FCC REPORT
(WIFI)

Applicant:	GNJ Manufacturing Inc
Address of Applicant:	5811 West Hallandale Beach Blve. West Park, FL 33023

Equipment Under Test (EUT)

Product Name:	Fashion C
Model No.:	Fashion C
Trade mark:	Cellallure
FCC ID:	2AAE9CAPHG56
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247
Date of sample receipt:	16 Jan., 2019
Date of Test:	16 Jan., to 25 Jan., 2019
Date of report issued:	26 Jan., 2019
Test Result:	PASS*

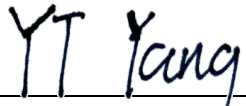
* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Bruce Zhang
Laboratory Manager

2 Version

Version No.	Date	Description
00	*26 Jan., 2019*	*Original*

Tested by:  ***Date:*** *26 Jan., 2019*

Test Engineer

Reviewed by:  ***Date:*** *26 Jan., 2019*

Project Engineer

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4 Test Summary

Test Items	Section in CFR 47	Result
Antenna requirement	15.203 & 15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247 (d)	Pass
Spurious Emission	15.205 & 15.209	Pass
Pass: The EUT complies with the essential requirements in the standard. *N/A: Not Applicable.*		

5 General Information

5.1 Client Information

Applicant:	GNJ Manufacturing Inc
Address:	5811 West Hallandale Beach Blve. West Park, FL 33023
Manufacturer:	Shenzhen Tugao Intelligent Co., Ltd.
Address:	8F, Building A, Jingang Technology Park, Bridgehead Community, Fuyong Street, Baoan District, Shenzhen, CHINA

5.2 General Description of E.U.T.

Product Name:	Fashion C
Model No.:	Fashion C
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(H20)) 2422MHz~2452MHz (802.11n(H40))
Channel numbers:	11 for 802.11b/802.11g/802.11(H20) 7 for 802.11n(H40)
Channel separation:	5MHz
Modulation technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps
Data speed (IEEE 802.11n):	Up to 150Mbps
Antenna Type:	Internal Antenna
Antenna gain:	1.2 dBi
Power supply:	Rechargeable Li-ion Battery DC3.85V-3150mAh
AC adapter:	Model: 853-5010 Input: AC100-240V, 50/60Hz, 0.15A Output: DC 5.0V, 1A
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

Operation Frequency each of channel for 802.11b/g/n(H20)							
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:
1. For 802.11n-HT40 mode, the channel number is from 3 to 9;
2. Channel 1, 6 & 11 selected for 802.11b/g/n-HT20 as Lowest, Middle and Highest channel. Channel 3, 6 & 9 selected for 802.11n-HT40 as Lowest, Middle and Highest channel, Channel.

5.3 Test environment and test mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Transmitting mode	Keep the EUT in continuous transmitting with modulation

The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.
We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate, the follow list were the worst case.

Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(H20)	6.5Mbps
802.11n(H40)	13.5Mbps

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±2.22 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±2.76 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.28 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.72 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±2.88 dB (k=2)

5.6 Laboratory Facility

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

- **FCC - Registration No.: 727551**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The Registration No. is 727551.

- **IC - Registration No.: 10106A-1**

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **CNAS - Registration No.: CNAS L6048**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

5.7 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,
Bao'an District, Shenzhen, Guangdong, China
Tel: +86-755-23118282, Fax: +86-755-23116366
Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

5.8 Test Instruments list

Radiated Emission:

Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-16-2018	03-15-2019
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-16-2018	03-15-2019
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-16-2018	03-15-2019
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2017	06-21-2020
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-21-2018	11-20-2019
EMI Test Software	AUDIX	E3	Version: 6.110919b		
Pre-amplifier	HP	8447D	2944A09358	03-07-2018	03-06-2019
Pre-amplifier	CD	PAP-1G18	11804	03-07-2018	03-06-2019
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-07-2018	03-06-2019
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-21-2018	11-20-2019
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-07-2018	03-06-2019
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2018	03-06-2019
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2018	03-06-2019
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2018	03-06-2019
RF Switch Unit	MWRFTEST	MW200	N/A	N/A	N/A
Test Software	MWRFTEST	MTS8200	Version: 2.0.0.0		

Conducted Emission:

Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-07-2018	03-06-2019
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-07-2018	03-06-2019
LISN	CHASE	MN2050D	1447	03-19-2018	03-18-2019
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2018	07-20-2019
Cable	HP	10503A	N/A	03-07-2018	03-06-2019
EMI Test Software	AUDIX	E3	Version: 6.110919b		

6 Test results and Measurement Data

6.1 Antenna requirement

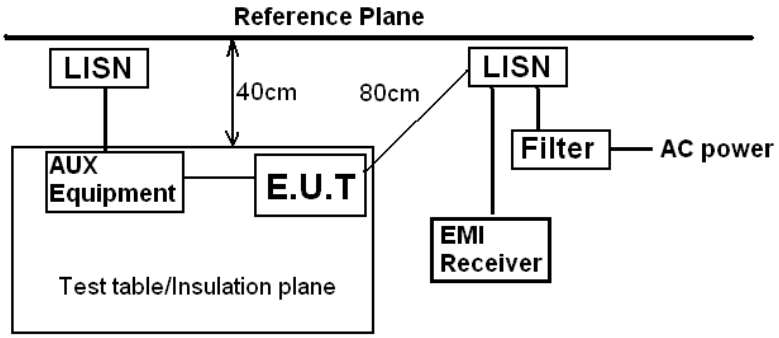
Standard requirement:	FCC Part 15 C Section 15.203 /247(b)

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(b) (4) requirement:
(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

E.U.T Antenna:	

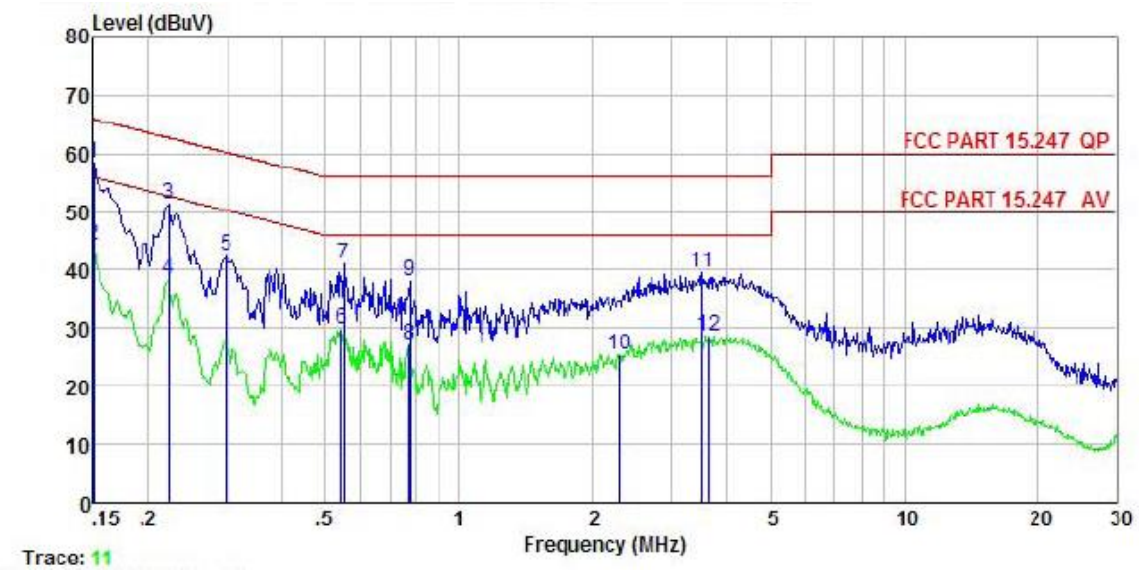
The WiFi antenna is an Inernal antenna which cannot replace by end-user, the best case gain of the antenna is 1.2 dBi.

6.2 Conducted Emission

Test Requirement:	FCC Part 15 C Section 15.207		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150 kHz to 30 MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9 kHz, VBW=30 kHz		
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 procedure	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which 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 C63.4: 2014 on conducted measurement.		
Test setup:	 *Remark:* *E.U.T: Equipment Under Test* *LISN: Line Impedence Stabilization Network* *Test table height=0.8m*		
Test Instruments:	Refer to section 5.8 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Passed		

Measurement Data:

Product name:	Fashion C	Product model:	Fashion C
Test by:	YT	Test mode:	Wi-Fi Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%

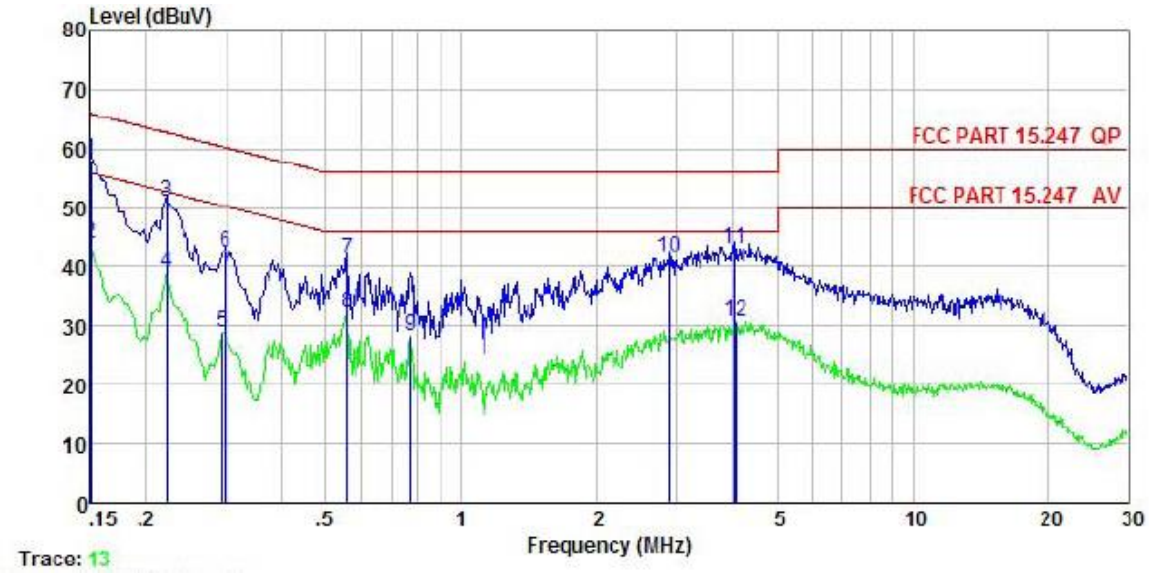


	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.150	47.63	0.18	10.78	58.59	66.00	-7.41	QP
2	0.150	33.35	0.18	10.78	44.31	56.00	-11.69	Average
3	0.222	40.51	0.14	10.76	51.41	62.74	-11.33	QP
4	0.222	27.37	0.14	10.76	38.27	52.74	-14.47	Average
5	0.299	31.69	0.13	10.74	42.56	60.28	-17.72	QP
6	0.541	18.86	0.12	10.76	29.74	46.00	-16.26	Average
7	0.549	30.04	0.12	10.76	40.92	56.00	-15.08	QP
8	0.771	16.27	0.13	10.80	27.20	46.00	-18.80	Average
9	0.775	27.04	0.13	10.80	37.97	56.00	-18.03	QP
10	2.297	14.42	0.15	10.95	25.52	46.00	-20.48	Average
11	3.528	28.56	0.17	10.90	39.63	56.00	-16.37	QP
12	3.681	17.63	0.17	10.90	28.70	46.00	-17.30	Average

Notes:

1. *An initial pre-scan was performed on the line and neutral lines with peak detector.*
2. *Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.*
3. *Final Level =Receiver Read level + LISN Factor + Cable Loss.*

Product name:	Fashion C	Product model:	Fashion C
Test by:	YT	Test mode:	Wi-Fi Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%

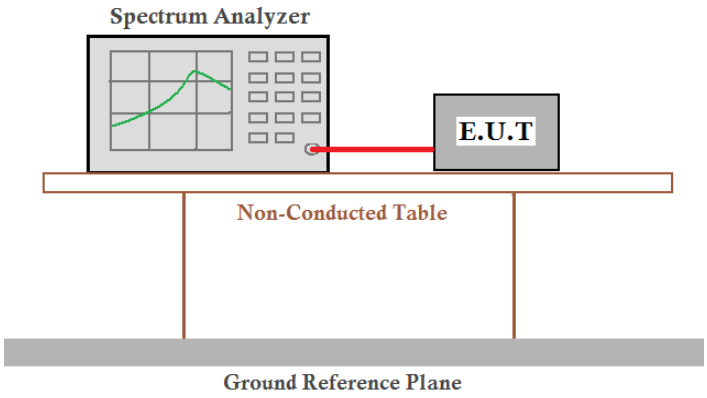


	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.150	46.42	0.99	10.78	58.19	66.00	-7.81	QP
2	0.150	32.20	0.99	10.78	43.97	56.00	-12.03	Average
3	0.222	39.24	0.93	10.76	50.93	62.74	-11.81	QP
4	0.222	27.42	0.93	10.76	39.11	52.74	-13.63	Average
5	0.294	17.30	0.97	10.74	29.01	50.41	-21.40	Average
6	0.299	30.74	0.97	10.74	42.45	60.28	-17.83	QP
7	0.555	29.61	0.97	10.76	41.34	56.00	-14.66	QP
8	0.555	20.34	0.97	10.76	32.07	46.00	-13.93	Average
9	0.771	16.57	0.97	10.80	28.34	46.00	-17.66	Average
10	2.900	29.59	0.99	10.92	41.50	56.00	-14.50	QP
11	4.006	31.25	1.00	10.89	43.14	56.00	-12.86	QP
12	4.070	18.71	1.00	10.89	30.60	46.00	-15.40	Average

Notes:

1. *An initial pre-scan was performed on the line and neutral lines with peak detector.*
2. *Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.*
3. *Final Level =Receiver Read level + LISN Factor + Cable Loss.*

6.3 Conducted Output Power

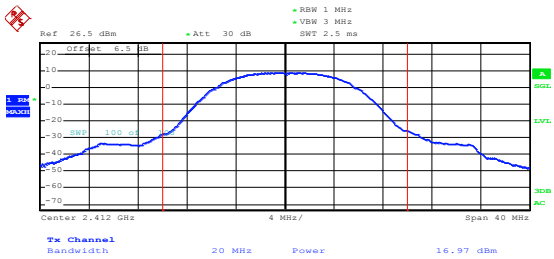
Test Requirement:	FCC Part 15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.10:2013 and KDB 558074
Limit:	30dBm
Test setup:	
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data:

Test CH	Maximum Conducted Output Power (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	16.97	14.42	14.32	15.78	30.00	Pass
Middle	16.99	16.28	16.23	15.68		
Highest	16.89	16.05	16.03	15.77		

Test plot as follows:

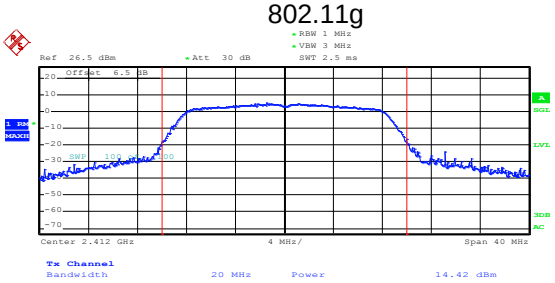
802.11b



Date: 17.JAN.2019 09:15:53

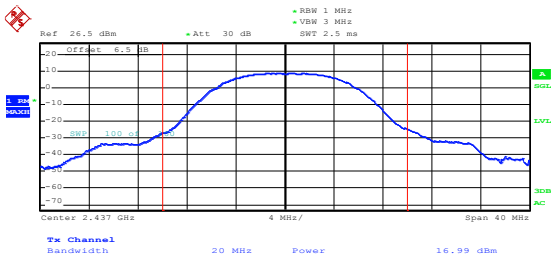
Lowest channel

802.11g



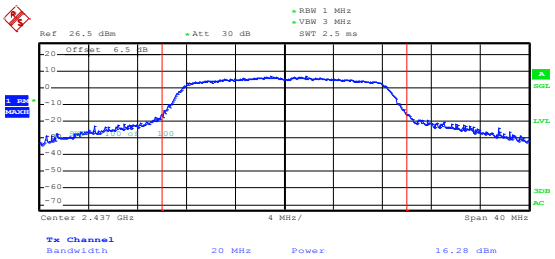
Date: 17.JAN.2019 09:16:46

Lowest channel



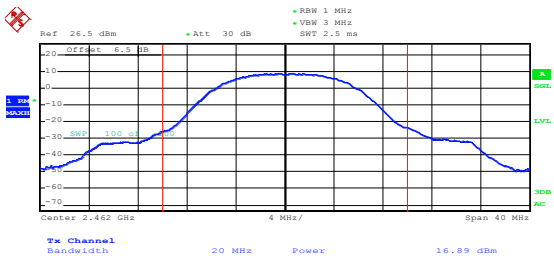
Date: 17.JAN.2019 09:16:10

Middle channel



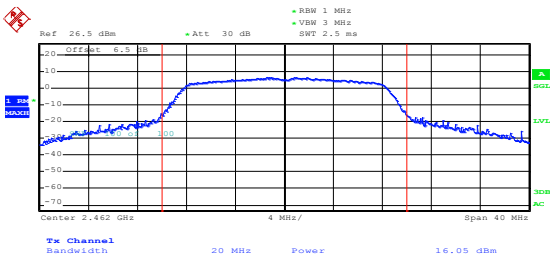
Date: 17.JAN.2019 09:17:00

Middle channel



Date: 17.JAN.2019 09:16:23

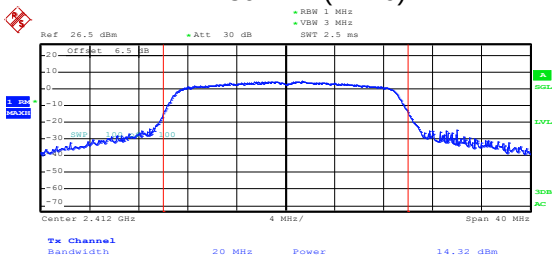
Highest channel



Date: 17.JAN.2019 09:17:22

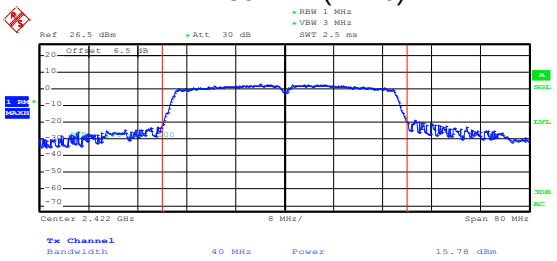
Highest channel

802.11n(HT20)



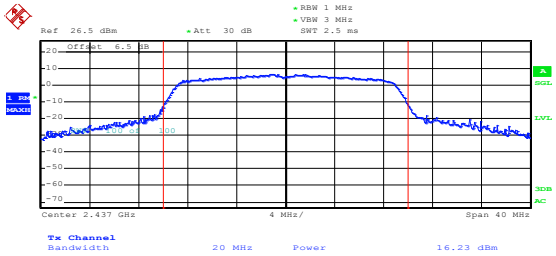
Date: 17.JAN.2019 09:18:14

802.11n(HT40)



Date: 17.JAN.2019 09:18:46

Lowest channel



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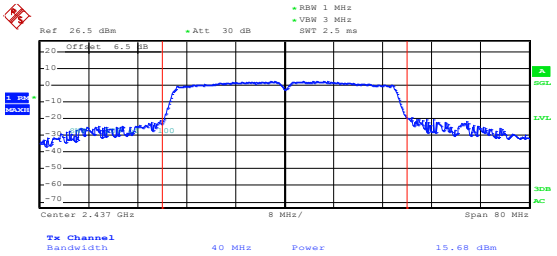
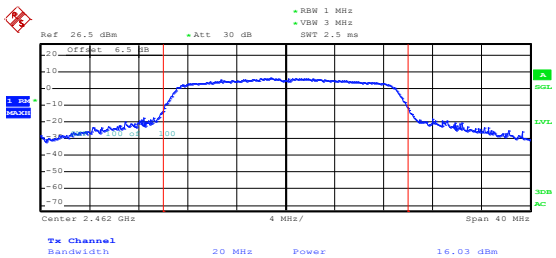
Lowest channel



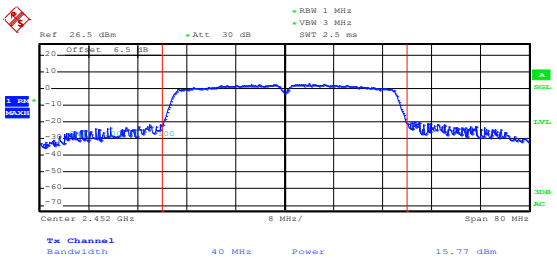
Date: 17.JAN.2019 09:19:01

Middle channel



Date: 17.JAN.2019 09:17:46

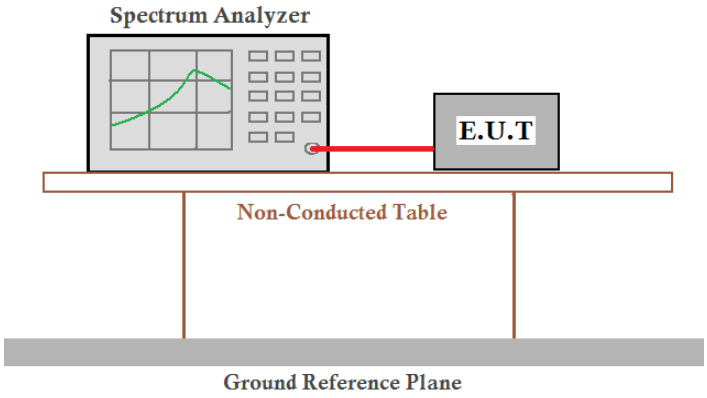
Middle channel



Date: 17.JAN.2019 09:19:14

Highest channel

6.4 Occupy Bandwidth

Test Requirement:	FCC Part 15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.10:2013 and KDB 558074
Limit:	>500kHz
Test setup:	
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

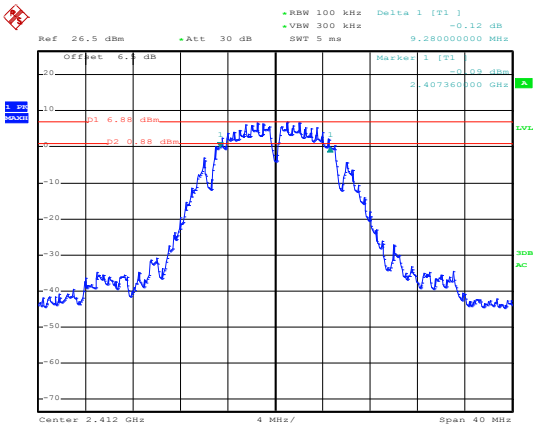
Measurement Data:

Test CH	6dB Emission Bandwidth (MHz)				Limit(kHz)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	9.28	15.28	16.24	35.36	>500	Pass
Middle	10.24	15.28	16.64	35.52		
Highest	10.08	15.28	16.48	35.52		
Test CH	99% Occupy Bandwidth (MHz)				Limit(kHz)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	12.56	16.48	17.60	36.00	N/A	N/A
Middle	12.64	16.48	17.60	36.00		
Highest	12.64	16.48	17.60	36.00		

Test plot as follows:

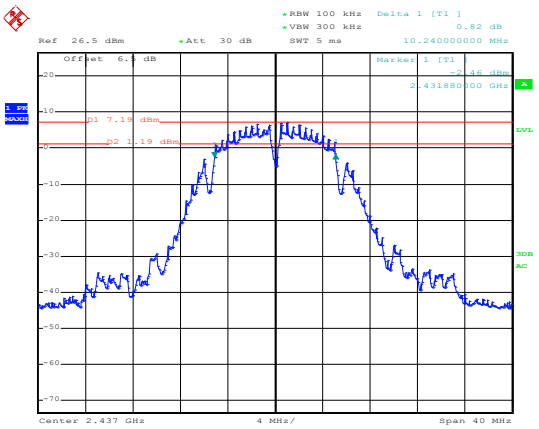
802.11b

6dB EBW



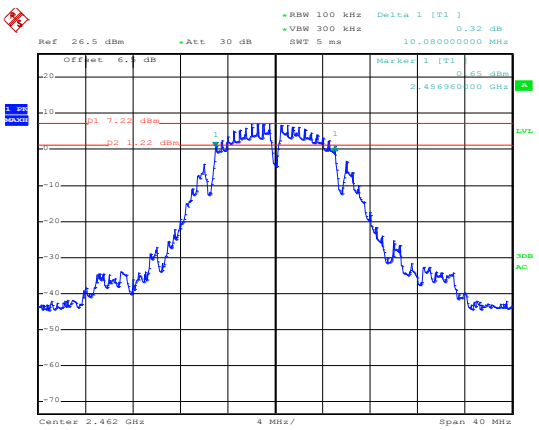
Date: 17.JAN.2019 09:24:12

Lowest channel



Date: 17.JAN.2019 09:25:15

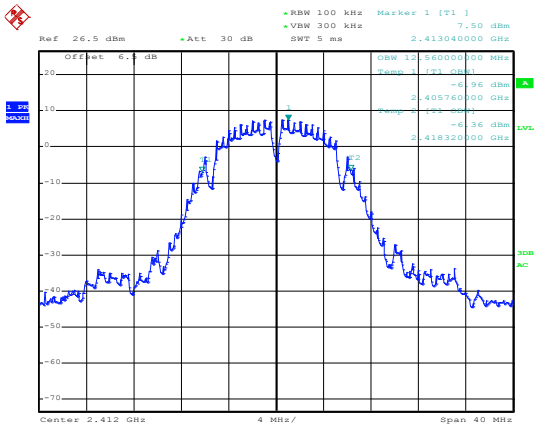
Middle channel



Date: 17.JAN.2019 09:26:02

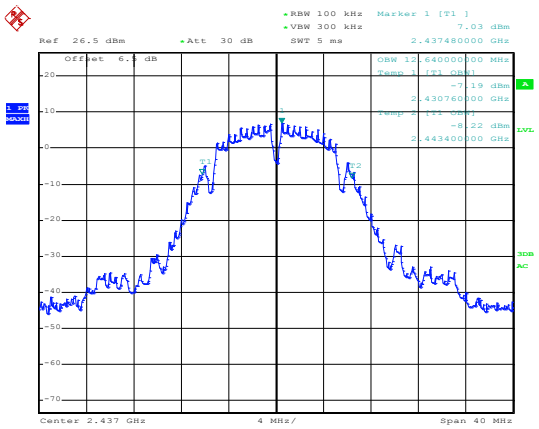
Highest channel

99% OBW



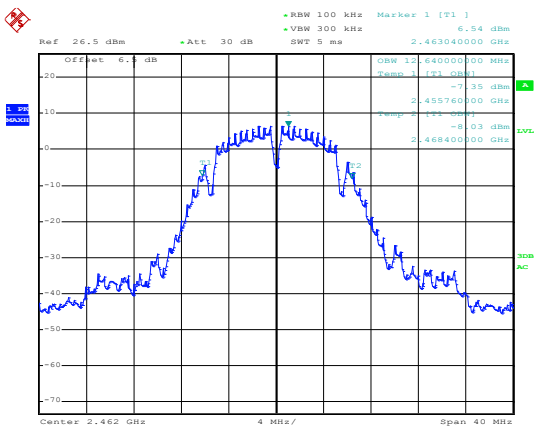
Date: 17.JAN.2019 09:23:24

Lowest channel



Date: 17.JAN.2019 09:22:49

Middle channel

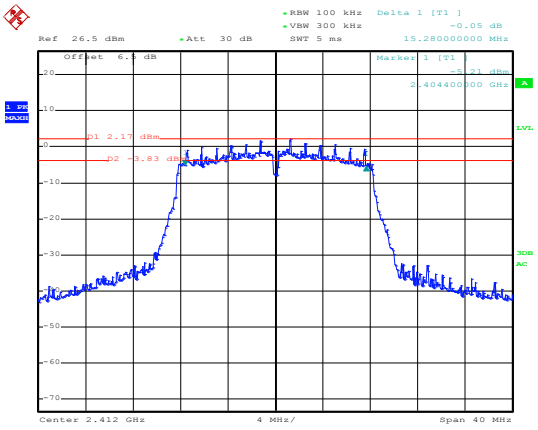


Date: 17.JAN.2019 09:22:36

Highest channel

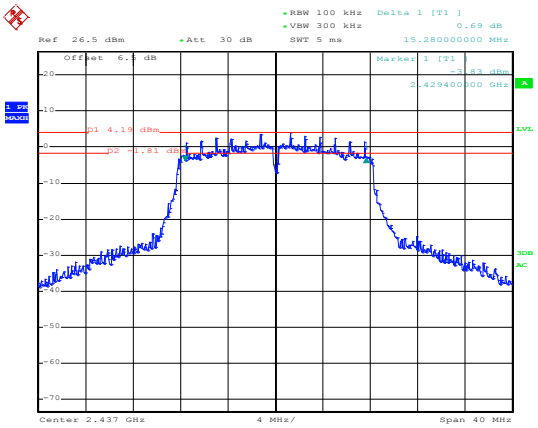
802.11g

6dB EBW



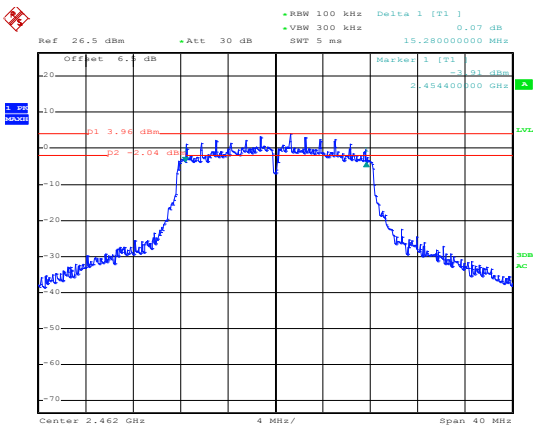
Date: 17.JAN.2019 09:28:18

Lowest channel



Date: 17.JAN.2019 09:27:30

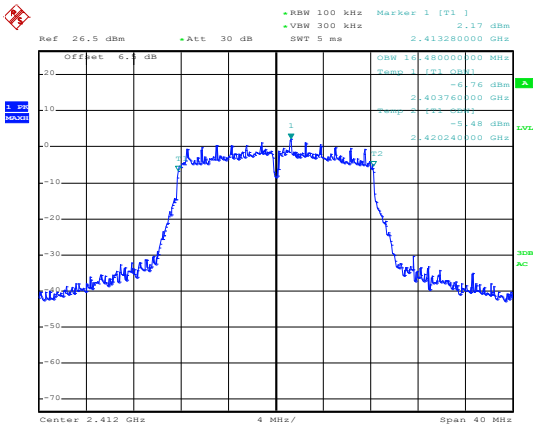
Middle channel



Date: 17.JAN.2019 09:26:45

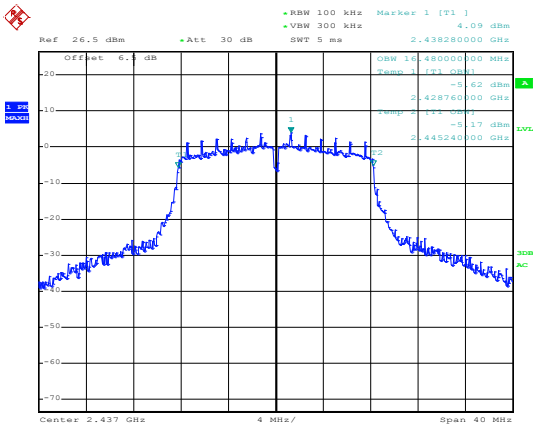
Highest channel

99% OBW



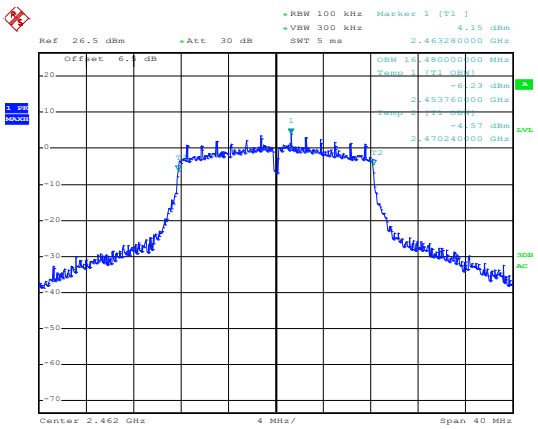
Date: 17.JAN.2019 09:21:43

Lowest channel



Date: 17.JAN.2019 09:21:58

Middle channel

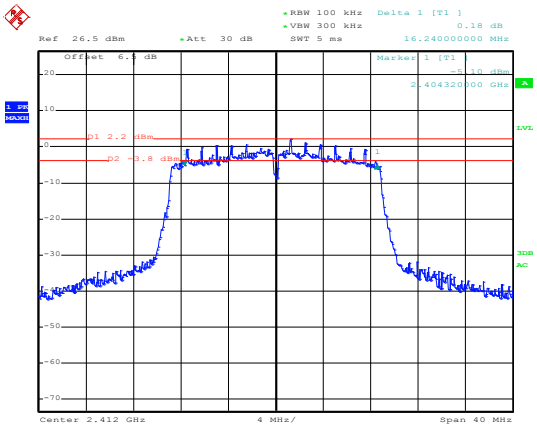


Date: 17.JAN.2019 09:22:16

Highest channel

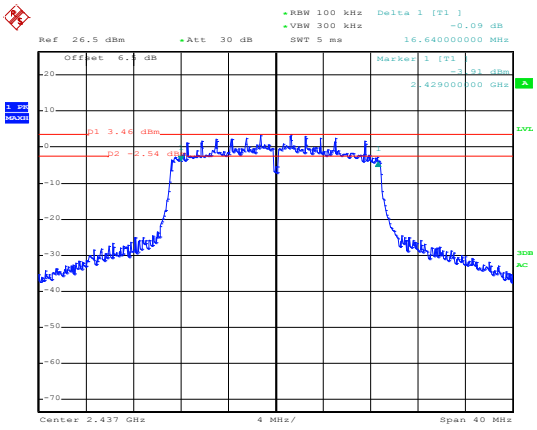
802.11n(H20)

6dB EBW



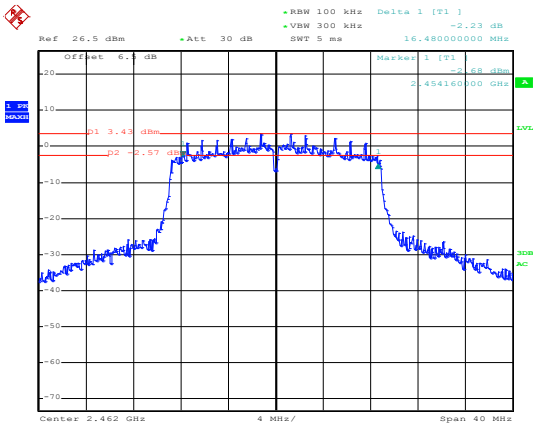
Date: 17.JAN.2019 09:34:27

Lowest channel



Date: 17.JAN.2019 09:33:29

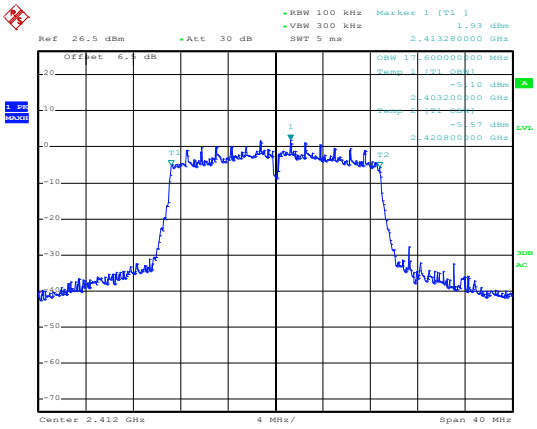
Middle channel



Date: 17.JAN.2019 09:32:38

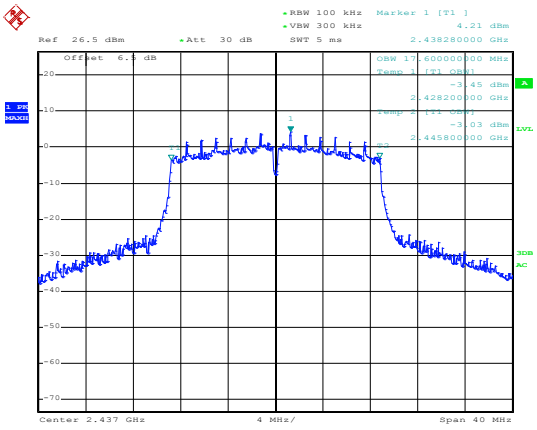
Highest channel

99% OBW



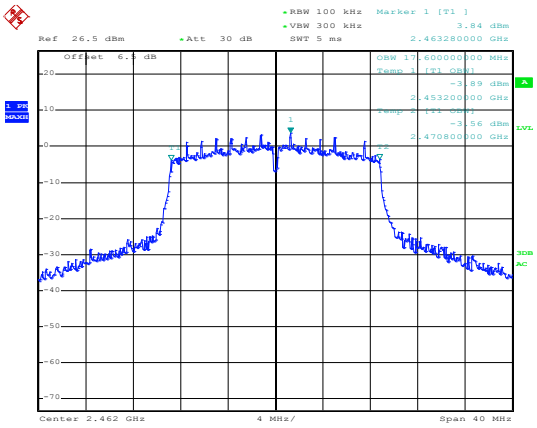
Date: 17.JAN.2019 09:20:45

Lowest channel



Date: 17.JAN.2019 09:21:01

Middle channel

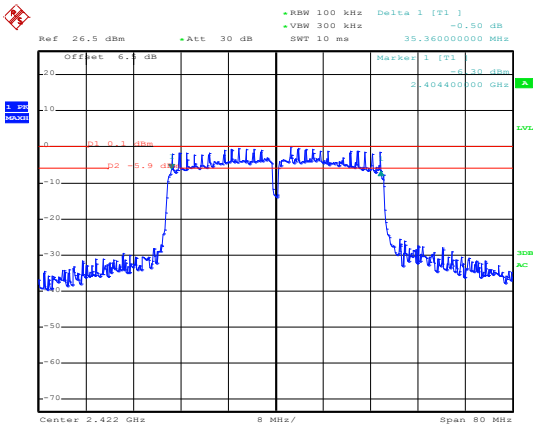


Date: 17.JAN.2019 09:21:21

Highest channel

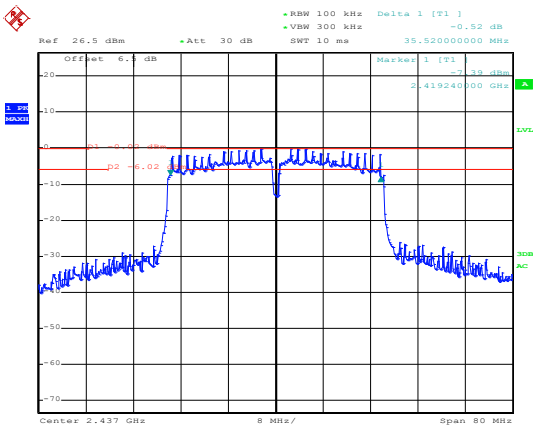
802.11n(H40)

6dB EBW



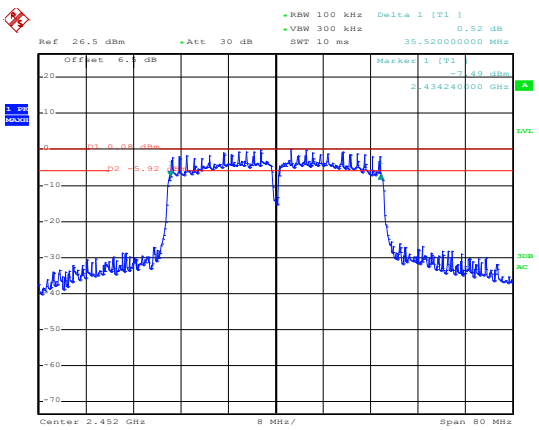
Date: 17.JAN.2019 09:29:41

Lowest channel



Date: 17.JAN.2019 09:30:34

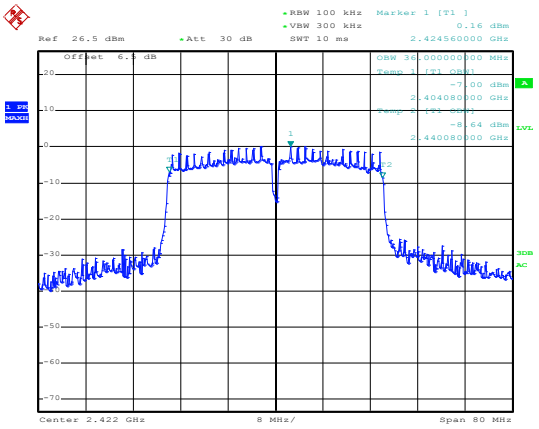
Middle channel



Date: 17.JAN.2019 09:31:16

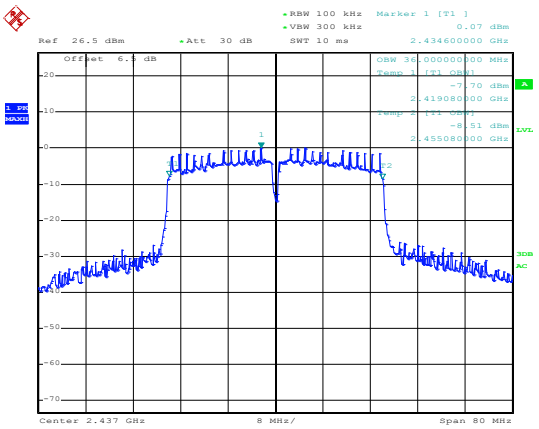
Highest channel

99% OBW



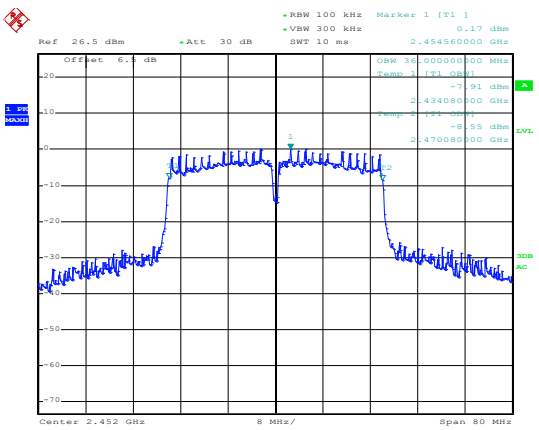
Date: 17.JAN.2019 09:20:26

Lowest channel



Date: 17.JAN.2019 09:20:12

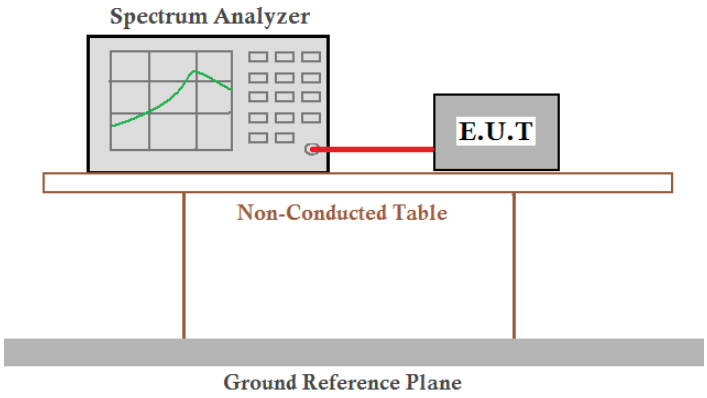
Middle channel



Date: 17.JAN.2019 09:19:55

Highest channel

6.5 Power Spectral Density

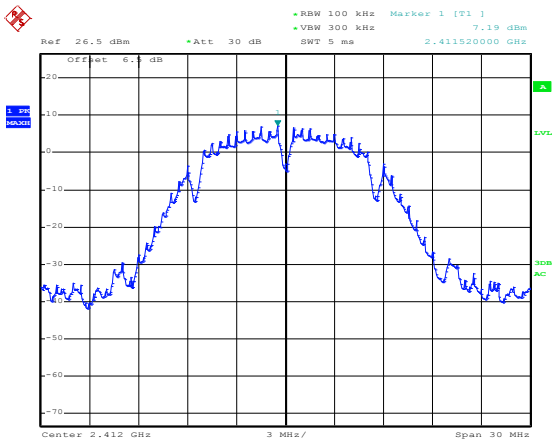
Test Requirement:	FCC Part 15 C Section 15.247 (e)
Test Method:	ANSI C63.10:2013 and KDB 558074
Limit:	8dBm
Test setup:	
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data:

Test CH	Power Spectral Density (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	7.19	2.09	2.18	0.02	8.00	Pass
Middle	7.17	4.09	4.04	-0.13		
Highest	6.96	3.24	3.93	0.06		

Test plot as follows:

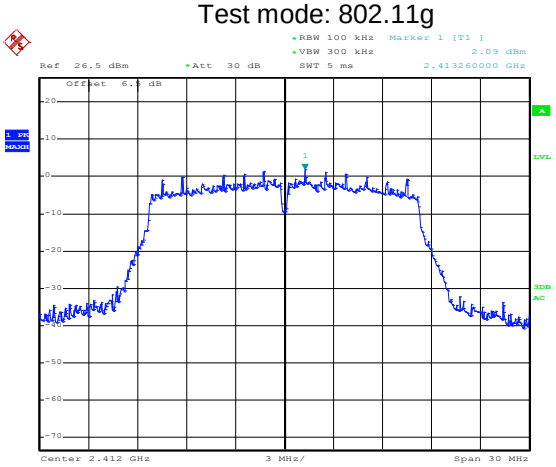
Test mode: 802.11b



Date: 17.JAN.2019 09:39:29

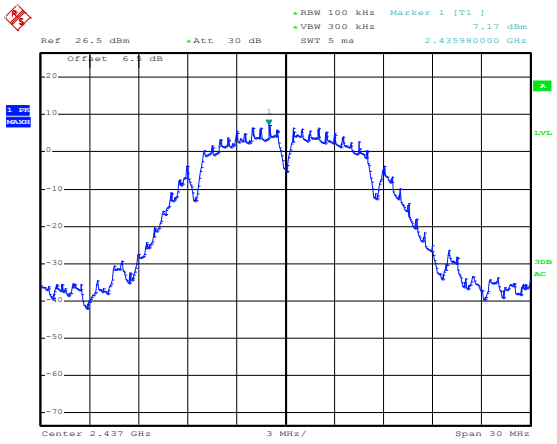
Lowest channel

Test mode: 802.11g



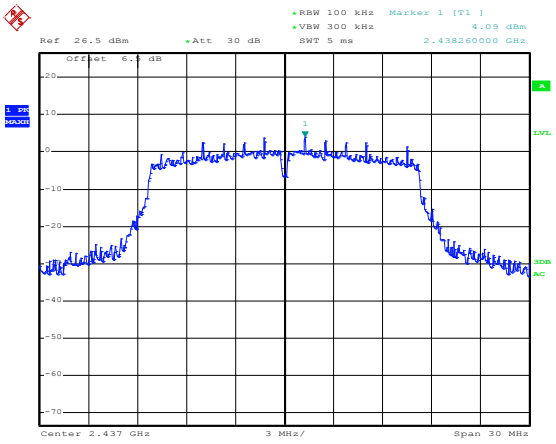
Date: 17.JAN.2019 09:40:39

Lowest channel



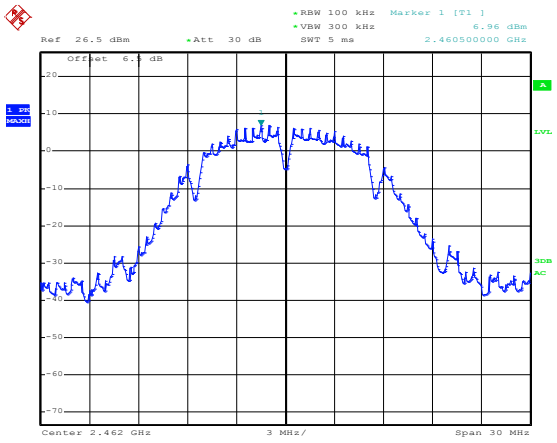
Date: 17.JAN.2019 09:39:52

Middle channel



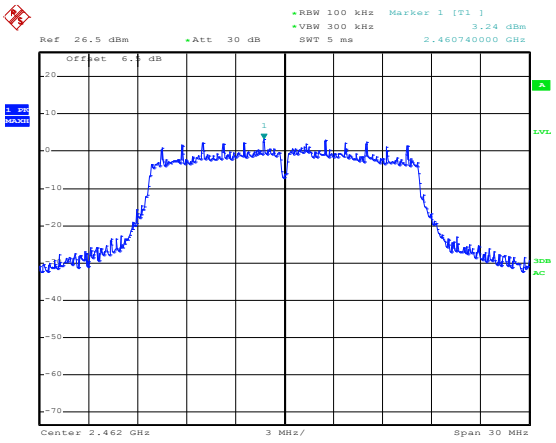
Date: 17.JAN.2019 09:40:58

Middle channel



Date: 17.JAN.2019 09:40:11

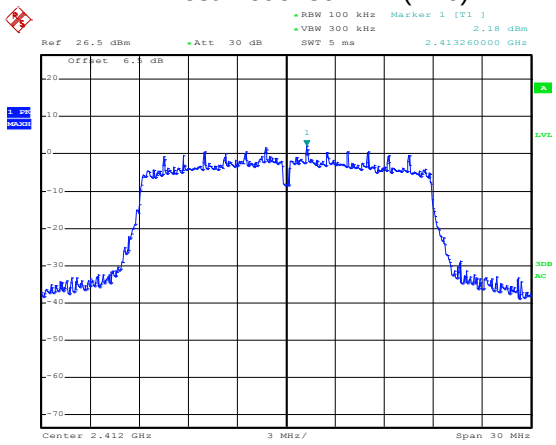
Highest channel



Date: 17.JAN.2019 09:41:18

Highest channel

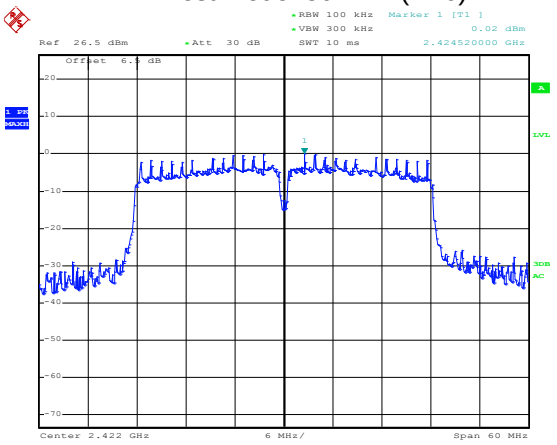
Test mode: 802.11n(H20)



Date: 17.JAN.2019 09:36:08

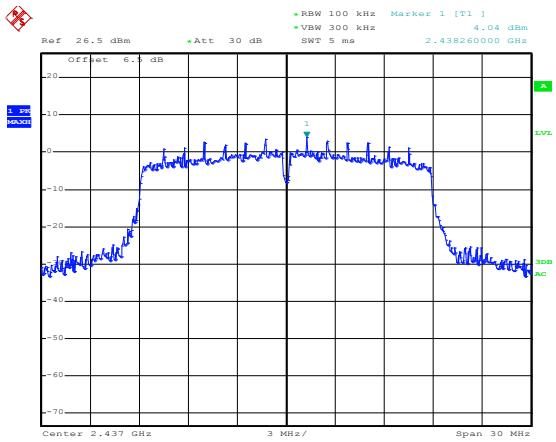
Lowest channel

Test mode: 802.11n(H40)



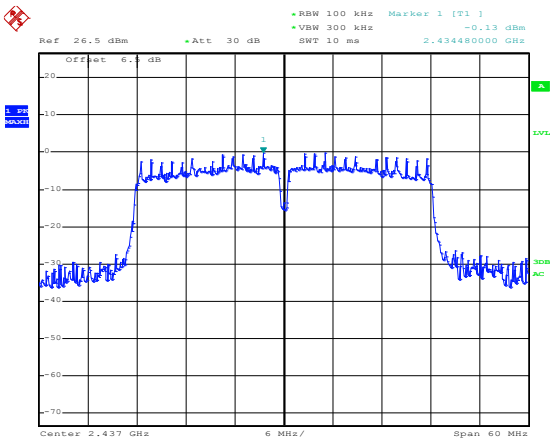
Date: 17.JAN.2019 09:37:40

Lowest channel



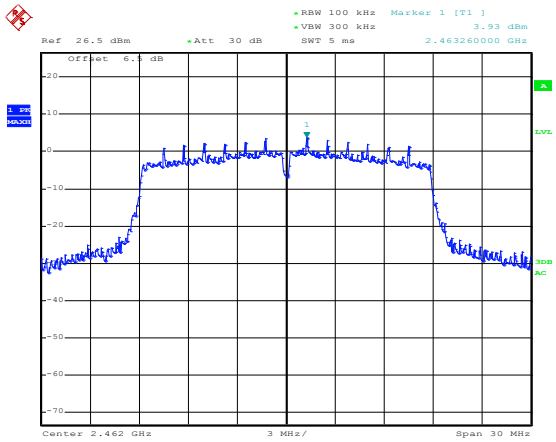
Date: 17.JAN.2019 09:36:27

Middle channel



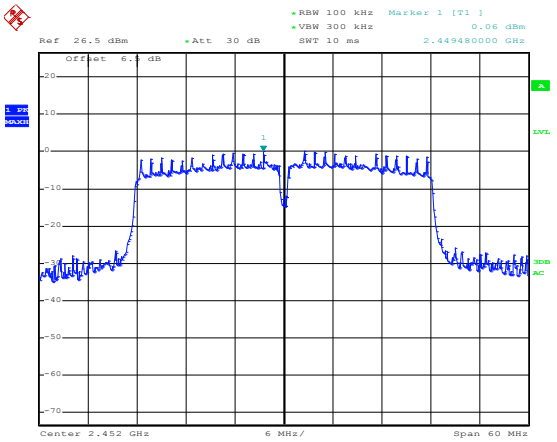
Date: 17.JAN.2019 09:38:02

Middle channel



Date: 17.JAN.2019 09:36:51

Highest channel

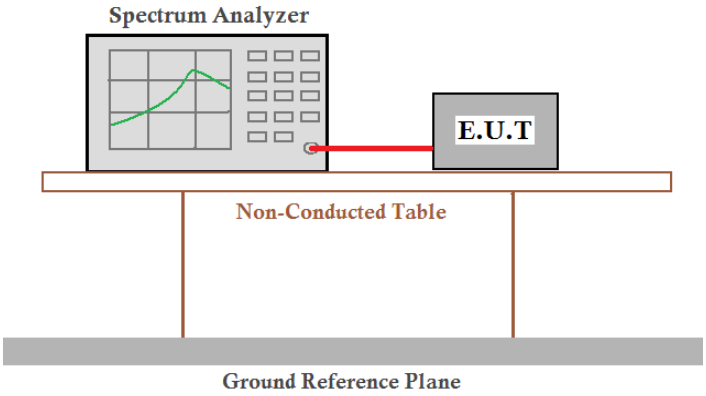


Date: 17.JAN.2019 09:38:56

Highest channel

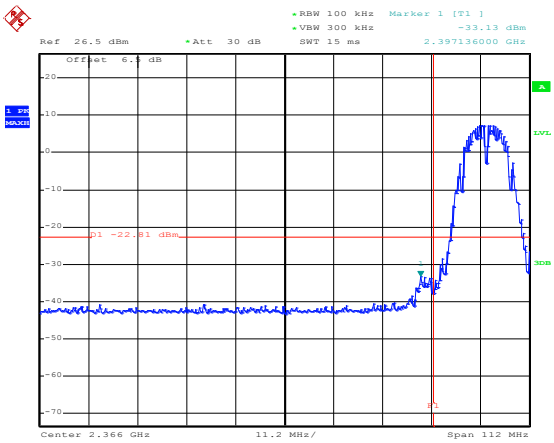
6.6 Band Edge

6.6.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB 558074
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 30 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 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

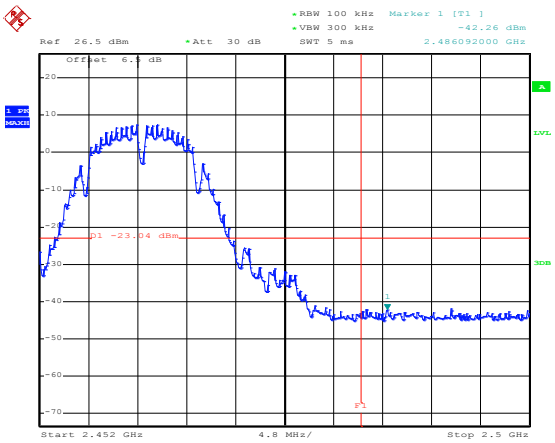
Test plot as follows:

802.11b



Date: 17.JAN.2019 22:03:14

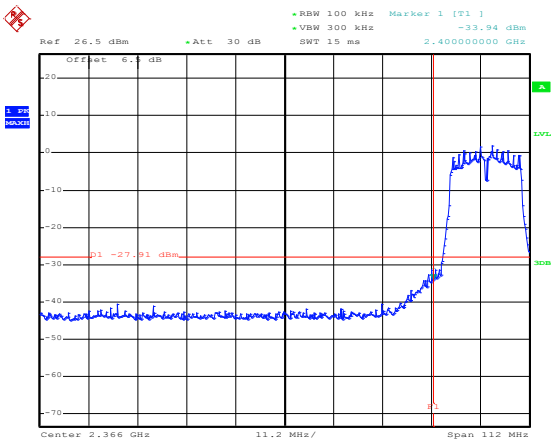
Lowest channel



Date: 17.JAN.2019 22:08:20

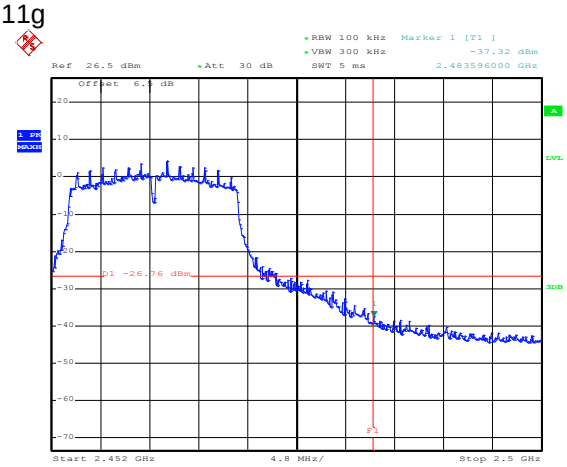
Highest channel

802.11g



Date: 17.JAN.2019 22:03:43

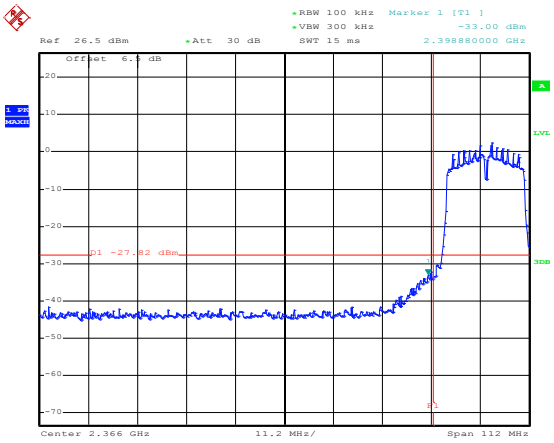
Lowest channel



Date: 17.JAN.2019 22:07:49

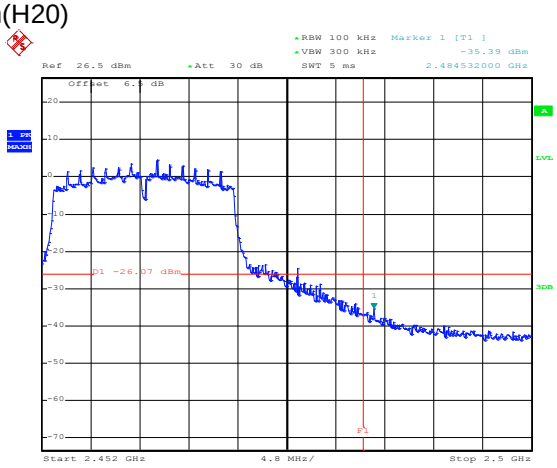
Highest channel

802.11n(H20)



Date: 17.JAN.2019 22:04:09

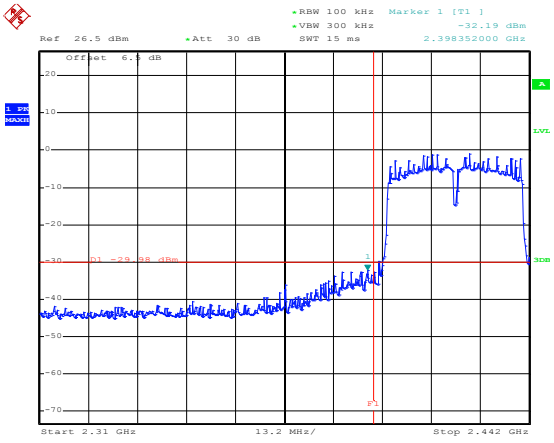
Lowest channel



Date: 17.JAN.2019 22:07:03

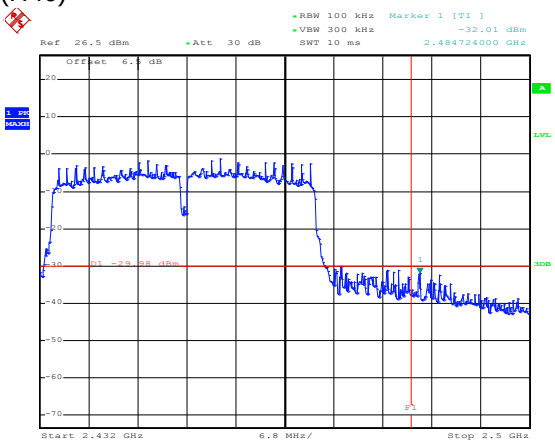
Highest channel

802.11n(H40)



Date: 17.JAN.2019 22:05:06

Lowest channel



Date: 17.JAN.2019 22:06:18

Highest channel

6.6.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209 and 15.205
Test Method:	ANSI C63.10: 2013 and KDB 558074
Test Frequency Range:	2.3GHz to 2.5GHz
Test Distance:	3m

Receiver setup:

Frequency	Detector	RBW	VBW	Remark
Above 1GHz	Peak	1MHz	3MHz	Peak Value
	RMS	1MHz	3MHz	Average Value

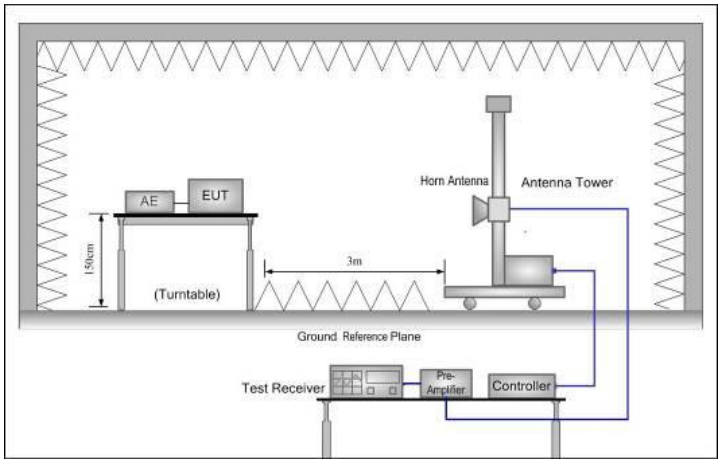
Limit:

Frequency	Limit (dBuV/m @3m)	Remark
Above 1GHz	54.00	Average Value
	74.00	Peak Value

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.

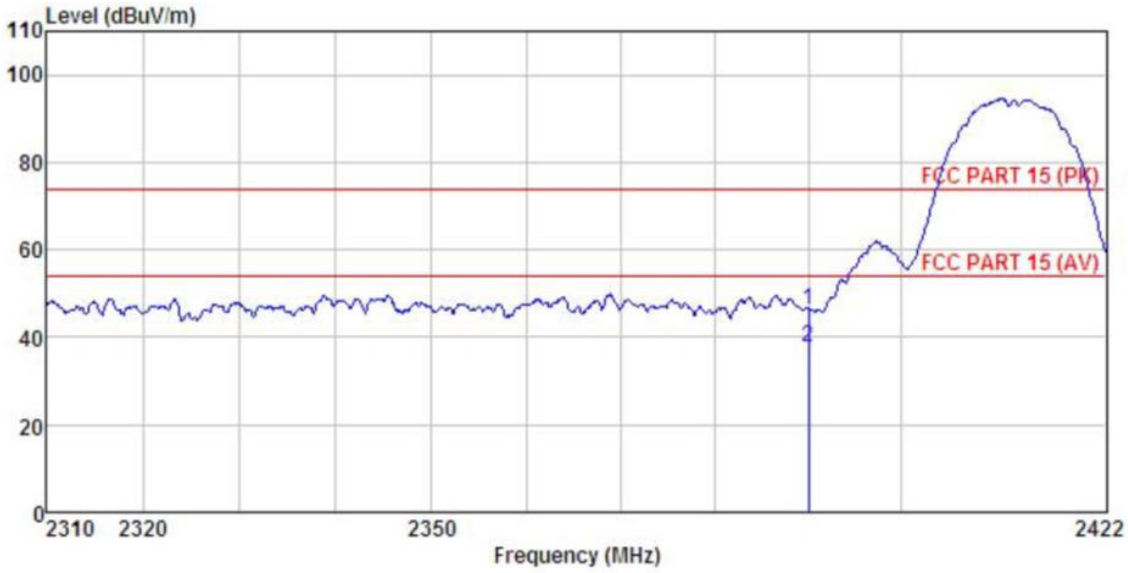
Test setup:



Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

802.11b mode:

Product Name:	Fashion C	**Product Model:**	Fashion C
Test By:	YT	**Test mode:**	802.11b Tx mode
Test Channel:	Lowest channel	**Polarization:**	Vertical
Test Voltage:	AC 120/60Hz	**Environment:**	Temp: 24℃ Huni: 57%

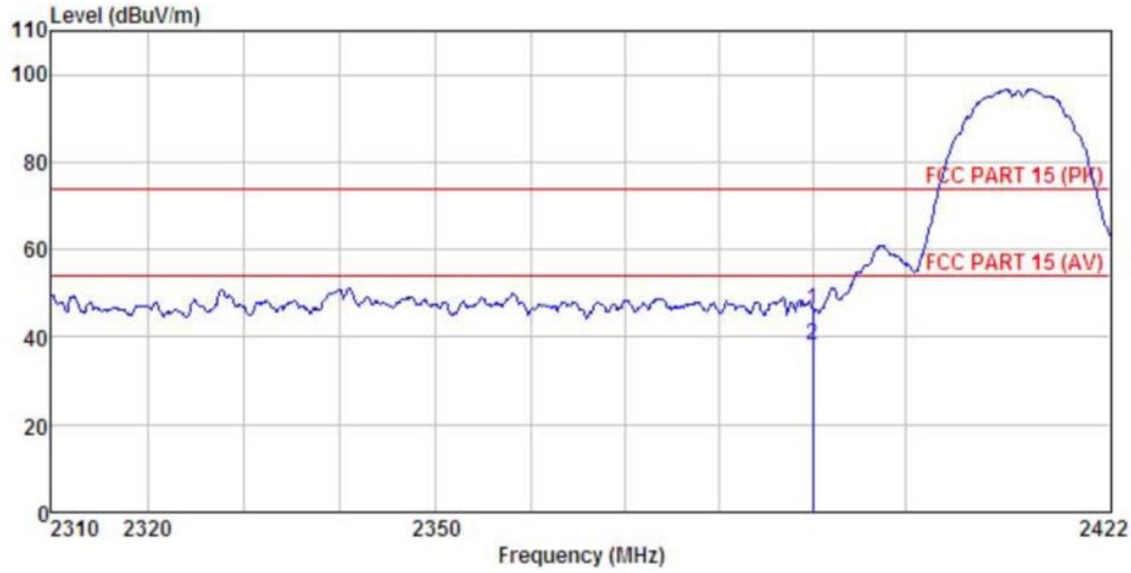


	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	16.14	25.45	4.69	0.00	46.28	74.00	-27.72	Peak
2	2390.000	7.58	25.45	4.69	0.00	37.72	54.00	-16.28	Average

Remark:

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

Product Name:	Fashion C	Product Model:	Fashion C
Test By:	YT	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%

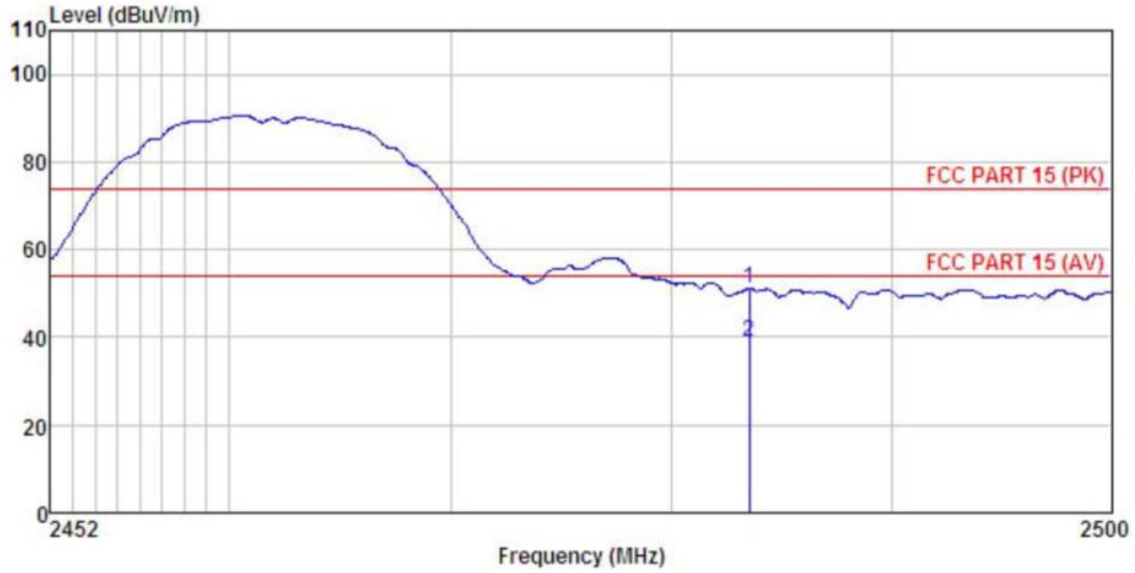


	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	15.96	25.45	4.69	0.00	46.10	74.00	-27.90	Peak
2	2390.000	8.03	25.45	4.69	0.00	38.17	54.00	-15.83	Average

Remark:

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

Product Name:	Fashion C	Product Model:	Fashion C
Test By:	YT	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%

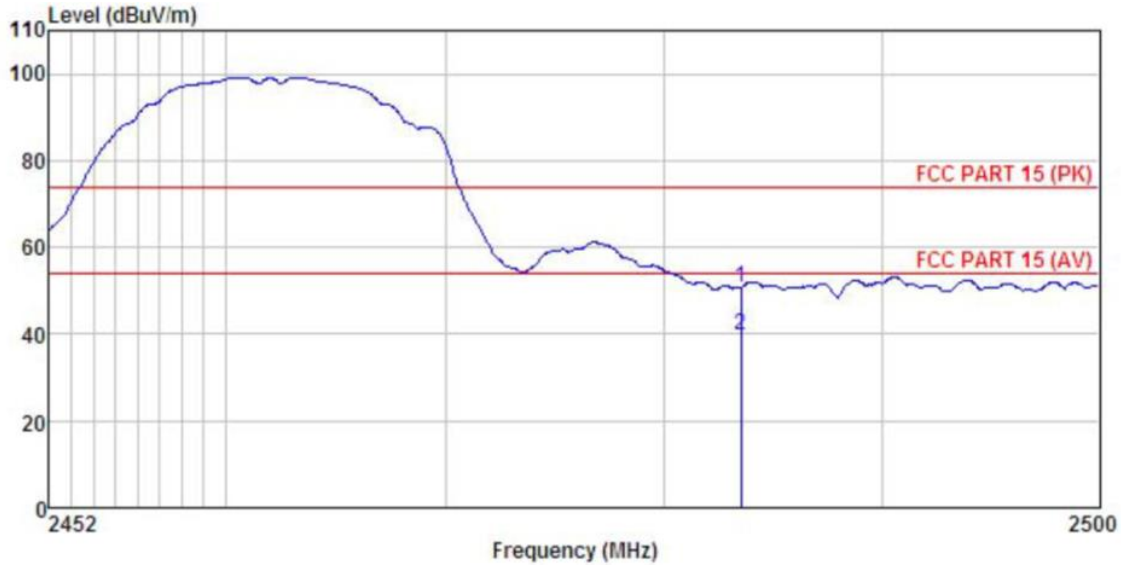


	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	20.65	25.66	4.81	0.00	51.12	74.00	-22.88	Peak
2	2483.500	8.58	25.66	4.81	0.00	39.05	54.00	-14.95	Average

Remark:

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

Product Name:	Fashion C	Product Model:	Fashion C
Test By:	YT	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



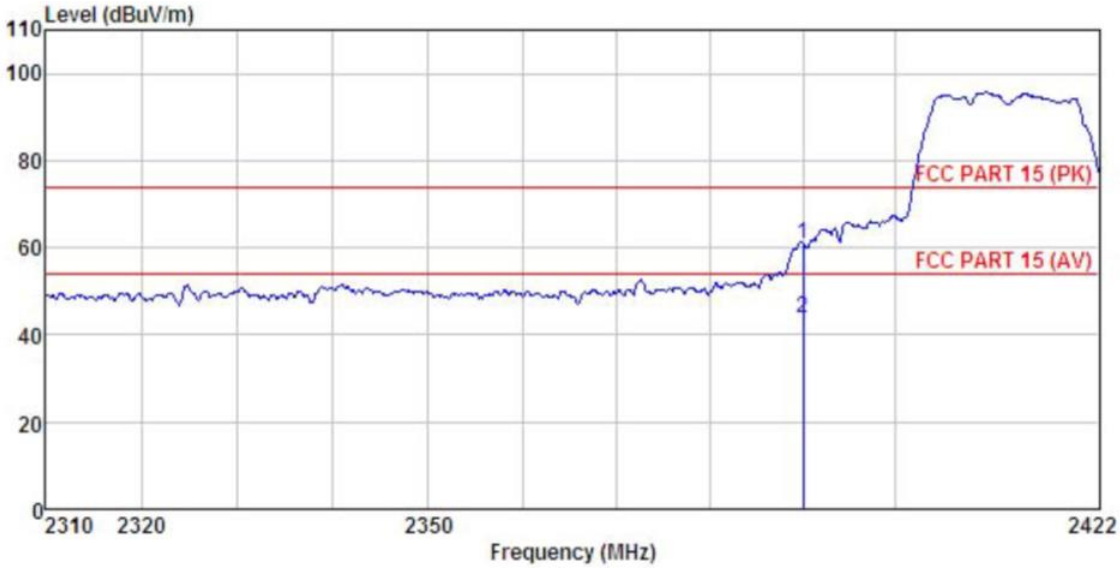
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	20.32	25.66	4.81	0.00	50.79	74.00	-23.21	Peak
2	2483.500	9.17	25.66	4.81	0.00	39.64	54.00	-14.36	Average

Remark:

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

802.11g mode:

Product Name:	Fashion C	**Product Model:**	Fashion C
Test By:	YT	**Test mode:**	802.11g Tx mode
Test Channel:	Lowest channel	**Polarization:**	Vertical
Test Voltage:	AC 120/60Hz	**Environment:**	Temp: 24℃ Huni: 57%

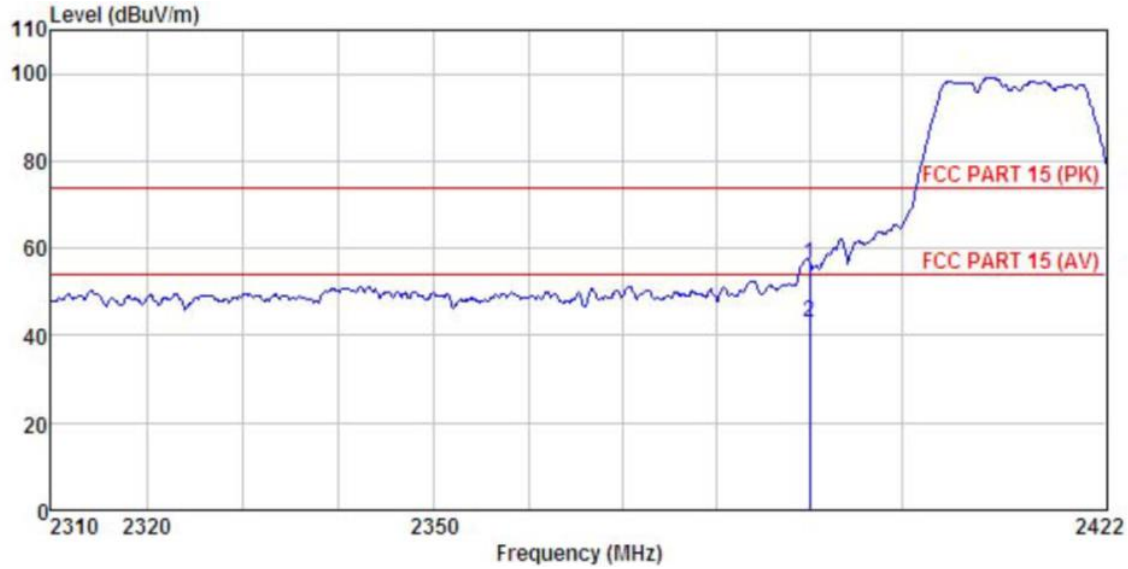


	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	30.68	25.45	4.69	0.00	60.82	74.00	-13.18	Peak
2	2390.000	13.62	25.45	4.69	0.00	43.76	54.00	-10.24	Average

Remark:

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

Product Name:	Fashion C	Product Model:	Fashion C
Test By:	YT	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%

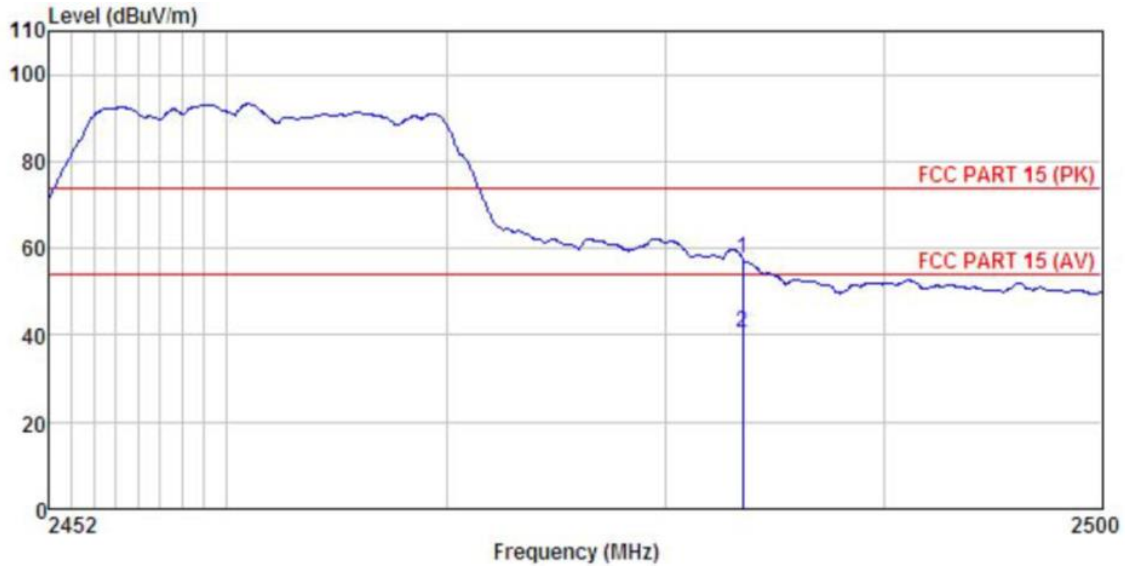


	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	26.43	25.45	4.69	0.00	56.57	74.00	-17.43	Peak
2	2390.000	12.96	25.45	4.69	0.00	43.10	54.00	-10.90	Average

Remark:

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

Product Name:	Fashion C	Product Model:	Fashion C
Test By:	YT	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%

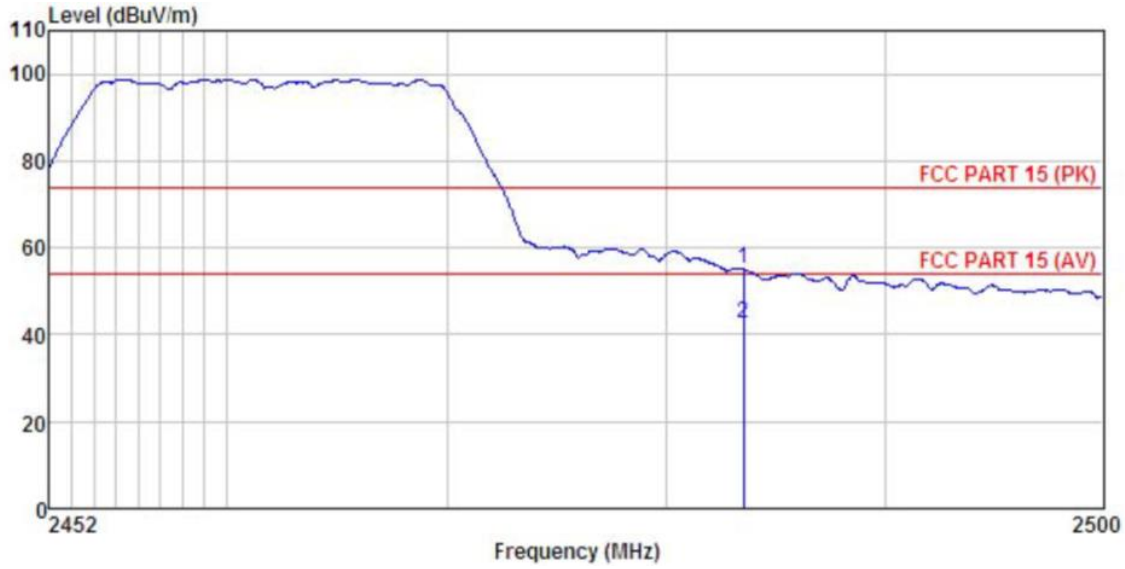


	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	27.04	25.66	4.81	0.00	57.51	74.00	-16.49	Peak
2	2483.500	10.24	25.66	4.81	0.00	40.71	54.00	-13.29	Average

Remark:

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

Product Name:	Fashion C	Product Model:	Fashion C
Test By:	YT	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



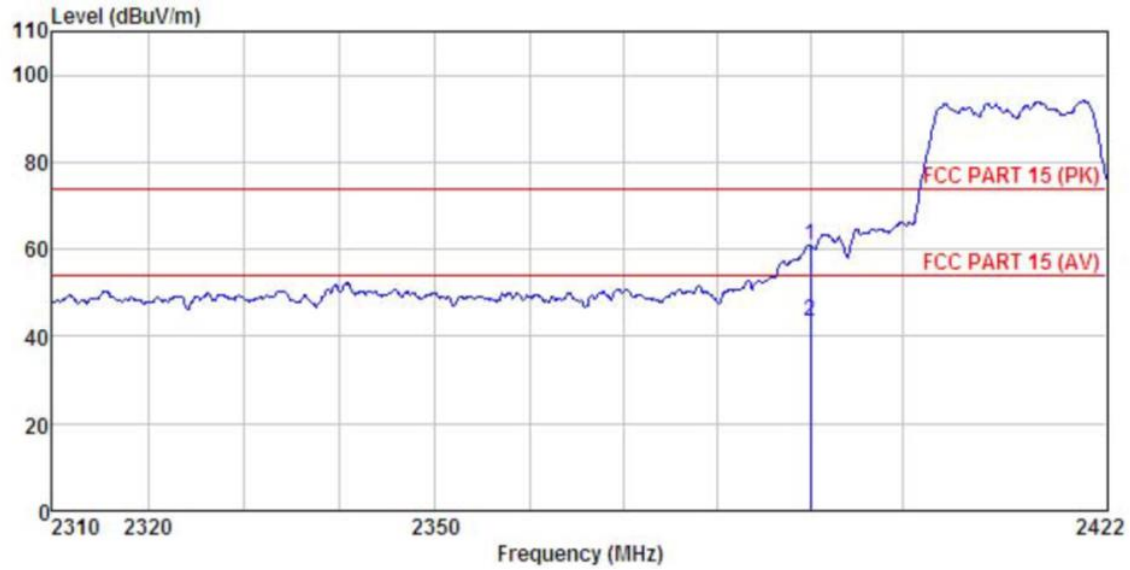
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	24.58	25.66	4.81	0.00	55.05	74.00	-18.95	Peak
2	2483.500	12.21	25.66	4.81	0.00	42.68	54.00	-11.32	Average

Remark:

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

802.11n(HT20):

Product Name:	Fashion C	**Product Model:**	Fashion C
Test By:	YT	**Test mode:**	802.11n(HT20) Tx mode
Test Channel:	Lowest channel	**Polarization:**	Vertical
Test Voltage:	AC 120/60Hz	**Environment:**	Temp: 24℃ Huni: 57%

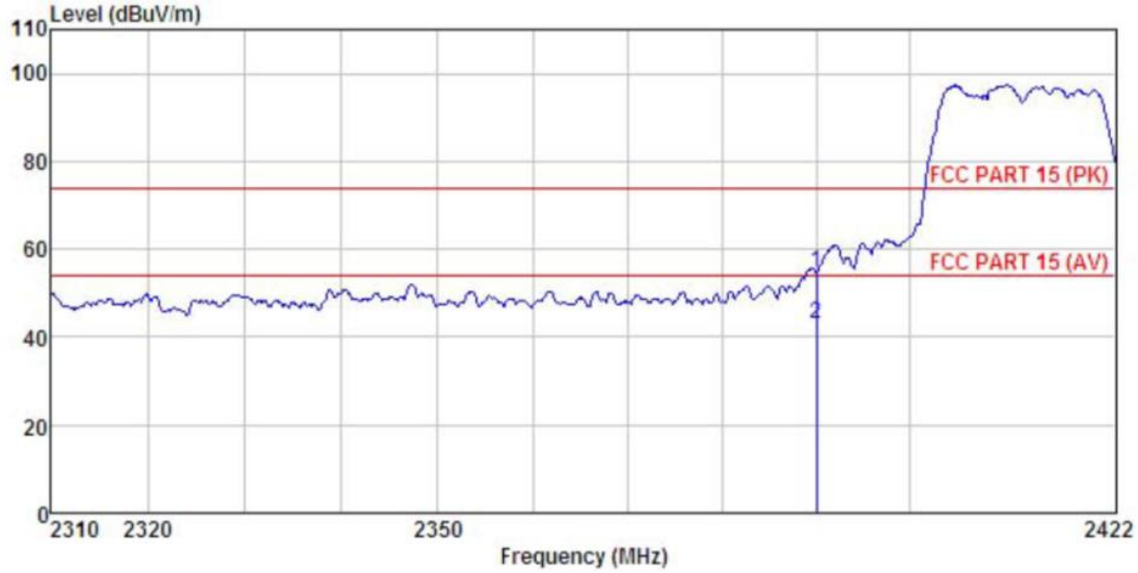


	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	30.74	25.45	4.69	0.00	60.88	74.00	-13.12	Peak
2	2390.000	13.20	25.45	4.69	0.00	43.34	54.00	-10.66	Average

Remark:

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

Product Name:	Fashion C	Product Model:	Fashion C
Test By:	YT	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%

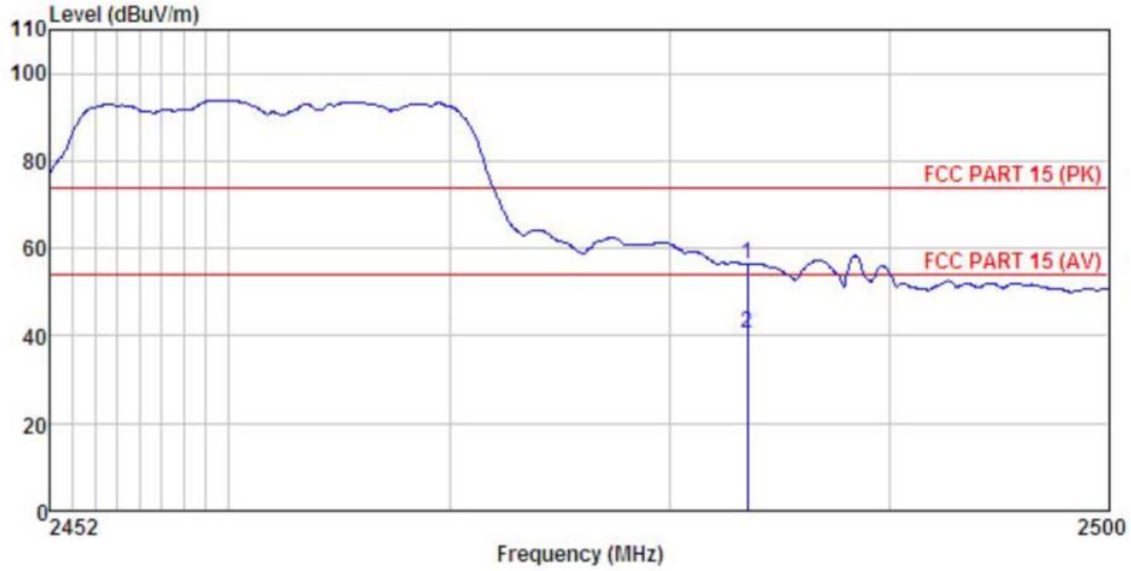


	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	24.63	25.45	4.69	0.00	54.77	74.00	-19.23	Peak
2	2390.000	13.01	25.45	4.69	0.00	43.15	54.00	-10.85	Average

Remark:

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

Product Name:	Fashion C	Product Model:	Fashion C
Test By:	YT	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%

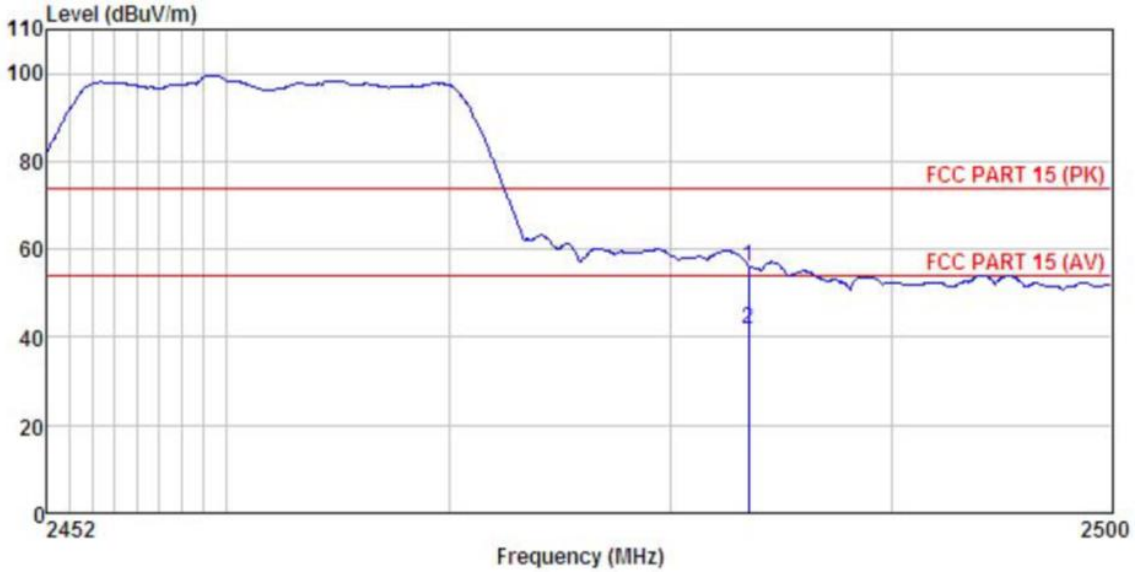


	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	25.89	25.66	4.81	0.00	56.36	74.00	-17.64	Peak
2	2483.500	9.97	25.66	4.81	0.00	40.44	54.00	-13.56	Average

Remark:

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

Product Name:	Fashion C	Product Model:	Fashion C
Test By:	YT	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



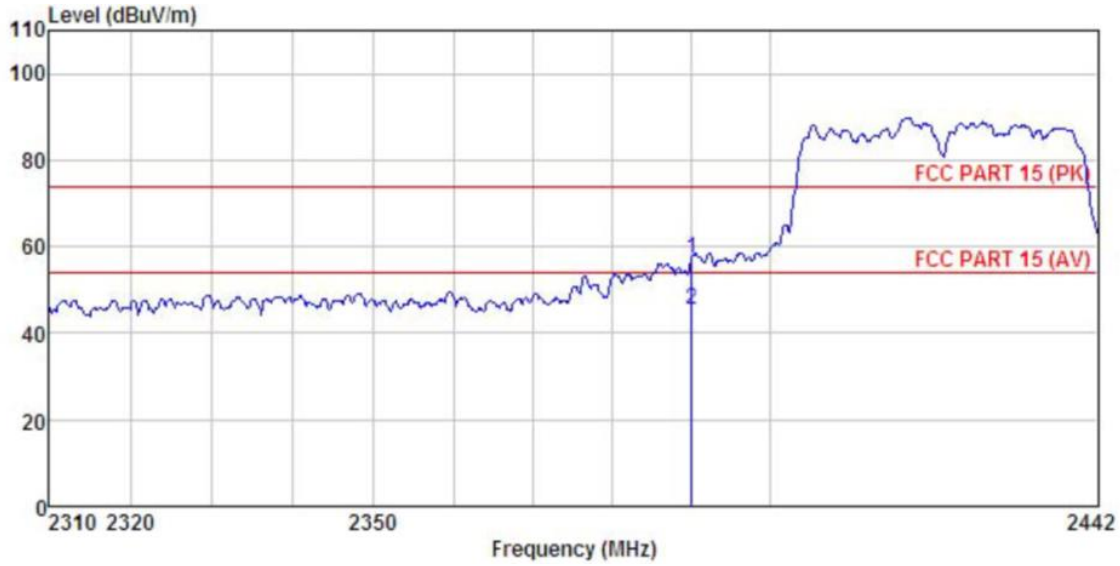
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	25.67	25.66	4.81	0.00	56.14	74.00	-17.86	Peak
2	2483.500	11.52	25.66	4.81	0.00	41.99	54.00	-12.01	Average

Remark:

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

802.11n(HT40):

Product Name:	Fashion C	**Product Model:**	Fashion C
Test By:	YT	**Test mode:**	802.11n(HT40) Tx mode
Test Channel:	Lowest channel	**Polarization:**	Vertical
Test Voltage:	AC 120/60Hz	**Environment:**	Temp: 24℃ Huni: 57%

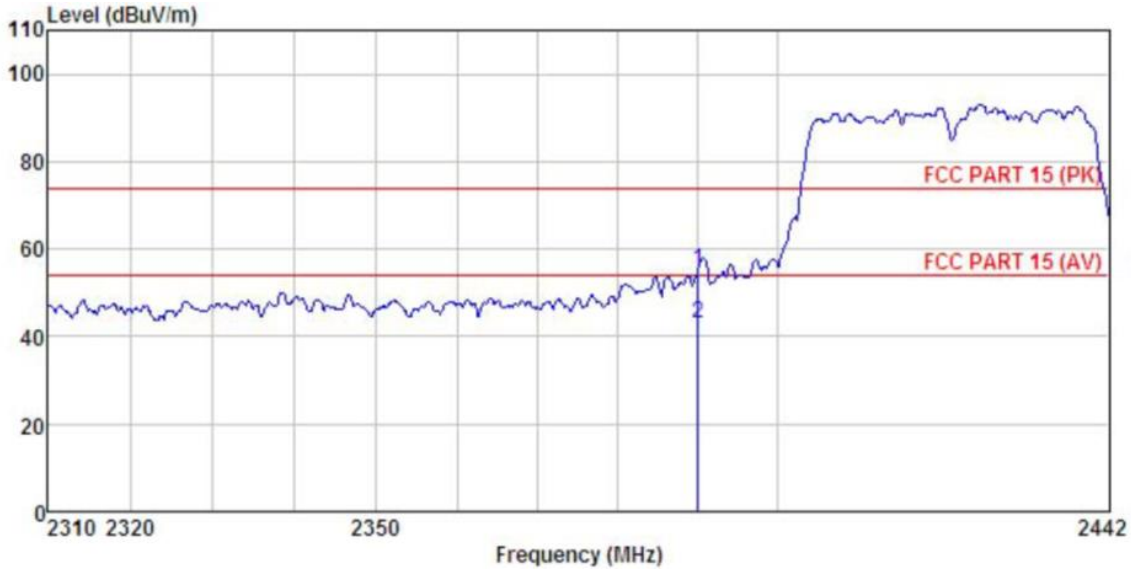


	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	27.26	25.45	4.69	0.00	57.40	74.00	-16.60	Peak
2	2390.000	15.51	25.45	4.69	0.00	45.65	54.00	-8.35	Average

Remark:

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

Product Name:	Fashion C	Product Model:	Fashion C
Test By:	YT	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%

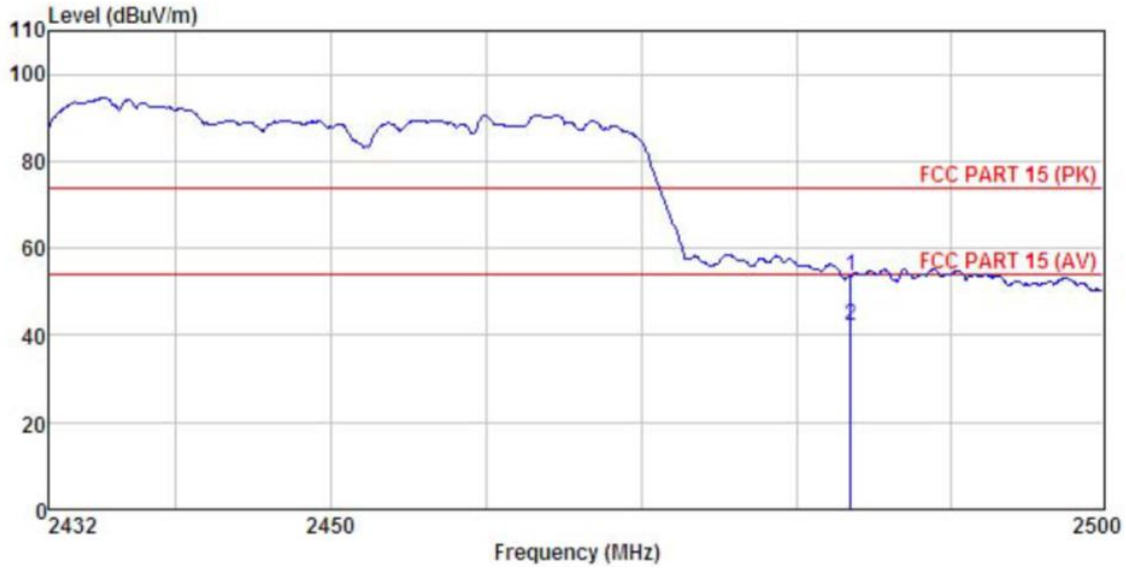


	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	25.03	25.45	4.69	0.00	55.17	74.00	-18.83	Peak
2	2390.000	12.89	25.45	4.69	0.00	43.03	54.00	-10.97	Average

Remark:

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

Product Name:	Fashion C	Product Model:	Fashion C
Test By:	YT	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%

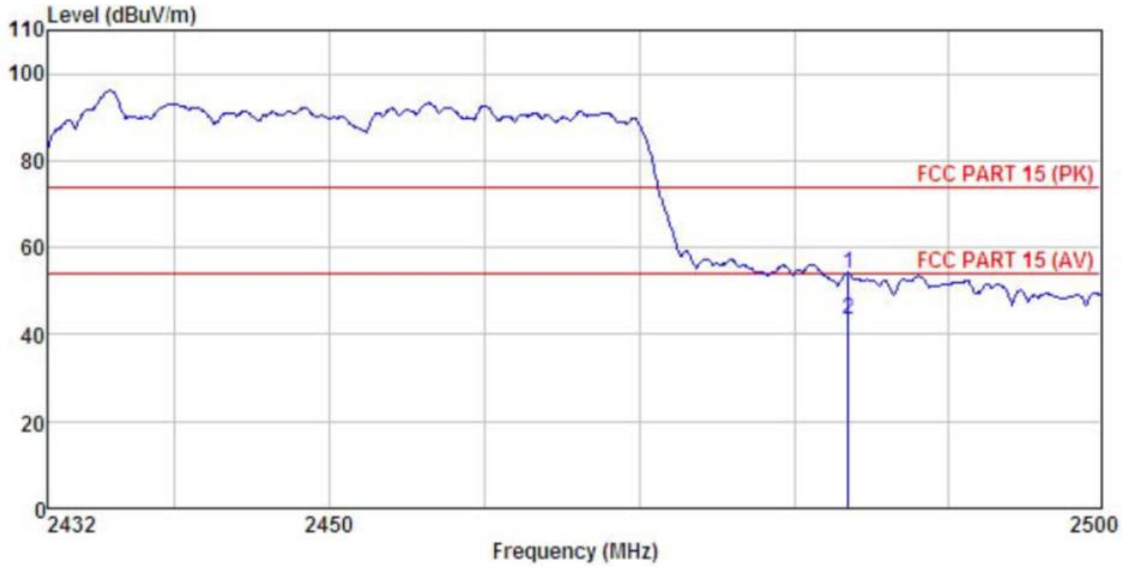


	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	23.26	25.66	4.81	0.00	53.73	74.00	-20.27	Peak
2	2483.500	11.89	25.66	4.81	0.00	42.36	54.00	-11.64	Average

Remark:

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

Product Name:	Fashion C	Product Model:	Fashion C
Test By:	YT	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



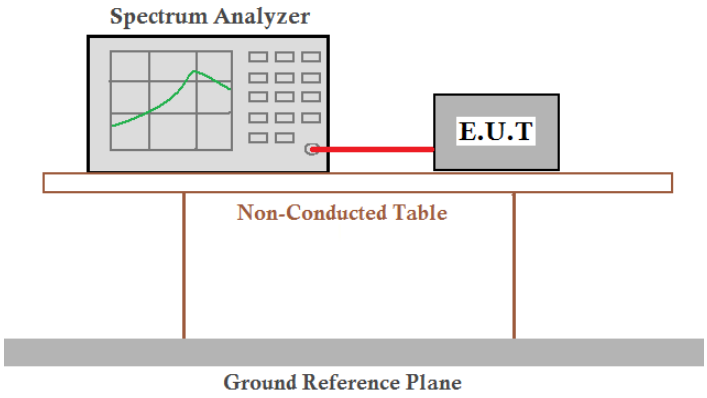
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	23.62	25.66	4.81	0.00	54.09	74.00	-19.91	Peak
2	2483.500	13.16	25.66	4.81	0.00	43.63	54.00	-10.37	Average

Remark:

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

6.7 Spurious Emission

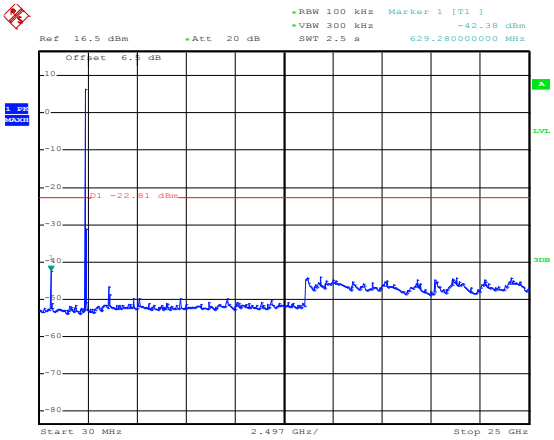
6.7.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB 558074
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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
Test setup:	
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Test plot as follows:

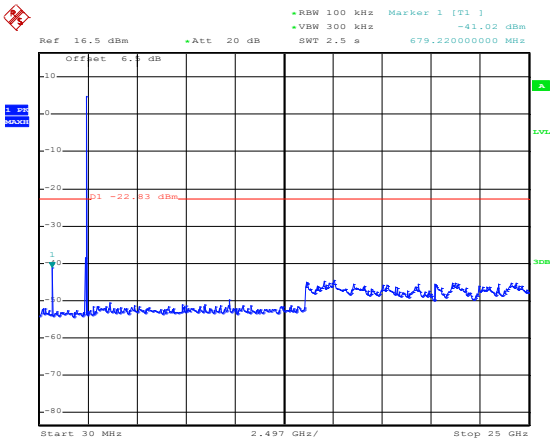
Test mode: 802.11b

Lowest channel



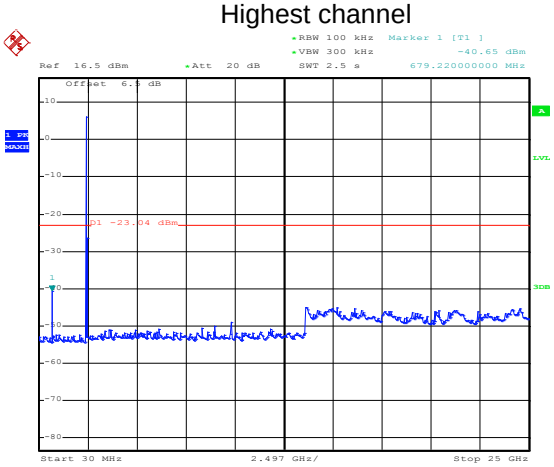
Date: 17.JAN.2019 22:14:15

Middle channel



Date: 17.JAN.2019 22:09:31

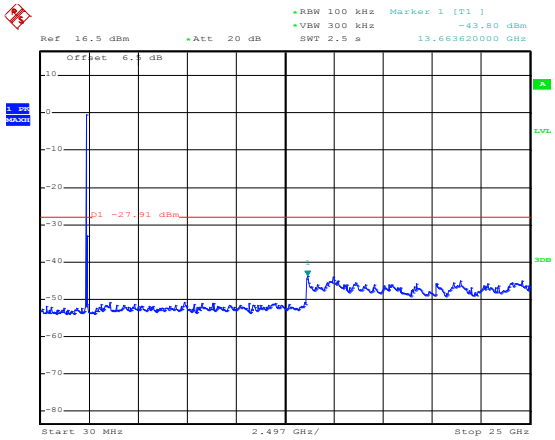
Highest channel



Date: 17.JAN.2019 22:09:00

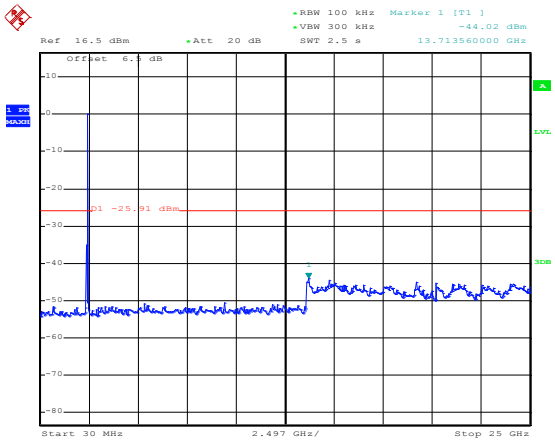
Test mode: 802.11g

Lowest channel



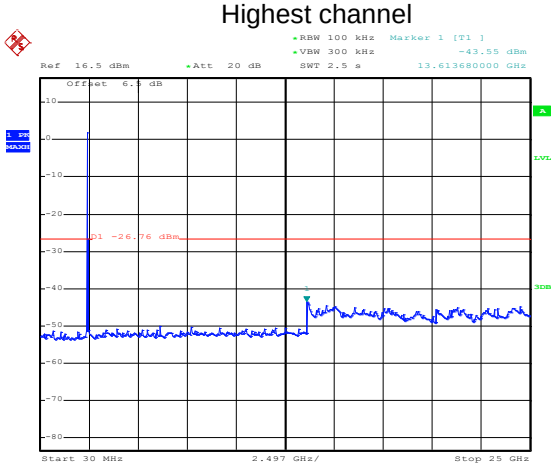
Date: 17.JAN.2019 22:19:38

Middle channel



Date: 17.JAN.2019 22:20:40

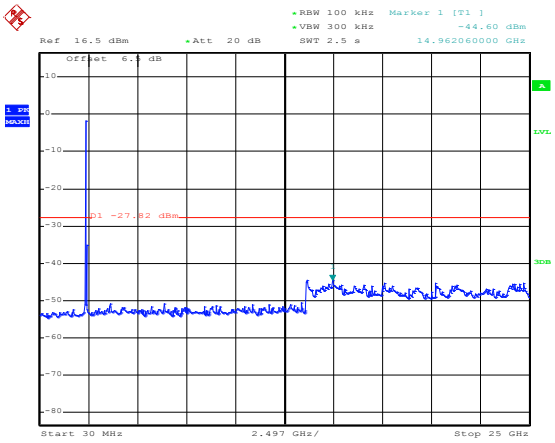
Highest channel



Date: 17.JAN.2019 22:22:21

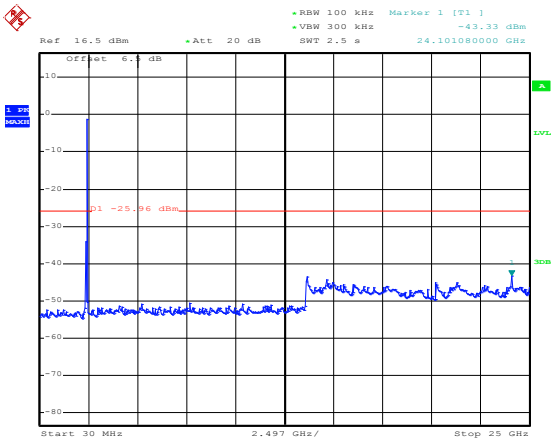
Test mode: 802.11n(H20)

Lowest channel



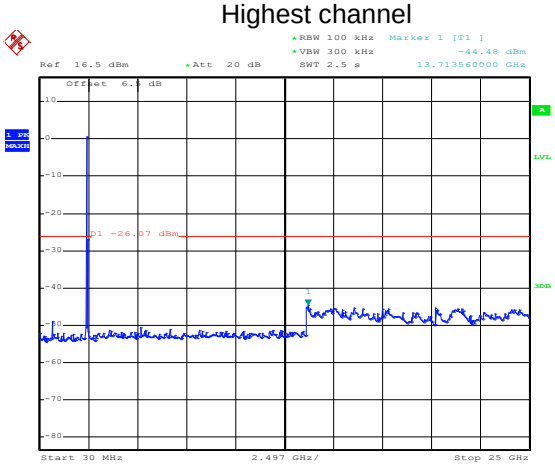
Date: 17.JAN.2019 22:22:51

Middle channel



Date: 17.JAN.2019 22:23:23

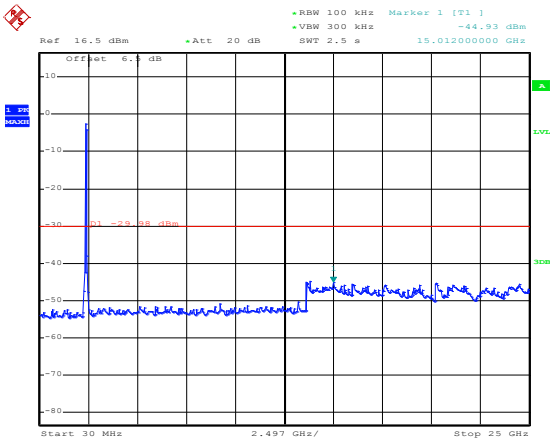
Highest channel



Date: 17.JAN.2019 22:23:58

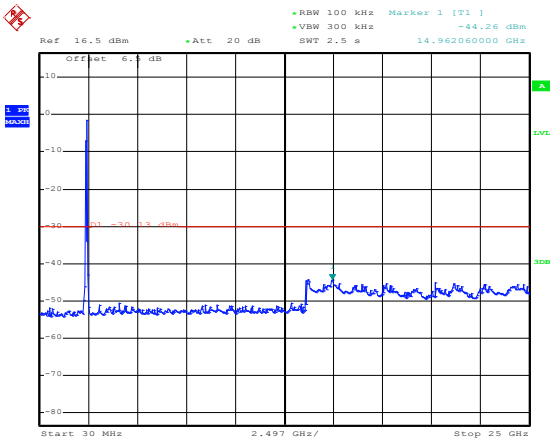
Test mode: 802.11n(H40)

Lowest channel



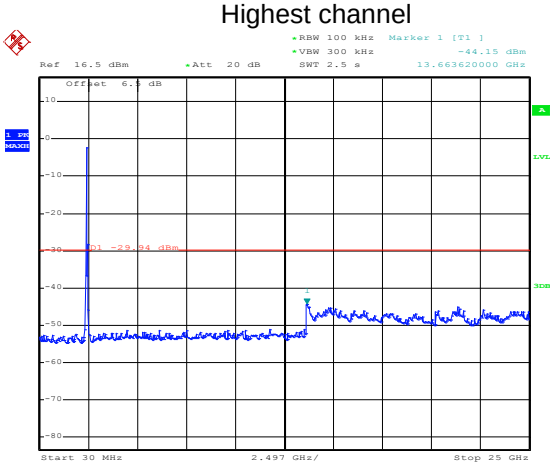
Date: 17.JAN.2019 22:24:25

Middle channel



Date: 17.JAN.2019 22:25:01

Highest channel



Date: 17.JAN.2019 22:25:21

6.7.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209 and 15.205
Test Method:	ANSI C63.10:2013
Test Frequency Range:	9kHz to 25GHz
Test Distance:	3m

Receiver setup:

Frequency	Detector	RBW	VBW	Remark
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
Above 1GHz	Peak	1MHz	3MHz	Peak Value
	RMS	1MHz	3MHz	Average Value

Limit:

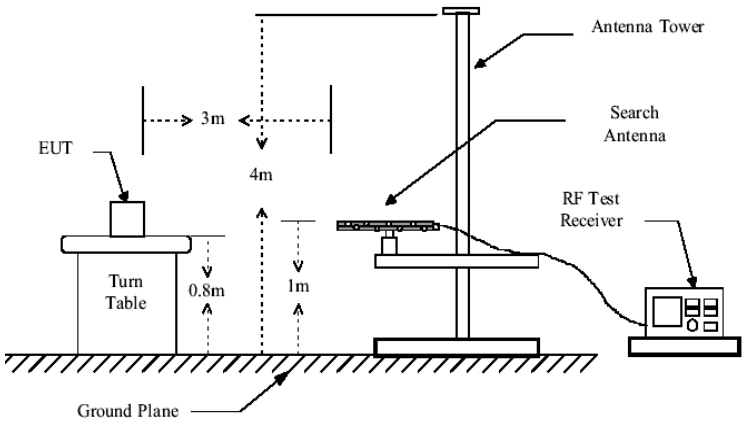
Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.0	Quasi-peak Value
88MHz-216MHz	43.5	Quasi-peak Value
216MHz-960MHz	46.0	Quasi-peak Value
960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz	54.0	Average Value
	74.0	Peak Value

Test Procedure:

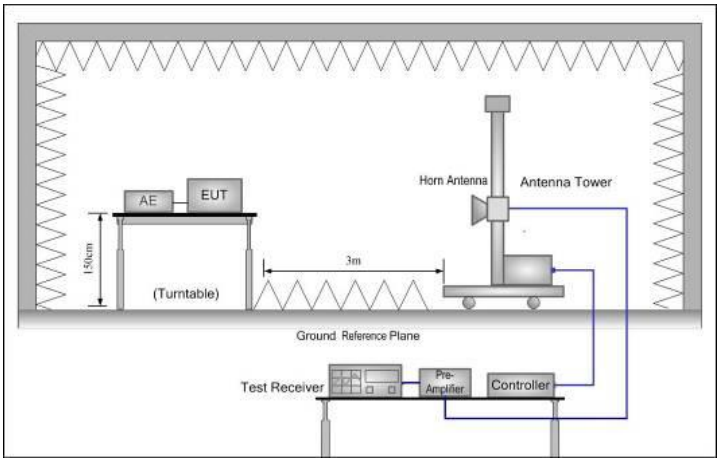
1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted 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.

Test setup:

Below 1GHz



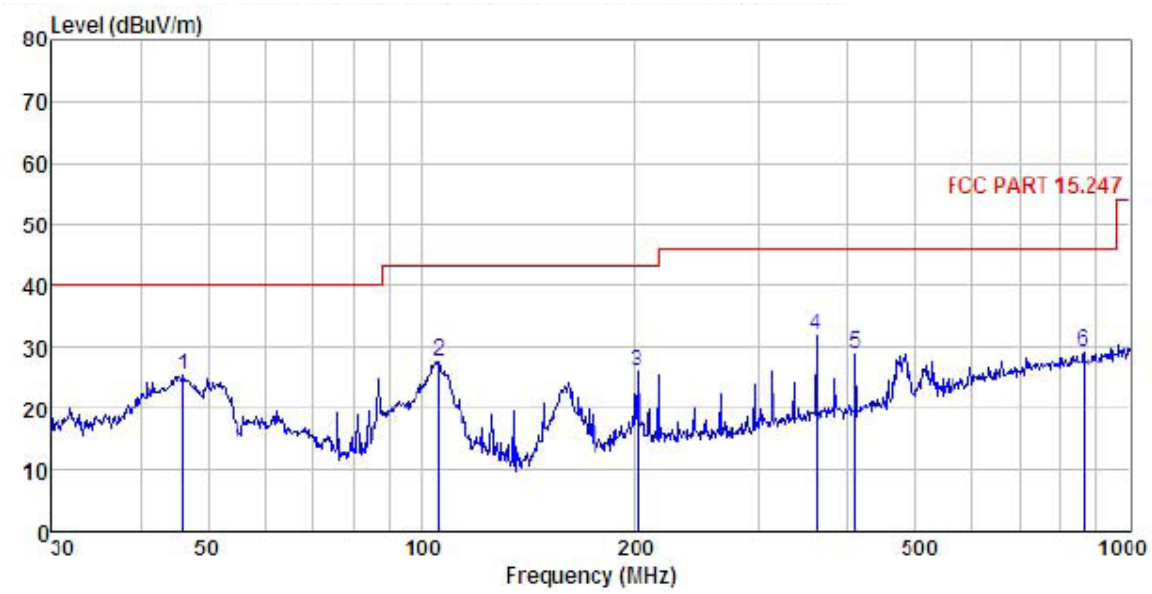
Above 1GHz

	
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case. 2. 9 kHz to 30MHz is too low, so only shows the data of above 30MHz in this report.

Measurement Data (worst case):

Below 1GHz:

Product Name:	Fashion C	**Product Model:**	Fashion C
Test By:	YT	**Test mode:**	Wi-Fi Tx mode
Test Frequency:	30 MHz ~ 1 GHz	**Polarization:**	Vertical
Test Voltage:	AC 120/60Hz	**Environment:**	Temp: 24℃ Huni: 57%

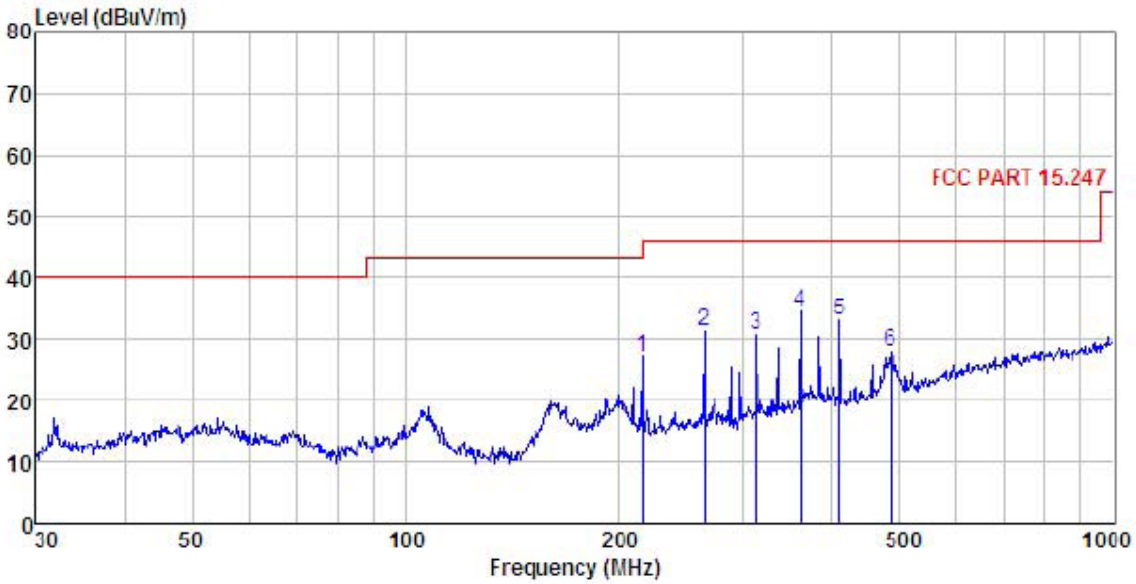


	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	46.016	40.27	13.78	1.28	29.85	25.48	40.00	-14.52	QP
2	106.013	43.16	12.07	2.01	29.48	27.76	43.50	-15.74	QP
3	201.393	40.38	11.56	2.87	28.82	25.99	43.50	-17.51	QP
4	360.448	42.58	14.80	3.10	28.61	31.87	46.00	-14.13	QP
5	408.946	39.06	15.61	3.10	28.80	28.97	46.00	-17.03	QP
6	860.035	31.57	21.51	4.10	27.98	29.20	46.00	-16.80	QP

Remark:

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

Product Name:	Fashion C	Product Model:	Fashion C
Test By:	YT	Test mode:	Wi-Fi Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	216.024	40.79	12.12	2.85	28.73	27.03	46.00	-18.97	QP
2	263.819	43.47	13.39	2.85	28.51	31.20	46.00	-14.80	QP
3	312.179	42.24	13.86	2.98	28.48	30.60	46.00	-15.40	QP
4	360.448	45.32	14.80	3.10	28.61	34.61	46.00	-11.39	QP
5	408.946	43.13	15.61	3.10	28.80	33.04	46.00	-12.96	QP
6	483.910	36.49	17.07	3.48	28.93	28.11	46.00	-17.89	QP

Remark:

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

Above 1GHz

802.11b								
Test channel: Lowest channel								
Detector: 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	46.91	36.06	6.81	41.82	47.96	74.00	-26.04	Vertical
4824.00	46.88	36.06	6.81	41.82	47.93	74.00	-26.07	Horizontal
Detector: 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	38.05	36.06	6.81	41.82	39.10	54.00	-14.90	Vertical
4824.00	37.14	36.06	6.81	41.82	38.19	54.00	-15.81	Horizontal
Test channel: Middle channel								
Detector: 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	50.39	36.32	6.85	41.84	51.72	74.00	-22.28	Vertical
4874.00	49.81	36.32	6.85	41.84	51.14	74.00	-22.86	Horizontal
Detector: 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	41.13	36.32	6.85	41.84	42.46	54.00	-11.54	Vertical
4874.00	40.28	36.32	6.85	41.84	41.61	54.00	-12.39	Horizontal
Test channel: Highest channel								
Detector: 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	47.28	36.58	6.89	41.86	48.89	74.00	-25.11	Vertical
4924.00	46.84	36.58	6.89	41.86	48.45	74.00	-25.55	Horizontal
Detector: 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	42.21	36.58	6.89	41.86	43.82	54.00	-10.18	Vertical
4924.00	37.85	36.58	6.89	41.86	39.46	54.00	-14.54	Horizontal

Remark:

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

802.11g								
Test channel: Lowest channel								
Detector: 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	46.85	36.06	6.81	41.82	47.90	74.00	-26.10	Vertical
4824.00	46.34	36.06	6.81	41.82	47.39	74.00	-26.62	Horizontal
Detector: 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	38.01	36.06	6.81	41.82	39.06	54.00	-14.94	Vertical
4824.00	37.12	36.06	6.81	41.82	38.17	54.00	-15.83	Horizontal
Test channel: Middle channel								
Detector: 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	49.58	36.32	6.85	41.84	50.91	74.00	-23.09	Vertical
4874.00	49.37	36.32	6.85	41.84	50.70	74.00	-23.30	Horizontal
Detector: 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	38.14	36.32	6.85	41.84	39.47	54.00	-14.53	Vertical
4874.00	39.48	36.32	6.85	41.84	40.81	54.00	-13.19	Horizontal
Test channel: Highest channel								
Detector: 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	47.13	36.58	6.89	41.86	48.74	74.00	-25.26	Vertical
4924.00	46.52	36.58	6.89	41.86	48.13	74.00	-25.87	Horizontal
Detector: 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	37.14	36.58	6.89	41.86	38.75	54.00	-15.25	Vertical
4924.00	37.53	36.58	6.89	41.86	39.14	54.00	-14.86	Horizontal

Remark:

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

802.11n(HT20)								
Test channel: Lowest channel								
Detector: 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	45.25	36.06	6.81	41.82	46.30	74.00	-27.70	Vertical
4824.00	46.01	36.06	6.81	41.82	47.06	74.00	-26.94	Horizontal
Detector: 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	36.63	36.06	6.81	41.82	37.68	54.00	-16.32	Vertical
4824.00	37.12	36.06	6.81	41.82	38.17	54.00	-15.83	Horizontal
Test channel: Middle channel								
Detector: 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	49.42	36.32	6.85	41.84	50.75	74.00	-23.25	Vertical
4874.00	49.27	36.32	6.85	41.84	50.60	74.00	-23.40	Horizontal
Detector: 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	38.01	36.32	6.85	41.84	39.34	54.00	-14.66	Vertical
4874.00	39.22	36.32	6.85	41.84	40.55	54.00	-13.45	Horizontal
Test channel: Highest channel								
Detector: 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	47.02	36.58	6.89	41.86	48.63	74.00	-25.37	Vertical
4924.00	46.31	36.58	6.89	41.86	47.92	74.00	-26.08	Horizontal
Detector: 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	37.07	36.58	6.89	41.86	38.68	54.00	-15.32	Vertical
4924.00	37.52	36.58	6.89	41.86	39.13	54.00	-14.87	Horizontal

Remark:

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

802.11n(HT40)								
Test channel: Lowest channel								
Detector: 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	45.11	36.06	6.81	41.82	46.16	74.00	-27.84	Vertical
4844.00	45.50	36.06	6.81	41.82	46.55	74.00	-27.45	Horizontal
Detector: 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	36.23	36.06	6.81	41.82	37.28	54.00	-16.72	Vertical
4844.00	36.69	36.06	6.81	41.82	37.74	54.00	-16.26	Horizontal
Test channel: Middle channel								
Detector: 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	49.37	36.32	6.85	41.84	50.70	74.00	-23.30	Vertical
4874.00	49.01	36.32	6.85	41.84	50.34	74.00	-23.66	Horizontal
Detector: 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	39.15	36.32	6.85	41.84	40.48	54.00	-13.52	Vertical
4874.00	40.01	36.32	6.85	41.84	41.34	54.00	-12.66	Horizontal
Test channel: Highest channel								
Detector: 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	46.69	36.45	6.87	41.85	48.16	74.00	-25.84	Vertical
4904.00	47.01	36.45	6.87	41.85	48.48	74.00	-25.52	Horizontal
Detector: 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	37.45	36.45	6.87	41.85	38.92	54.00	-15.08	Vertical
4904.00	37.21	36.45	6.87	41.85	38.68	54.00	-15.32	Horizontal

Remark:

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