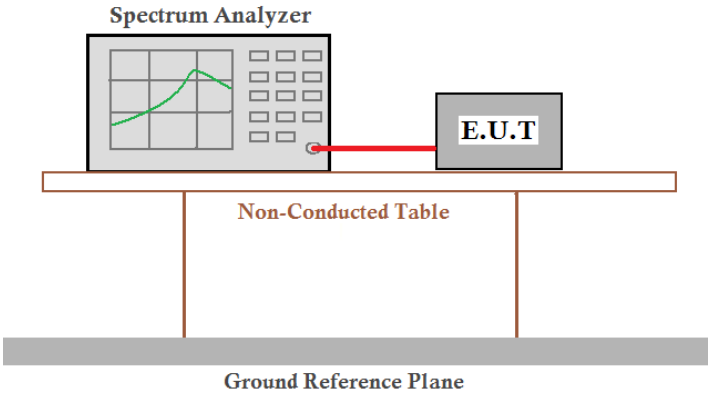
Middle channel





Highest channel

7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB558074 D01 DTS Meas Guidance v05r02 ANSI C63.10:2013
Limit:	8dBm/3kHz
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data

ANT1:

Test CH	Power Spectral Density (dBm/100kHz)				Limit (dBm/3kHz)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	-13.62	-19.35	-20.78	-26.56	8.00	Pass
Middle	-14.33	-20.69	-21.16	-26.92		
Highest	-14.14	-20.05	-21.96	-27		

ANT2:

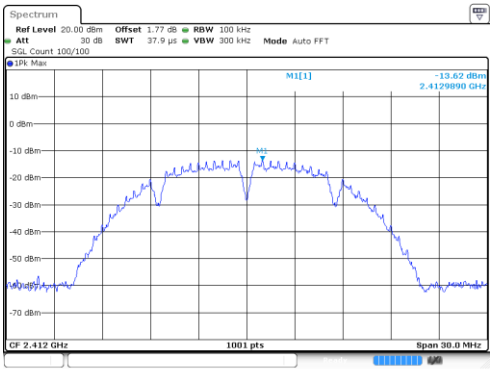
Test CH	Power Spectral Density (dBm/100kHz)				Limit (dBm/3kHz)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	-15.85	-20.78	-21.18	-27.57	8.00	Pass
Middle	-16.04	-21.16	-21.82	-27.67		
Highest	-16.24	-21.96	-21.98	-28.2		

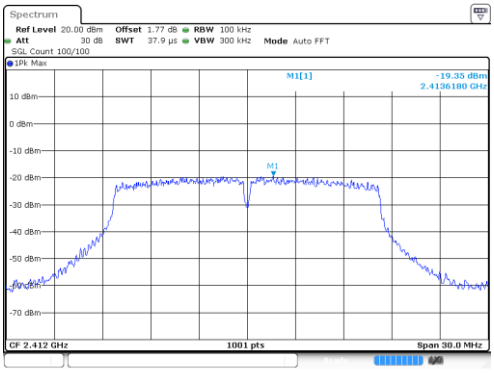
Test CH	Ant1+Ant2 Power Spectral Density (dBm/100kHz)				Limit (dBm/3kHz)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	-	-	-17.97	-24.03	8.00	Pass
Middle	-	-	-18.47	-24.27		
Highest	-	-	-18.96	-24.55		

Test plot as follows:

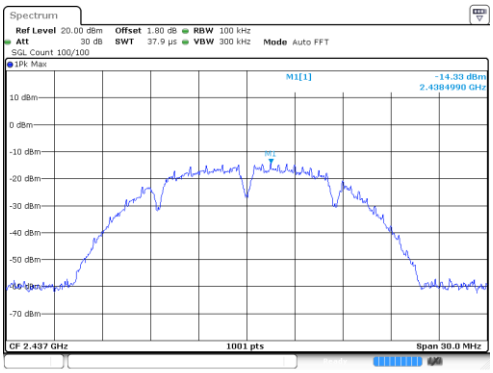
ANT1:

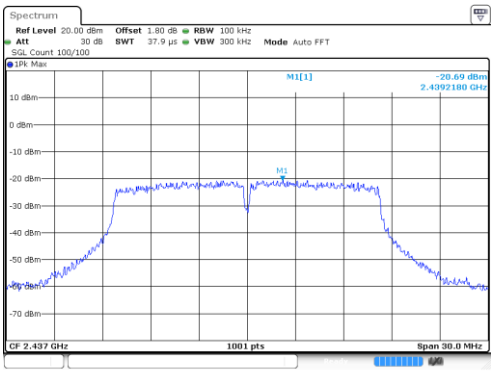
Test mode:	802.11b	Test mode:	802.11g



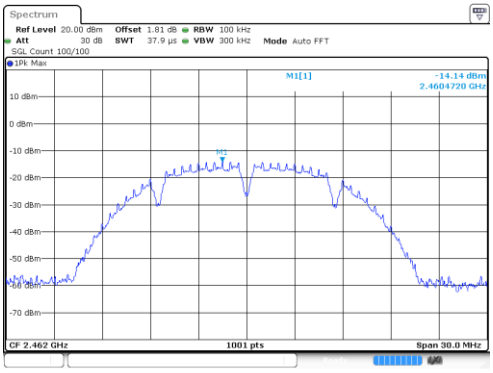


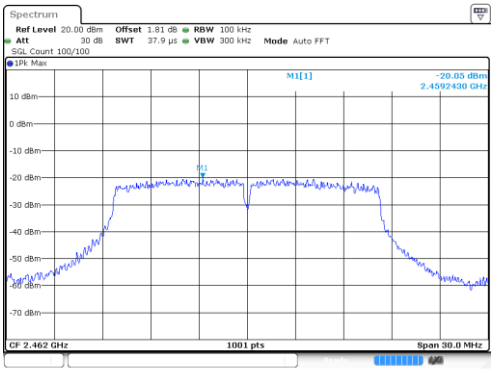
Lowest channel





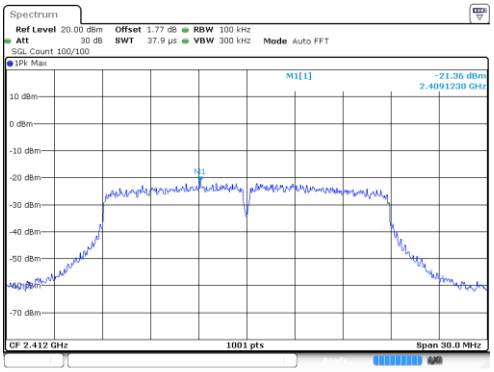
Middle channel

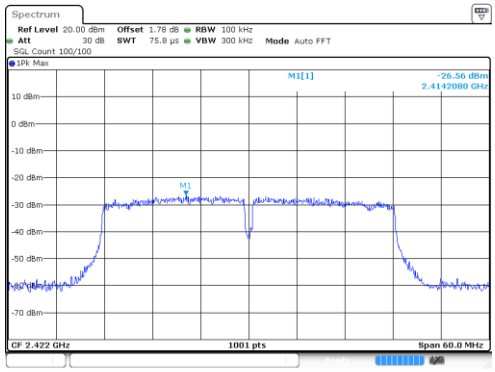




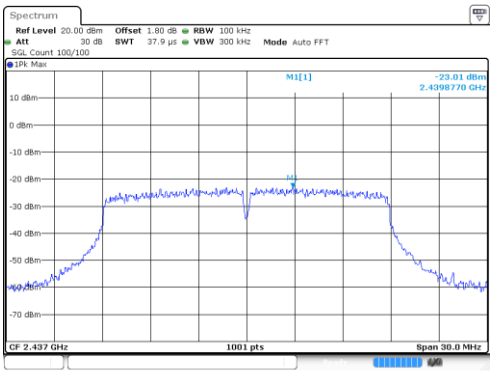
Highest channel

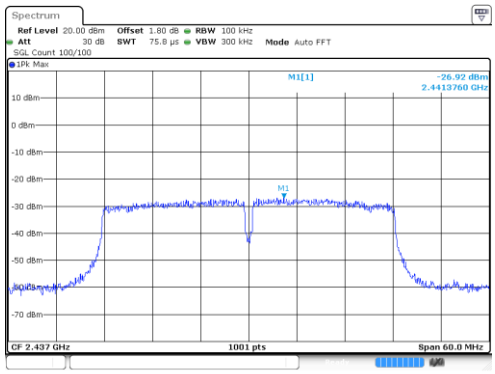
Test mode:	802.11n(HT20)	Test mode:	802.11n(HT40)



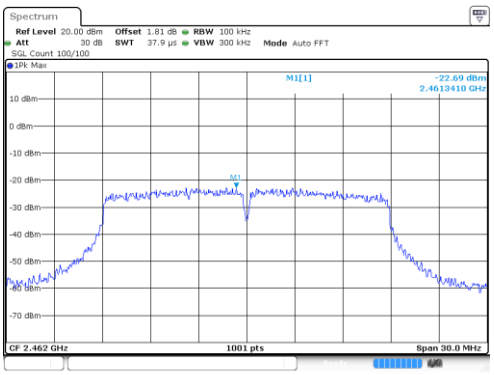


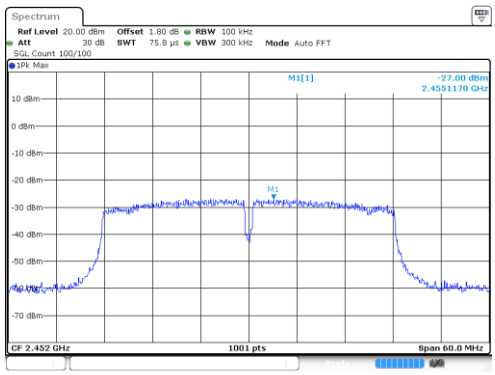
Lowest channel





Middle channel

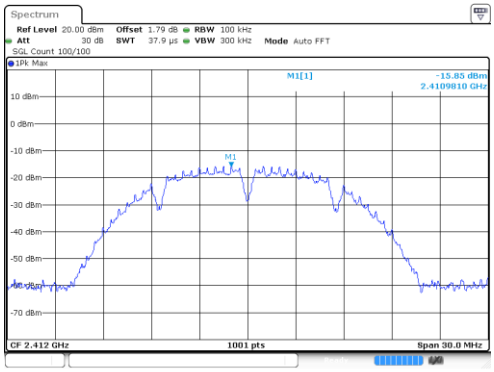


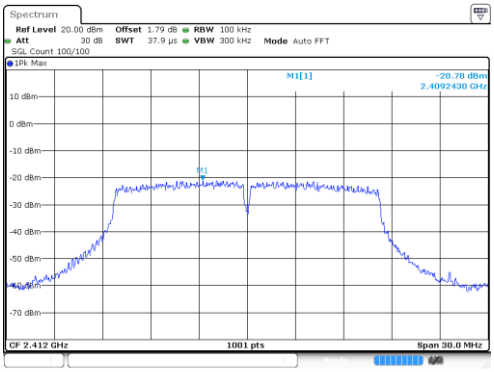


Highest channel

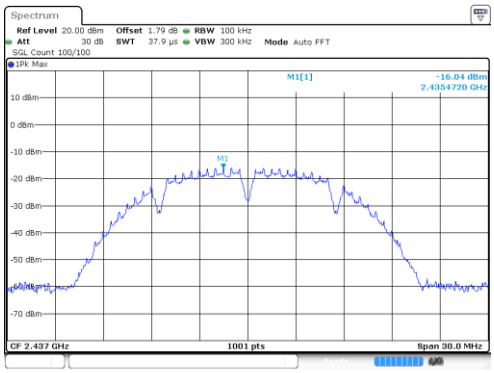
ANT2:

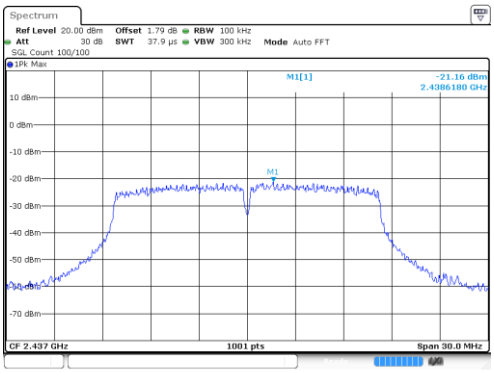
Test mode:	802.11b	Test mode:	802.11g



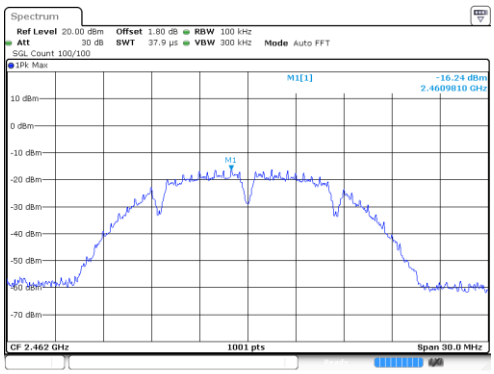


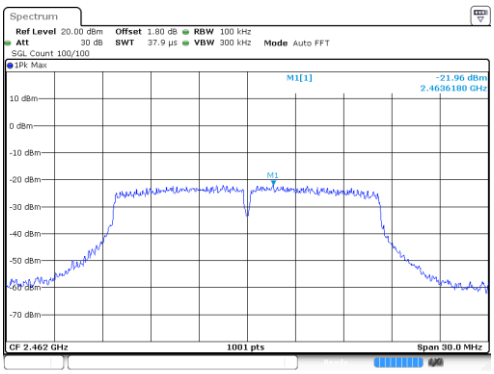
Lowest channel





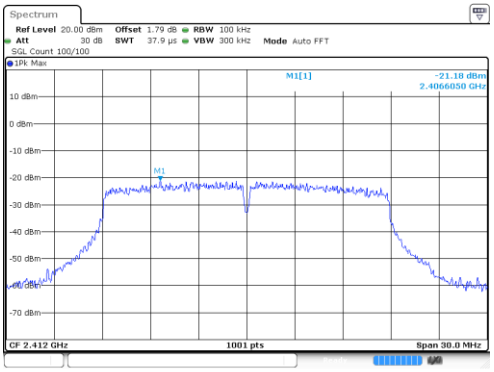
Middle channel

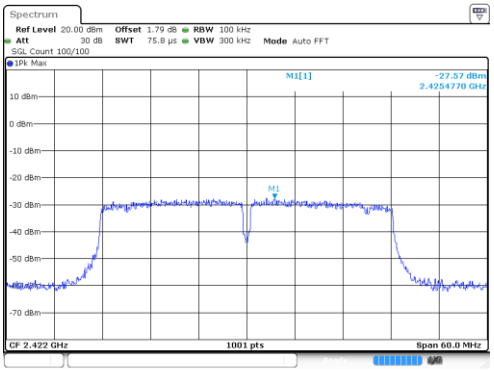




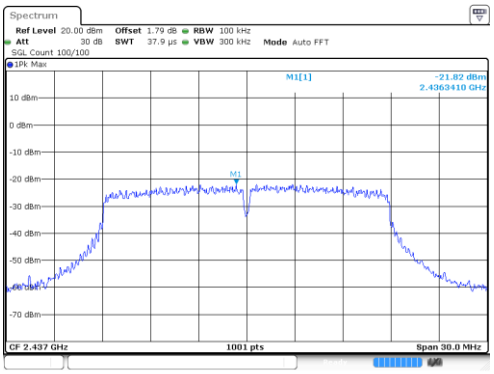
Highest channel

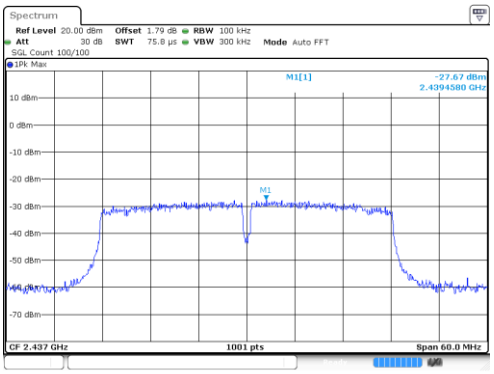
Test mode:	802.11n(HT20)	Test mode:	802.11n(HT40)



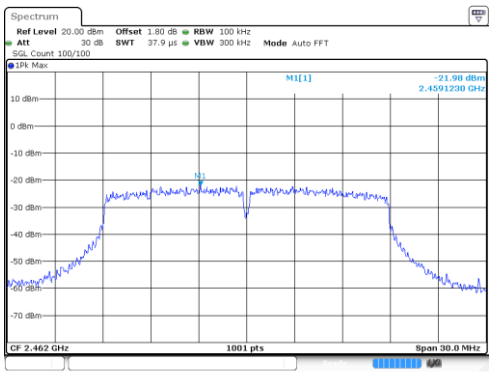


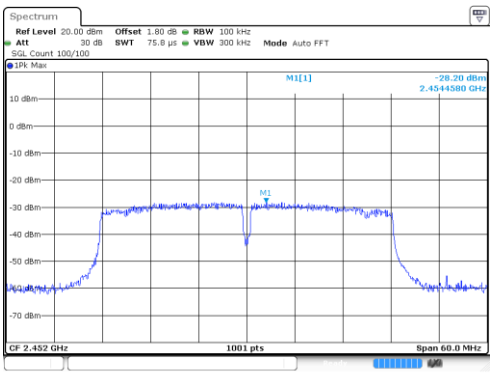
Lowest channel





Middle channel

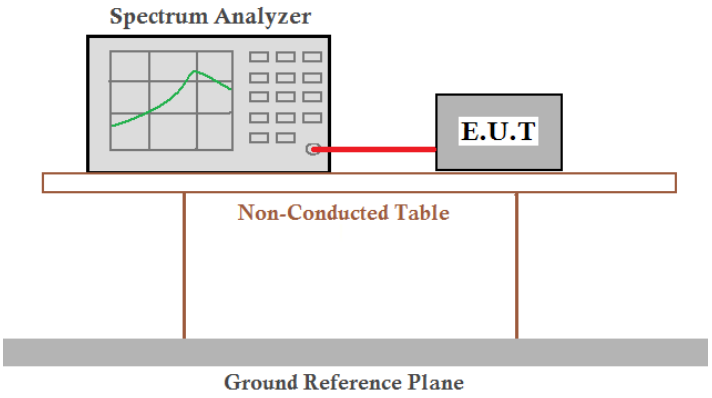




Highest channel

7.6 Band edges

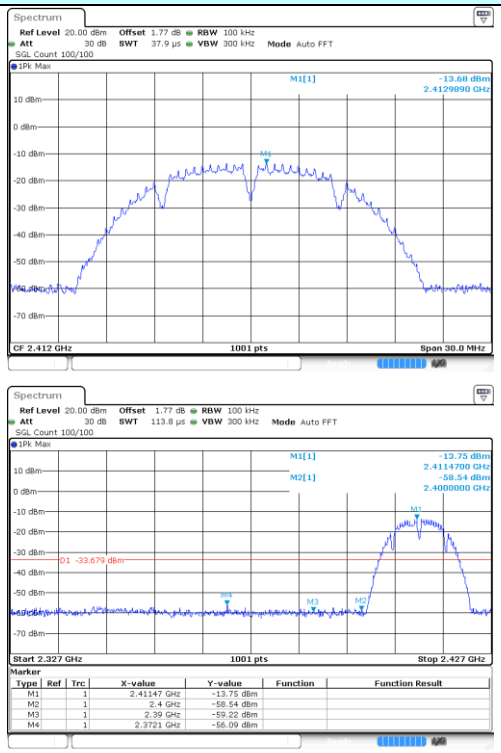
7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074 D01 DTS Meas Guidance v05r02 ANSI C63.10:2013
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:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

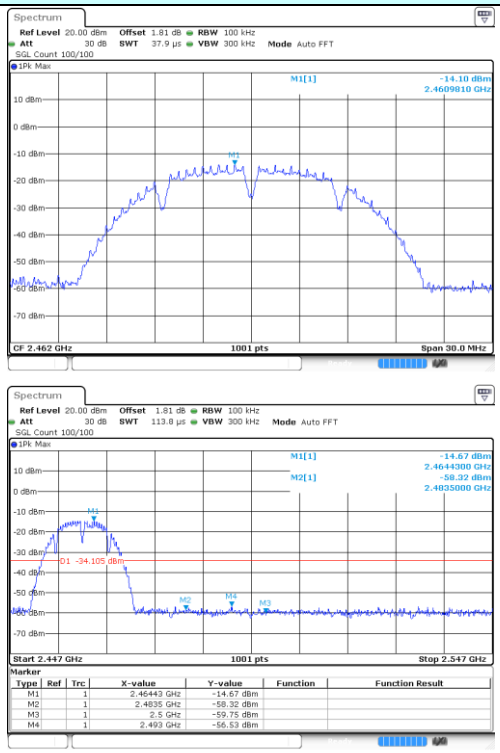
Test plot as follows:

ANT1:

Test mode:	802.11b

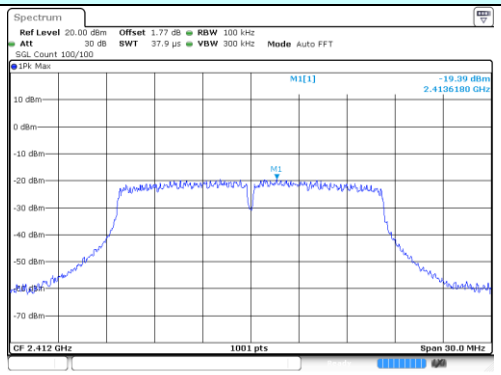


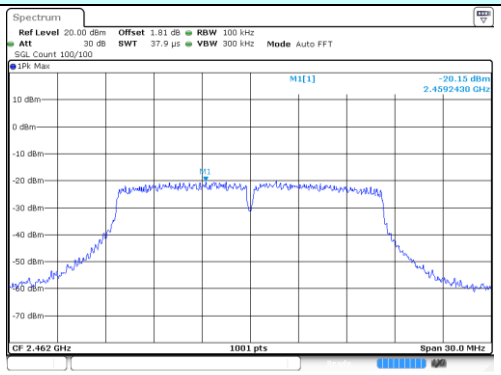
Lowest channel

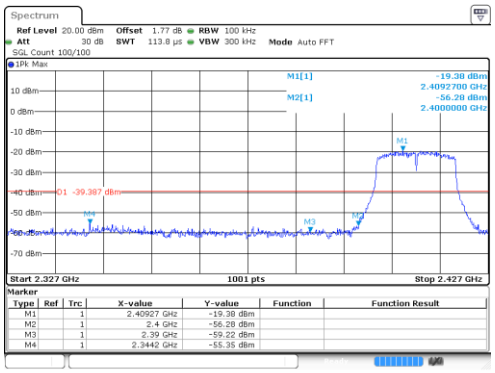


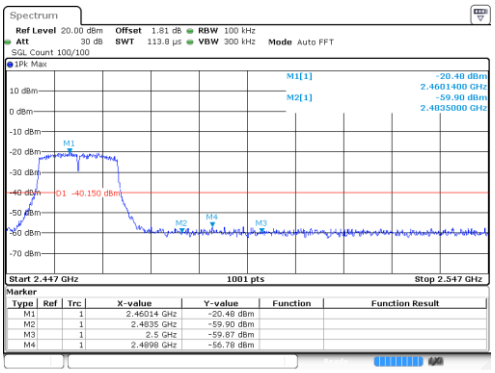
Highest channel

Test mode:	802.11g





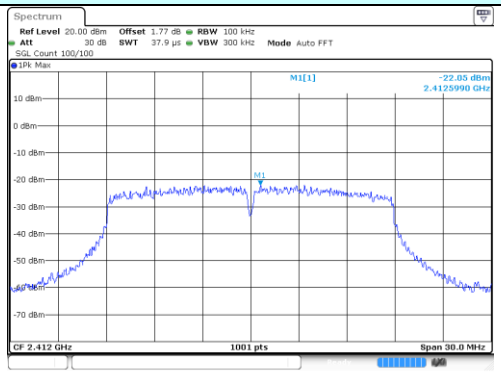


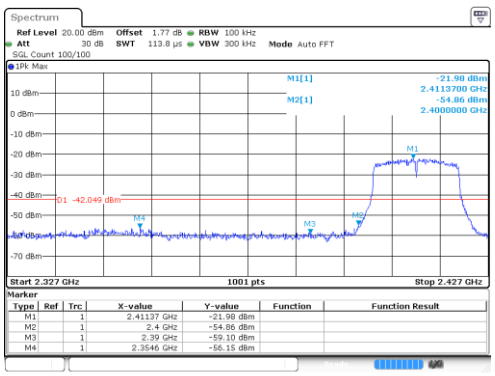


Lowest channel

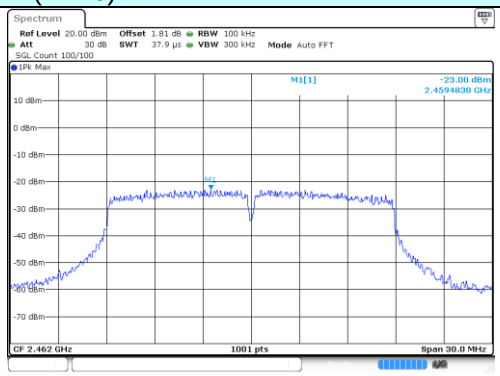
Highest channel

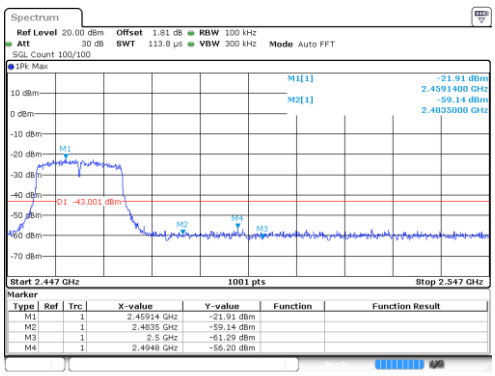
Test mode:	802.11n(HT20)





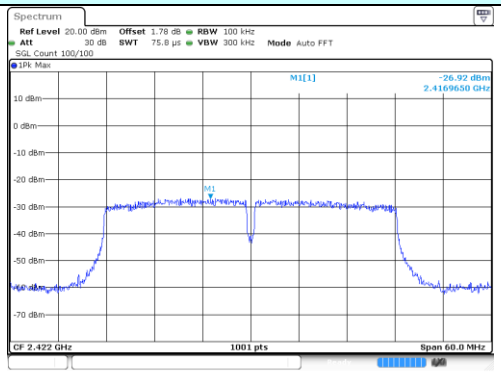
Lowest channel

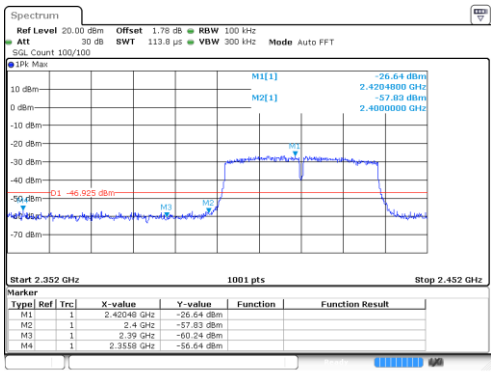




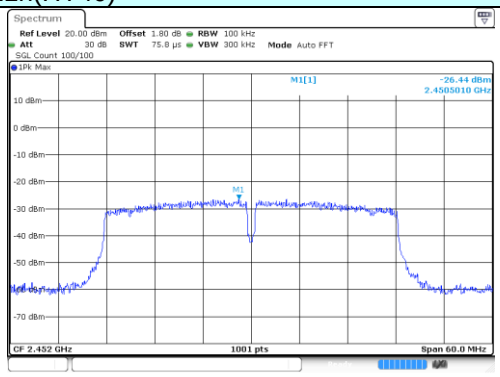
Highest channel

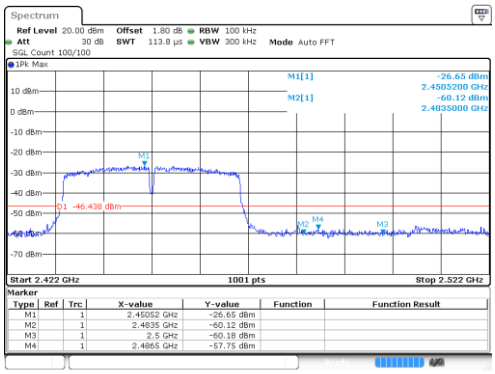
Test mode:	802.11n(HT40)





Lowest channel

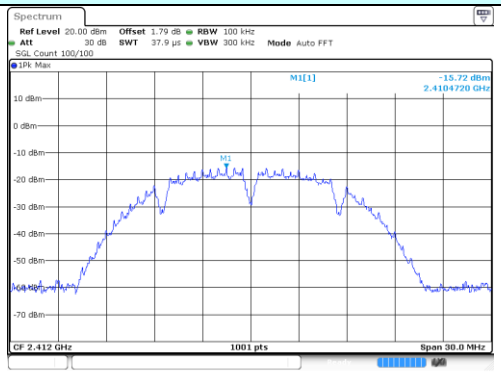


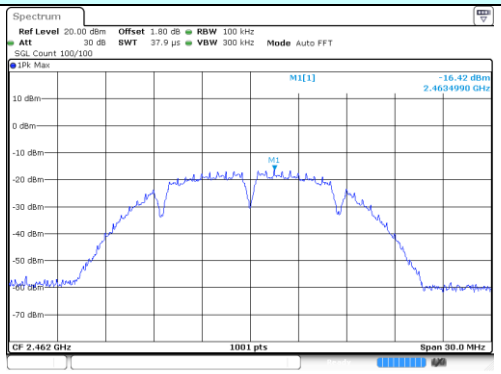


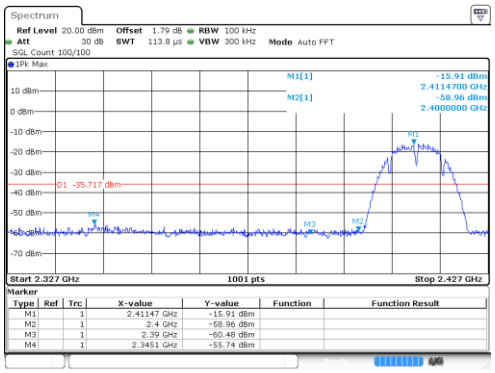
Highest channel

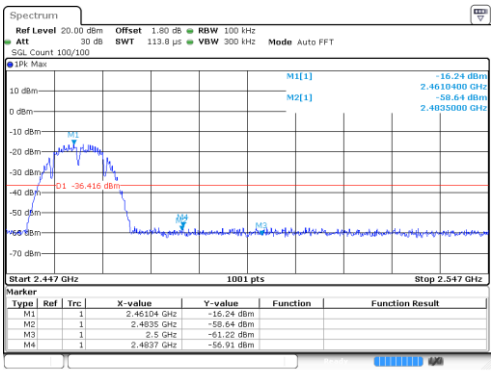
ANT2:

Test mode:	802.11b



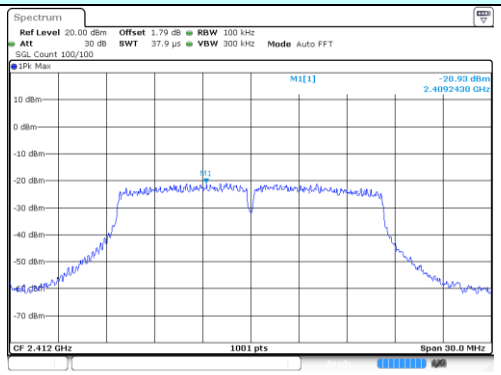


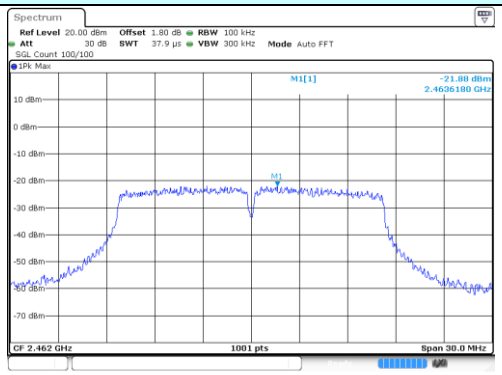


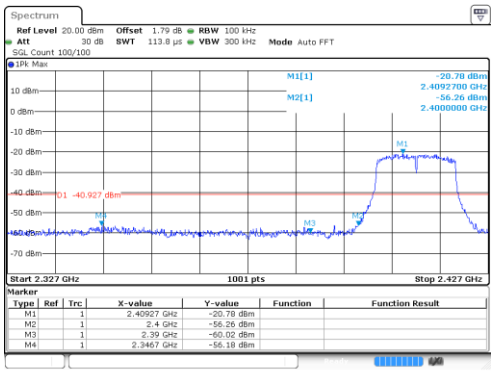


Lowest channel | Highest channel

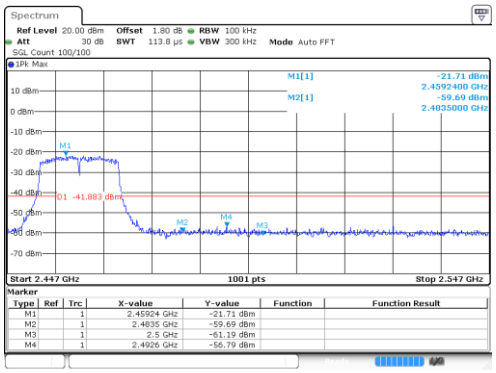
Test mode:	802.11g





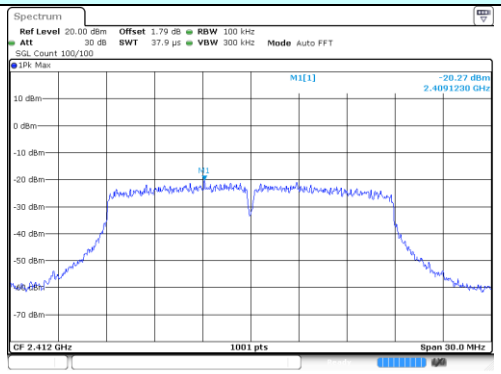


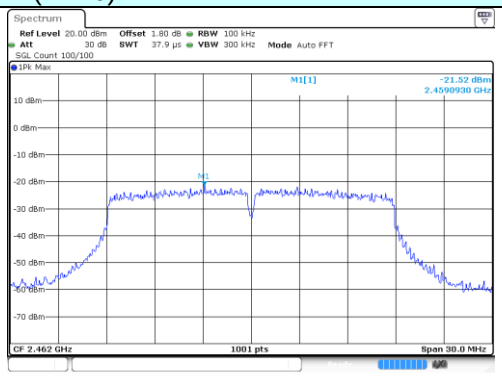
Lowest channel

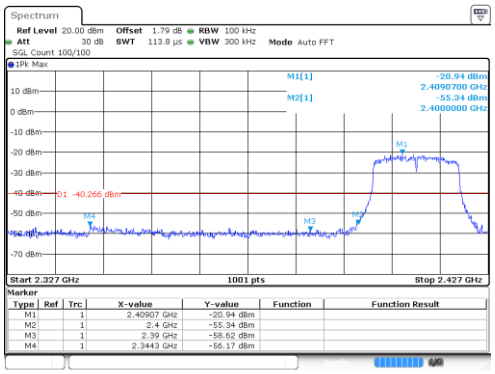


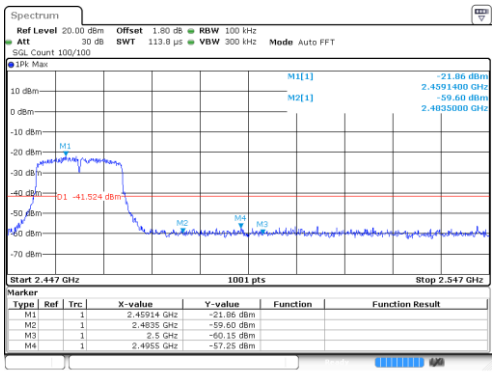
Highest channel

Test mode:	802.11n(HT20)





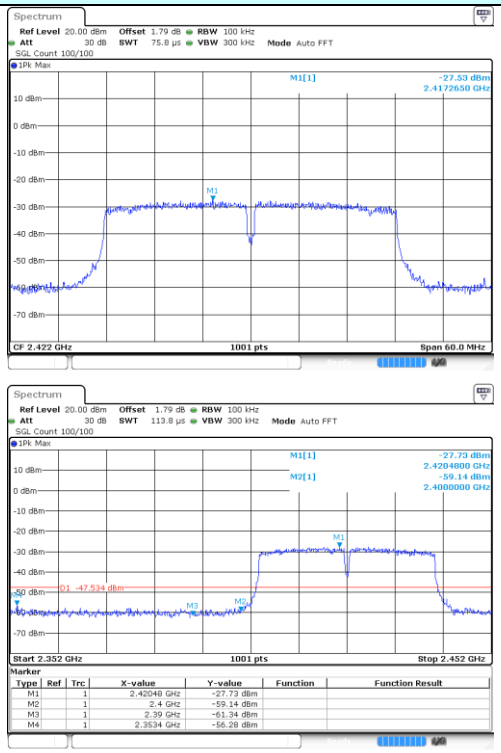




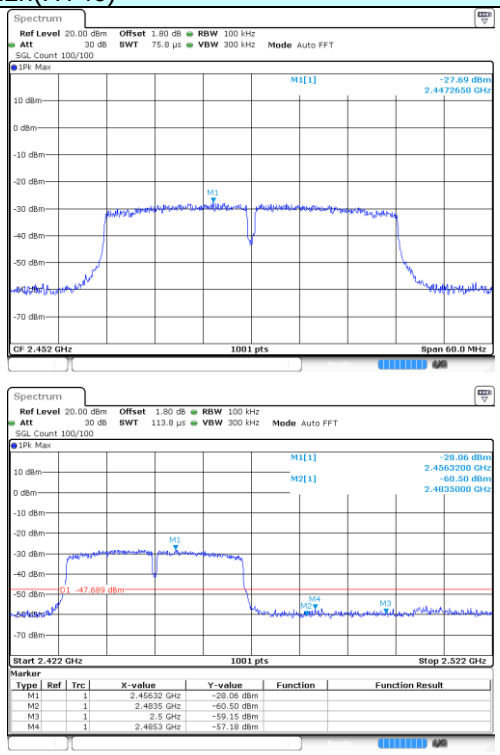
Lowest channel

Highest channel

Test mode:	802.11n(HT40)

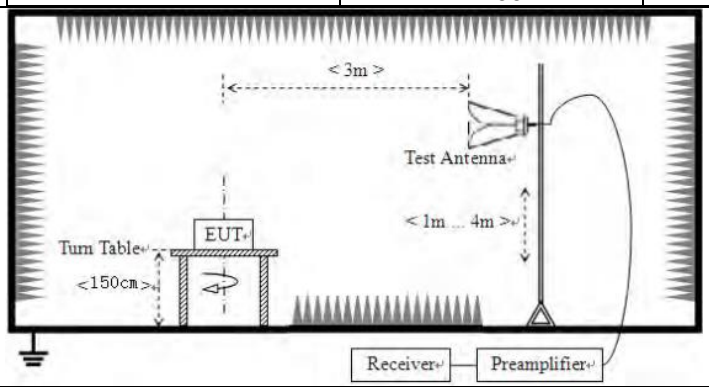


Lowest channel



Highest channel

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 Above 1GHz / Average / 1MHz / 3MHz / Average
Limit:	Frequency / Limit (dBuV/m @3m) / Value Above 1GHz / 54.00 / Average Above 1GHz / 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 Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement data:

Test mode:	802.11b	Test channel:	Lowest

Vertical：

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400.000	33.14	-5.70	27.44	74.00	-46.56	peak
2400.000	20.57	-5.70	14.87	54.00	-39.13	AVG

Horizontal：

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400.000	37.69	-5.70	31.99	74.00	-42.01	peak
2400.000	21.58	-5.70	15.88	54.00	-38.12	AVG

Test mode:	802.11b	Test channel:	Highest

Vertical：

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.500	29.97	-4.98	24.99	74.00	-49.01	peak
2483.500	20.26	-4.98	15.28	54.00	-38.72	AVG

Horizontal：

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.500	30.47	-4.98	25.49	74.00	-48.51	peak
2483.500	21.08	-4.98	16.10	54.00	-37.90	AVG

Test mode:	802.11g	Test channel:	Lowest

Vertical：

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400.000	36.17	-5.70	30.47	74.00	-43.53	peak
2400.000	20.98	-5.70	15.28	54.00	-38.72	AVG

Horizontal：

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400.000	38.52	-5.70	32.82	74.00	-41.18	peak
2400.000	21.39	-5.70	15.69	54.00	-38.31	AVG

Test mode:	802.11g	Test channel:	Highest

Vertical：

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.500	30.49	-4.98	25.51	74.00	-48.49	peak
2483.500	20.33	-4.98	15.35	54.00	-38.65	AVG

Horizontal：

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.500	31.17	-4.98	26.19	74.00	-47.81	peak
2483.500	20.58	-4.98	15.60	54.00	-38.40	AVG

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

Vertical：

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400.000	34.58	-5.70	28.88	74.00	-45.12	peak
2400.000	20.49	-5.70	14.79	54.00	-39.21	AVG

Horizontal：

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400.000	38.74	-5.70	33.04	74.00	-40.96	peak
2400.000	21.63	-5.70	15.93	54.00	-38.07	AVG

Test mode:	802.11n(HT20)	Test channel:	Highest

Vertical：

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.500	30.49	-4.98	25.51	74.00	-48.49	peak
2483.500	20.06	-4.98	15.08	54.00	-38.92	AVG

Horizontal：

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.500	29.98	-4.98	25.00	74.00	-49.00	peak
2483.500	21.06	-4.98	16.08	54.00	-37.92	AVG

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

Vertical：

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400.000	32.98	-5.70	27.28	74.00	-46.72	peak
2400.000	21.46	-5.70	15.76	54.00	-38.24	AVG

Horizontal：

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400.000	39.36	-5.70	33.66	74.00	-40.34	peak
2400.000	21.75	-5.70	16.05	54.00	-37.95	AVG

Test mode:	802.11n(HT40)	Test channel:	Highest

Vertical：

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.500	31.05	-4.98	26.07	74.00	-47.93	peak
2483.565	20.11	-4.98	15.13	54.00	-38.87	AVG

Horizontal：

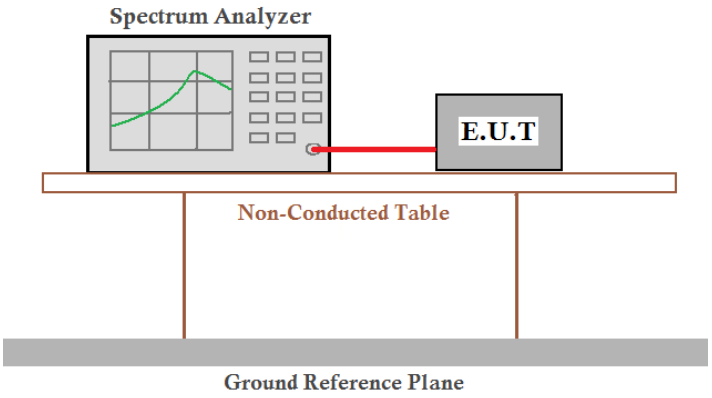
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.500	31.58	-4.98	26.60	74.00	-47.40	peak
2483.500	21.03	-4.98	16.05	54.00	-37.95	AVG

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 – Preamplifier Factor*
4. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

7.7 Spurious Emission

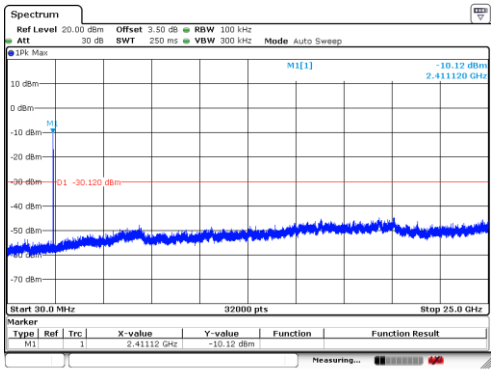
7.7.1 Conducted Emission Method

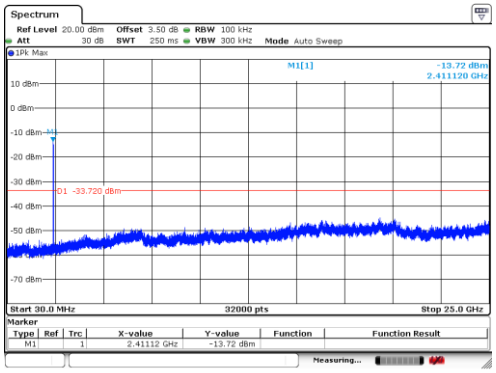
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074 D01 DTS Meas Guidance v05r02 ANSI C63.10:2013
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional 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:	
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	Test mode:	802.11g

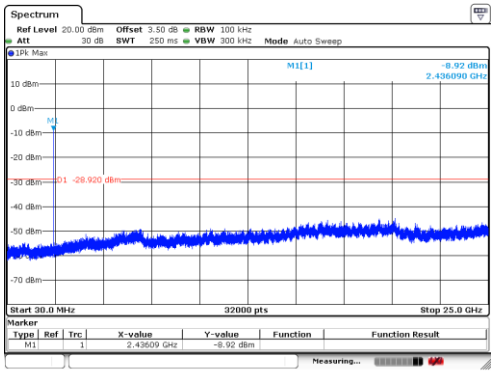
Lowest channel

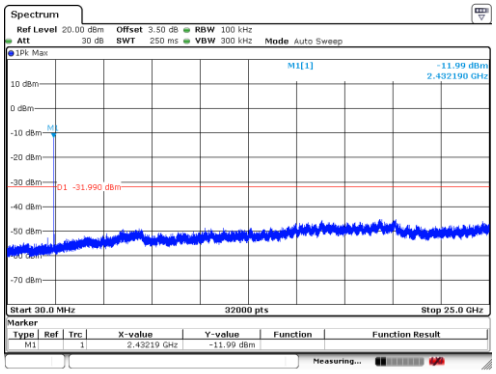




30MHz~25GHz

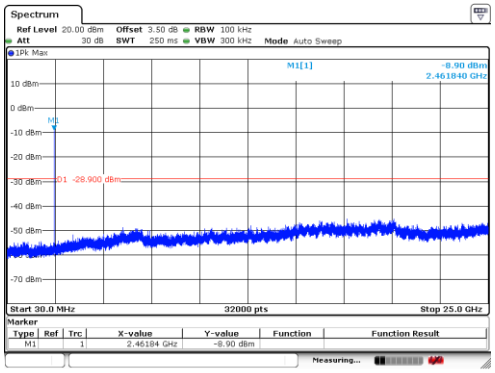
Middle channel

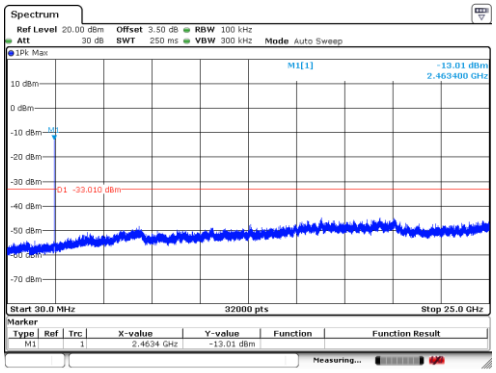




30MHz~25GHz

Highest channel

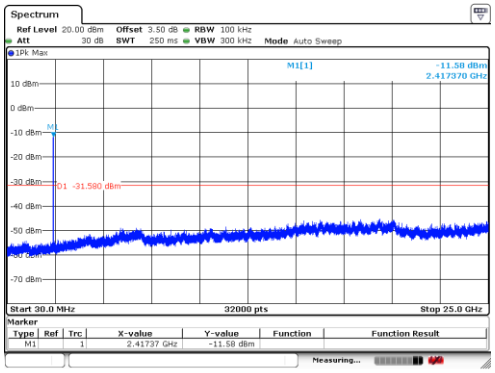


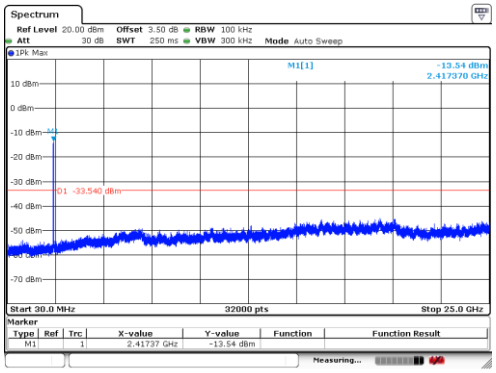


30MHz~25GHz

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

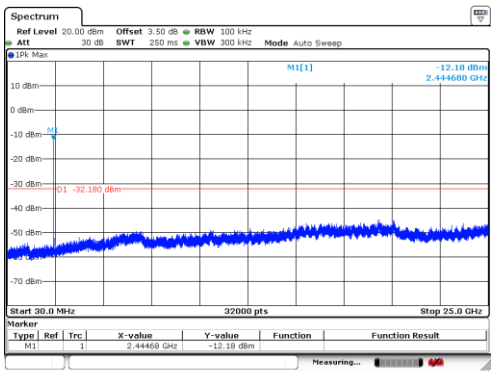
Lowest channel

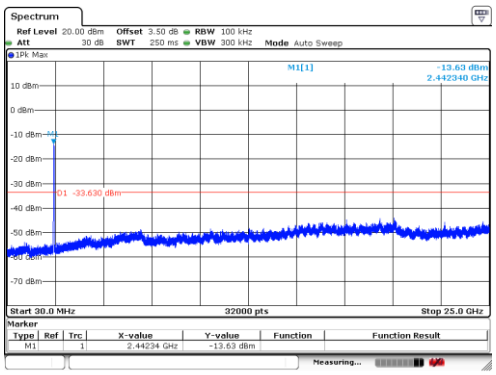




30MHz~25GHz

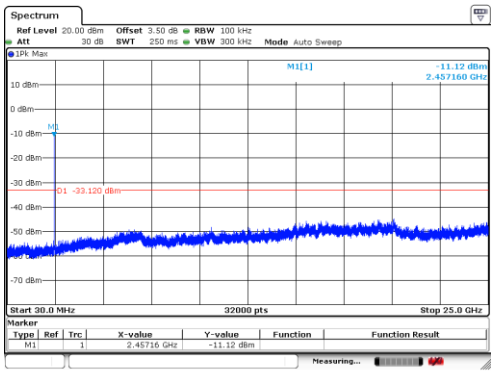
Middle channel

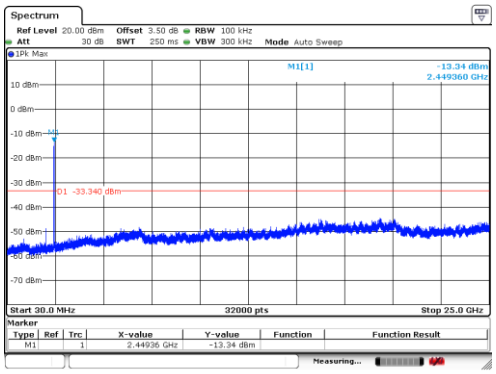




30MHz~25GHz

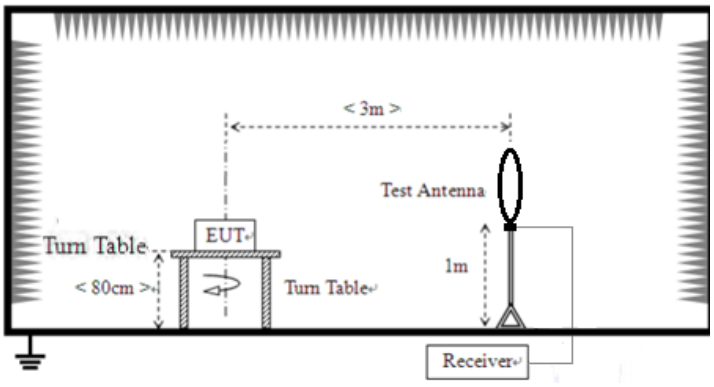
Highest channel





30MHz~25GHz

7.7.2 Radiated Emission Method

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 C Section 15.209</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10: 2013</td></tr>
<tr><td>Test Frequency Range:</td><td>9kHz to 25GHz</td></tr>
<tr><td>Test site:</td><td>Measurement Distance: 3m</td></tr>
<tr><td>Receiver setup:</td><td>
<table>
<tr><th>Frequency</th><th>Detector</th><th>RBW</th><th>VBW</th><th>Value</th></tr>
<tr><td>9KHz-150KHz</td><td>Quasi-peak</td><td>200Hz</td><td>600Hz</td><td>Quasi-peak</td></tr>
<tr><td>150KHz-30MHz</td><td>Quasi-peak</td><td>9KHz</td><td>30KHz</td><td>Quasi-peak</td></tr>
<tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>100KHz</td><td>300KHz</td><td>Quasi-peak</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak</td></tr>
<tr><td>Peak</td><td>1MHz</td><td>10Hz</td><td>Average</td></tr>
</table>
</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><th>Frequency</th><th>Limit (uV/m)</th><th>Value</th><th>Measurement Distance</th></tr>
<tr><td>0.009MHz-0.490MHz</td><td>2400/F(KHz)</td><td>QP</td><td>300m</td></tr>
<tr><td>0.490MHz-1.705MHz</td><td>24000/F(KHz)</td><td>QP</td><td>300m</td></tr>
<tr><td>1.705MHz-30MHz</td><td>30</td><td>QP</td><td>30m</td></tr>
<tr><td>30MHz-88MHz</td><td>100</td><td>QP</td><td rowspan="7">3m</td></tr>
<tr><td>88MHz-216MHz</td><td>150</td><td>QP</td></tr>
<tr><td>216MHz-960MHz</td><td>200</td><td>QP</td></tr>
<tr><td>960MHz-1GHz</td><td>500</td><td>QP</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>500</td><td>Average</td></tr>
<tr><td>5000</td><td>Peak</td></tr>
</table>
</td></tr>
<tr><td>Test setup:</td><td>For radiated emissions from 9kHz to 30MHz
 

For radiated emissions from 30MHz to1GHz</td></tr>
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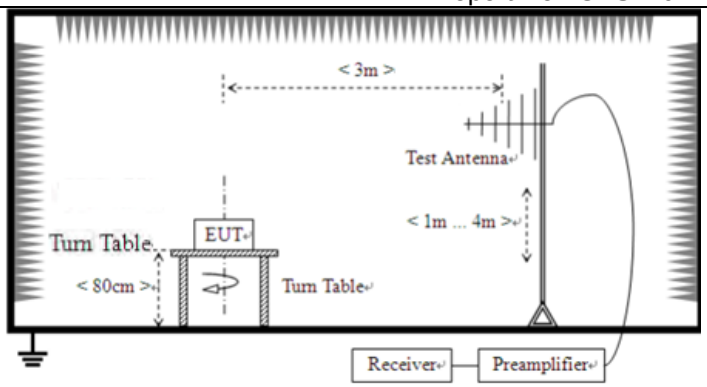
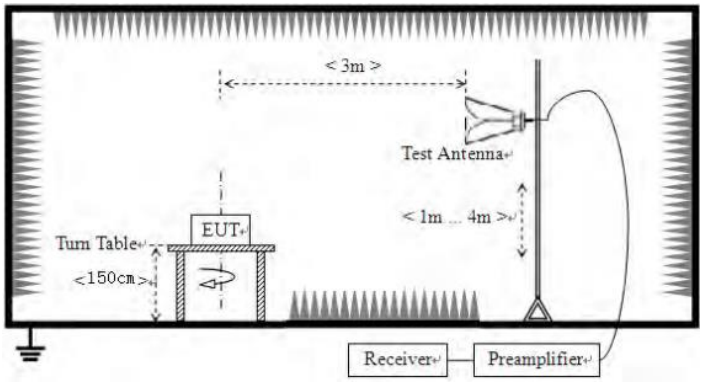
<table>
<tr><td></td><td> 

For radiated emissions above 1GHz

</td></tr>
<tr><td>Test Procedure:</td><td>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.
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.</td></tr>
<tr><td>Test Instruments:</td><td>Refer to section 6.0 for details</td></tr>
</table>

Test mode:	Refer to section 5.2 for details					
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:

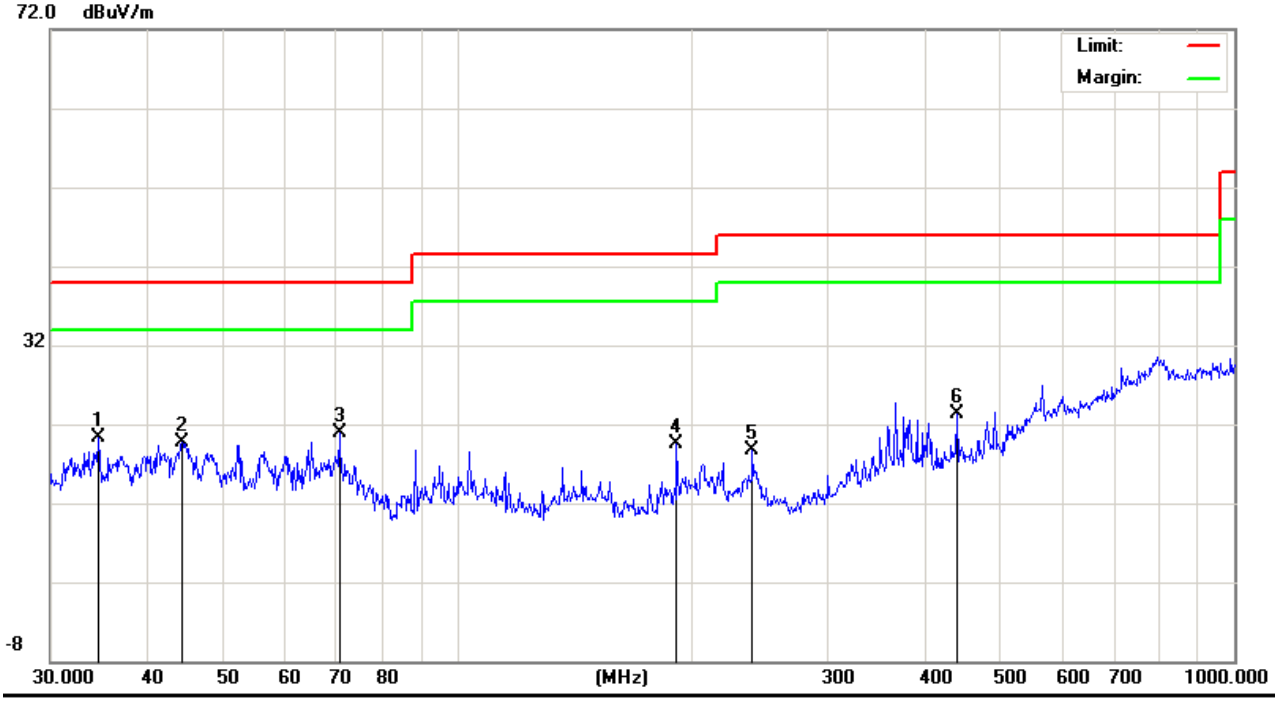
■ **9kHz~30MHz**

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**

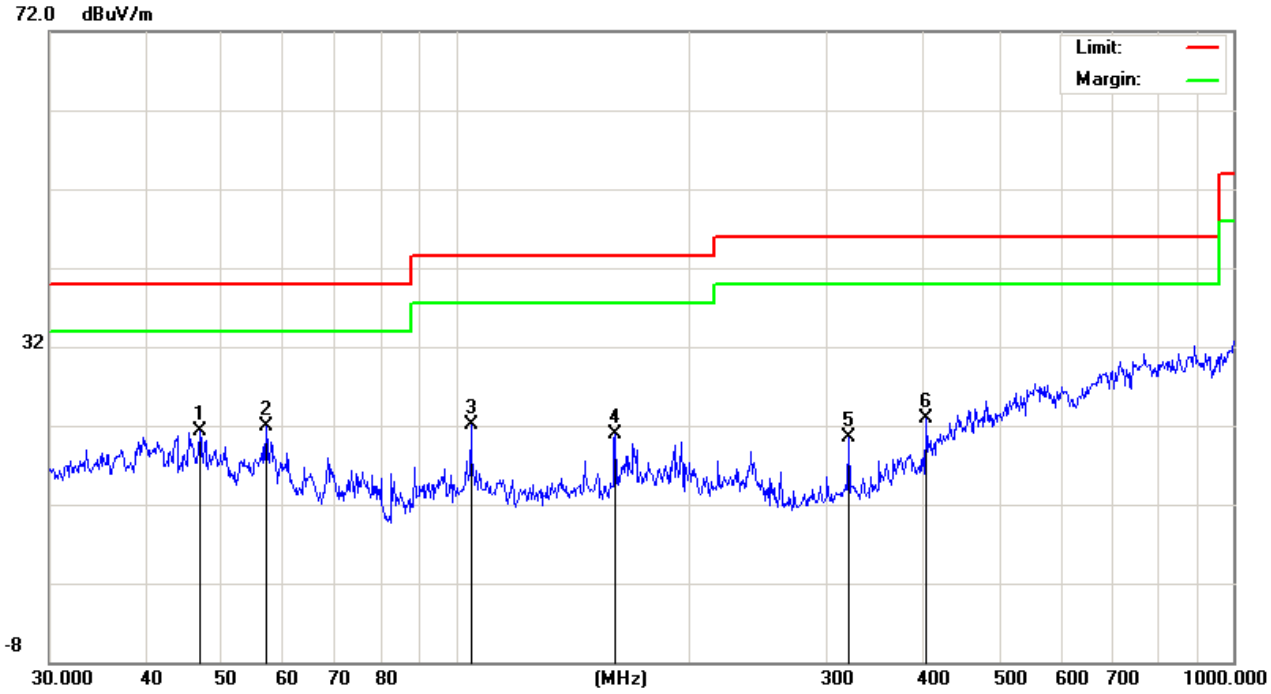
Pre-scan all test modes, found worst case at 802.11b 2462MHz, and so only show the test result of 802.11b 2462MHz

Horizontal:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		34.6385	25.15	-4.85	20.30	40.00	-19.70	peak
2		44.2751	24.28	-4.49	19.79	40.00	-20.21	peak
3	*	70.5836	31.42	-10.43	20.99	40.00	-19.01	peak
4		191.7450	27.31	-7.81	19.50	43.50	-24.00	peak
5		239.9874	25.19	-6.52	18.67	46.00	-27.33	peak
6		440.1963	26.71	-3.38	23.33	46.00	-22.67	peak

Vertical:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		46.8303	23.95	-2.65	21.30	40.00	-18.70	peak
2	*	56.9911	26.83	-4.83	22.00	40.00	-18.00	peak
3		104.5361	29.40	-7.28	22.12	43.50	-21.38	peak
4		160.3454	27.61	-6.61	21.00	43.50	-22.50	peak
5		319.9370	28.27	-7.74	20.53	46.00	-25.47	peak
6		403.2500	25.49	-2.59	22.90	46.00	-23.10	peak

■ **Above 1GHz**

Test mode:	802.11b	Test channel:	Lowest

H

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824.000	43.85	5.08	48.93	74.00	-25.07	PEAK
4824.000	30.78	5.08	35.86	54.00	-18.14	AVG
7326.000	41.43	7.55	48.98	74.00	-25.02	PEAK
7326.000	28.35	7.55	35.90	54.00	-18.10	AVG

V

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824.000	45.27	5.08	50.35	74.00	-23.65	PEAK
4824.000	31.29	5.08	36.37	54.00	-17.63	AVG
7236.000	43.48	7.55	51.03	74.00	-22.97	PEAK
7236.000	31.06	7.55	38.61	54.00	-15.39	AVG

Test mode:	802.11b	Test channel:	Middle

H

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4874.000	45.55	5.13	50.68	74.00	-23.32	PEAK
4874.000	31.04	5.13	36.17	54.00	-17.83	AVG
7311.000	40.35	7.49	47.84	74.00	-26.16	PEAK
7311.000	27.77	7.49	35.26	54.00	-18.74	AVG

V

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4874.000	43.88	5.13	49.01	74.00	-24.99	PEAK
4874.000	29.95	5.13	35.08	54.00	-18.92	AVG
7311.000	41.19	7.49	48.68	74.00	-25.32	PEAK
7311.000	28.57	7.49	36.06	54.00	-17.94	AVG

Test mode:	802.11b	Test channel:	Highest

H

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4924.000	43.61	5.18	48.79	74.00	-25.21	PEAK
4924.000	30.70	5.18	35.88	54.00	-18.12	AVG
7386.000	40.08	7.82	47.90	74.00	-26.10	PEAK
7386.000	28.54	7.82	36.36	54.00	-17.64	AVG

V

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4924.000	44.69	5.18	49.87	74.00	-24.13	PEAK
4924.000	30.66	5.18	35.84	54.00	-18.16	AVG
7386.000	42.19	7.82	50.01	74.00	-23.99	PEAK
7386.000	27.23	7.82	35.05	54.00	-18.95	AVG

Test mode:	802.11g	Test channel:	lowest

H

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4824.000	43.59	5.08	48.67	74.00	-25.33	PEAK
4824.000	31.03	5.08	36.11	54.00	-17.89	AVG
7326.000	41.82	7.55	49.37	74.00	-24.63	PEAK
7326.000	28.49	7.55	36.04	54.00	-17.96	AVG

V

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4824.000	43.99	5.08	49.07	74.00	-24.93	PEAK
4824.000	30.94	5.08	36.02	54.00	-17.98	AVG
7236.000	40.69	7.55	48.24	74.00	-25.76	PEAK
7236.000	26.66	7.55	34.21	54.00	-19.79	AVG

Test mode:	802.11g	Test channel:	Middle

H

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.000	43.70	5.13	48.83	74.00	-25.17	PEAK
4874.000	29.62	5.13	34.75	54.00	-19.25	AVG
7311.000	40.18	7.49	47.67	74.00	-26.33	PEAK
7311.000	27.38	7.49	34.87	54.00	-19.13	AVG

V

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.000	42.41	5.13	47.54	74.00	-26.46	PEAK
4874.000	30.05	5.13	35.18	54.00	-18.82	AVG
7311.000	41.34	7.49	48.83	74.00	-25.17	PEAK
7311.000	26.78	7.49	34.27	54.00	-19.73	AVG

Test mode:	802.11g	Test channel:	Highest

H

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(Db)	(dBµV/m)	(dBµV/m)	(Db)	
4924.000	42.16	5.18	47.34	74.00	-26.66	PEAK
4924.000	30.01	5.18	35.19	54.00	-18.81	AVG
7386.000	40.59	7.82	48.41	74.00	-25.59	PEAK
7386.000	27.47	7.82	35.29	54.00	-18.71	AVG

V

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4924.000	44.09	5.18	49.27	74.00	-24.73	PEAK
4924.000	29.83	5.18	35.01	54.00	-18.99	AVG
7386.000	40.45	7.82	48.27	74.00	-25.73	PEAK
7386.000	27.87	7.82	35.69	54.00	-18.31	AVG

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

H

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4824.000	43.95	5.08	49.03	74.00	-24.97	PEAK
4824.000	30.46	5.08	35.54	54.00	-18.46	AVG
7326.000	40.64	7.55	48.19	74.00	-25.81	PEAK
7326.000	26.34	7.55	33.89	54.00	-20.11	AVG

V

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4824.000	43.71	5.08	48.79	74.00	-25.21	PEAK
4824.000	29.65	5.08	34.73	54.00	-19.27	AVG
7236.000	39.80	7.55	47.35	74.00	-26.65	PEAK
7236.000	27.87	7.55	35.42	54.00	-18.58	AVG

Test mode:	802.11n(HT20)	Test channel:	Middle

H

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.000	42.97	5.13	48.10	74.00	-25.90	PEAK
4874.000	29.68	5.13	34.81	54.00	-19.19	AVG
7311.000	39.45	7.49	46.94	74.00	-27.06	PEAK
7311.000	28.08	7.49	35.57	54.00	-18.43	AVG

V

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.000	43.14	5.13	48.27	74.00	-25.73	PEAK
4874.000	29.50	5.13	34.63	54.00	-19.37	AVG
7311.000	40.74	7.49	48.23	74.00	-25.77	PEAK
7311.000	27.76	7.49	35.25	54.00	-18.75	AVG

Test mode:	802.11n(HT20)	Test channel:	Highest

H

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.000	43.47	5.18	48.65	74.00	-25.35	PEAK
4924.000	30.74	5.18	35.92	54.00	-18.08	AVG
7386.000	40.87	7.82	48.69	74.00	-25.31	PEAK
7386.000	27.92	7.82	35.74	54.00	-18.26	AVG

V

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.000	43.52	5.18	48.70	74.00	-25.30	PEAK
4924.000	30.76	5.18	35.94	54.00	-18.06	AVG
7386.000	39.74	7.82	47.56	74.00	-26.44	PEAK
7386.000	28.09	7.82	35.91	54.00	-18.09	AVG

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

H

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4844.000	44.06	5.11	49.17	74.00	-24.83	PEAK
4844.000	30.41	5.11	35.52	54.00	-18.48	AVG
7266.000	40.26	7.29	47.55	74.00	-26.45	PEAK
7266.000	27.92	7.29	35.21	54.00	-18.79	AVG

V

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4844.000	44.72	5.11	49.83	74.00	-24.17	PEAK
4844.000	29.86	5.11	34.97	54.00	-19.03	AVG
7266.000	40.72	7.29	48.01	74.00	-25.99	PEAK
7266.000	27.88	7.29	35.17	54.00	-18.83	AVG

Test mode:	802.11n(HT40)	Test channel:	Middle

H

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.000	43.17	5.13	48.30	74.00	-25.70	PEAK
4874.000	30.91	5.13	36.04	54.00	-17.96	AVG
7311.000	40.62	7.49	48.11	74.00	-25.89	PEAK
7311.000	27.44	7.49	34.93	54.00	-19.07	AVG

V

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.000	42.56	5.13	47.69	74.00	-26.31	PEAK
4874.000	30.27	5.13	35.40	54.00	-18.60	AVG
7311.000	41.21	7.49	48.70	74.00	-25.30	PEAK
7311.000	27.04	7.49	34.53	54.00	-19.47	AVG

Test mode:	802.11n(HT40)	Test channel:	Highest

H

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4904.000	43.71	5.16	48.87	74.00	-25.13	peak
4904.000	30.34	5.16	35.50	54.00	-18.50	AVG
7356.000	40.14	7.69	47.83	74.00	-26.17	peak
7356.000	27.42	7.69	35.11	54.00	-18.89	AVG

V

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4904.000	44.27	5.16	49.43	74.00	-24.57	peak
4904.000	30.89	5.16	36.05	54.00	-17.95	AVG
7356.000	40.13	7.69	47.82	74.00	-26.18	peak
7356.000	29.22	7.69	36.91	54.00	-17.09	AVG

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 emission levels of other frequencies are very lower than the limit and not show in test report.

8 Test Setup Photo

Reference to the **appendix I** for details.

9 EUT Constructional Details

Reference to the **appendix II** for details.

------End------